



**NICHE**  
**KANYAKUMARI**  
DEEMED-TO-BE UNIVERSITY

[www.niuniv.com](http://www.niuniv.com) @f000/nicheuni

**NOORUL ISLAM CENTRE  
FOR HIGHER EDUCATION**

Accredited by NAAC (Cycle - 2)

Kumaracoll, Thuckalay, Kanyakumari District, Tamil Nadu-629 180 | [Info@niuniv.com](mailto:Info@niuniv.com) | +91 9486856101, 04651 250566



**ANNUAL REPORT 2022-2023**

## **VISION**

To be recognized by the Government and society at large as an institution able to deliver excellence with relevance in the field of higher education and research focusing on the needs of the nation in tune with the technological revolution to cope up with the knowledge explosion and global competence.

## **MISSION**

To develop the Institution as a centre of excellence, keeping pace with advances in the field, so as to provide quality higher education to the students and instill in them high enlightened individuals in the frontier areas of science and Technology.

## **QUALITY POLICY**

We offer value added professional education and promote intensive and innovative research with emphasis on a continual improvement in all our service.

## INDEX

| Sl.No. | Particulars                                                            | Page No. |
|--------|------------------------------------------------------------------------|----------|
| 1.     | Introduction                                                           | 4-17     |
| 2.     | Authorities of NICHE-Board of Management                               | 18-19    |
| 3      | Academic Council                                                       | 19-22    |
| 4.     | Finance Committee                                                      | 23       |
| 5.     | Planning & Monitoring Board                                            | 23       |
| 6.     | Board of Research, Development & Consultancy (BRDC)                    | 24       |
| 7.     | Boards of studies                                                      | 25-43    |
| 8      | Deans of Faculties                                                     | 44       |
| 9      | Department of Aeronautical Engineering                                 | 45-51    |
| 10.    | Department of Aerospace Engineering                                    | 52-59    |
| 11     | Department of Aircraft Maintenance                                     | 60-66    |
| 12     | Department of Automobile Engineering                                   | 67-73    |
| 13.    | Department of Allied Health Sciences                                   | 74-88    |
| 14.    | Department of Biomedical Engineering                                   | 89-96    |
| 15     | Department of Civil Engineering Engineering                            | 97-106   |
| 16     | Department of Computer Applications                                    | 107-116  |
| 17     | Department of Computer Science& Engineering                            | 117-130  |
| 18.    | Department of Electronics &Communication Engineering                   | 131-141  |
| 19.    | Department of Electrical &Electronics Engineering                      | 142-152  |
| 20     | Department of Electronics &Instrumentation Engineering                 | 153-163  |
| 21     | Department of English                                                  | 163-173  |
| 22     | Fire Technology & Safety Engineering                                   | 173-181  |
| 23     | Department of Information Technology                                   | 182-197  |
| 24     | Department of Marine Engineering                                       | 198-209  |
| 25     | Department of Mathematics                                              | 210-221  |
| 26     | Department of Mechanical Engineering                                   | 222-235  |
| 27     | Faculty of Management Studies                                          | 236-248  |
| 28     | Department of Nanotechnology                                           | 249-267  |
| 29     | Department of Physics                                                  | 268-282  |
| 30     | Department of Software Engineering                                     | 283-292  |
| 31     | Department of Physical Education                                       | 293      |
| 32     | Placement & Training                                                   | 294-302  |
| 33     | Grievance Cell                                                         | 302-303  |
| 34     | Internal Quality Assuring Cell                                         | 304-305  |
| 35     | OBC Cell                                                               | 305-306  |
| 36     | SC/ST Cell                                                             | 306-307  |
| 37     | Sexual Harassment Cell                                                 | 307-309  |
| 38     | SWAYAM Cell                                                            | 309-317  |
| 39     | Women Empowerment Cell                                                 | 318-3319 |
| 40     | Internal Complaints Committee                                          | 319-321  |
| 41     | Institution Innovation Council                                         | 321-323  |
| 42     | Career Counseling Centre                                               | 323-324  |
| 43     | Centre for Advanced Materials Science & Technology                     | 324-369  |
| 44     | Library                                                                | 369-370  |
| 45     | Controller of Examinations                                             | 371-381  |
| 46     | List of Faculty who attended seminar,webinar,FDP,PDPetc during 2022-23 | 382-393  |

## INTRODUCTION

Noorul Islam Centre for Higher Education (NICHE) was started in 1989 as an Engineering College with two Departments and eighty students. In 2006 considering its research potential Anna University, Chennai has recognized Mechanical, EEE, Management and Mathematics departments as Research Centers.

On 8<sup>th</sup> December 2008 NICHE was declared as a Deemed to be University by MHRD, Government of India. NICHE obtained 'A' Grade in NAAC assessment with a CGPA of 3.06 in 2015 in the first cycle and further accredited by NAAC in the second cycle also. National Institutional Ranking Frame Work (NIRF) has awarded 75<sup>th</sup> rank in the University stream and 66<sup>th</sup> rank among Engineering Institutions in 2016.

In 2017 NIRF ranking NICHE was placed in 150 -- 200 rank among Universities. The NBA- AICTE has accredited all the eligible courses till 2010. NICHE is an ISO 9001:2000 certified Institution, Ministry of Science and Technology has approved NICHE as a Scientific and Industrial Research Organization (SIRO) in 2008 and the same has been renewed .

NICHE was selected as the best University for educational and social commitments in rural areas by the Planning Commission and ASSOCHAM India in 2014, Faculty of Management Studies of NICHE has been declared as the best, B School in the Southern States of India. IBM has recognized the institution as a centre of excellence. Under the Student Satellite Programme, NICHE has developed and launched NIUSAT on 23<sup>rd</sup> June 2017 from Sriharikota through PSLV-38 with the help of ISRO, and the same has been functioning successfully and maintaining communication with the ground station.

NICHE is a current member of the International Association of Universities (IAU) and Association of Indian Universities (AIU). It is also a member of the National Academic Depository (NAD) and a member of the National Digital Library.(NDL).

Our Pro-Chancellor Shri. M.S. Faizal Khan was one among the four participants and only one from India to speak on "Second Sustainable Energy for All Forum" in the United Nations Head Quarters in New York, USA on 18-21 May 2015 and shared his experiences in setting up the Asia's first Green Cardiac Catheterization labs at NIMS Medicity powered by a hybrid in-house power project comprising of 220 KW solar power plant and vertical wind turbine.

As of now NICHE has eleven faculties, 23 departments offering 28 UG programmes, 22 PG programmes, Arts and Science, Management and Health Sciences and 21 Ph.D. Programmes in all the disciplines.

When it was a college, its students have bagged as many as 34 University ranks including 14 First ranks, 10 Second ranks and 10 Third ranks in the composite Anna University Chennai, apart from achieving more than 90% results in all disciplines during the five years 2005-2009. In 2006 - 2007. NICE had many firsts to its credits. To cite a few, NICE was the First Private Engineering College in South India to get Internet Connectivity via Satellite Link through National Informatics Center (NIC), Government of India in 1998. First Private Engineering College in South India with Multi-Point Video Conferencing Facility. NICHE students from our campus interacted with Dr. A.P.J. Abdul Kalam who was at Anna University Campus, Chennai, at that time. Later in 2010 he visited our campus and interacted with our students. Having established as a high-quality technical education provider over two decades and in its quest for more academic freedom and flexibility.

NICHE stood first among 226 Engineering Colleges in the centralized placements organized by Anna University Chennai. Further NICHE was ranked as 19<sup>th</sup> among 226 affiliated Engineering Colleges of Anna University, Chennai.

The infrastructural facilities of Noorul Islam Centre for Higher Education (NICHE) include a vast expanse of land of 47 acres, about 5 lakh sq.ft. of RCC built-up area, 13 Blocks of student hostels (9 for Gents and 4 for Ladies) 4 Canteens, 1 Gymnasium, Sports facilities like Foot-Ball/Cricket ground, Basket Ball/Volley Ball Courts, etc., nearly 1000 Computers and internet connectivity (ISDN&VSAT) anywhere, anytime inside the university premises. The campus has been connected with 1 GBPS National Knowledge Network (NKN) connectivity under the National Mission on Education, Government of India. NICHE campus and Hostels premises are *Wi-Fi* enabled.

Three Departments of NICHE are regularly bringing out three journals of international repute. IBM - recognized our NICHE as a centre for software excellence, Infosys - for Campus Connect Programme, Tata Consultancy Services (TCS) - for add-on training, Information Communication Technology Academy of Tamil Nadu (ICTACT) - for skill development.

Our Honorable Pro-Chancellor Mr. M.S. Faizal Khan has been nominated as a member of the First Court of Maulana Azad National Urdu University, Hyderabad by the Honorable President of India Dr. RamNath Kovind with effect from August 2018.

On 27<sup>th</sup> August 2018 Department of Nanotechnology has been sanctioned a sum of Rs.77 lakhs for DST FIST Level Programme and XRD D2 Phaser has been procured and installed in the Nano-characterization lab during April 2019.

A Cloud Computing Lab with 3 production servers was inaugurated on 6.9.2018 at a cost of Rs.50 lakhs by the Honorable Chancellor Dr. A.P. Majeed Khan, Its client mechanics are connected with the Cloud Hub through OFC at 1 Gigabyte per second speed, Subsequently it was upgraded to ten servers with 48TB storage. NICHE is the first VM Ware certified IT Company in Tamil Nadu and has received Microsoft Manganic License for cloud access. A Humaniod robotic lab setup at a cost of Rs.8 lakhs was also inaugurated on the same day.

NICHE was invited under by India-Israel Space – Tech Leadership programme “75 students satellites mission 2022” to interact with Israel diaspora and institutions for collaboration with ITCA. Dr. A. Shajin Nargunam then Director Academic Affairs participated in this initiative from 10-2-2019 to 14-2-2019 in Israel.

On your behalf as a continuation of our efforts under 75 students satellite mission by 2022 under Indo Isreal Space Tech. Leadership programme. Our honorable Pro-chancellor (Academic) Dr. R. Perumalsamy has visited the Israel at the invitation of MAZ Investments Limited to explore the opportunities to design and develop small satellites with the experts from Israel Academicians and Industries from 27 – 29<sup>th</sup> May 2019 and signed an MOU with them.

NICHE has a good placement record in the academic year 2022-23. During this period, 17 companies visited NICHE, and 957 students attended placement interviews. The students of NICHE received 158 job offers and 136 students were placed with an average salary of Rs. 2.3 lakhs p.a. As a part of the corporate social responsibility, NICHE has also placed 175 outside students from other Institutions. A Mega Campus Placement Drive was conducted at NICHE on 10<sup>th</sup> June 2023. Twenty three companies participated in this event. More than 1000 students registered and participated and 182 job offers were given.

Sustained efforts over the years have improved the quantity and the quality of our research publications. Since the last Annual Report, publications listed in the SCOPUS Database have increased considerably pushing up the total number of publications to 2,907, the ‘h index’ to 53, with 16,276 citations, as on 25-6-2023.

As on 25-6-2023, 130 patent applications have been filed, of which so far 14 patents have been granted, 30 applications have been examined, 48 applications were published and the remaining 38 are in process.

As on date 51 students and faculty members have registered for 88 SWAYAM and NPTEL courses.

Funded research projects to the tune of Rs. 91.15 lakhs are in operation. The teaching-learning process is supplemented by intensive research.

The Ph.D. Programme of NICHE is offered in strict compliance with the UGC Regulations. In total 515 scholars are currently pursuing their research work under 114 guides.

Two scholars are recipients of the DST-INSPIRE fellowship and One scholar has received Savitribai Jyotirao Phule Fellowship for Single Girl Child (SJPSGC). Other eligible full-time scholars are paid monthly stipends by NICHE.

Dr.G.M. Joselin Herbert obtained permanent membership in IAAC (Member number FRTJQC – CE000923).

The Faculty of Management Studies (FMS) has attained the Top 148<sup>th</sup> Position amongst the more than 5000 B-Schools of India during the academic year 2022-23

Three faculty members have been awarded patents for their innovative work as below.

1. Dr. D.M. Mary Synthia Regis Prabha, Associate Professor, EEE for Solar Powered Oxygen Level Altering Device awarded on 21-9-2022
2. Dr. A. Shajin Nargunam, Pro-Vice-Chancellor (Academic) for Trusted Computing Based Security Architecture For Mobile Cloud Computing awarded on 23-2-2023
3. Dr. M. Mary Synthuja Jain Preetha, Associate Professor, ECE for Portable Solar Tree awarded on 9-3-2023

For the academic year 2023-2024 NICHE has been included as one of the eligible universities for Common University Entrance Test (UG) 2023.

The award letter of Savitribai Jyotirao Phule Single Girl Child Fellowship (SJS GC) 2022-23 to Ms.Roopa R Kumar carrying the fellowship amount of JRF @ Rs.31,000/- p.m. for initial two years and SRF @ Rs.35,000/- p.m. for remaining tenure, was handed over by our Honourable Pro-Chancellor Mr.M.S. Faizal Khan on 28-2-2023.

The inspire fellowship amount of Rs. 3,91,690/- for 11 months awarded to Ms.A. Krishnendu as a cheque was handed over to her by our honourable Pro-Chancellor Mr.M.S. Faizal Khan on 28-2-2023.

NICHE hosted NCC camp from 13-7-2022 to 22-7-2022.

On 15-7-2022 Education Development Day was celebrated in CSE smart class room on the eve of Former Chief Minister Sri K Kamaraj's Birthday.

On 19-7-2022 Dr. APJ Abdul Kalam award presentation ceremony was held at NIMS Medicity in which 61 NICHE faculty members were awarded outstanding achievement award.

NAAC Second Cycle Peer Team visit was conducted on 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup> of August 2022. NAAC has accredited NICHE in the second cycle also.

On 11<sup>th</sup> August 2022 the Vice-Chancellor administered the pledge “say yes to life and no to drugs”, to our students.

On 1<sup>st</sup> and 2<sup>nd</sup> September 2022, Faculty of Management Studies conducted Marketing Festival (ASPIRA V.2)

From 14<sup>th</sup> September 2022 to 16<sup>th</sup> September 2022 Civil Engineering Department students visited Industries in Coimbatore and Ooty.

On 16<sup>th</sup> September 2022 Electronics and Communication Department students visited Kudankulam Nuclear power project.

Automobile Engineering Department conducted one day International Workshop titled “*Development of Pineapple Leaf Fibre Reinforced Green Composites*” on 16<sup>th</sup> Aug 2022.

On 22<sup>nd</sup> September 2022, Federal Association of Mechanical Engineering (FAME-2k22) was inaugurated.

On 27<sup>th</sup> September 2022, First year UG/PG classes inauguration ceremony was held in the Hill top Auditorium.

The Department of Information Technology in association with IQAC organized a National level workshop on “The Power of Open Source Technologies” on 19<sup>th</sup> of October 2022.

On 20<sup>th</sup> October 2022, “Awareness Workshop on Intellectual Property Rights and IP Management” was organized by the Department of Civil Engineering in collaboration with Institution’s Innovation Council

On 21<sup>st</sup> October 2022, Fire Technology and Safety Engineering Department’s 3<sup>rd</sup> National Level Technical Symposium was conducted in the A.C. Auditorium.

On 27<sup>th</sup>, 28<sup>th</sup> and 29<sup>th</sup> October 2022, Mechanical Engineering Department students visited A.M. Steel Industry (p) Ltd.

On 31<sup>st</sup> October 2022, the Vice-Chancellor administered the National Unity Day Pledge on the eve of (Sardhar Vallabai Patel Birth Anniversary) in front of the University Building.

On 2<sup>nd</sup> November 2022, EEE Department students visited Industries in kothaiyar Power Plant.

On 3<sup>rd</sup> November 2022, Civil Engineering Department students visited Kudankulam Nuclear power project.

On 3<sup>rd</sup> November 2022 , Noorul Islam Educational Trust launched the NICHE STEVE JOBS SCHOLARSHIP scheme on the eve of the 34th Anniversary of the Department of CSE of NICHE, Out of 130 final year students who had applied for the same, 60 students were selected and awarded the scholarship by Shri. Kris Gopalakrishnan, Co-Founder of Infosys. NICHE will provide specialised training by experts to get them ready for employment and entrepreneurship.

National Level Technical Symposium VENTURA 2022 was organised by the department of Automobile Engineering on 9<sup>th</sup> and 10<sup>th</sup> Nov 2022. National Level Workshop on 3 D Printing was organised by the department of Automobile Engineering with technical support from CAD DESK, Nagercoil on 11<sup>th</sup> Nov 2022.

On 10<sup>th</sup> November 2022, The Biomedical Engineering Department organized a Blood Donation Camp in the campus

On 11<sup>th</sup> November 2022, First year students celebrated the National Education Day function which was held in the A.C. Auditorium

On 11<sup>th</sup> November 2022, In the Computer Science Department a Webinar was conducted in the Smart Class Room

NICHE Innovation Cell (Institution Innovation Cell) as part of the IIC-ATL Linkage initiative conducted the “ATL Tinkering Day” at Hindu Vidyalaya Matriculation Higher Secondary School, Marthandam on 14-11-2022.

20<sup>th</sup> November 2022, the 30<sup>th</sup> Convocation was conducted and Shri. Somanath S. Distinguished Scientist, Secretary, Department of Space & Chairman, Indian Space Research Organization Bangalore was the Chief Guest.

On 6<sup>th</sup> December 2022, Faculty of Management students Outbound Training was conducted in the MBA Department

On 6<sup>th</sup> December 2022, Women Empowerment Cell Programme was conducted in the A.C. Auditorium.

On 17<sup>th</sup> December 2022 NICHE Clubs were inaugurated and MOU Signing Ceremony was held.

On 19<sup>th</sup> December 2022, The Institution Innovation Cell's FDP Inaugural Function was conducted in the A.C. Auditorium.

On 21<sup>st</sup> December 2022, Allied Health Sciences Department's Cultural Event Programme was conducted.

On 22<sup>nd</sup> December 2022, Mathematics Department's National Mathematics Day Inaugural Function was conducted in the A.C. Auditorium.

On 22<sup>nd</sup> December 2022, the Department of Computer Applications organized a seminar on "Quantitative Aptitude".

On 4<sup>th</sup> January 2023, the School Connect Programme's Inaugural Function was conducted in the Hill Top A.C. Auditorium.

From 4<sup>th</sup> January 2023 to 10<sup>th</sup> January 2023, NCC Training Camp was conducted.

On 9<sup>th</sup> January 2023, Automobile Engineering Department's workshop was conducted in the Smart Class Room.

On 9<sup>th</sup> January 2023, Computer Science and Engineering Department's Institution Innovation Council Workshop was conducted in the Smart Class Room.

On 10<sup>th</sup> January 2023, NCC camp Valedictory function was conducted in the Hill Top Auditorium.

On 11<sup>th</sup> January 2023, Mechanical Engineering Department's National Level Technical Symposium "MECHOTRANIC 2023" was conducted in the A.C. Auditorium.

On 19<sup>th</sup> January 2023, EEE, ECE & EIE departments organized awareness programme in "Saving the Environment - Seashore" in Colachel Beach.

The Carmel Higher Secondary school, Nagercoil organised a Science Exhibition on 20th & 21st January 2023. On behalf of our university the dept. of Fire Technology and Safety Engineering students exhibited their Fabricated models in the Project Expo.

On 21<sup>st</sup> January 2023, Computer Application Department conducted a Quiz Competition.

On 24<sup>th</sup> January 2023, in the Women's Empowerment Cell, "National Girl Child Day" Celebration was conducted in the A.C. Auditorium.

On 25<sup>th</sup> January 2023, National Voters Day was celebrated in the Hill top auditorium by the Faculty of Management studies.

On 25<sup>th</sup> January 2023, Green Energy Club was started by the EEE and EIE Departments.

On 26<sup>th</sup> January 2023, Republic Day was celebrated and on the same day NSS organized a Medical Camp in collaboration with the NIMS Medicity.

On 27<sup>th</sup> January 2023, Aeronautical Engineering Department organized a workshop on how to make UAV flying models and the MCA department organized a Seminar.

On 30<sup>th</sup> January 2023, the Department of CSE organized a seminar on “Machine Learning” for the benefit of UG students of Computer Science and Engineering, and Artificial Intelligence & Data Science.

To motivate the school going children in villages who are weak in Mathematics the Department of Mathematics conducted the Mathematics Literacy Program on 31.01.2023 at Govt. Primary School, Muttaicadu and S.K.V. Middle School, Muttaicadu.

On 31<sup>th</sup> January 2023, Fire technology and safety Engineering Department in collaboration with the local Police authorities organized a safety awareness programme.

47<sup>th</sup> Indian Coast Guard Day was celebrated by the Department of Computer Applications at Kanyakumari on 01.02.2023.

On 3<sup>rd</sup> February, 2023, Civil Engineering department organized an Awareness program on “*World Cancer Day*”

Sixteen Students from B. TECH Fire Technology and Safety Engineering successfully completed “Basic Fire Fighting Course” from 7<sup>th</sup> to 9<sup>th</sup> February 2023.

On 10<sup>th</sup> and 11<sup>th</sup> February 2023, Institution innovation council conducted a workshop on “Design thinking”.

On 15<sup>th</sup> February 2023, adventures club was inaugurated and adventures fest was conducted in collaboration with the Academy for Mountaineering and Adventure sports.

On 16<sup>th</sup> February 2023, a workshop was organised by the Institution innovation council on Entrepreneurship Development for the Outgoing Students.

On 16<sup>th</sup> and 17<sup>th</sup> February 2023, Maths Fest and Quiz Programmes were conducted.

On 17<sup>th</sup> February 2023, Entrepreneurship Skill Development Programme was organised by the Civil Engineering Department. Mr. Anand Srinivasan economic expert was the resource person.

Electronics and Instrumentation Engineering Department organised a seminar on Road to Gate Exam on 17-2-2023.

On 22<sup>nd</sup> and 23<sup>rd</sup> February 2023, a workshop on Implementing Integrating Embedded system applications was organized by the ECE Department.

On 23<sup>rd</sup> February 2023, a debate was organized by the FMS on Experimental Learning Vs Class Room Learning in collaboration with Mathimugam Television.

On 23<sup>rd</sup> February 2023, Mechanical Engineering Department conducted a workshop on Robotics and 3D Printing

On 24<sup>rd</sup> February 2023, MCA Department organized a Training Programme on Agile Methodology and Web Application Development.

On 27<sup>th</sup> February 2023, Physics Department organized a state level cultural fest.

On 28<sup>th</sup> February 2023, “Enter Samrambham” honoured our Placement Officer Dr. K. Siva Sankar and Additional Placement Officer Dr. B. Stanly Jones Ratnam in a summit held in Thiruvananthapuram for having secured 140 placements in 120 days.

On 28<sup>th</sup> February 2023, Physics Department celebrated National Science Day.

On 2<sup>nd</sup> March 2023, a workshop was conducted on Yoga and its importance, by the BME and Physical Education Department.

On 3<sup>rd</sup> March 2023, Aerospace and AME Departments organized a seminar on technological development and safety features in New generation Passenger Aircraft.

The AME department organized a one day seminar, Aircraft Infographics on 3<sup>rd</sup> March 2023.

On 3<sup>rd</sup> March 2023, BASLP of the AHS department organized the “World Hearing Day” function.

On 6<sup>th</sup> March 2023, a workshop was organized by the Fire Technology and Safety Engineering Department on Emergency Life support.

On 8<sup>th</sup> March 2023, Women Empowerment Cell celebrated Women’s day function.

On 9<sup>th</sup> March 2023, Physics Department organized a National Conference on Material Science and Green Technology sponsored by the CSIR.

On 9<sup>th</sup> and 10<sup>th</sup> March 2023, Nano-technology department organized a workshop on Micro Biology.

The Department of Mathematics, organised a Professional Development Programme on Application of Mathematics in Medical Diagnosis for the staff and students of the department on 10<sup>th</sup> March 2023.

On 15<sup>th</sup> March 2023, the Physics department and NSS organized a Blood donation camp.

On 24<sup>th</sup> March 2023, a hands on workshop was organised in cyber forensics by the Allied Health Sciences Department.

The Department of Nano-Technology organised a One Day workshop on Cyber Forensics on 24<sup>th</sup> March 2023.

On 25<sup>th</sup> March 2023, Institution Innovation Council organized “Smart Minds” Hakathan.

On 28<sup>th</sup> March 2023, Information Technology department conducted a seminar on National Education Policy 2020.

On 29<sup>th</sup> March 2023, National Technical symposium ALTIUS 2K23 was conducted by the Electronics and Communication Engineering Department.

On 29<sup>th</sup> March 2023, the English department conducted the Literary Association Day with Inter Collegiate Competitions.

On 29<sup>th</sup> and 30<sup>th</sup> March, the Biomedical Engineering department conducted a workshop on Internet of Things in Bio Medical Applications.

Tamil Nadu State Council For Science And Technology has granted Rs. 25,000 for establishing IPR Cell.

Allied Health Sciences Department celebrated the World Heart Day, Mental Health Day, National Legal Service day, Vigilance Awareness Week, World Immunization Day, World Braille Day, National Education Day, International Social Justice Day, World Cancer Day, National Youth Day, World Hearing Day, National Science Day, World Kidney Day and International Women’s Day.

An amount Rs.3,00,000 (Three lakhs) has been received for STP consultancy by the EEE department.

Dr M.Murugan received International Scientist Award from the International Research Association, England, United kingdom.

Dr. J. Joseph got selected for evaluating ideas in the SMART INDIA HACKTHON 2022 conducted by the MHRD & AICTE, Govt of India.

Mr. Mohammed Rashid, S6 ECE student has won the Silver Medal in the body building competition conducted by the Trivandrum District Body Building Association under 70 kg category for the year 2023 on 28<sup>th</sup> February 2023.

Students from Allied Health Sciences, Aruna, Navya, Nourin, of II Year B.Sc Cardiac Care Technology and Lekshmi Nandhana, Shilpa, Jenishma, Ardhra of II year B.Sc Renal Dialysis Technology won first prize in the district level Yuva Utsav-India@2047 organized by the Nehru Yuva Kendra Sangathan, Ministry of Youth Affairs and Sports, Govt of India.

Padmashri P.Gopinathan Nair Civil Services Academy was inaugurated on 3-4-2023 by the formerly UPSE Member and Vice Chancellor of Anna University Dr.E. Balagurusamy

Students of Computer Science and Engineering have participated in various events and won prizes. Ms. Sneha Pradeep of S4 M.E CSE has won the Best Paper Award for her paper "Cascade of MobileNetV2 for Iris Liveness Detection" presented in the International Conference on Smart Engineering for Renewable Energy Technologies-2023 (ICSERET-2023) organized by the Department of Electrical and Electronics Engineering, Ramco Institute of Technology, Rajapalayam on 24<sup>th</sup> and 25<sup>th</sup> March 2023.

The CSE Department organized a National conference on "Innovative Research in Advanced Computing" (NCIRAC'23) on 11<sup>th</sup> April, 2023 and another International Conference on "Emerging Technologies in Engineering and Applied Sciences" (ICETEAS - 2023) on 12<sup>th</sup> & 13<sup>th</sup> April 2023.

The Placement and Training Cell conducted a seminar on "Opportunities in Indian Armed Forces" at the Hill Top Auditorium on 12<sup>th</sup> April 2023.

On 18<sup>th</sup> April a one day Symposium "VIMAANZ UTSAV 2023" was organized by the AME Department.

Department of Allied Health Sciences in association with IIC, NICHE organised a program on "World Creativity and Innovation Day" on 20<sup>th</sup> April, 2023.

An International Seminar on "Spacecraft Autonomy" was conducted at the Hill-Top Auditorium on 20<sup>th</sup> April 2023 by the Departments of Aeronautical Engineering, Aerospace Engineering, and Aircraft Maintenance Engineering. Dr.P. Krishna Dev Kumar, Professor of Space Systems Engineering, Director of Artificial Intelligence for Aerospace Systems (AIAS) Laboratory, and Department of Aerospace Engineering from the Toronto Metropolitan University, Canada, was the Chief Guest of the event.

An International Conference on "Recent Advances in Engineering and Technology" (ICRAET-2K23) was conducted on 20<sup>th</sup> April 2023.

Gandhi Peace Club and NSS with UBA of NICHE jointly organized a field visit to Gandhi Memorial, Kanyakumari, on 20<sup>th</sup> April 2023.

The Department of Civil Engineering conducted a National Conference on "Innovative and Emerging Technologies in Engineering" at the AC Auditorium on 24<sup>th</sup> April 2023.

The Department of Mathematics conducted an International Conference on "Emerging Trends in Mathematical Sciences and Applications" on 26<sup>th</sup> April 2023.

The EIE department organised an International Conference on “Control Instrumentation, Communication, and Computational Technologies” on 27<sup>th</sup> April 2023 and 28-04-2023. Dr.Branesh Madhavan Pillai, Research Professor from Mahidol University, Thailand, was the Chief Guest.

On 28<sup>th</sup> April 2023, NICHE got recognized as an Elite Enabler by AIC RAISE, a mission driven organization that supports startups building technology to solve social and environmental issues.

NICHE was selected as the nodal centre for the Smart Minds hackathon organised for college students. Dr.R.S. Rimal Isaac received the award on behalf of NICHE during the ceremony.

Dr.Aneesh Nair, Assistant Professor of the Department of AHS has received a grant of Rs. 7.84 lakhs from the Chief Conservator for Forests, Chennai, for his project on “Integrated Rhizosphere Microbiomics and phytopharmacology based fingerprinting approach towards mangrove conservation in Tamil Nadu”.

Dr.M. Murugan got an Indian Patent granted for his “Smart Food Feeder for Stroke/Coma/Elderly Bedridden Patients”. Dr.Murugan has also received an International patent for his “IOT based wearable medical monitoring system”.

A patent for “Structural Behaviour of Reinforced Concrete Beam containing Nano silica” has been filed by Dr.Roselin and Dr.Stalin Jose of the Department of Civil Engineering.

Dr.J. Joseph of was granted one Indian Design patent related to water purification system and to his credit two patents have been published.

Dr.Anitha of the CSE Department received “Outstanding Faculty Award” from R.K. Foundation, R.K. Publishers, Vellore, on 30<sup>th</sup> April 2023.

The Department of Marine Engineering conducted a National level technical Symposium HORIZON 2K23 on 02<sup>nd</sup> May 2023 at the AC Auditorium. Captain. P. Bennet Singh, Pilot, VOC Port Authority, Tuticorin, was the chief Guest.

The Departments of Automobile Engineering and Fire Technology & Safety Engineering organized an International Conference on “Emerging Trends in Technology and Sciences” (2K23) on the 3<sup>rd</sup> and 4<sup>th</sup> of May 2023. Mr. Nzeyimana Bahati Shaban from Rwanda was the chief guest.

An International Conference on “Networking and Computer Applications” (ICNCA’23) was organized by the Department of Computer Applications on 5<sup>th</sup> May 2023.

The Department of Chemistry hosted an International Seminar on “Science and Technologies for Sustainable Development” at the CSE Smart Classroom on 10<sup>th</sup> May 2023. Dr.Ponnudurai Ramasami, Professor and Head, Dept of Chemistry, University of Mauritius, delivered a lecture on “Computational chemistry for drug design and discovery”.

On 18<sup>th</sup> May 2023, the Board of Research, Development, and Consultancy & the Research Development Cell hosted a one-day workshop on "Research Proposal Writing: Strategies to Secure Research Grants."

The BRDC then organized a two-day workshop on "Art of Writing and Publishing Research Papers in Scholarly Journals" on 19<sup>th</sup> and 20<sup>th</sup> May 2023.

The BRDC also organized a Two Weeks Workshop on “Research Methodology, Publication, and Ethics for Ph.D. Scholars” from 22<sup>nd</sup> May to 03<sup>rd</sup> June 2023.

An awareness program on gender sensitization was conducted by the Internal Complaints Committee on 23<sup>rd</sup> May 2023.

The NCC Annual Training Camp was conducted by the 11 TN BN NCC, of Nagercoil, at NICHE from 26<sup>th</sup> May 2023 to 02<sup>nd</sup> June 2023. The camp commandant Col. C.P. Unnikrishnan, inaugurated the camp and inspired the cadets through his opening address.

The Department of Mechanical Engineering was awarded three patents. The faculty members have published 5 SCI - indexed papers and 4 Scopus - indexed papers.

Mr.K. Satheesh Babu of the Department of Marine Engineering has successfully completed the Vertical Integration Course for Trainers (VICT) conducted during 15<sup>th</sup> May 2023 to 25<sup>th</sup> May 2023 in the Naval Maritime Academy West, at Mumbai.

A Gender Sensitization program was conducted on 23<sup>rd</sup> May 2023 by the Internal Complaints Committee. Advocate Ms.Susheeladevi from Nagercoil District Court, was the resource person.

Dr.J.P. Jayan, Dr.S. Jerine, Dr.R.I. Heaven Rose, and Dr.V. Alan Gowri Phivin, of Software Engineering Department have filed a Patent for “IoT based Food Processing Techniques.”

The World Environment Day was celebrated at NICHE on 05<sup>th</sup> June, 2023. Mr.M.S. Faizal Khan, Pro Chancellor of NICHE, graced the occasion with his esteemed presence. Mrs. Shabnam Shafeek, Managing Trustee of NICHE, also joined the event, and the both dignitaries planted tree saplings on that day.

NICHE Unnat Bharat Abhiyan and the NSS successfully organized a medical camp on 14<sup>th</sup> June 2023, at the e-seva Building, Karavilai, near Kumaracoil. 122 persons from the public availed the opportunity and got benefitted.

International yoga day was celebrated in a grand manner on 21-6-23

Every month one MoU signing ceremony is held and under the able guidance and direction of our Honourable Pro-Chancellor Mr. M.S. Faizal Khan so far 42 companies, including the CSIR - National Institute for Interdisciplinary Science & Technology (CSIR-NIIST), have signed MoUs with NICHE.

NICHE continues to evolve, with a strong emphasis on research, development, and global collaborations. The institution's achievements extend to hosting workshops, conferences, and symposiums, fostering innovation, and maintaining a strong focus on social and environmental responsibility. These efforts, coupled with an unwavering commitment to academic excellence, position NICHE as a dynamic and forward-thinking educational institution in the academic year 2022-2023.

## **AUTHORITIES OF NICHE**

### **Board of Management**

1. Dr.A.K. Kumaraguru  
Vice-Chancellor
2. Dr.R.Perumalsamy,(Special invitee)  
Pro-Chancellor (Academic)
3. Dr. Salim Shafeek,  
Leicester Shire,M.M. Road, Calicut.
4. Dr.K.A. Janardhanan,  
Rohini, 11/42A  
Ariyambacode  
Kulasekaram – 629 161

5. Dr. A. Shajin Nargunam,  
Dean, Faculty of Information on Computer Engineering,  
NICHE,  
Kumaracoil – 629 180.
6. Dr.R.C. Mehta,  
Dean-Faculty Of Aeronautical And Space Technology,  
NICHE,  
Kumaracoil – 629 180.
7. Prof. (Dr) M.K.C. Nair,  
Director, NIMS – SPECTRUM-CDRC,  
NIMS Medicity,  
Aralumoodu,  
Neyyattinkara,  
Thiruvananthapuram
8. Dr.T. Tamizh chelvam,  
Professor, Department of Mathematics,  
Manonmaniam Sundaranar University, Tirunelveli – 627 012.
9. Dr.N. Jawahar,  
Professor and HOD,  
Department of Mechanical Engineering,  
Thiagarajar College of Engineering, Madurai – 625 015.
10. Dr.C. Samudhra Rajakumar,  
Professor and HOD,  
Department of Business Administration,  
Annamalai University, Annamalai Nagar - 608 002.
11. Dr. B. Ramamoorthy  
Advisor (Academic)  
PSG Institutions,  
Coimbatore – 641 004.
12. Dr. M. Immaculate Mary,  
Professor & HoD,  
Department of Mathematics,  
NICHE
13. Dr.S. John Leon,  
Associate Professor & Head,  
Department of Marine Engineering,  
NICHE
14. Dr.P. Thirumalvalavan,  
Ex-Officio Secretary

Registrar, NICHE.

15. Dr.M.K. Jeya Kumar  
COE, Special Invitee,  
NICHE

### Academic Council

From : 17-8-2021

To : 16-8-2023

VC's Note order dated : 17-8-2021

| S.No. | Category                  | Name / Address                                                                                                                                  |
|-------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | Vice-Chancellor           | Dr.A.K. Kumaraguru                                                                                                                              |
| 2     | Dean(s) of Faculties (11) | <b>Dean-Faculty of Management Studies</b><br>Dr.K.A. Janardhanan, Pro Vice-Chancellor (Administration)                                          |
|       |                           | <b>Dean-Faculty of Information and Computer Engineering /Director Academic Affairs</b><br>Dr.A. Shajin Nargunam, Pro Vice-Chancellor (Academic) |
|       |                           | <b>Dean-Faculty of Computer Science</b><br>Dr. M.K. Jeya Kumar                                                                                  |
|       |                           | <b>Dean-Faculty of Aeronautical and Space Technology</b><br>Dr.R.C. Mehta                                                                       |
|       |                           | <b>Dean-Faculty of Civil Engineering</b><br>Dr. V. Narayanan Nair                                                                               |
|       |                           | <b>Dean-Faculty of Mechanical Engineering/Director Research</b><br>Dr. M. Dev Anand                                                             |
|       |                           | <b>Dean-Faculty of Science and Humanities/ Dean Faculty of AHS</b><br>Dr.B. Bindhu                                                              |
|       |                           | <b>Dean-Faculty of Electrical &amp; Electronics Engineering.</b><br>Dr.R.S. Vinod Kumar                                                         |
|       |                           | <b>Dean-Faculty of Technology</b><br>Dr. M. Murugan                                                                                             |
|       |                           | <b>Dean, Faculty of Marine</b><br>Dr. S. John Leon                                                                                              |
|       |                           | <b>Dean Faculty of AHS</b><br>Dr. M. Sankaranarayana Pillai                                                                                     |
| 3     | HoDs                      | <b>1. Aeronautical Engineering</b><br>Dr. T Annil Kumar                                                                                         |

| S.No. | Category | Name / Address                                                                    |
|-------|----------|-----------------------------------------------------------------------------------|
|       |          | <b>2. Aerospace Engineering</b><br>Mr. J. SajiSoundara Raj                        |
|       |          | <b>3. Aircraft Maintenance Engineering</b><br>Mr.S. Hari Kumar                    |
|       |          | <b>4. Biomedical Engineering</b><br>Dr.M.Murugan                                  |
|       |          | <b>5. Automobile Engineering</b><br>Dr. J. Edwin Raja Dhas                        |
|       |          | <b>6. Allied Health Sciences</b><br>Dr.G. Arockia Selva Saroja                    |
|       |          | <b>7. Chemistry</b><br>Dr.J. Joseph                                               |
|       |          | <b>8. Civil Engineering</b><br>Dr.N. Stalin Jose                                  |
|       |          | <b>9. Computer Applications</b><br>Dr. J.R. Jeba                                  |
|       |          | <b>10. Computer Science Engineering</b><br>Dr. V. G. Ranjith                      |
|       |          | <b>11. Electronics Communication Engineering</b><br>Dr. T. Gopalakrishnan         |
|       |          | <b>12. Electrical and Electronics Engineering</b><br>Dr.J. Arul Linsely           |
|       |          | <b>13. Electronics and Instrumentation Engineering</b><br>Dr. S.S. Kumar          |
|       |          | <b>14. English</b><br>Mr. A. KhaleelRahuman                                       |
|       |          | <b>15. Fire Technology &amp; Safety Engineering</b><br>Mr.I.JamesDinakar Williams |
|       |          | <b>16. Information Technology</b><br>Dr. R. MathuSoothana S. Kumar                |
|       |          | <b>17. Marine Engineering</b><br>Dr. S. John Leon                                 |
|       |          | <b>18. Mathematics</b><br>Dr. M. Immaculate Mary                                  |
|       |          | <b>19. Management Studies</b><br>Dr. D. Kinslin                                   |
|       |          | <b>20. Mechanical Engineering</b>                                                 |

| S.No. | Category                  | Name / Address                                                                                                        |
|-------|---------------------------|-----------------------------------------------------------------------------------------------------------------------|
|       |                           | Dr.R. Rajesh                                                                                                          |
|       |                           | <b>21. Nano Tech</b><br>Dr. P.K. Praseetha                                                                            |
|       |                           | <b>22. Physics</b><br>Dr. B. Bindhu                                                                                   |
|       |                           | <b>23. Software Engineering</b><br>Dr. J.P. Jayan                                                                     |
| 4     | Professor (10)            | 1. Dr. G.M. Joselin Herbert<br>Professor, Dept. of Mechanical Engineering                                             |
|       |                           | 2. Dr. P.B. Sarasija<br>Professor, Dept. of Mathematics                                                               |
|       |                           | 3. Prof. A.R.S. Iyer<br>Professor, Dept of Information Technology                                                     |
|       |                           | 4. Dr. P. Sujatha Therese<br>Professor, Department of Electrical and Electronics Engineering                          |
|       |                           | 5. Mr. Vijayan Pillai S<br>Department of Marine Engineering                                                           |
|       |                           | 6. Dr. Balamurugan S<br>Professor, Department of Nanotechnology                                                       |
|       |                           | 7. Dr. Joseph J<br>Professor, Department of Chemistry                                                                 |
|       |                           | 8. Dr.D. Kinslin<br>Professor,<br>Faculty of Management Studies                                                       |
|       |                           | 9. Dr.R. Subramania Pillai<br>Professor,<br>Department of English                                                     |
| 5     | Associate Professor (two) | Dr. N. Ramaswamy<br>Associate Professor, Dept. of Mechanical Engineering<br><br>Dr. J. Charles<br>Associate Professor |
| 6     | Assistant Professor (two) | 1. Dr. J. Benita,<br>Department of AME                                                                                |
|       |                           | 2.                                                                                                                    |

| S.No. | Category                                  | Name / Address                                                                                    |
|-------|-------------------------------------------|---------------------------------------------------------------------------------------------------|
| 7     | Educationists (three)                     | 1. Dr. Paulose Jacob<br>Dean, Faculty of Engineering, Cochin University                           |
|       |                                           | 2. Mr. T. Elangovan<br>Former Director, NCTPR, Trivandrum                                         |
|       |                                           | 3. Dr. G.L. Valsala<br>Rtd. Principal, Government Engineering College, Sreekrishnapuram, Palakkad |
| 8     | Non-Teacher Experts (co opted)<br>(three) | 4. Rear Admiral B.R. Menon<br>Chairman, Kerala Shipping and Island Navigation Corp.Ltd, Cochin    |
|       |                                           | 5. Dr. S. Venkataraman<br>Behavioural Catalyst & CEO Coach TVS Groups                             |
|       |                                           | 6. Mr. R.Narayanan<br>Former Vice President, TCS                                                  |
| 9     | Member Secretary                          | Dr.P. Thirumalvalavan<br>Registrar                                                                |
| 10    | Permanent Invitee                         | Controller of Examinations i/c.<br>COE Dr. M. K. Jeyakumar                                        |
| 11    | Special Invitees<br>( if any)             | 1. Dr. Velmurugan Vadivel<br>Principal,<br>Sree Sakthi Engg. College,<br>Coimbatore               |
|       |                                           | 2. Director IQAC, Dr.J.P. Jayan                                                                   |
|       |                                           | 3. Deputy Director – Academic Affairs<br>Dr. P.V. Samuel Blessed Nayagam                          |

#### Finance Committee

| Sl. No. | Name                                                       | Designation        |
|---------|------------------------------------------------------------|--------------------|
| 1       | Dr.A. K. Kumaraguru,<br>Vice-Chancellor, NICHE.            | Chairman           |
| 2       | Dr.R. Perumalsamy<br>Pro-Chancellor (Academic)             | Special Invitee    |
| 3       | Dr.K.A.Janardhanan<br>Pro Vice-Chancellor, Administration) | Ex. Officio Member |
| 4       | Dr.A. Shajin Nargunam<br>Pro Vice-Chancellor (Academic)    | Ex. Officio Member |
| 5       | Dr. P. Thirumalvalavan,<br>Registrar.                      | Special Invitee    |
| 6.      | Dr.G. Ramadas,<br>PRO                                      | Member             |
| 7       | Mr. S.I. Sreenivas,<br>Accountant                          | Member             |
| 8       | Mr. S. Ganesan,<br>Finance Officer                         | Secretary          |

## Planning & Monitoring Board Members

| Sl.No. | Names                                                                                                                                                                              | Category                 |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| 1.     | <b>Dr.A.K. Kumaraguru</b> ,<br>Vice-Chancellor, NICHE.                                                                                                                             | Ex Officio Chairman      |
| 2.     | <b>Dr.M.S. Faizal Khan</b> ,<br>Pro-Chancellor, NICHE.                                                                                                                             | Internal Member          |
| 3.     | <b>Dr.R. Perumalsamy</b> ,<br>Pro-Chancellor (Academic), NICHE.                                                                                                                    | Internal Member          |
| 5.     | <b>Dr.K.A.Janardhanan</b> ,<br>Pro Vice-Chancellor (Administration)<br>NICHE.                                                                                                      | Internal Member          |
| 6.     | <b>Dr.A. Shajin Nargunam</b> ,<br>Pro Vice-Chancellor (Academic), NICHE.                                                                                                           | Internal Member          |
| 7      | <b>Mr.T.P. Sreenivasan</b> ,<br>Former Higher Education Secretary,<br>Govt. of Kerala                                                                                              | Outside Expert<br>Member |
| 8.     | <b>Mr. Dinesh Krishnan</b> ,<br>Senior HR Consultant,<br>Committee Member /NGOs,<br>½ - 41 E, Rukmoni's,<br>Near EB Substation, Parvathipuram,<br>Nagercoil – 629 003              | Outside Expert<br>Member |
| 9.     | <b>Prof. (Dr) M.K.C. Nair</b> ,<br>(Former Vice-Chancellor, KUHS, Thrissur)<br>Director, NIMS – SPECTRUM-CDRC,<br>NIMS Medicity, Aralumoodu,<br>Neyyattinkara, Thiruvananthapuram. | Outside Expert<br>Member |
| 10.    | <b>Dr.P. Thirumalvalavan</b> ,<br>Registrar, NICHE.                                                                                                                                | Ex Officio Secretary     |

## BOARD OF RESEARCH, DEVELOPMENT & CONSULTANCY (BRDC)

| Sl. No. | Name of the Members                                                                   | Designation |
|---------|---------------------------------------------------------------------------------------|-------------|
| 1.      | <b>Dr. A. K. Kumaraguru</b> ,<br>Vice-Chancellor, NICHE.                              | Chairman    |
| 2.      | <b>Dr. K. A. Janardhanan</b> ,<br>Dean, Faculty of Management Studies, NICHE.         | Member      |
| 3.      | <b>Dr. A. Shajin Nargunam</b> ,<br>Dean, Faculty of ICE, NICHE                        | Member      |
| 4.      | <b>Dr. M. K. Jeyakumar</b> ,<br>Dean, Faculty of Computer Science, NICHE.             | Member      |
| 5.      | <b>Dr. R.S. Vinod Kumar</b> ,<br>Dean, Faculty of EEE, NICHE.                         | Member      |
| 6.      | <b>Dr. M. Immaculate Mary</b> ,<br>Dean, Faculty of Humanities & Science, NICHE.      | Member      |
| 7.      | <b>Dr. M. Murugan</b> ,<br>Dean, Faculty of Technology, NICHE.                        | Member      |
| 8.      | <b>Dr. R.C. Mehta</b> ,<br>Dean, Faculty of Aeronautical and Space Technology, NICHE. | Member      |
| 9.      | <b>Dr. V. Narayanan Nair</b> ,                                                        | Member      |

|     |                                                                                                                                              |                     |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
|     | Dean, Faculty of Civil Engineering, NICHE.                                                                                                   |                     |
| 10. | <b>Dr. S. John Leon,</b><br>Dean, Faculty of Marine Engineering, NICHE.                                                                      | Member              |
| 11. | <b>Dr. M. Sankaranarayana Pillai,</b><br>Dean, Faculty of Allied Health and Sciences, NICHE.                                                 | Member              |
| 12. | <b>Padma Shri. Dr. N. Vedachalam,</b><br>Distinguished Professor, Director-LPSC (Rtd.), VSSC, Trivandrum.                                    | Member              |
| 13. | <b>Dr. N. Periasamy,</b><br>Professor, School of Chemistry, University of Hyderabad, Hyderabad.                                              | Member              |
| 14. | <b>Dr. T. J. Pandian,</b><br>Emeritus Professor, School of Biological Sciences, M.K University, Madurai.                                     | Member              |
| 15. | <b>Dr. M. Lakshmanan,</b><br>Professor of Eminence & DST Ramanna Fellow,<br>Centre for Nonlinear Dynamics, Bharathidasan University, Trichy. | Member              |
| 16. | <b>Dr. A. Kannan,</b><br>Professor & Head, Department of Information Science & Technology,<br>Anna University, Chennai.                      | Member              |
| 17. | <b>Dr. T. J. Apren,</b><br>Head, R.F System and Development Division, VSSC, Thumba, Trivandrum<br>- 695002                                   | Member              |
| 18. | <b>Dr. M. Dev Anand,</b><br>Dean, Faculty of Mechanical Engineering,<br>Director - Research, NICHE.                                          | Member<br>Secretary |
| 19. | <b>Dr. R. Perumalsamy,</b><br>Pro Chancellor (Academic), NICHE                                                                               | Invitee             |
| 20. | <b>Dr. P. Thirumalvalavan,</b><br>Registrar, NICHE                                                                                           | Invitee             |

## BOARDS OF STUDIES

### Department of Aeronautical Engineering

1. Dr. T. Annil Kumar,  
Associate Professor,  
Department of Aeronautical Engg.
2. Dr. R. C. Mehta,  
Dean - Faculty of Aeronautical & Space Technology,  
Department of Aeronautical Engg.
3. Dr. R. R. Neela Rajan,  
Assistant Professor,  
Department of Aeronautical Engg.
4. Dr. V. Antony Vincent,  
Assistant Professor,  
Department of Aeronautical Engg.
5. Mr. A. Anu Kuttan,  
Assistant Professor, Department of Aeronautical Engg.
6. Mrs. S. Aneesha,

Assistant Professor,  
Department of Aeronautical Engg.

7. Dr. T. Jayachandran,  
Former Head – PRG (Propulsion and Research Group)  
VSSC PRA-63, Pottakuzhy,  
Trivandrum – 695 004.  
[c\\_jayachandran@iitm.ac.in](mailto:c_jayachandran@iitm.ac.in).  
[jayan22466@gmail.com](mailto:jayan22466@gmail.com)  
Mobile: 09847089482
8. Dr. J. Bruce Ralphin Rose,  
Associate Professor,  
Department of Aeronautical Engg.,  
Anna University, Regional Campus,  
Tirunelveli – 627 007.  
[bruce@auttl.ac.in](mailto:bruce@auttl.ac.in)  
Mob: 9786255311

### **Department of Aerospace Engineering**

1. Dr. J. Saji Soundara Raj,  
Associate Professor,  
Head In – charge, Aerospace Engg.
2. Dr. R. C. Mehta,  
Dean - Faculty of Aeronautical & Space Technology,  
NICHE.
3. Dr. T. Annil Kumar,  
HoD – Aero / NICHE.
4. Dr. S. Robin Divahar,  
ASP / Auto / NICHE.
5. Dr. B. Bindhu,  
HoD / Physics / NICHE.
6. Dr. S. S. Kumar,  
HoD / EIE / NICHE.
7. Dr. R. Rajesh,  
HoD / Mechanical / NICHE.
8. Dr. M. Immaculate Mary,  
HoD / Mathematics / NICHE.
9. Dr. L. M. Karthikeyan,  
AP / Aerospace / NICHE.
10. Dr. S. Swaminathan,  
Group Director (Retd.),

AFDG /Aero, VSSC,  
Trivandrum – 695 582.

11. Dr. Pankaj Priyadarshi,  
Adjunct Professor,  
Dept. of Aerospace Engg.,  
Indian Institute of Space Science and Technology (IIST),  
Valiamala, Trivandrum – 695 547.
12. Dr. Anderson,  
ASP / Aero / Sathyabama University,  
Chennai.

### **Department of Automobile Engineering**

1. Dr. J. Edwin Raja Dhas,  
Professor & HoD / Auto / NICHE.
2. Dr. M. Edwin Sahayaraj,  
ASP / Auto / NICHE.
3. Dr. S. Robin Diwahar,  
ASP / Auto / NICHE.
4. Dr. B. Stanly Jones Retnam,  
ASP / Auto / NICHE.
5. Dr. A. K. Darwins,  
AP / Auto / NICHE.
6. Dr. P. Arun Bose,  
Associate Professor, Dept. of Automobile Engg.,  
Kottayam Institute of Technology & Science,  
Chengalam East P.O.,  
Kottayam, Kerala – 686 585.
7. Shri. A. Arun Kumar,  
Manager Engine Systems,  
STELLANTIS Automobile Technical Centre,  
(Fiat Jeep CHRYSLER & Citrion)  
Automobiles India Private Ltd., RMZ Millenia Business Park,  
Campus 1-A, 4<sup>th</sup> and 5<sup>th</sup> Floor, #143 Dr. MGR Road,  
Kandanchavadi, Perungudi, Chennai – 600 096.

### **Department of Aircraft Maintenance Engineering**

1. Mr.S. Hari Kumar  
Assistant Profesor, AME
2. Dr.R.C. Mehta  
Dean, Faculty of Aeronautical & Space Technology, AME
3. Mr.T. Gopalakrishnan  
HoD, ECE

4. Dr.S.S. Kumar  
HoD, EIE
5. Dr.R. Rajesh  
HoD, Mechanical
6. Dr.J. Arul Linsely  
HoD, EEE
7. Dr.J. Saji Soundara Raj  
Associate Professor, Aero Space Engineering
8. Mr.T.K. Ratheesh  
Babu Chief Engineer & Aircraft Maintenance Manager,  
Rajeev Gandhi Academy for Aviation Technology,  
Trivandrum
9. Dr.S. Nalainalshan Nair,  
Accountable & Training Manager,  
HCAT/NICHE
10. Mr.M. Shreedharan Nair,  
QM/AME, NICHE
11. Dr.J. Benita,  
Assistant Professor, AME, NICHE

**Department of Allied Health Sciences**

1. Dr. M. Sankaranarayana Pillai,  
Dean, Dept. of Allied Health Sciences, NICHE.
2. Dr. G. Arockia Selva Saroja,  
ASP & HoD / AHS / NICHE.
3. Dr. J. Raja Bridha,  
AP / AHS / NICHE.
4. Dr. N. C. J. Packia Lekshmi,  
AP / AHS / NICHE.
5. Dr. K. Shabi Ruskin,  
AP / AHS / NICHE.
6. Dr. J. Munnudas,  
AP / AHS / NICHE.
7. Mrs. J. P. Janu,  
AP / AHS / NICHE.
8. Mrs. Vijaitha V. Soonan,  
AP / AHS / NICHE.

9. Mrs. Lydia Edwin,  
AP / AHS / NICHE.
10. Ms. Ragi,  
AP / AHS / NICHE.
11. Dr. Aneesh Nair,  
AP / AHS / NICHE.
12. Dr. Gokul Gopi,  
AP / AHS / NICHE.

#### **External Members – Forensic Science**

1. Dr. Annil Kumar,  
Assistant Professor,  
Department of Criminology and Forensic Science,  
Kamaraj College, Thoothukudi.
2. Dr. S. P. Sunil,  
Director – Operations,  
Alibi Global Pvt. Ltd.,  
Technopark, Trivandrum, Kerala.

#### **Human Genetics and Molecular Biology**

3. Dr. A. Vijaya Anand,  
Associate Professor & Head,  
Dept. of Human Genetics & Molecular Biology,  
Bharathiar University, Coimbatore.
4. Dr. T. Balasankar,  
Managing Director,  
Clinbiocare Technologies,  
8/2 G D Towers Nethaji Road, Ganesh Nagar,  
Velachery, Chennai.

#### **Audiology & Speech Language Pathology**

5. Ms. Lekha S. Nair,  
Assistant Professor,  
Department of BASLP,  
NISH, Trivandrum.
6. Aslin Gibiah . G,  
Audiology and Speech Language Pathologist,  
Kanyakumari Medical College,  
Asaripallam, Kanyakumari District.

#### **Cardia Care Technology, Perfusion Technology & Renal Dialysis Technology**

7. Dr. Madhu Sreedharan,  
Cardiology Specialist,  
NIMS Medicity, Aralumoodu,  
Trivandrum.
8. Dr. E. Asher Ennis Nayagam,  
Cardiothoracic Specialist,  
NIMS Medicity, Aralumoodu,  
Trivandrum.
9. Dr. Manju Thampi,  
Nephrology Specialist,  
NIMS Medicity, Aralumoodu,  
Trivandrum.

#### **Special Invitee**

10. Mrs. Josephine Vinitha,  
Vice Principal,  
NIMS College of Nursing,  
Aralumoodu, Trivandrum.
11. Dr. S. Padma Devi,  
Assistant Professor & Head,  
Noorul Islam College of Arts & Science,  
Kumaracoil.

#### **Biomedical Engineering**

1. Dr. M. Murugan,  
Dean & HoD / BME
2. Dr. S. Albert Jerome,  
ASP / BME
3. Dr. I. Sowmy,  
ASP / BME
4. Mrs. Lisha Daniel,  
AP / BME
5. Dr. Thirusakthimurugan,  
Professor, Pondicherry Engineering College,  
Pondicherry.
6. Mr. Arjun Kishore,  
Macura Medical Solutions,  
No: 255, A1 V. R. Puram Post,  
Near ITC, Chalakudy, Thrissur – 680 722.

#### **COMPUTER SCIENCE AND ENGINEERING**

1. Dr. V. G. Ranjith,  
AP & HoD / CSE / NICHE.

2. Dr. A. Shajin Nargunam,  
Pro Vice-Chancellor (Academics),  
Dean – Faculty of Information and Computer Engineering,  
NICHE.
3. Dr. J. E. Judith,  
ASP / CSE / NICHE.
4. Dr. A. Anitha,  
ASP / CSE / NICHE.
5. Dr. G. Venifa Mini,  
AP / CSE / NICHE.
6. Dr. R. S. Rajesh,  
Professor, Department of Computer Science & Engineering,  
Manonmaniam Sundaranar University,  
Tirunelveli – 627 012.
7. Mr. John Raja Singh,  
Lead II Software Engineering,  
UST Global Information Technology Parks Pvt. Ltd.,  
Tecknopark Phase2, Kulathoor Post,  
Trivandrum – 695 583.

## **COMPUTER APPLICATIONS**

1. Dr.J.R. Jeba,  
Associate Prof, HOD.
2. Dr.A. Shajin Nargunam,  
Dean- Faculty of Information &  
Communication Engineering.
3. Dr. M.K. Jeya Kumar,  
Dean- Faculty of Computer  
Science.
4. Prof. S. Beulah,  
Associate Professor, MCA.
5. Dr. A.C. Subhajini,  
Assistant Professor, MCA.
6. Ms. C.R. Sheela Kumari  
Assistant Professor, MCA
7. Ms. M. Merlin Johnsy  
Assistant Professor, MCA
8. Dr. S.P. Victor  
Associate Professor & HOD  
Department of Computer Science,  
Director of Research Centre,  
St. Xavier's College, (Autonomus)

Palayamkottai – 627 002.

9. Ms. Sindhu Vijayan  
Technical Lead,  
Allianz Technology PVT, Ltd.,  
Technopark Campus,  
Trivandrum

## **Chemistry**

1. Dr. M. Sankaranarayana Pillai,  
Professor / Dean / NICHE.
2. Dr. J. Joseph,  
Professor & HoD / NICHE.
3. Dr. T. M. Sharmila,  
ASP / Chemistry / NICHE.
4. Dr. E. H. Edinsha Gladis,  
AP / Chemistry / NICHE.
5. Dr. B. Bindhu,  
Dean, Science & Humanities / NICHE.
6. Dr. Vaithiyanathan,  
Professor, Dept. of Chemistry, S.T. Hindu College,  
Nagercoil.

## **Civil Engineering**

1. Dr. Y. Stalin Jose,  
ASP / HoD / NICHE.
2. Mr. D. Allwin,  
AP / Civil / NICHE.
3. Mrs. N. Alex Dorwina,  
AP / Civil / NICHE.
4. Mrs. B. Soniya,  
AP / Civil / NICHE.
5. Mr. S. Mathan Kumar,  
AP / Civil / NICHE.
6. Dr. R. Roselin,  
AP / Civil / NICHE.
7. Dr. P. Rajesh Prasanna,  
Professor, Department of Civil Engineering,

Anna University Regional Centre,  
Thiruchy.

8. Dr. M. Murugan,  
Assistant Professor,  
Department of Civil Engineering,  
Government College of Engineering,  
Tirunelveli.
9. Mr. C. Narendra Kumar,  
CNK Digital Land Survey @ Ideal Construction,  
93, Sarguna Veethi,  
Nagercoil – 629 002.

### **ELECTRICAL AND ELECTRONICS ENGINEERING**

1. Dr. J. Arul Linsely,  
ASP & HoD / EEE / NICHE
2. Dr. P. Sujatha Therese  
Prof. / EEE / NICHE
3. Dr. M. Mary Synthia Regis Prabha  
ASP / EEE / NICHE
4. Dr. S. Anitha Janet Mary  
ASP / EEE / NICHE
5. Dr. H. Vennila,  
ASP / EEE / NICHE
6. Dr. Tibbie Pon Symon  
AP / EEE / NICHE
7. Dr. V. S. Bindhu  
AP / EEE / NICHE
8. Dr. K. Muthuvel  
AP & 1<sup>st</sup> year Co-ordinator / EEE / NICHE
9. Dr. I. Jacob Raglend  
Professor, SELECT, VIT,  
Vellore.
10. Mr. P. Sylvester,  
Assistant Executive Engineer, MRT, TANGEDCO,  
Nagercoil.

### **ELECTRONICS AND COMMUNICATION ENGINEERING**

1. Dr. T. Gopalakrishnan

BoS Chairman & Head,  
Department of ECE,  
NICHE.

2. Dr. R. S. Vinod Kumar,  
Professor, Department of ECE,  
NICHE.
3. Dr. N. Santhi,  
Associate Professor,  
Department of ECE,  
NICHE.
4. Dr. S. Amala Shanthi,  
Associate Professor,  
Department of ECE,  
NICHE.
5. Dr. Mary Synthuja Jain Preetha,  
Associate Professor,  
Department of ECE, NICHE.
6. Dr. D. Shahi,  
Assistant Professor,  
Department of ECE,  
NICHE.
7. Dr. K. Hariharan,  
Professor, Dept. of ECE,  
Thiagarajar College of Engineering,  
Madurai.
8. Dr. C. Sudalaimani,  
Scientist E, Health Technology Group,  
CDAC, Trivandrum.

## **ELECTRONICS AND INSTRUMENTATION ENGINEERING**

1. Dr. S. S. Kumar,  
BOS Chairman, Associate Professor & Head,  
Department of EIE, NICHE.
2. Dr. R. S. Vinod Kumar,  
Professor & Dean,  
Faculty of EEE, NICHE.
3. Dr. V. Amsaveni,  
Associate Professor,  
Department of EIE, NICHE.
4. Dr. D. Menaka,  
Associate Professor,  
Department of EIE, NICHE.

5. Dr. R. Manju,  
Associate Professor,  
Department of EIE, NICHE.
6. Dr. R. Sarath,  
Associate Professor,  
Department of EIE, NICHE.
7. Dr. S. Felix Stephen,  
Assistant Professor,  
Department of EIE, NICHE.
8. Mrs. S. Binu Sathiya,  
Assistant Professor,  
Department of EIE, NICHE.
9. Dr. R. Rajesh,  
Associate Professor,  
Department of Mechanical Engineering, NICHE.
10. Dr. G. Glan Devadhas,  
Professor,  
Department of Electronics and Instrumentation Engineering,  
Vimal Jyothi Engineering College,  
Chemperi, Kannur District, Kerala.
11. Mr. V. Prasad Xavier,  
Group Manager,  
Bosch Global Software Technologies Private Ltd.,  
KGISL Infrastructures Private Limited.,  
Coimbatore – 641 035, Tamil Nadu.

## **FIRE TECHNOLOGY AND SAFETY ENGINEERING**

1. Mr. I. James Dhinakaran Williams,  
Associate Professor & Head,  
BOS Chairman, Department of FTSE, NICHE.
2. Dr. M. Dev Anand,  
Professor & Dean,  
Department of Mechanical Engineering, NICHE.
3. Dr. B. Bavanish,  
Associate Professor,  
Department of Fire Technology & Safety Engineering,  
NICHE.
4. Dr. R. Rajesh,  
Assistant Professor,  
Department of Fire Technology & Safety Engineering,  
NICHE.

5. Dr. S. Jenkins Hexley Dhas,  
Assistant Professor,  
Department of Fire Technology & Safety Engineering,  
NICHE.
6. Dr. N. Jawahar,  
Dean, R & D,  
PSNA College of Engineering & Technology,  
Dindigal.  
Former Dean, Research, Thiagarajar College of Engineering, Madurai.
7. Shri. S. Anandan,  
Engineering Incharge,  
Information Centre, NPCIL,  
Kudankulam.

## **INFORMATION TECHNOLOGY**

1. Dr. R. Mathusoothana S. Kumar,  
Chairman / BOS & HOD, IT Department,  
NICHE.
2. Dr. A. Shajin Nargunam,  
Dean, Faculty of Information & Computer Engineering,  
NICHE.
3. Prof. A. R. Subramoniya Iyer,  
Professor, Cyber Security,  
NICHE.
4. Dr. S. Maria Celestin Vigila,  
Associate Professor,  
Information Technology Department,  
NICHE.
5. Dr. T. Brindha,  
Associate Professor,  
Information Technology Department,  
NICHE.
6. Dr. Y. Jeyasheela,  
Associate Professor,  
Information Technology Department,  
NICHE.
7. Dr. M. B. Jayalekshmi,  
Assistant Professor,  
Information Technology Department,  
NICHE.

8. Dr. T. V. Sindia,  
Assistant Professor,  
Information Technology Department,  
NICHE.
9. Dr. P. Yogesh,  
Professor,  
Department of Information Science & Technology,  
Anna University, Chennai – 600 025.
10. Mr. C. Balan,  
Director, Centre for Development of Advanced Computing (C-DAC),  
Vellayambalam, Thiruvananthapuram – 695 033,  
Kerala State, India.

## **MANAGEMENT STUDIES**

1. Dr.M. Janarthanan Pillai  
HoD, MBA
2. Dr.K.A. Janardhanan  
Director, HRM
3. Prof. R. Gokula Chandran  
Assistant Professor, MBA
4. Dr.D. Kinslin  
Professor, MBA
5. Dr. R. Radhika,  
Associate Professor, MBA.
6. Dr.V.P.Velmurugan,  
Assistant Professor, MBA
7. Dr.M.C.Shibin Tad,  
Assistant Professor, MBA
8. Dr.C. Samudhrs Rajakumar,  
Professor, Department of Business Administration,  
Annamalai University,  
Chidambaram.
9. Dr.A.S. Manoj  
Head – Corporate Relations,  
ICT Academy of Kerala
10. Mr. Robin Tommy,  
Head, TCS Rapid Labs,

## **MARINE ENGINEERING**

1. Dr.S. John Leon,  
HoD, Marine Engineering,  
NICHE
2. Captain S. Vijayan Pillai  
Director, Marine Engineering,  
NICHE
3. Dr.K.S. Jai Aultrin  
Associate Professor, Marine Engineering,  
NICHE
4. Mr.S. Mohamed Ali,  
Assistant Professor, Marine Engineering,  
NICHE
5. Mr.M. Muniasamy,  
Assistant Professor, Marine Engineering,  
NICHE
6. Mr.A. Ramesh  
Assistant Professor, Marine Engineering,  
NICHE

## **MECHANICAL ENGINEERING**

1. Dr. R. Rajesh,  
BOS Chairman, Associate Professor & HoD,  
Department of Mechanical Engineering,  
NICHE.
2. Dr. M. Dev Anand,  
Dean & Director, Research,  
NICHE.
3. Dr. G. M. Joselin Herbert,  
Professor,  
Department of Mechanical Engineering,  
NICHE.
4. Dr. N. Ramasamy,  
Associate Professor,  
Department of Mechanical Engineering,  
NICHE.
5. Prof. S. Raja,  
Assistant Professor,  
Department of Mechanical Engineering,  
NICHE.
6. Dr. P. Jerold Jose,

Assistant Professor,  
Department of Mechanical Engineering,  
NICHE.

7. Dr. R. Ramesh Palappan,  
Assistant Professor,  
Department of Mechanical Engineering,  
NICHE.
8. Dr. A. Unni Krishnan,  
Assistant Professor,  
Department of Mechanical Engineering,  
NICHE.
9. Dr. T. Judson Durai,  
Assistant Professor,  
Department of Mechanical Engineering, NICHE.
10. Dr. N. Jawahar,  
Dean, R & D,  
PSNA College of Engineering & Technology,  
Dindigal.  
Former Dean, Research, Thiyagarajar College of Engineering, Madurai.
11. Dr. M. Herbert Raj,  
Lead Analyst, Lennox India Technology Centre,  
Unit No: 2, Zenith Building,  
5<sup>th</sup> Floor, Ascendes IT Park, Taramani Road,  
Chennai – 600 113.

## **SOFTWARE ENGINEERING**

1. Dr.J.P. Jayan  
HoD, Department of Software Engineering  
NICHE
2. Dr.M.K. Jeya Kumar  
Dean – School of Computer Science  
NICHE
3. Dr.J. Charles,  
Associate Professor, Department of Software Engineering and  
Director – Student Affairs, NICHE.
4. Dr.S. Jerine  
Associate Professor, Department of Software Engineering,  
NICHE.
5. Dr.R. I. Heaven Rose,  
Assistant Professor,  
Department of Software Engineering,

NICHE.

6. Dr.V. Alan Gowri Phivin  
Assistant Professor,  
Department of Software Engineering,  
NICHE.
7. Dr.R.S. Rajesh  
Professor  
Department of Computer Science and Engineering  
Manonmaniam Sundaranar University,  
Tirunelveli – 627 012.

## **NANO TECHNOLOGY**

1. Dr. P. K. Praseetha,  
Professor & HoD,  
Department of Nanotechnology,  
NICHE.
2. Dr. S. Balamurugan,  
Professor,  
Department of Nanotechnology,  
NICHE.
3. Dr. M. Prabhu,  
Assistant Professor,  
Department of Nanotechnology,  
NICHE.
4. Dr. T. K. Sreeja,  
Associate Professor,  
Department of Nanotechnology,  
NICHE.
5. Dr. M. Murugan,  
Dean, Faculty of Technology,  
NICHE.
6. Dr. K. Ravichandran,  
Professor, Head, Department of Physics,  
AVVM Sree Pushpam College, Poondi,  
Thanjavur, Tamil Nadu – 602 023.

## **ENGLISH**

1. Prof. A. Khaleel Rahuman,  
Chairman, Board of Studies,

HoD, Department of English,  
NICHE.

2. Dr. B. Bindhu,  
Dean, Science and Humanities,  
Head, Department of Physics,  
NICHE.
3. Dr. R. Subramania Pillai,  
Professor, Department of English,  
NICHE.
4. Dr. P. Deepa,  
Assistant Professor,  
Department of English, NICHE.
5. Dr. J. Sheila,  
Assistant Professor,  
Department of English,  
NICHE.
6. Dr. S. Chella Kumar Rose,  
{Professor of English & Former Principal,  
Scott Christian College – Autonomous, Nagercoil.
7. Dr. K. Balasubramanian,  
(Former Prof. of English, M. S. University,  
Tirunelveli, Tamil Nadu)  
Professor of English,  
V. V. College of Engineering, V.V. Nagar, Arasoor, Thisayanvilai (Via.),  
Sathankulam Taluk, Tuticorin District – 628 656.

## **MATHEMATICS**

1. Dr. M. Immaculate Mary,  
BOS Chairman, Professor & HoD,  
Department of Mathematics, NICHE.
2. Dr. B. Bindhu,  
Dean, Science and Humanities,  
Department of Physics, NICHE.
3. Dr. P. B. Sarasija,  
Professor,  
Department of Mathematics,  
NICHE.
4. Dr. T. M. Selvarajan,  
Associate Professor,  
Department of Mathematics,  
NICHE.

5. Dr. K. Umasamundesvari,  
Associate Professor,  
Department of Mathematics,  
NICHE.
6. Dr. P. Nageswari,  
Assistant Professor,  
Department of Mathematics,  
NICHE.
7. Dr. S. Kumaresan,  
Associate Professor,  
Department of Mathematics, NICHE.
8. Dr. K. Uma Devi,  
Assistant Professor,  
Department of Mathematics,  
NICHE.
9. Dr. D. Sheeba Singh,  
Assistant Professor,  
Department of Mathematics,  
NICHE.
10. Dr. M. Sudha,  
Assistant Professor,  
Department of Mathematics,  
NICHE.
11. Mr. G. Victor Jeyachandra,  
Assistant Professor,  
Department of Mathematics,  
NICHE.
12. Dr. P. Jeba Sheeja,  
Assistant Professor,  
Department of Mathematics,  
NICHE.
13. Dr. J. John Arul Singh,  
Assistant Professor,  
Department of Mathematics,  
NICHE.
14. Dr. R. Kala,  
Professor,  
Department of Mathematics,  
Manonmaniam Sundaranar University,  
Tirunelveli.
15. Dr. P. Titus,  
Associate Professor,

Department of Mathematics,  
University College of Engineering,  
Nagercoil – 629 004, Kanyakumari District.

## PHYSICS

1. Dr. B. Bindhu,  
Professor & Head,  
Department of Physics, NICHE.
2. Dr. B. Bindhu,  
Professor & Head,  
Dean – Science and Humanites,  
Department of Physics, NICHE.
3. Dr. B. Bindhu,  
Professor,  
Department of Physics,  
NICHE.
4. Dr. V. N. Meena Devi,  
Associate Professor,  
Department of Physics, NICHE.
5. Dr. C. Sagi Rani,  
Assistant Professor,  
Department of Physics, NICHE.
6. Dr. N. Y. Sugirtha Suni,  
Assistant Professor,  
Department of Physics, NICHE.
7. Dr. Tarun Kumar Pant,  
Scientist 'SG'  
Head, ITMP,  
Space Physics Laboratory,  
Vikram Sarabai Space Centre (VSSC),  
Thiruvananthapuram – 695 022, Kerala, India.
8. Dr. K. Iyakutti,  
Professor of Physics,  
SRM University,  
Chennai.
9. Dr. B. Sundarakannan,  
Professor & Head,  
Department of Physics,  
Manonmaniam Sundaranar University,  
Tirunelveli.

| <b>Sl.<br/>NO.</b> | <b>Faculty</b>                                        | <b>Name</b>            |
|--------------------|-------------------------------------------------------|------------------------|
| 1                  | Dean-Faculty of Management Studies.                   | Dr.K.A. Janardhanan,   |
| 2.                 | Dean-Faculty of Information and Computer Engineering. | Dr.A. Shajin Nargunam, |

## **DEANS OF FACULTIES**

|     |                                                      |                              |
|-----|------------------------------------------------------|------------------------------|
| 3   | Dean-Faculty of Computer Science                     | Dr. M.K. Jeya Kumar,         |
| 4   | Dean-Faculty of Aeronautical and Space Technology    | Dr.R.C. Mehta,               |
| 5   | Dean-Faculty of Civil Engineering                    | Dr. V. Narayanan Nair,       |
| 6   | Dean Faculty of Allied Health Sciences               | Dr.M. Sankaranarayana Pillai |
| 7   | Dean-Faculty of Mechanical Engineering               | Dr. M. Dev Anand,            |
| 8   | Dean-Faculty of Science and Humanities               | Dr. B. Bindhu                |
| 9   | Dean-Faculty of Electrical & Electronics Engineering | Dr.R.S. Vinod Kumar,         |
| 10. | Dean-Faculty of Technology                           | Dr.M.Murugan                 |
| 11. | Dean-Faculty of Marine Engineering.                  | Dr.S. John Leon              |

## **NAME OF THE DEPARTMENT: AERONAUTICAL ENGINEERING**

### **1. Department Details :**

|                                          |                                                                                                                          |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Name of the Faculty                      | Faculty of Aeronautical and Space Technology                                                                             |
| Name of the HoD, Phone No. and E-mail ID | <b>Dr.T.Annil Kumar,</b><br><b>9843620199,</b><br><a href="mailto:annilkumartngl@gmail.com">annilkumartngl@gmail.com</a> |
| Year of Establishment                    | <b>2004</b>                                                                                                              |
| Telephone Number                         | <b>9843620199</b>                                                                                                        |
| Website / E mail                         | <a href="mailto:annilkumartngl@gmail.com">annilkumartngl@gmail.com</a>                                                   |

## 2. Details of Faculty Members :

| S. No. | Name of the Faculty | Qualification                      | Designation | Specialisation             | Experience in years |          | E-mail ID & Phone/Cell Phone No.                                                     |
|--------|---------------------|------------------------------------|-------------|----------------------------|---------------------|----------|--------------------------------------------------------------------------------------|
|        |                     |                                    |             |                            | Teaching            | Research |                                                                                      |
| 1.     | Dr.R.C.Mehta        | B.E.,M.S., Ph..D.                  | Prof & Dean | Aerodynamics, CFD          | 16                  | 42       | 9744114267<br><a href="mailto:drakhab.mehta@gmail.com">drakhab.mehta@gmail.com</a>   |
| 2.     | Dr.T.Annil Kumar    | B.E., M.Tech., Ph.D.               | ASP & HOD   | Composites FEA             | 19                  | 11       | 9843620199<br><a href="mailto:annilkumartngl@gmail.com">annilkumartngl@gmail.com</a> |
| 3.     | Dr.R.R.Neela Rajan  | B.E., M.E., PhD                    | AP          | Engineering Design         | 19                  | 9        | <a href="mailto:neelarajan@niuniv.com">neelarajan@niuniv.com</a><br>7708831981       |
| 4      | Dr.V.Antony Vincent | A.M.Ae.S.I., A.M.I.E., M.E., Ph.D. | AP          | Aerodynamics, Composites   | 14                  | 6        | 9442711396<br><a href="mailto:vantonyaero79@gmail.com">vantonyaero79@gmail.com</a>   |
| 5      | Mr.A.Anukuttan      | B.E.,M.E.,(Ph. D.)                 | AP          | Heat Transfer, Composites  | 5                   | 4        | 8098005966<br><a href="mailto:anukuttan95@gmail.com">anukuttan95@gmail.com</a>       |
| 6      | Mrs.A.Aneesha       | B.E.,M.E.                          | AP          | Thermodynamics, propulsion | 1                   | -        | 9566398607<br><a href="mailto:aneeshaaero19@gmail.com">aneeshaaero19@gmail.com</a>   |

## 3. Faculty Members Achievements /Performance:

| S. No. | Name                | h index |            | Publications |            | Citations |            | API   |            | M.Phil. awarded |            | Ph.D. awarded |            | Cumulative Scholars |       |
|--------|---------------------|---------|------------|--------------|------------|-----------|------------|-------|------------|-----------------|------------|---------------|------------|---------------------|-------|
|        |                     | 22-23   | Cumulative | 22-23        | Cumulative | 22-23     | Cumulative | 22-23 | Cumulative | 22-23           | Cumulative | 22-23         | Cumulative | M. Phil             | Ph.D. |
| 1.     | Dr.R.C.Mehta        | 2       | 13         | 2            | 97         | 36        | 667        |       |            | -               | -          | -             | -          | -                   | -     |
| 2.     | Dr.T.Annil Kumar    | -       | 2          | -            | 2          | 6         | 51         |       |            | -               | -          | -             | -          | -                   | -     |
| 3.     | Dr.R.R.Neela Rajan  | -       | 3          | 1            | 19         | 7         | 27         | 70    | 70         | -               | -          | -             | -          | -                   | -     |
| 4      | Dr.V.Antony Vincent | 1       | 2          | 1            | 2          | 22        | 44         |       |            | -               | -          | -             | -          | -                   | -     |
| 5      | Mr.A.Anukuttan      | 1       | 2          | 1            | 2          | 12        | 20         |       |            | -               | -          | -             | -          | -                   | -     |
| 6      | Mrs.S..Aneesha      | -       | -          | -            | -          | -         | -          |       |            | -               | -          | -             | -          | -                   | -     |

## 4.. Research Schemes/Projects undertaken :

| S. No. | Name of the Principal Investigator | Funding Agency | Title of the Project | Duration |    | Amount Rs. |
|--------|------------------------------------|----------------|----------------------|----------|----|------------|
|        |                                    |                |                      | From     | To |            |
| 1      | Nil                                |                |                      |          |    |            |
| 2      |                                    |                |                      |          |    |            |

## 5. a) Participation of the Faculty members, presentation of papers in Congresses/Conferences/Seminars/Workshops, Symposia, etc.

| S. No. | Name of the Faculty | Congress/Conference/Seminar | Title of the paper | Date |
|--------|---------------------|-----------------------------|--------------------|------|
|--------|---------------------|-----------------------------|--------------------|------|

|   |                     | <b>/Workshop and Venue</b>                                                         |                                                                 |            |
|---|---------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------|------------|
| 1 | Dr.R.R.Neela Rajan  | National Confrence on Innovative and Emerging Technologies in Engineering at NICHE | Transesterification of Mahua oil yield using Box-Behnken Method | 24.4.2023  |
| 2 | Dr.R.R.Neela Rajan  | National Confrence on Innovative and Emerging Technologies in Engineering At NICHE | Fixed Bed study for Adsorption performance by using Loam soil   | 24.4.2023  |
| 3 | Dr.V.antony Vincent | National Confrence on Innovative and Emerging Technologies in Engineering at NICHE | Transesterification of Mahua oil yield using Box-Behnken Method | 24.4. 2023 |

**b) Foreign Faculty/Expert visit to the Department:**

| S. No. | Name & Designation | Institute | Country | Duration | Purpose |
|--------|--------------------|-----------|---------|----------|---------|
|        | Nil                |           |         |          |         |
|        |                    |           |         |          |         |

**6. Faculty acted as Chief Guest, Key note Speakers, Resource Person, Chair Person, External experts, etc. :**

| S. No. | Name of the Faculty member | Role | Event | Title | Venue & Date |
|--------|----------------------------|------|-------|-------|--------------|
|        | Nil                        |      |       |       |              |

**7. Details of Seminars, Conferences, Refresher courses, Webminars Organised:**

| S. No. | Name of the Faculty member | Congress/Conference/Seminar/ Workshop/Symposia , Webmniars etc. organised | State/National/ International Level | Date      |
|--------|----------------------------|---------------------------------------------------------------------------|-------------------------------------|-----------|
|        | Dr.R.R. Neela Rajan        | International Seminar on spacecraft Autonomy                              | International                       | 20-4-2023 |

**8. Publication of Research Papers at the State/National/International Levels:**

| S. No. | Author(s)          | Title of the paper                                                | Journal with ISSN/Scopus /SCI/UGC care | Volume No. Issue No. | Year of Publication | Page(pp)  |
|--------|--------------------|-------------------------------------------------------------------|----------------------------------------|----------------------|---------------------|-----------|
| 1.     | Dr.R.C.Mehta       | Aerodynamics of Sport Balls, Badminton Shuttlecock and Javelin    | Sch J Eng Tech 221 – 435X              | 11 (2)               | 2023                | 4 - 16    |
| 2.     | Dr.R.C.Mehta       | Review of Vent Systems on Space vehicle, Space craft and Aircraft | Sch J Eng Tech 221 – 435X              | 10 (8)               | 2022                | 210 - 229 |
| 3.     | Dr.R.R.Neela Rajan | Influence of MoS <sub>2</sub> with TiC on the                     | Smart Innovation, Systems and          | 334                  | 2023                | 275-283   |

|    |                            |                                                                                                                                               |                                                         |        |      |           |
|----|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------|------|-----------|
|    |                            | Tribological and Wear Properties of Hybrid Aluminium Composites                                                                               | Technologies                                            |        |      |           |
| 4. | <b>Dr.V.Antony Vincent</b> | Strength characterization of caryota urens fibre and aluminium 2024-T3 foil multi-stacking sequenced SiC-toughened epoxy structural composite | Biomass Conversion and Biorefinerythis link is disabled | 12 (9) | 2022 | 4009–4019 |
| 5. | <b>Mr.A.Anu Kuttan</b>     | Employing Aluminium Matrix Composite for Stir Casting Process for Investigating the Performance of A1-6061                                    | J Inst. Eng. India Ser. D                               |        | 2023 | 1 -14     |

#### 9. Details of patents applied/awarded:

| S.No. | Name of the Faculty member | Title | Date of filling | Application No. | Award No. |
|-------|----------------------------|-------|-----------------|-----------------|-----------|
|       | Nil                        |       |                 |                 |           |

#### 10. Publications of Books/Monographs:

| S. No. | Author(s) | Name of the Book with ISBN | Publisher/Place | Year |
|--------|-----------|----------------------------|-----------------|------|
|        | Nil       |                            |                 |      |

**11. Courses offered, Sanctioned Strength of Students and Enrolment details:**

| S. NO. | Name of the Programme / Branch of study | Sanct ioned Streng th | Enrolment during 2022-23 |   | Total | Community |   |    |   |     |   |          |   |    |   |     |   |    |   | Existing Students, Strength |   |          |   |         |   |        |  | Pass Percenta ge of out going batch |
|--------|-----------------------------------------|-----------------------|--------------------------|---|-------|-----------|---|----|---|-----|---|----------|---|----|---|-----|---|----|---|-----------------------------|---|----------|---|---------|---|--------|--|-------------------------------------|
|        |                                         |                       | F                        | M |       | OC        |   | BC |   | BCM |   | MBC/ DNC |   | SC |   | SCA |   | ST |   | II year                     |   | III year |   | IV year |   |        |  |                                     |
|        |                                         |                       |                          |   |       | M         | F | M  | F | M   | F | M        | F | M  | F | M   | F | M  | F | M                           | F | M        | F | M       | F |        |  |                                     |
|        | UG Programme                            | 30                    | 0                        | 3 | 3     | -         | - | 3  | - | -   | - | -        | - | -  | - | -   | - | -  | - | 6                           | 0 | 7        | 5 | 9       | 1 | 87.50% |  |                                     |
|        | PG Courses                              | 9                     | 0                        | 2 | 2     | -         | - | 2  | - | -   | - | -        | - | -  | - | -   | - | -  | - | 1                           | 1 |          |   |         |   | 50.00% |  |                                     |
|        | Ph.DProgram me                          |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |        |  |                                     |
|        | Diploma Certificate Courses (if any)    |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |        |  |                                     |
|        | MOOC/NPTEL/UGC online courses offered   |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |        |  |                                     |
|        | Total                                   | 39                    |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |        |  |                                     |

## 12. Enrolment of Students from Overseas and other States:

| S. No. | Degree and Subject | Nationality | State | Number of Students |        | Total |
|--------|--------------------|-------------|-------|--------------------|--------|-------|
|        |                    |             |       | Male               | Female |       |
|        | Nil                |             |       |                    |        |       |

## 13. U.G./P.G. and Research degrees awarded:

| S. No | UG |       | P.G. |       | M. Phil. |    |       | Ph.D. |    |    |       |
|-------|----|-------|------|-------|----------|----|-------|-------|----|----|-------|
|       |    | Total |      | Total | FT       | PT | Total |       | FT | PT | Total |
|       |    | 7     |      | 1     | -        | -  | -     |       | -  | 1  | 1     |

## 14. Fellowships Awarded (National/International) Faculty/Students Stipend awarded :

| S. No. | Agency | Position (URF/JRF/SRF/RA/ others) | Number of Fellowships |   | Total |
|--------|--------|-----------------------------------|-----------------------|---|-------|
|        |        |                                   | M                     | F |       |
|        | Nil    |                                   |                       |   |       |

## 15.Scholarships Awarded: Nil

| S. No. | Nature of Scholarship                    | P.G. |   | M.Phil. |   | Ph.D. |   | Total Amount Rs. |
|--------|------------------------------------------|------|---|---------|---|-------|---|------------------|
|        |                                          | M    | F | M       | F | M     | F |                  |
| 1      | B.C.(State)                              |      |   |         |   |       |   |                  |
| 2      | B.C.M.(State)                            |      |   |         |   |       |   |                  |
| 3      | M.B.C./D.N.C.(State)                     |      |   |         |   |       |   |                  |
| 4      | SC/SCA/ST(National)                      |      |   |         |   |       |   |                  |
| 5      | SC/SCA/ST(State)                         |      |   |         |   |       |   |                  |
| 6      | Management Scholar ship                  |      |   |         |   |       |   |                  |
| 7      | Loan Scholarship                         |      |   |         |   |       |   |                  |
| 8      | MoovalurRamamirthamAmmaiyar Scheme       |      |   |         |   |       |   |                  |
| 9      | 'Pudhumai Penn' (modern woman)           |      |   |         |   |       |   |                  |
| 10     | Others ( please Specify the scholarship) |      |   |         |   |       |   |                  |
|        | Total                                    |      |   |         |   |       |   |                  |

## 16. Performance of the Students :

| S. No | Course      | S1   |      | S2   |      | S3   |      | S4   |      | S5   |      | S6   |      | S7   |      | S8   |      |
|-------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|       |             | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass |
|       | B.E. Degree | 3    | 1    | 3    | 1    | 12   | 4    | 12   | 5    | 6    | 4    | 6    | 4    | 10   | 3    | 10   | 7    |
|       | M.E. Degree | 2    | 1    | 2    | 2    | 2    | 1    | 2    | 1    |      |      |      |      |      |      |      |      |

**17. Placement Details:**

| <b>Name of the Placement co-ordinator: Dr.V.Antony Vincent</b>                                                            |                                                                               |                            |        |
|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------|--------|
| <b>Phone/Mobile Number :e-mail: 9442711396 &amp; <a href="mailto:vantonyaero79@gmail.com">vantonyaero79@gmail.com</a></b> |                                                                               |                            |        |
| <b>Number of Placement Programmes:</b>                                                                                    |                                                                               |                            |        |
| S. No.                                                                                                                    | Particulars                                                                   | Numbers of students placed |        |
|                                                                                                                           |                                                                               | Male                       | Female |
| 1                                                                                                                         | Number of Students Placed                                                     | 13                         | 0      |
| 2                                                                                                                         | Number of Placements obtained through Campus Interview                        | Nil                        | Nil    |
| 3                                                                                                                         | Ratio of Placement to Students (Total no of Placement / Total no of Students) | 13/16 = 81.25 %            | 0/1    |

**18. Outstanding achievements by the Faculty Members:**

| S. No. | Name of the Faculty | Achievements | Agency |
|--------|---------------------|--------------|--------|
| 1      | Nil                 |              |        |

**19. Outstanding achievements by Students:**

| S.No. | Name of the Student | Achievements | Agency |
|-------|---------------------|--------------|--------|
| 1     | Nil                 |              |        |

**20. Department Meetings Held :  
BOS,Programme Committee, Course Committee etc.**

| S.No | Name                     | Date                                                                     |  |
|------|--------------------------|--------------------------------------------------------------------------|--|
| 1.   | BOS                      | 16.2.2023<br>7.6.2023                                                    |  |
| 2.   | Programme Committee etc. | 27.7.2022<br>14.9.2022<br>27.10.2022<br>1.2.2023<br>11.3.2023            |  |
| 3.   | Course Committee         | 16.8.2022<br>19.9.2022<br>2.11.2022<br>7.1.2023<br>9.3.2023<br>19.4.2023 |  |

**21. Infrastructure and Research facilities available (Please specify equipments more than TwoLakhs Only) :**

| S. No. | Name of the Lab         | Name of the Equipments/Computer/ Software/ Others | Quantity | Purpose Research/Practical |
|--------|-------------------------|---------------------------------------------------|----------|----------------------------|
| 1.     | Aircraft Structures Lab | 12inch diffused polariscope                       | 1        | Both                       |
| 2.     | Composite Materials Lab | MTIG Welding                                      | 1        | Both                       |

**22. Extension activities carried out :**

| S. No. | Name of the Activity | Beneficiaries | Date | Venue |
|--------|----------------------|---------------|------|-------|
| 1      |                      |               |      |       |

**23. Department Library/Learning Resources/ Information and Language Lab:**

| S. No. | Particulars                                                           | Nos. | S. No. | Particulars                                         | Nos. |
|--------|-----------------------------------------------------------------------|------|--------|-----------------------------------------------------|------|
| 1      | No. of books available                                                | 942  | 7      | No. of titles available                             | 3    |
| 2      | Books added during the year 2021-22                                   | --   | 8      | No. of CDs and Digital Books available              | 3    |
| 3      | No. of Indian Journals/Magazines                                      | ---  | 9      | No. of Foreign Magazines/Journals                   | 6    |
| 4      | No. of data bases available                                           | ---  | 10     | No. of Online Journals                              | 5    |
| 5      | Average No. of students visiting the Library per day                  | 5    | 11     | Average No. of books Issued per day                 | 5    |
| 6      | Availability of Internet (Specify the Capacity) (e.g. – 8 Mbps etc.,) | Yes  | 12     | Availability of Language Lab                        | ---  |
|        |                                                                       |      | 13     | NDL membership<br>1. Faculty members<br>2. Students | Nil  |

**24. Information and Communication Technology Resources:**

| S. No. | Name of the Equipment | Specifications | Nos. | S. No. | Name of the Equipment | Specifications | Nos. |
|--------|-----------------------|----------------|------|--------|-----------------------|----------------|------|
|        | Nil                   |                |      |        |                       |                |      |

**24.Collaborative Researches : Nil****25.Consultancies : Nil****26.No. of NET/SET/GATE/CSIR Qualified students: Nil****27. MOUs signed :**

| S.No | Date      | MoU signed with                  | Number of Activities | Remarks |
|------|-----------|----------------------------------|----------------------|---------|
| 1.   | 15.3.2023 | Vaayusatra, Aerospace, Chennai   |                      |         |
| 2.   | 20.6.2023 | Steps software solution, Chennai |                      |         |

**28. Innovations and Best Practices : Nil****29. Academic Flexibility : Nil**

| S.No | Courses offered | Platform (MOOC, NPTEL, etc.) | No. Students enrolled | No. of Students Passed |
|------|-----------------|------------------------------|-----------------------|------------------------|
|      |                 |                              |                       |                        |

\*\*\*\*\*

## NAME OF THE DEPARTMENT: DEPARTMENT OF AEROSPACE ENGINEERING

### 1. Department Details :

|                                             |                                                                                                                                                    |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of the Faculty                         | Faculty of Aeronautical and Space Technology                                                                                                       |
| Name of the HoD,<br>Phone No. and E-mail ID | <b>Dr. J. Saji Soundara Raj,</b><br><b>+9443692761</b><br><b>aerospace@niuniv.com</b>                                                              |
| Year of Establishment                       | <b>2009</b>                                                                                                                                        |
| Telephone Number                            | <b>9443692761</b>                                                                                                                                  |
| Website / E mail                            | <b><a href="https://www.niuniv.com/department.php?of=aerospace-engineering">https://www.niuniv.com/department.php?of=aerospace-engineering</a></b> |

### 2. Details of Faculty Members :

| S. No. | Name of the Faculty     | Qualification | Designation               | Specialisation | Experience in years |          | E-mail ID &Phone/Cell Phone No.             |
|--------|-------------------------|---------------|---------------------------|----------------|---------------------|----------|---------------------------------------------|
|        |                         |               |                           |                | Teaching            | Research |                                             |
| 1      | Dr. M.S.Aldrin Sugin    | Ph.D          | Associate Professor & HoD | Aerospace      | 12                  | -        | aldrin_sugin@Rediffmail.com<br>9894084608   |
| 2      | Dr.J. Saji soundara raj | Ph.D          | Associate Professor       | Mechanical     | 17                  | -        | sajisoundararaj@yahoo.com<br>9443692761     |
| 3      | Mr. B.V.Subanandh       | M.E.          | Assistant professor       | Mechanical     | 10                  | -        | bvanandh@yahoo.com<br>9597336365            |
| 4      | Dr.Karthikeyan. L.M     | Ph.D          | Assistant. Professor      | Aerospace      | 8                   | 1        | Imkarthikeyan@yahoo.in<br>9865547716        |
| 5      | Mrs.W.K.Anitta          | M.E.          | Assistant. Professor      | Aerospace      | 2                   | 2        | Anittawk211292@gmail.com<br>9487439085      |
| 6      | Mr.K.R.Harish           | M.E. (Ph.D)   | Assistant. Professor      | Mechanical     | 3                   | -        | harishrajamoni@gmail.com<br>9487646400      |
| 7      | Mrs.V.L.Nisha           | M.E. (Ph.D)   | Assistant. Professor      | Electronics    | 12                  | -        | nishavijayachandran@gmail.com<br>9489750445 |

### 3. Faculty Members Achievements /Performance:

| S. No. | Name            | h index |            | Publications |            | Citations |            | API   |            | M.Phil. awarded |            | Ph.D. awarded |            | Cumulative Scholars |       |
|--------|-----------------|---------|------------|--------------|------------|-----------|------------|-------|------------|-----------------|------------|---------------|------------|---------------------|-------|
|        |                 | 22-23   | Cumulative | 22-23        | Cumulative | 22-23     | Cumulative | 22-23 | Cumulative | 22-23           | Cumulative | 22-23         | Cumulative | M. Phil             | Ph.D. |
| 1      | Dr.Aldrin Sugin | 1       | 1          | -            | 5          | -         | 37         | 13    | 135        | -               | -          | -             | -          | -                   | -     |

|    |                         |   |    |   |    |   |    |     |     |   |   |   |   |   |   |
|----|-------------------------|---|----|---|----|---|----|-----|-----|---|---|---|---|---|---|
| 2. | Dr.J. Saji Soundara Raj | - | 26 | - | 2  | - |    | 150 | 150 |   |   |   |   |   |   |
| 3  | Dr.L.M.Kar thikeyan     | - | 3  | - | 16 | - | 34 | 135 | 135 | - | - | - | - | - | - |
| 4  | Mrs.V.L.Ni sha          | - | 4  | - | 1  | - | -  | 135 | 135 | - | - | - | - | - | - |

#### 4.. Research Schemes/Projects undertaken : Nil

| S. No. | Name of the Principal Investigator | Funding Agency | Title of the Project | Duration |    | Amount Rs. |
|--------|------------------------------------|----------------|----------------------|----------|----|------------|
|        |                                    |                |                      | From     | To |            |
| 1      |                                    |                |                      |          |    |            |
| 2      |                                    |                |                      |          |    |            |

#### 5. a) Participation of the Faculty members, presentation of papers in Congresses/Conferences/Seminars/Workshops, Symposia, etc. Nil

| S. No. | Name of the Faculty | Congress/Conference/Seminar /Workshop and Venue | Title of the paper | Date |
|--------|---------------------|-------------------------------------------------|--------------------|------|
| 1      |                     |                                                 |                    |      |
| 2      |                     |                                                 |                    |      |

#### b) Foreign Faculty/Expert visit to the Department:

| S. No. | Name & Designation   | Institute                                                                                      | Country | Duration           | Purpose                                                       |
|--------|----------------------|------------------------------------------------------------------------------------------------|---------|--------------------|---------------------------------------------------------------|
| 1      | Dr.Krishna Dev Kumar | Space Systems Engineering Intelligence for Aerospace Systems, Toronto, Metropolitan University | Canada  | 1 day (20-04-2023) | Chief speaker in International Seminar on Spacecraft Autonomy |

#### 6. Faculty acted as Chief Guest, Key note Speakers, Resource Person, Chair Person, External experts, etc. : Nil

| S. No. | Name of the Faculty member | Role | Event | Title | Venue & Date |
|--------|----------------------------|------|-------|-------|--------------|
| 1      |                            |      |       |       |              |
| 2      |                            |      |       |       |              |

**7. Details of Seminars, Conferences, Refresher courses, Webminars Organised:**

| S. No. | Name of the Faculty member | Congress/Conference/Seminar/ Workshop/Symposia , Webmniars etc. organised | State/National/ International Level | Date       |
|--------|----------------------------|---------------------------------------------------------------------------|-------------------------------------|------------|
| 1      | Dr.J.Saji Soundara raj     | Guest Lecture on Composite Composite Materials in Aerospace Application   | University Level                    | 13-02-2023 |
| 2      | Dr.J. Saji Soundara raj    | Guest Lecture on Research & development on supersonic fighter aircraft    | University Level                    | 15-03-2023 |
| 3      | Dr.Krishna Dev Kumar       | International Seminar on Spacecraft Autonomy                              | International Level                 | 20-04-2023 |

**8. Publication of Research Papers at the State/National/International Levels: Nil**

| S. No. | Author(s) | Title of the paper | Journal with ISSN/Scopus /SCI/UGC care | Volume No. Issue No. | Year of Publication | Page(pp) |
|--------|-----------|--------------------|----------------------------------------|----------------------|---------------------|----------|
|        |           |                    |                                        |                      |                     |          |

**9. Details of patents applied/awarded: Nil**

| S.No. | Name of the Faculty member | Title | Date of filling | Application No. | Award No. |
|-------|----------------------------|-------|-----------------|-----------------|-----------|
|       |                            |       |                 |                 |           |

**10. Publications of Books/Monographs: Nil**

| S. No. | Author(s) | Name of the Book with ISBN | Publisher/Place | Year |
|--------|-----------|----------------------------|-----------------|------|
|        |           |                            |                 |      |

### 11. Courses offered, Sanctioned Strength of Students and Enrolment details:

| S. NO. | Name of the Programme / Branch of study | Sancti oned Streng th | Enrolment during 2022-23 |   | Total | Community |   |    |   |     |   |          |   |    |   |     |   |    |   | Existing Students, Strength |   |          |   |         |     |   |   | Pass Percenta ge of out going batch |
|--------|-----------------------------------------|-----------------------|--------------------------|---|-------|-----------|---|----|---|-----|---|----------|---|----|---|-----|---|----|---|-----------------------------|---|----------|---|---------|-----|---|---|-------------------------------------|
|        |                                         |                       | F                        | M |       | OC        |   | BC |   | BCM |   | MBC/ DNC |   | SC |   | SCA |   | ST |   | II year                     |   | III year |   | IV year |     |   |   |                                     |
|        |                                         |                       |                          |   |       | M         | F | M  | F | M   | F | M        | F | M  | F | M   | F | M  | F | M                           | F | M        | F | M       | F   | M | F |                                     |
|        | UG Programme                            | 30                    | 0                        | 3 | 03    | 1         |   | 2  |   |     |   |          |   |    |   |     |   |    | 4 | 2                           | 5 | 9        | 4 | 5       | 100 |   |   |                                     |
|        | PG Courses                              |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |     |   |   |                                     |
|        | Ph.DProgram me                          |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |     |   |   |                                     |
|        | Diploma Certificate Courses (if any)    |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |     |   |   |                                     |
|        | MOOC/NPTEL/UGC online courses offered   |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |     |   |   |                                     |
|        | Total                                   | 30                    |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |     |   |   |                                     |

## 12. Enrolment of Students from Overseas and other States:

| S. No. | Degree and Subject        | Nationality | State         | Number of Students |        | Total |
|--------|---------------------------|-------------|---------------|--------------------|--------|-------|
|        |                           |             |               | Male               | Female |       |
| 1      | B.E Aerospace Engineering | Indian      | Kerala        | 1                  | -      | 1     |
| 2      | B.E Aerospace Engineering | Indian      | Andra pradesh | 1                  | -      | 1     |

## 13. U.G./P.G. and Research degrees awarded:

| S. No | UG     |       | P.G.   |       | M. Phil. |     |     |       | Ph.D.  |     |     |       |
|-------|--------|-------|--------|-------|----------|-----|-----|-------|--------|-----|-----|-------|
|       |        | Total |        | Total |          | FT  | PT  | Total |        | FT  | PT  | Total |
| 1     | Male   | 06    | Male   | Nil   | Male     | Nil | Nil | Nil   | Male   | Nil | Nil | Nil   |
| 2     | Female | 06    | Female | Nil   | Female   | Nil | Nil | Nil   | Female | Nil | Nil | Nil   |

## 14. Fellowships Awarded (National/International) Faculty/Students Stipend awarded :

| S. No. | Agency | Position (URF/JRF/SRF/RA/ others) | Number of Fellowships |   | Total |
|--------|--------|-----------------------------------|-----------------------|---|-------|
|        |        |                                   | M                     | F |       |
| 1      |        |                                   |                       |   |       |

## 15.Scholarships Awarded:

| S. No. | Nature of Scholarship                    | P.G. |   | M.Phil. |   | Ph.D. |   | Total Amount Rs. |
|--------|------------------------------------------|------|---|---------|---|-------|---|------------------|
|        |                                          | M    | F | M       | F | M     | F |                  |
| 1      | B.C.(State)                              |      |   |         |   |       |   |                  |
| 2      | B.C.M.(State)                            |      |   |         |   |       |   |                  |
| 3      | M.B.C./D.N.C.(State)                     |      |   |         |   |       |   |                  |
| 4      | SC/SCA/ST(National)                      |      |   |         |   |       |   |                  |
| 5      | SC/SCA/ST(State)                         |      |   |         |   |       |   |                  |
| 6      | Management Scholar ship                  |      |   |         |   |       |   |                  |
| 7      | Loan Scholarship                         |      |   |         |   |       |   |                  |
| 8      | Moovalur Ramamirtham Ammaiyar Scheme     |      |   |         |   |       |   |                  |
| 9      | 'Pudhumai Penn' (modern woman)           |      |   |         |   |       |   |                  |
| 10     | Others ( please Specify the scholarship) |      |   |         |   |       |   |                  |
|        | Total                                    |      |   |         |   |       |   |                  |

## 16. Performance of the Students :

| S. No | Course        | S1   |      | S2   |      | S3   |      | S4   |      | S5   |      | S6   |      | S7   |      | S8   |      |
|-------|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|       |               | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass |
| 1     | BE Aerosp ace | 03   | 01   | 03   | 02   | 06   | 04   | 06   | 04   | 14   | 08   | 14   | 09   | 9    | 08   | 9    | 9    |

**17. Placement Details:**

| Name of the Placement co-ordinator: Mr.B.V.Subanandh |                                                                               |                            |        |
|------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------|--------|
| Phone/Mobile Number : 9597336365                     |                                                                               | e-mail: bvanandh@yahoo.com |        |
| Number of Placement Programmes:                      |                                                                               |                            |        |
| S. No.                                               | Particulars                                                                   | Numbers of students placed |        |
|                                                      |                                                                               | Male                       | Female |
| 1                                                    | Number of Students Placed                                                     | 02                         | -      |
| 2                                                    | Number of Placements obtained through Campus Interview                        | -                          | -      |
| 3                                                    | Ratio of Placement to Students (Total no of Placement / Total no of Students) | 0.22                       | -      |

**18. Outstanding achievements by the Faculty Members: Nil**

| S. No. | Name of the Faculty | Achievements | Agency |
|--------|---------------------|--------------|--------|
| 1      |                     |              |        |

**19. Outstanding achievements by Students: Nil**

| S.No. | Name of the Student | Achievements | Agency |
|-------|---------------------|--------------|--------|
| 1     |                     |              |        |

**20. Department Meetings Held :  
BOS, Progame Committee, Course Committee etc.**

| S.No | Name                     | Date                   | Vanue                                |
|------|--------------------------|------------------------|--------------------------------------|
| 1    | Board of Studies Meeting | 28.02.2023<br>12.00 PM | Room No R404<br>(Aerospace Dept)     |
| 2    | Board of Studies Meeting | 30.05.2023<br>11.00 AM | Smart Class Room<br>(Aerospace Dept) |

**21. Infrastructure and Research facilities available (Please specify equipments more than TwoLakhs Only) :**

| S. No. | Name of the Lab                  | Name of the Equipments/Computer/Software/Others                                                                                                                                                                                                                   | Quantity | Purpose Research/Practical                                                                           |
|--------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------|
| 1      | Computational Fluid Dynamics Lab | The CFD lab consists of a 40 Node Linux OS based Cluster. The basic unit is a Xeon GHz Quad pro processor and a ten such units make up the total system and one of these units constitutes as the main server. At present ANSYS 12 CFD Version has been installed | -        | The CFD Lab serves as a basic computational Platform for Design, Research and Educational activities |

**22. Extension activities carried out :**

| S. No. | Name of the Activity | Beneficiaries               | Date                            | Venue               |
|--------|----------------------|-----------------------------|---------------------------------|---------------------|
| 1      | Pongal Celebration   | Aerospace Students & Staffs | 12 <sup>th</sup> Jan 2023       | Aeospace Department |
| 2      | Industrial Visit     | Aerospace Students          | 14 to 16 <sup>th</sup> Feb 2023 | ISRO Bangalore      |

**23. Department Library/Learning Resources/ Information and Language Lab:**

Name of the Librarian or Faculty in-charge of the Library: Mrs. W.K.Anitta

| S. No. | Particulars                                                           | Nos.                   | S. No. | Particulars                                         | Nos. |
|--------|-----------------------------------------------------------------------|------------------------|--------|-----------------------------------------------------|------|
| 1      | No. of books available                                                | 657                    | 7      | No. of titles available                             | 294  |
| 2      | Books added during the year 2022-23                                   | 4                      | 8      | No. of CDs and Digital Books available              | -    |
| 3      | No. of Indian Journals/Magazines                                      | 14                     | 9      | No. of Foreign Magazines/Journals                   | -    |
| 4      | No. of data bases available                                           | -                      | 10     | No. of Online Journals                              | -    |
| 5      | Average No. of students visiting the Library per day                  | 1                      | 11     | Average No. of books Issued per day                 | 1    |
|        |                                                                       |                        | 12     | No. of digital books                                | -    |
| 6      | Availability of Internet (Specify the Capacity) (e.g. – 8 Mbps etc.,) | WiFi connecting to all | 13     | Availability of Language Lab                        | Nil  |
|        |                                                                       |                        | 14     | NDL membership<br>3. Faculty members<br>4. Students | -    |

**24. Information and Communication Technology Resources:**

| S. No. | Name of the Equipment              | Specifications                                                                                    | Nos. | S. No. | Name of the Equipment | Specifications                                                | Nos. |
|--------|------------------------------------|---------------------------------------------------------------------------------------------------|------|--------|-----------------------|---------------------------------------------------------------|------|
| 1      | Computer                           | Levono - Pentium (R) Dual-core CPU E5700 @ 3.00GHz, RAM 2GB                                       | 1    | 7      | Network               | -                                                             | 1    |
| 2      | Laptops                            | Levono - Pentium 1.9 GHz Processor, 500 GB HDD, 2 GB RAM                                          | 1    | 8      | Fax                   | -                                                             | 0    |
| 3      | Printer                            | -                                                                                                 | 0    | 9      | Smart Class           | With smart board interacted board and projector ceiling mount | 1    |
| 4      | LCD Projector                      | Epson Multi media Projector with lens, Remote, Power cable, VGA, Bag, Adopter cable, EPSON CD ROM | 1    | 10     | Software/ Data base   | ANSYS, FLUENT, MATLAB                                         | 1    |
| 5      | Net Connection<br>Wi-Fi:<br>Wired: | -                                                                                                 | 1    | 11     | Others                | AHUJA PA Amplifier, wireless micro phone and wall speakers    | 1    |
| 6      | Scanner                            | -                                                                                                 | 0    |        |                       |                                                               |      |

**24.Collaborative Researches : Nil**

**25.Consultancies :Nil**

**26.No. of NET/SET/GATE/CSIR Qualified students: Nil**

**27. MOUs signed :**

| S.No | Date       | MoU signed with            | Number of Activities                                                                                                                                                                         | Remarks |
|------|------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 1    | 15.03.2023 | Sky Aerospace, Bangalore   | Following activities had conducted with Sky Aerospace, Bangalore:<br><br>1. One seminar & one webinar conducted<br><br>2. Seven students registered for internship training in Sky Aerospace | -       |
| 2    | 15.03.2023 | MSK Life Clinic Foundation | Planned to conduct a FDP with MSK Life Clinic Foundation                                                                                                                                     | -       |

**28. Innovations and Best Practices : Nil**

**29. Academic Flexibility : Nil**

| S.No | Courses offered | Platform (MOOC, NPTEL, etc.) | No. Students enrolled | No. of Students Passed |
|------|-----------------|------------------------------|-----------------------|------------------------|
|      |                 |                              |                       |                        |

## NAME OF THE DEPARTMENT: AIRCRAFT MAINTANANCE AND ENGINEERING

### 1. Department Details :

|                                          |                                              |  |
|------------------------------------------|----------------------------------------------|--|
| Name of the Faculty                      | Faculty of Aeronautical and Space Technology |  |
| Name of the HoD, Phone No. and E-mail ID | <b>S.Hari Kumar</b>                          |  |
| Year of Establishment                    | <b>2013</b>                                  |  |
| Telephone Number                         | <b>9894479897</b>                            |  |
| Website / E mail                         | <b>harikumar@niuniv.com</b>                  |  |

### 2. Details of Faculty Members :

| S. No. | Name of the Faculty | Qualification | Designation         | Specialisation      | Experience in years |          | E-mail ID &Phone/Cell Phone No.                                                     |
|--------|---------------------|---------------|---------------------|---------------------|---------------------|----------|-------------------------------------------------------------------------------------|
|        |                     |               |                     |                     | Teaching            | Research |                                                                                     |
| 1      | Dr.J.Benita         | M.E.,Ph.D.    | Assistant Professor | Communication       | 18                  | -        | <a href="mailto:beni.bless@gmail.com">beni.bless@gmail.com</a> / 9944378884         |
| 5      | S. HariKumar        | M.E.,         | Assistant Professor | Applied Electronics | 7                   |          | <a href="mailto:jas6508@gmail.com">jas6508@gmail.com</a> 9894479897                 |
| 6      | J.Anish             | M.E.,(Ph.D)   | Assistant Professor | Aeronautical        | 9                   | -        | <a href="mailto:anish88aero@gmail.com">anish88aero@gmail.com</a> 9952303947         |
| 7      | D.Sudhakar          | M.E.,         | Assistant Professor | Thermal Power Plant | 18                  | -        | <a href="mailto:dsudhakarpranav@gmail.com">dsudhakarpranav@gmail.com</a> 9442842041 |
| 8.     | Dr. Ninisha Nels    | M.E.,Ph.D     | Assistant Professor | Computer science    | 7                   | -        | <a href="mailto:sninishanel01@gmail.com">sninishanel01@gmail.com</a> 9489457153     |

### 3. Faculty Members Achievements / Performance:

| S. No. | Name              | h index |            | Publications |            | Citations |            | API   |            | M.Phil. awarded |            | Ph.D. awarded |            | Cumulative Scholars |       |
|--------|-------------------|---------|------------|--------------|------------|-----------|------------|-------|------------|-----------------|------------|---------------|------------|---------------------|-------|
|        |                   | 22-23   | Cumulative | 22-23        | Cumulative | 22-23     | Cumulative | 22-23 | Cumulative | 22-23           | Cumulative | 22-23         | Cumulative | M. Phil             | Ph.D. |
| 1      | Dr.J.Benita       | 1       | 1          | 3            | 7          | 4         | 13         | 275   | 307.5      | -               | -          | -             | -          | -                   | 4     |
| 2      | Dr.S.Ninisha Nels | -       | 2          | -            | 4          | -         | -          | 190   | 265        | -               | -          | -             | -          | -                   | -     |

#### 4.. Research Schemes/Projects undertaken : Nil

| S. No. | Name of the Principal Investigator | Funding Agency | Title of the Project | Duration |    | Amount Rs. |
|--------|------------------------------------|----------------|----------------------|----------|----|------------|
|        |                                    |                |                      | From     | To |            |
| 1      |                                    |                |                      |          |    |            |
| 2      |                                    |                |                      |          |    |            |

#### 5. a) Participation of the Faculty members, presentation of papers in Congresses/Conferences/Seminars/Workshops,Symposia, etc.

| S. No. | Name of the Faculty | Congress/Conference/Seminar /Workshop and Venue                                       | Title of the paper                                                 | Date                        |
|--------|---------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------|
| 1      | Mr.S.Harikumar      | International Conference on Emerging Technologies in Engineering and Applied sciences | A Survey on Patch Based texture synthesis techniques               | 13 <sup>th</sup> April 2023 |
| 2      | Dr.J.Benita         | International Conference on Emerging Technologies in Engineering and Applied sciences | OTCD – OFDM Techniques Challenges and Demands in Multiple Networks | 13 <sup>th</sup> April 2023 |

#### b) Foreign Faculty/Expert visit to the Department: Nil

| S. No. | Name & Designation | Institute | Country | Duration | Purpose |
|--------|--------------------|-----------|---------|----------|---------|
| 1      |                    |           |         |          |         |

#### 6. Faculty acted as Chief Guest, Key note Speakers, Resource Person, Chair Person, External experts, etc. : Nil

| S. No. | Name of the Faculty member | Role | Event | Title | Venue & Date |
|--------|----------------------------|------|-------|-------|--------------|
| 1      |                            |      |       |       |              |

#### 7. Details of Seminars, Conferences, Refresher courses, Webminars Organised :

| S. No. | Name of the Faculty member | Congress/Conference/Seminar/ Workshop/Symposia , Webmniars etc. organised | State/National/ International Level | Date                     |
|--------|----------------------------|---------------------------------------------------------------------------|-------------------------------------|--------------------------|
| 1      | Dr.S.Ninisha Nels          | International Seminar on Spacecraft Autonomy                              | Interntaional                       | 20-04-2023               |
| 2      | Dr.J.Benita                | Aircraft Infographics                                                     | State                               | 03-03-2023               |
| 3      | Dr.S.Ninisha Nels          | Functions of Material Management                                          | State                               | 08-03-2023               |
| 4      | Dr.S. Ninisha Nels         | Aircraft Technical Publication Training                                   | State                               | 27-03-2023 to 01-04-2023 |
| 5      | Dr.S. Ninisha Nels         | Vimaanz Utsav 2K23                                                        | State                               | 18-04-2023               |

**8. Publication of Research Papers at the State/National/International Levels:**

| S. No. | Author(s)                                    | Title of the paper                                                                                               | Journal with ISSN/Scopus /SCI/UGC care                                          | Volume No. Issue No. | Year of Publication | Page(pp)  |
|--------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------|---------------------|-----------|
| 1      | <b>Kiruba D G, Dr.J.Benita</b>               | Fuzzy based energy proficient secure clustered routing (FEPSRC) for IOT-MWSN                                     | Journal of Intelligent and Fuzzy Systems; 1875-8967                             | Volume 43 Issue:6    | November 2022       | 7633-7645 |
| 2      | <b>Karthick Kumar vaigandla, Dr.J.Benita</b> | Novel Algorithm for Nonlinear Distortion Reduction Based on Clipping and Compressive Sensing in OFDM/OQAM System | International Journal of Electrical and Electronics Research, 2347-470X         | Volume ;10 Issue ;3  | September 2022      | 620-626   |
| 3      | <b>Karthick Kumar vaigandla, Dr.J.Benita</b> | PRNGN - PAPR Reduction using Noise Validation and Genetic System on 5G Wireless Network                          | International Journal of Engineering Trends and Technology (IJETT); 2231 – 5381 | Volume:70 Issue:8    | August 2022         | 224-232   |

**9. Details of patents applied/awarded: Nil**

| S.No. | Name of the Faculty member | Title | Date of filling | Application No. | Award No. |
|-------|----------------------------|-------|-----------------|-----------------|-----------|
|       |                            |       |                 |                 |           |

**10. Publications of Books/Monographs: Nil**

| S. No. | Author(s) | Name of the Book with ISBN | Publisher/Place | Year |
|--------|-----------|----------------------------|-----------------|------|
| 1      |           |                            |                 |      |

### 11. Courses offered, Sanctioned Strength of Students and Enrolment details:

| S. NO. | Name of the Programme / Branch of study | Sancti oned Stren gth | Enrolment during 2022-23 |   | Total | Community |   |    |   |     |   |          |   |    |   |     |   |    |   | Existing Students, Strength |    |          |    |         |       |  |  | Pass Percenta ge of out going batch |
|--------|-----------------------------------------|-----------------------|--------------------------|---|-------|-----------|---|----|---|-----|---|----------|---|----|---|-----|---|----|---|-----------------------------|----|----------|----|---------|-------|--|--|-------------------------------------|
|        |                                         |                       | F                        | M |       | OC        |   | BC |   | BCM |   | MBC/ DNC |   | SC |   | SCA |   | ST |   | II year                     |    | III year |    | IV year |       |  |  |                                     |
|        |                                         |                       |                          |   |       | M         | F | M  | F | M   | F | M        | F | M  | F | M   | F | M  | F | M                           | F  | M        | F  | M       | F     |  |  |                                     |
|        | UG Programme                            | 60                    | -                        | 5 | 5     | 5         | - | -  | - | -   | - | -        | - | -  | - | -   | - | -  | 6 | -                           | 14 | 2        | 24 | 9       | 96.67 |  |  |                                     |
|        | PG Courses                              | -                     | -                        | - | -     | -         | - | -  | - | -   | - | -        | - | -  | - | -   | - | -  | - | -                           | -  | -        | -  | -       | -     |  |  |                                     |
|        | Ph.D Programme                          | -                     | -                        | - | -     | -         | - | -  | - | -   | - | -        | - | -  | - | -   | - | -  | - | -                           | -  | -        | -  | -       | -     |  |  |                                     |
|        | Diploma Certificate Courses (if any)    | -                     | -                        | - | -     | -         | - | -  | - | -   | - | -        | - | -  | - | -   | - | -  | - | -                           | -  | -        | -  | -       | -     |  |  |                                     |
|        | MOOC/NPTEL/UG C online courses offered  | -                     | -                        | - | -     | -         | - | -  | - | -   | - | -        | - | -  | - | -   | - | -  | - | -                           | -  | -        | -  | -       | -     |  |  |                                     |
|        | Total                                   | 60                    | -                        | 5 | 5     | 5         | - | -  | - | -   | - | -        | - | -  | - | -   | - | -  | 6 | -                           | 14 | 2        | 24 | 9       | 96.67 |  |  |                                     |

## 12. Enrolment of Students from Overseas and other States:

| S. No. | Degree and Subject | Nationality | State  | Number of Students |        | Total |
|--------|--------------------|-------------|--------|--------------------|--------|-------|
|        |                    |             |        | Male               | Female |       |
|        | B.E.,AME           | Indian      | Kerela | 4                  | -      | 4     |

## 13. U.G./P.G. and Research degrees awarded:

| S. No | UG |       | P.G. |       | M. Phil. |    |    |       | Ph.D. |    |    |       |
|-------|----|-------|------|-------|----------|----|----|-------|-------|----|----|-------|
|       | FT | Total |      | Total |          | FT | PT | Total |       | FT | PT | Total |
| 1     | 60 | 58    |      |       |          |    |    |       |       |    |    |       |

## 14. Fellowships Awarded (National/International) Faculty/Students Stipend awarded : Nil

| S. No. | Agency | Position (URF/JRF/SRF/RA/ others) | Number of Fellowships |   | Total |
|--------|--------|-----------------------------------|-----------------------|---|-------|
|        |        |                                   | M                     | F |       |
| 1      |        |                                   |                       |   |       |

## 15.Scholarships Awarded:

| S. No. | Nature of Scholarship                    | P.G. |   | M.Phil. |   | Ph.D. |   | Total Amount Rs. |
|--------|------------------------------------------|------|---|---------|---|-------|---|------------------|
|        |                                          | M    | F | M       | F | M     | F |                  |
| 1      | B.C.(State)                              | -    | - | -       | - | -     | - | -                |
| 2      | B.C.M.(State)                            | -    | - | -       | - | -     | - | -                |
| 3      | M.B.C./D.N.C.(State)                     | -    | - | -       | - | -     | - | -                |
| 4      | SC/SCA/ST(National)                      | -    | - | -       | - | -     | - | -                |
| 5      | SC/SCA/ST(State)                         | -    | - | -       | - | -     | - | -                |
| 6      | Management Scholar ship                  | -    | - | -       | - | -     | - | -                |
| 7      | Loan Scholarship                         | -    | - | -       | - | -     | - | -                |
| 8      | Moovalur Ramamirtham Ammaiyar Scheme     | -    | - | -       | - | -     | - | -                |
| 9      | 'Pudhumai Penn' (modern woman)           | -    | - | -       | - | -     | - | -                |
| 10     | Others ( please Specify the scholarship) | -    | - | -       | - | -     | - | -                |
|        | Total                                    | -    | - | -       | - | -     | - | -                |

## 16. Performance of the Students :

| S. No | Course    | S1   |      | S2   |      | S3   |      | S4   |      | S5   |      | S6   |      | S7   |      | S8   |      |
|-------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|       |           | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass |
| 1     | B.E., AME | 05   | 01   | 05   | 02   | 16   | 06   | 16   | 07   | 33   | 21   | 33   | 25   | 60   | 40   | 60   | 58   |

## 17. Placement Details:

| <b>Name of the Placement co-ordinator: Mr.D.Sudhakar</b>                   |                               |  |  |  |  |  |                            |  |  |        |  |  |
|----------------------------------------------------------------------------|-------------------------------|--|--|--|--|--|----------------------------|--|--|--------|--|--|
| <b>Phone/Mobile Number : 79049 53744 e-mail: dsudhakarpranav@gmail.com</b> |                               |  |  |  |  |  |                            |  |  |        |  |  |
| <b>Number of Placement Programmes:</b>                                     |                               |  |  |  |  |  |                            |  |  |        |  |  |
| S. No.                                                                     | Particulars                   |  |  |  |  |  | Numbers of students placed |  |  |        |  |  |
|                                                                            |                               |  |  |  |  |  | Male                       |  |  | Female |  |  |
| 1                                                                          | Number of Students Placed     |  |  |  |  |  | 3                          |  |  | -      |  |  |
| 2                                                                          | Number of Placements obtained |  |  |  |  |  | 3                          |  |  | -      |  |  |

|   |                                                                               |      |   |
|---|-------------------------------------------------------------------------------|------|---|
|   | through Campus Interview                                                      |      |   |
| 3 | Ratio of Placement to Students (Total no of Placement / Total no of Students) | 0.05 | - |

#### 18. Outstanding achievements by the Faculty Members: Nil

| S. No. | Name of the Faculty | Achievements | Agency |
|--------|---------------------|--------------|--------|
| 1      |                     |              |        |

#### 19. Outstanding achievements by Students:

| S.No. | Name of the Student     | Achievements | Agency               |
|-------|-------------------------|--------------|----------------------|
| 1     | Sakshi Chaubey          | Module Exam  | DGCA, Govt. of India |
| 2     | Prakar Awasthi          | Module Exam  | DGCA, Govt. of India |
| 3     | Shreya Mahata           | Module Exam  | DGCA, Govt. of India |
| 4     | Subhajith Panda         | Module Exam  | DGCA, Govt. of India |
| 5     | Yuvarai N               | Module Exam  | DGCA, Govt. of India |
| 6     | Koushitha C             | Module Exam  | DGCA, Govt. of India |
| 7     | Monisha T S             | Module Exam  | DGCA, Govt. of India |
| 8     | Ashlin Varsha A P       | Module Exam  | DGCA, Govt. of India |
| 9     | Aadith Rangan           | Module Exam  | DGCA, Govt. of India |
| 10    | Eswanthi M              | Module Exam  | DGCA, Govt. of India |
| 11    | Himani                  | Module Exam  | DGCA, Govt. of India |
| 12    | Keerthana I             | Module Exam  | DGCA, Govt. of India |
| 13    | Mohammed Suhail         | Module Exam  | DGCA, Govt. of India |
| 14    | Nitesh Kanta Nayak      | Module Exam  | DGCA, Govt. of India |
| 15    | Patrick Nihil Valavan A | Module Exam  | DGCA, Govt. of India |
| 16    | Aswin Krishna R         | Module Exam  | DGCA, Govt. of India |
| 17    | Vinayak Mohanan         | Module Exam  | DGCA, Govt. of India |
| 18    | Vimal Raj B             | Module Exam  | DGCA, Govt. of India |

#### 20. Department Meetings Held : BOS, Programme Committee, Course Committee etc.

| S.No | Name              | Date                                                 |  |
|------|-------------------|------------------------------------------------------|--|
| 1.   | Course Committee  | 21.03.2022<br>06.01.2023                             |  |
| 2    | BOS               | 02-07-2022; 23-2<br>2023                             |  |
| 3    | Program Committee | 18.08.2022<br>08.05.2022<br>10.01.2023<br>11.01.2023 |  |

#### 21. Infrastructure and Research facilities available (Please specify equipments more than Two Lakhs Only) : Nil

| S. No. | Name of the Lab | Name of the Equipments/Computer/Software/Others | Quantity | Purpose Research/Practical |
|--------|-----------------|-------------------------------------------------|----------|----------------------------|
|        |                 |                                                 |          |                            |

**22. Extension activities carried out : Nil**

| S. No. | Name of the Activity | Beneficiaries | Date | Venue |
|--------|----------------------|---------------|------|-------|
| 1      |                      |               |      |       |

**23. Department Library/Learning Resources/ Information and Language Lab:**

Name of the Librarian or Faculty in-charge of the Library: Ms.B.S.Sreedevi

| S. No. | Particulars                                                           | Nos.              | S. No. | Particulars                                         | Nos. |
|--------|-----------------------------------------------------------------------|-------------------|--------|-----------------------------------------------------|------|
| 1      | No. of books available                                                | 608               | 7      | No. of titles available                             | 188  |
| 2      | Books added during the year 2022-23                                   | -                 | 8      | No. of CDs and Digital Books available              | -    |
| 3      | No. of Indian Journals/Magazines                                      | -                 | 9      | No. of Foreign Magazines/Journals                   | -    |
| 4      | No. of data bases available                                           | -                 | 10     | No. of Online Journals                              | -    |
| 5      | Average No. of students visiting the Library per day                  | 30<br>100<br>Mbps | 11     | Average No. of books Issued per day                 | 1    |
|        |                                                                       |                   | 12     | No. of digital books                                | -    |
| 6      | Availability of Internet (Specify the Capacity) (e.g. – 8 Mbps etc.,) |                   | 13     | Availability of Language Lab                        | -    |
|        |                                                                       |                   | 14     | NDL membership<br>1. Faculty members<br>2. Students |      |

**24. Information and Communication Technology Resources: Nil**

| S. No. | Name of the Equipment | Specifications | Nos. | S. No. | Name of the Equipment | Specifications | Nos. |
|--------|-----------------------|----------------|------|--------|-----------------------|----------------|------|
|        |                       |                |      |        |                       |                |      |

**24.Collaborative Researches : Nil****25.Consultancies : Nil****26.No. of NET/SET/GATE/CSIR Qualified students: Nil****27. MOUs signed :**

| S.No | Date       | MoU signed with                                     | Number of Activities | Remarks          |
|------|------------|-----------------------------------------------------|----------------------|------------------|
| 1    | 27-03-2023 | Crynofist Design and Engineering Solutions Pvt Ltd. | 2                    | Wokshop; Seminar |

**28. Innovations and Best Practices : Nil****29. Academic Flexibility : Nil**

| S.No | Courses offered | Platform (MOOC, NPTEL, etc.) | No. Students enrolled | No. of Students Passed |
|------|-----------------|------------------------------|-----------------------|------------------------|
|      |                 |                              |                       |                        |

## NAME OF THE DEPARTMENT:AUTOMOBILE ENGINEERING

### 1. Department Details :

|                                          |                                                                                                               |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Name of the Faculty                      | Faculty of Mechanical Engineering                                                                             |
| Name of the HoD, Phone No. and E-mail ID | Dr. J.EDWIN RAJA DHAS<br>9443607104<br><a href="mailto:edwinrajadhas@niuniv.com">edwinrajadhas@niuniv.com</a> |
| Year of Establishment                    | 2009                                                                                                          |
| Telephone Number                         | 9486856101                                                                                                    |
| Website / E mail                         | <a href="http://www.niceindia.com">www.niceindia.com</a>                                                      |

### 2. Details of Faculty Members :

| S. No. | Name of the Faculty       | Qualification | Designation         | Specialisation            | Experience in years |          | E-mail ID &Phone/Cell Phone No.                                                              |
|--------|---------------------------|---------------|---------------------|---------------------------|---------------------|----------|----------------------------------------------------------------------------------------------|
|        |                           |               |                     |                           | Teaching            | Research |                                                                                              |
| 1      | Dr. J.Edwin Raja Dhas     | PhD           | Professor & Head    | Intelligent Manufacturing | 17                  | 1.5      | <a href="mailto:edwinrajadhas@rediffmail.com">edwinrajadhas@rediffmail.com</a><br>9443607104 |
| 2      | Dr. M. Edwin Sahayaraj    | PhD           | Associate Professor | Surface Engineering       | 21                  |          | <a href="mailto:ebishaoun@gmail.com">ebishaoun@gmail.com</a><br>9443734994                   |
| 3      | Mr. S. Robin Divahar      | PhD           | Associate Professor | Thermal                   | 16.6 years          |          | <a href="mailto:srobinn@yahoo.com">srobinn@yahoo.com</a><br>9944258801                       |
| 4      | Dr.Lalu Gladson Robin     | PhD           | Assistant Professor | Manufacturing             | 17.2                |          | <a href="mailto:lalu@niuniv.com">lalu@niuniv.com</a><br>9442707070                           |
| 5      | Dr. Stanly Jones Retnam.B | PhD           | Associate Professor | Composite Materials       | 13.5                |          | <a href="mailto:er.stanleybjones@yahoo.co.in">er.stanleybjones@yahoo.co.in</a><br>9443791408 |
| 6      | Darwins. A.K              | PhD           | Assistant Professor | Manufacturing             | 17.2                |          | <a href="mailto:akdarwins@gmail.com">akdarwins@gmail.com</a><br>9487657885                   |
| 7      | Peter F                   | PhD           | Assistant Professor | Manufacturing             | 1.0                 |          | <a href="mailto:Peter09@gmail.com">Peter09@gmail.com</a>                                     |

### 3. Faculty Members Achievements / Performance:

| S. No. | Name                      | h index |            | Publications |            | Citations |            | API   |            | M.Phil. awarded |            | Ph.D. awarded |            | Cumulative Scholars |       |
|--------|---------------------------|---------|------------|--------------|------------|-----------|------------|-------|------------|-----------------|------------|---------------|------------|---------------------|-------|
|        |                           | 22-23   | Cumulative | 22-23        | Cumulative | 22-23     | Cumulative | 22-23 | Cumulative | 22-23           | Cumulative | 22-23         | Cumulative | M. Phil             | Ph.D. |
| 1      | Dr. J.Edwin Raja Dhas     |         | 4          | 5            | 7          | 2         | 24         |       | 145        |                 |            | 3             | 4          |                     | 8     |
| 2      | Dr. Stanly Jones Retnam.B |         | 8          | 2            | 8          | 2         | 29         |       | 118        |                 |            |               |            |                     | 07    |

|          |                        |  |   |   |   |        |    |  |     |  |  |  |  |  |    |
|----------|------------------------|--|---|---|---|--------|----|--|-----|--|--|--|--|--|----|
| <b>3</b> | Dr. Robin Diwahar      |  | 2 | 3 | 7 | 1<br>1 | 17 |  | 119 |  |  |  |  |  | 02 |
| <b>4</b> | Dr. M. Edwin Sahayaraj |  | 4 | 5 | 8 | 9      | 21 |  | 121 |  |  |  |  |  | 01 |

#### 4.. Research Schemes/Projects undertaken :

| S. No. | Name of the Principal Investigator | Funding Agency | Title of the Project | Duration |    | Amount Rs. |
|--------|------------------------------------|----------------|----------------------|----------|----|------------|
|        |                                    |                |                      | From     | To |            |
| 1      |                                    |                |                      |          |    |            |

#### 5. a) Participation of the Faculty members, presentation of papers in Congresses/Conferences/Seminars/Workshops,Symposia, etc.

| S. No. | Name of the Faculty | Congress/Conference/Seminar /Workshop and Venue                                                                  | Title of the paper                                                                                   | Date                 |
|--------|---------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------|
| 1      | J.Edwin Raja Dhas   | Third International Conference on Intelligent computing, instrumentation and control technologies (icicict-2022) | Forecasting of weld parameters by soft computing techniques                                          | Aug 11th & 12th 2022 |
| 2      | J.Edwin Raja Dhas   | Materials Today: Proceedings                                                                                     | Opposition based genetic optimization algorithm with Cauchy mutation for job shop scheduling problem | July 11 th 2022      |

#### b) Foreign Faculty/Expert visit to the Department:

| S. No. | Name & Designation | Institute | Country | Duration | Purpose |
|--------|--------------------|-----------|---------|----------|---------|
| 1      |                    |           |         |          |         |
| 2      |                    |           |         |          |         |

#### 6. Faculty acted as Chief Guest, Key note Speakers, Resource Person, Chair Person, External experts, etc. :

| S. No. | Name of the Faculty member | Role | Event | Title | Venue & Date |
|--------|----------------------------|------|-------|-------|--------------|
| 1      |                            |      |       |       |              |

### 7. Details of Seminars, Conferences, Refresher courses, Webinars Organised :

| S. No. | Name of the Faculty member | Congress/Conference/Seminar/ Workshop/Symposia , Webinars etc. organised | State/National/ International Level | Date                       |
|--------|----------------------------|--------------------------------------------------------------------------|-------------------------------------|----------------------------|
|        | J. Edwin Raja Dhas         | <i>DEVELOPMENT OF PINEAPPLE LEAF FIBRE REINFORCED GREEN COMPOSITES</i>   | International                       | 16 <sup>th</sup> Aug 2022. |

### 8. Publication of Research Papers at the State/National/International Levels:

| S. No. | Author(s)          | Title of the paper                                                                                             | Journal with ISSN/Scopus /SCI/UGC care | Volume No. Issue No. | Year of Publication | Page(pp)  |
|--------|--------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------|---------------------|-----------|
| 1      | J. Edwin Raja Dhas | Development of Taguchi based Grey Relational Analysis for FSW Parametric Optimization on AZ31B Magnesium Alloy | Int. J. Vehicle Structures & Systems,  | 12(3),               | 2022.               | 70-76     |
| 2      | J. Edwin Raja Dhas | ASTM /ASME standards comparison on UTS of Friction stir welded Magnesium alloys                                | Solid State Technology                 | <b>63(5)</b>         | 2022                | 4789-4798 |
| 3      | J. Edwin Raja Dhas | Influence of Temperature on Mechanical and Microstructural Properties during FSW of Magnesium Alloys           | Journal of Green Engineering           | Volume-10, Issue-9,  | September 2022      | 6541-6560 |

### 9. Details of patents applied/awarded:

| S.No. | Name of the Faculty member | Title | Date of filling | Application No. | Award No. |
|-------|----------------------------|-------|-----------------|-----------------|-----------|
|       |                            |       |                 |                 |           |

### 10. Publications of Books/Monographs:

| S. No. | Author(s) | Name of the Book with ISBN | Publisher/Place | Year |
|--------|-----------|----------------------------|-----------------|------|
| 1      |           |                            |                 |      |

### 11. Courses offered, Sanctioned Strength of Students and Enrolment details:

| S. NO. | Name of the Programme / Branch of study | Sancti oned Stren gth | Enrolment during 2022-23 |   | Total | Community |   |    |   |     |   |          |   |    |   |     |   |    |   | Existing Students, Strength |    |          |    |         |      |   |   | Pass Percenta ge of out going batch |
|--------|-----------------------------------------|-----------------------|--------------------------|---|-------|-----------|---|----|---|-----|---|----------|---|----|---|-----|---|----|---|-----------------------------|----|----------|----|---------|------|---|---|-------------------------------------|
|        |                                         |                       | F                        | M |       | OC        |   | BC |   | BCM |   | MBC/ DNC |   | SC |   | SCA |   | ST |   | II year                     |    | III year |    | IV year |      |   |   |                                     |
|        |                                         |                       |                          |   |       | M         | F | M  | F | M   | F | M        | F | M  | F | M   | F | M  | F | M                           | F  | M        | F  | M       | F    | M | F |                                     |
|        | UG Programme                            | 30                    | 0                        | 5 |       | 1         |   | 3  |   | 1   |   |          |   |    |   |     |   |    | 9 | 0                           | 24 | 0        | 28 | 0       | 48%  |   |   |                                     |
|        | PG Courses                              | 12                    | 1                        | 3 |       | 0         |   | 4  |   | 1   |   |          |   |    |   |     |   |    | 1 |                             |    |          |    |         | 100% |   |   |                                     |
|        | Ph.D Programme                          |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |    |          |    |         |      |   |   |                                     |
|        | Diploma Certificate Courses (if any)    |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |    |          |    |         |      |   |   |                                     |
|        | MOOC/NPTEL/UG C online courses offered  |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |    |          |    |         |      |   |   |                                     |
|        | Total                                   | 42                    |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |    |          |    |         |      |   |   |                                     |

## 12. Enrolment of Students from Overseas and other States:

| S. No. | Degree and Subject | Nationality | State | Number of Students |        | Total |
|--------|--------------------|-------------|-------|--------------------|--------|-------|
|        |                    |             |       | Male               | Female |       |
|        |                    |             |       |                    |        |       |

## 13. U.G./P.G. and Research degrees awarded:

| S. No | UG |       | P.G. |       | M. Phil. |    |    |       | Ph.D. |    |    |       |
|-------|----|-------|------|-------|----------|----|----|-------|-------|----|----|-------|
|       |    | Total |      | Total |          | FT | PT | Total |       | FT | PT | Total |
|       | 13 | 11    | 5    | 3     |          |    |    |       |       |    | 1  | 1     |

## 14. Fellowships Awarded (National/International) Faculty/Students Stipend awarded :

| S. No. | Agency | Position (URF/JRF/SRF/RA/others) | Number of Fellowships |   | Total |
|--------|--------|----------------------------------|-----------------------|---|-------|
|        |        |                                  | M                     | F |       |
| 1      |        |                                  |                       |   |       |

## 15.Scholarships Awarded:

| S. No. | Nature of Scholarship                    | P.G. |   | M.Phil. |   | Ph.D. |   | Total Amount Rs. |
|--------|------------------------------------------|------|---|---------|---|-------|---|------------------|
|        |                                          | M    | F | M       | F | M     | F |                  |
| 1      | B.C.(State)                              |      |   |         |   |       |   |                  |
| 2      | B.C.M.(State)                            |      |   |         |   |       |   |                  |
| 3      | M.B.C./D.N.C.(State)                     |      |   |         |   |       |   |                  |
| 4      | SC/SCA/ST(National)                      |      |   |         |   |       |   |                  |
| 5      | SC/SCA/ST(State)                         |      |   |         |   |       |   |                  |
| 6      | Management Scholar ship                  |      |   |         |   |       |   |                  |
| 7      | Loan Scholarship                         |      |   |         |   |       |   |                  |
| 8      | Moovalur Ramamirtham Ammaiyar Scheme     |      |   |         |   |       |   |                  |
| 9      | 'Pudhumai Penn' (modern woman)           |      |   |         |   |       |   |                  |
| 10     | Others ( please Specify the scholarship) |      |   |         |   |       |   |                  |
|        | Total                                    |      |   |         |   |       |   |                  |

## 16. Performance of the Students :

| S. No | Course | S1   |      | S2   |      | S3   |      | S4   |      | S5   |      | S6   |      | S7   |      | S8   |      |
|-------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|       |        | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass |
|       |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

## 17. Placement Details:

| Name of the Placement co-ordinator: Dr.A.K.Darwins          |                                                        |  |  |  |  |                            |  |  |        |  |  |  |
|-------------------------------------------------------------|--------------------------------------------------------|--|--|--|--|----------------------------|--|--|--------|--|--|--|
| Phone/Mobile Number :e-mail:9487657885, akdarwins@gmail.com |                                                        |  |  |  |  |                            |  |  |        |  |  |  |
| Number of Placement Programmes:                             |                                                        |  |  |  |  |                            |  |  |        |  |  |  |
| S. No.                                                      | Particulars                                            |  |  |  |  | Numbers of students placed |  |  |        |  |  |  |
|                                                             |                                                        |  |  |  |  | Male                       |  |  | Female |  |  |  |
| 1                                                           | Number of Students Placed                              |  |  |  |  | 10                         |  |  |        |  |  |  |
| 2                                                           | Number of Placements obtained through Campus Interview |  |  |  |  | 7                          |  |  |        |  |  |  |

|   |                                                                               |      |  |
|---|-------------------------------------------------------------------------------|------|--|
| 3 | Ratio of Placement to Students (Total no of Placement / Total no of Students) | 7:10 |  |
|---|-------------------------------------------------------------------------------|------|--|

#### 18. Outstanding achievements by the Faculty Members:

| S. No. | Name of the Faculty | Achievements | Agency |
|--------|---------------------|--------------|--------|
| 1      |                     |              |        |

#### 19. Outstanding achievements by Students:

| S.No. | Name of the Student | Achievements | Agency |
|-------|---------------------|--------------|--------|
| 1     |                     |              |        |

#### 20. Department Meetings Held : BOS,Programme Committee, Course Committee etc.

| S.No | Name                                         | Date                                                                                                                                           |  |
|------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1.   | Course Committee<br>Programme Committee etc. | 25 <sup>th</sup> July 2022<br>29 <sup>th</sup> Aug 2022<br>18 <sup>th</sup> Oct 2022<br>15 <sup>th</sup> Nov 2022<br>23 <sup>rd</sup> Sep 2022 |  |

#### 21. Infrastructure and Research facilities available (Please specify equipments more than Two Lakhs Only) :

| S. No. | Name of the Lab | Name of the Equipments/Computer/Software/Others | Quantity | Purpose Research/Practical |
|--------|-----------------|-------------------------------------------------|----------|----------------------------|
|        |                 |                                                 |          |                            |

#### 22. Extension activities carried out :

| S. No. | Name of the Activity | Beneficiaries | Date | Venue |
|--------|----------------------|---------------|------|-------|
| 1      |                      |               |      |       |

#### 23. Department Library/Learning Resources/ Information and Language Lab:

Name of the Librarian or Faculty in-charge of the Library:

| S. No. | Particulars                                                           | Nos. | S. No. | Particulars                                         | Nos. |
|--------|-----------------------------------------------------------------------|------|--------|-----------------------------------------------------|------|
| 1      | No. of books available                                                | 948  | 7      | No. of titles available                             |      |
| 2      | Books added during the year 2022-23                                   | 27   | 8      | No. of CDs and Digital Books Available              | 10   |
| 3      | No. of Indian Journals/Magazines                                      |      | 9      | No. of Foreign Magazines/Journals                   |      |
| 4      | No. of data bases available                                           |      | 10     | No. of Online Journals                              |      |
| 5      | Average No. of students visiting the Library per day                  |      | 11     | Average No. of books Issued per day                 |      |
|        |                                                                       |      | 12     | No. of digital books                                |      |
| 6      | Availability of Internet (Specify the Capacity) (e.g. – 8 Mbps etc.,) |      | 13     | Availability of Language Lab                        |      |
|        |                                                                       |      | 14     | NDL membership<br>1. Faculty members<br>2. Students |      |

**24. Information and Communication Technology Resources:**

| S. No. | Name of the Equipment | Specifications | Nos. | S. No. | Name of the Equipment | Specifications | Nos. |
|--------|-----------------------|----------------|------|--------|-----------------------|----------------|------|
|        |                       |                |      |        |                       |                |      |

**24.Collaborative Researches :****25.Consultancies :****26.No. of NET/SET/GATE/CSIR Qualified students:****27. MOUs signed :**

| S.No | Date       | MoU signed with       | Number of Activities | Remarks |
|------|------------|-----------------------|----------------------|---------|
| 1    | 19-10-2022 | SEMSY Automobiles     | 2                    |         |
| 2    | 05-09-2022 | Arya Motors           | 1                    |         |
| 3    | 18-11-2022 | Kallingal Automobiles | 1                    |         |

**28. Innovations and Best Practices :****29. Academic Flexibility :**

| S.No | Courses offered | Platform (MOOC, NPTEL, etc.) | No. Students enrolled | No. of Students Passed |
|------|-----------------|------------------------------|-----------------------|------------------------|
|      |                 |                              |                       |                        |

## NAME OF THE DEPARTMENT: ALLIED HEALTH SCIENCES

### 1. Department Details :

|                                             |                                                                                                                                                                                                                               |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of the Faculty                         | <b>Allied Health Sciences</b>                                                                                                                                                                                                 |
| Name of the HoD,<br>Phone No. and E-mail ID | <b>Dr.G.Arockia Selva Saroja</b><br><b>9443693268</b><br><a href="mailto:arockiaselvasaroja@niuniv.com">arockiaselvasaroja@niuniv.com</a> ,<br><a href="mailto:aroseg@yahoo.com">aroseg@yahoo.com</a>                         |
| Year of Establishment                       | <b>2019</b>                                                                                                                                                                                                                   |
| Telephone Number                            | <b>04651 250566</b>                                                                                                                                                                                                           |
| Website / E mail                            | <b>Website:</b> <a href="http://www.niuniv.com/departament.php?of=allied-health-sciencealliedhealthsciencesniu@gmail.com">http://www.niuniv.com/departament.php?of=allied-health-sciencealliedhealthsciencesniu@gmail.com</a> |

### 2. Details of Faculty Members :

| S . N o. | Name of the Faculty       | Qualifi-<br>cation             | Designati<br>on           | Speciali<br>sation     | Experience in<br>years |                | E-mail ID<br>&Phone/Cell<br>Phone No.                                                        |
|----------|---------------------------|--------------------------------|---------------------------|------------------------|------------------------|----------------|----------------------------------------------------------------------------------------------|
|          |                           |                                |                           |                        | teaching               | research       |                                                                                              |
| 1.       | Dr.Arockia Selva Saroja G | B.E., M.E.<br>Ph.D             | Associate Professor & HOD | Image Processing       | 24 Years 8 Months      | 18             | <a href="mailto:aroseg@yahoo.com">aroseg@yahoo.com</a><br>9443693268                         |
| 2.       | Mrs. Janu J P             | M.Sc.,<br>M.Phil.,             | Assistant Professor       | Bioinformatics         | 6 Years                |                | <a href="mailto:janubioinformatics@gmail.com">janubioinformatics@gmail.com</a><br>9944731631 |
| 3.       | Dr. Raja Brindha J        | M.Sc.,M.Phil.,<br>Ph.D., M.B.A | Assistant Professor       | Microbiol<br>ogy       | 20 Years 5 Months      | 4              | <a href="mailto:brindhasubin@gmail.com">brindhasubin@gmail.com</a><br>9751145788             |
| 4.       | Dr. Packia Lekshmi N C J  | M.Sc,<br>M.Phil.,Ph.D          | Assistant Professor       | Microbiol<br>ogy       | 20Years 5 Months       | 5              | <a href="mailto:Packia_3779@yahoo.co.in">Packia_3779@yahoo.co.in</a><br>9442076248           |
| 5.       | Dr. Munnu Das J           | B.H.M.S.,<br>M.S.,             | Assistant Professor       | Emergenc<br>y Medicine | 9 Years 5 Months       | -              | munnudj@gmail.com<br>8921658310                                                              |
| 6.       | Mrs. Bushra Beevi R       | M.Sc.,                         | Assistant Professor       | Biochemis<br>try       | 3 Years 10 Months      | -              | arifbushra4444@gmail.com<br>9895136157                                                       |
| 7.       | Dr. Gokul Gopi            | B.D.S.,                        | Assistant Professor       | Dental Surgery         | 5Years 2 Months        | -              | gokulgopi555@gmail.com<br>9495944774                                                         |
| 8.       | Mrs. Subha T              | M.Sc, M.Phil.,<br>Ph.D         | Assistant Professor       | Biotechno<br>logy      | 12 Years 10 Months     |                | <a href="mailto:subhabio86@gmail.com">subhabio86@gmail.com</a><br>9047393207                 |
| 9.       | Dr. Shabi Ruskin R        | M.Sc,<br>M.Phil.,Ph.D          | Assistant Professor       | Biotechnl<br>ogy       | 15 Years 5 Months      | 6<br>Yea<br>rs | <a href="mailto:rshabiruskin@yahoo.com">rshabiruskin@yahoo.com</a><br>9865823925             |

|     |                       |                                |                       |                                  |                          |   |                                                                                                                                                            |
|-----|-----------------------|--------------------------------|-----------------------|----------------------------------|--------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10. | Mrs. Bismi N          | M.Sc(N).,                      | Assistant Professor   | Child Health Nursing             | 2 Years 12 Months        | - | <a href="mailto:nimyaip96@gmail.com">nimyaip96@gmail.com</a><br>9538271113<br><a href="mailto:bismiwilfred95280@gmail.com">bismiwilfred95280@gmail.com</a> |
| 11. | Ms. Usha D            | M.Sc(N).,                      | Assistant Professor   | Child Health Nursing             | 20 Years                 | - | 8675089108<br>stalinjonesaril@gmail.com                                                                                                                    |
| 12. | Ms. Kuttimalu P M     | B.Sc (PT).,                    | Perfusionist          | Perfusion Technology             | 3 Years                  | - | kuttimalurafik@gmail.com<br>8921065548                                                                                                                     |
| 13. | Ms. Vijaitha V Soonan | B.ASLP, M.Sc (SLP)             | Assistant Professor   | Speech Language Pathology        | 9.2 Years                |   | <a href="mailto:Vijaitha.son@gmail.com">Vijaitha.son@gmail.com</a><br>9745868351                                                                           |
| 14. | Ms. Nimya Joseph      | M.A                            | Assistant Professor   | Linguistics                      | 4 Years 8 Months         | - | <a href="mailto:nimyaip96@gmail.com">nimyaip96@gmail.com</a><br>9538271113                                                                                 |
| 15. | Mrs. Lydia            | B.ASLP, M.Sc (Speech Language) | Assistant Professor   | ASLP                             | 2Years 6months           |   | 8746916305<br>slplydia@gmail.com                                                                                                                           |
| 16. | Ms. Melvin Praisay    | M. ASLP                        | Assistant Professor   | ASLP                             | 3Years 6months           | 1 | 6369450863<br>melvinpraisay06@gmail.com                                                                                                                    |
| 17. | Ms. Manisha M         | M.Sc.,                         | Teaching Assistant    | Biotechnology                    | 3Years                   | - | <a href="mailto:manishanisha807@gmail.com">manishanisha807@gmail.com</a><br>7339451206                                                                     |
| 18. | Ms. Ragi D S          | M.Sc.,                         | Teaching Assistant    | Forensic Science                 | 1 Year 4 Months          | - | <a href="mailto:ragids98@gmail.com">ragids98@gmail.com</a><br>9207261685                                                                                   |
| 19. | Ms. Souparnika P C    | M.Sc.,                         | Teaching Assistant    | Criminology and Forensic Science | 3.5 Years                |   | Souparnikakpoduval96@gmail.com                                                                                                                             |
| 20. | Ms. Divya K M         | M.Sc.,                         | Teaching Assistant    | Criminology and Forensic Science | 1 Year                   |   | 8431772737<br>divya.km737@gmail.com                                                                                                                        |
| 21. | Ms. Reshma Nair A     | B.ASLP, M.ASLP                 | Audiologist Grade - I | Audiology                        | 9 Months T<br>4 Months C |   | reshmaavanish@gmail.com<br>8300366916                                                                                                                      |
| 22. | Ms. Pooja Arvind      | M.Sc.,(PT)                     | Teaching Assistant    | Perfusion                        | 8 Months                 |   | Poojaaravind1995@gmail.com                                                                                                                                 |
| 23. | Mrs. Sermi Jiju Y     | M.Sc(N).,                      | Teaching Assistant    | OBG                              | 5 Months                 | - | 867129080<br>sermijose@gmail.com                                                                                                                           |
| 24. | Mrs. Jini S V         | B.Sc(N).,                      | Teaching Assistant    | Nursing                          | 7 years                  |   | 8754139734<br>jinisvjini311@gmail.com                                                                                                                      |

### 3. Faculty Members Achievements /Performance:

| S. No. | Name                        | h index |            | Publications |            | Citations |            | API   |            | M.Phil. awarded |            | Ph.D. awarded |            | Cumulative Scholars |        |
|--------|-----------------------------|---------|------------|--------------|------------|-----------|------------|-------|------------|-----------------|------------|---------------|------------|---------------------|--------|
|        |                             | 22-23   | Cumulative | 22-23        | Cumulative | 22-23     | Cumulative | 22-23 | Cumulative | 22-23           | Cumulative | 22-23         | Cumulative | M. Phil             | Ph. D. |
| 1      | Dr. G. Arockia Selva Saroja |         | 3          | 9            | 20         |           | 34         | 172   |            |                 |            | 1             | 1          |                     | 5      |
| 2      | Mrs. Janu J P               |         |            |              |            |           |            | 176   |            |                 |            |               |            |                     |        |
| 3      | Dr. Raja Brindha J          |         | 9          | 1            | 28         |           |            | 240   |            |                 |            |               |            |                     |        |
| 4      | Dr. Packia Lekshmi N C J    |         | 10         | 2            | 38         |           | 392        | 275   |            |                 |            |               |            |                     |        |
| 5      | Dr. Munnu Das J             |         |            |              |            |           |            | 150   |            |                 |            |               |            |                     |        |
| 6      | Mrs. Bushra Beevi R         |         |            |              |            |           |            | 180   |            |                 |            |               |            |                     |        |
| 7      | Dr. Gokul Gopi              |         |            |              |            |           |            | 150   |            |                 |            |               |            |                     |        |
| 8      | Mrs. Subha T                |         |            |              |            |           |            | 237   |            |                 |            |               |            |                     |        |
| 9      | Dr. Shabi Ruskin R          |         |            |              |            |           |            | 227   |            |                 |            |               |            |                     |        |
| 10     | Ms. Usha D                  |         |            |              |            |           |            | 150   |            |                 |            |               |            |                     |        |
| 11     | Ms. Kuttimalu P M           |         |            |              |            |           |            | 150   |            |                 |            |               |            |                     |        |
| 12     | Ms. Vijaitha V Soonan       |         |            |              |            |           |            | 150   |            |                 |            |               |            |                     |        |
| 13     | Ms. Nimya Joseph            |         |            |              |            |           |            | 162   |            |                 |            |               |            |                     |        |
| 14     | Mrs.. Lydia                 |         |            |              |            |           |            | 150   |            |                 |            |               |            |                     |        |
| 15     | Ms. Melvin Praisy           |         |            |              |            |           |            | 150   |            |                 |            |               |            |                     |        |
| 16     | Ms. Manisha M               |         |            |              |            |           |            | 160   |            |                 |            |               |            |                     |        |
| 17     | Ms. Ragi D S                |         |            |              |            |           |            | 150   |            |                 |            |               |            |                     |        |

|    |                    |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|----|--------------------|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|
| 18 | Ms. Souparnika P C |  |  |  |  |  |  | 150 |  |  |  |  |  |  |  |
| 19 | Ms. Divya K M      |  |  |  |  |  |  | 150 |  |  |  |  |  |  |  |
| 20 | Ms. Reshma Nair A  |  |  |  |  |  |  | 150 |  |  |  |  |  |  |  |
| 21 | Ms. Pooja Arvind   |  |  |  |  |  |  | 120 |  |  |  |  |  |  |  |
| 22 | Mrs. Sermi Jiju Y  |  |  |  |  |  |  | 150 |  |  |  |  |  |  |  |
| 23 | Mrs. Jini S V      |  |  |  |  |  |  | 150 |  |  |  |  |  |  |  |

#### 4.. Research Schemes/Projects undertaken :

| S. No. | Name of the Principal Investigator | Funding Agency                  | Title of the Project                                                                                                                | Duration  |           | Amount Rs.  |
|--------|------------------------------------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|-------------|
|        |                                    |                                 |                                                                                                                                     | From      | To        |             |
| 1      | Dr.Aneesh Nair                     | State Forest Research Institute | Integrated Rhizosphere Microbiomics and phytopharmacology based fingerprinting approach towards mangrove conservation in Tamil Nadu | 2022-2023 | 2023-2024 | Rs.784000/- |

#### 5. a) Participation of the Faculty members, presentation of papers in Congresses/Conferences/Seminars/Workshops, Symposia, etc.

| S. No. | Name of the Faculty | Congress/Conference/ Seminar /Workshop and Venue                                                                                      | Title of the paper                                                                                     | Date                                             |
|--------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 1      | Mrs.J.P.Janu        | National Seminar on Antimicrobial Resistance in the Environment –A silent Pandemic, Scott Christian College ,Nagercoil                | In silico drug designing for herpes xoster infection using antiviral compounds from Glycyrrhiza glabra | April 10 <sup>th</sup> 2023                      |
| 2      | Dr.J.Raja Brindha   | International Conference on Biotechnological Trends For a Sustainable Future. Department of Biotechnology, American College, Madurai. | Production and characterization of biosurfactant from bacterial isolates                               | 30 <sup>th</sup> & 31 <sup>st</sup> January 2023 |
| 3      | Dr.J.Raja Brindha   | National Seminar on Antimicrobial Resistance in the Environment –A silent Pandemic, Scott Christian College ,Nagercoil                | Production and characterization of extracellular tannase from bacterial isolates                       | April 10 <sup>th</sup> 2023                      |

|    |                         |                                                                                                                                                                     |                                                                                                                                  |                             |
|----|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| 4  | Dr.N.C.J.Packia Lekshmi | National Seminar on Antimicrobial Resistance in the Environment –A silent Pandemic, Scott Christian College ,Nagercoil                                              | Antagonistic activity of the endophytic fungus isolated from mangrove plants of Managudi coast                                   | April 10 <sup>th</sup> 2023 |
| 5  | Mrs.R.Bushra Beevi      | National Seminar on Antimicrobial Resistance in the Environment –A silent Pandemic, Scott Christian College ,Nagercoil                                              | Insilico drug designing for herpes xoster infection using antiviral compounds from Glycyrrhiza glabra                            | April 10 <sup>th</sup> 2023 |
| 6  | Mrs.T.Subha             | Multidisciplinary approach on concervation of natural and traditional Ayush medicine, William Research centreNagercoil                                              | Purification and Characterisation of novel fibrinolytic enzyme from bacterial sp. Isolated from the soil waste of poultry house. | 12-13 th Dec 2022           |
| 7  | Mrs.T.Subha             | Recent trends in pharmacology and role of genomicsin Pharmaceutical sciences ,S.A Raja Pharmacy collegeTirunelveli                                                  | Applications of fibrinolytic enzymes in Pharmaceutical Industries.                                                               | Dec 14 <sup>th</sup> 2022   |
| 8  | Mrs.T.Subha             | National conference Chemical Biological and medicinal Sciences ,PG and research department of Biochemistry,ThanthaiPeriyar Arts and Science College,Thiruchirappali |                                                                                                                                  | March 7 <sup>th</sup> 2023  |
| 9  | Mrs.T.Subha             | National Seminar on Antimicrobial Resistance in the Environment –A silent Pandemic, Scott Christian College ,Nagercoil                                              | Characterisation of novel fibrinolytic enzyme from bacterial sp. isolated from the soil waste of poultry house                   | April 10 <sup>th</sup> 2023 |
| 10 | Dr.R.Shabi Ruskin       | Recent trends in pharmacology and role of genomicsin Pharmaceutical sciences ,S.A Raja Pharmacy collegeTirunelveli                                                  |                                                                                                                                  | Dec 14 <sup>th</sup> 2022   |

**b) Foreign Faculty/Expert visit to the Department:**

| S. No. | Name & Designation | Institute | Country | Duration | Purpose |
|--------|--------------------|-----------|---------|----------|---------|
| 1      |                    |           |         |          |         |
| 2      |                    |           |         |          |         |

**6. Faculty acted as Chief Guest, Key note Speakers, Resource Person, Chair Person, External experts, etc. :**

| S. No. | Name of the Faculty member | Role            | Event                                                                                                     | Title                                                         | Venue & Date                                               |
|--------|----------------------------|-----------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------|
| 1      | Dr.N.C.J.Packia Lekshmi    | Resource person | Innovation Ambassador talk                                                                                | Invention vs Innovation                                       | Noorul Islam Centre for Higher Education on 13.10.2022     |
| 2      | Dr.N.C.J.Packia Lekshmi    | Resource Person | World Creativity and Innovation day celebration                                                           | Step out and Innovate                                         | Noorul Islam Centre for Higher Education on 20.04.2023     |
| 3      | Dr.N.C.J.Packia Lekshmi    | Resource Person | Workshop                                                                                                  | Design Thinking, Critical Thinking and Innovation design      | Holy Cross College (Autonomous) Nagercoil on 27.01.2023    |
| 4      | Dr.N.C.J.Packia Lekshmi    | Resource Person | Workshop                                                                                                  | Prototype/ Process Design and Development                     | Holy Cross College (Autonomous) Nagercoil on 05.04.2023    |
| 5      | Dr.N.C.J.Packia Lekshmi    | Resource Person | International Conference on Biotechnological Trends For a Sustainable Future. Department of Biotechnology | Artificial Intelligence in Biotechnology for sustainable life | The American College, Madurai on 30.01.2023 and 31.01.2023 |
| 6      | Dr.N.C.J.Packia Lekshmi    | Resource Person | Outreach Program in School                                                                                | Innovation in technology                                      | St.Stella Matriculation School. Anjugramam on 27.02.2023   |

**7. Details of Seminars, Conferences, Refresher courses, Webinars Organised:**

| S. No. | Name of the Faculty member           | Congress/Conference/Seminar/ Workshop/Symposia , Webinars etc. organised | State/National/ International Level | Date       |
|--------|--------------------------------------|--------------------------------------------------------------------------|-------------------------------------|------------|
| 1.     | Department Of Allied Health Sciences | Hands on Workshop in Cyber Forensics                                     | National                            | 24.03.2023 |

### 8. Publication of Research Papers at the State/National/International Levels:

| S. No. | Author(s)                  | Title of the paper                                                                                                    | Journal with ISSN/Scopus /SCI/UGC care                                             | Volume No. Issue No. | Year of Publication | Page(pp) |
|--------|----------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------|---------------------|----------|
| 1      | Dr.G. Arockia Selva Saroja | Deep Learning-Based Hexrep Neural Network for Convergence Free with Operator's Efficacy in Hexagonal Image Processing | International Journal of Image and Graphics , 1793-675,Scopus                      |                      | 2022                |          |
| 2      | Dr.G. Arockia Selva Saroja | Computational Simulation of Human Fovea                                                                               | International Journal of Signal and Imaging Systems Engineering, 1748-0701, Scopus |                      | 2022                |          |
| 3      | Dr.G. Arockia Selva Saroja | An Efficient Hexagonal Image Framework Using Pseudo Hexagonal Pixel for Computer Vision Application                   | Journal of Intelligent & Fuzzy Systems, 1064-1246 / 1875-8967, Scopus              |                      | 2022                |          |
| 4      | Dr.G. Arockia Selva Saroja | A Novel Hexagonal Psuedo Framework for Edge Detection Operators on Hexagonal Framework                                | International Journal of Electrical and Electronics Research, 2347-470X, Scopus    |                      | 2022                |          |
| 5      | Dr.G. Arockia Selva Saroja | Investigation of Novel Hexagonal Image Grid Processing for Different Computer Vision Applications                     | Journal of Semiconduct or Optoelectronics, 1001-5868, Scopus                       |                      | 2022                |          |

| S. No. | Author(s)                                   | Title of the paper                                                                                                                                   | Journal with ISSN/Scopus /SCI/UGC care                                    | Volume No. Issue No. | Year of Publication | Page(pp)  |
|--------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------|---------------------|-----------|
| 6      | Dr.G. Arockia Selva Saroja                  | Landslide Identification Using Optimized Deep Learning Framework Through Data Routing in IoT Application                                             | International Journal of Information Technology and Decision Makingt, SCI |                      | 2023                |           |
| 7      | Dr.G. Arockia Selva Saroja                  | Landslide identification using water cycle particle swarm optimization-based deep generative adversarial network                                     | Concurrency and Computation Practice and Experience, S CI                 |                      | 2023                |           |
| 8      | Dr.J.Raja Brindha & Dr.N.C.J.Packia Lekshmi | Influence of Abiotic Factors on Coir Retting Process                                                                                                 | Current Applied Science and Technology, 2586-9396, Scopus                 | 23/02                | 2023                | 1-13      |
| 9.     | Dr.N.C.J.Packia lekshmi                     | Studies on crystal growth, experimental, structural, DFT, optical, thermal and biological studies of 3-hydroxy-4-methoxybenzaldehyde single crystals | Heliyon, 2405-8440, Web of Science, Scopus                                | 9/4                  | 2023                | 1-18      |
| 10.    | Mrs.T.Subha                                 | Biomedical analysis of fibrinolytic enzyme produced by microorganism from poultry farm ., an invitro study                                           | International Journal of food and Nutritional Sciences, 2319 1775, UGC    | 11/11                | 2022                | 1880-1890 |
| 11     | Dr.R.Shabi Ruskin                           | Tracking the red alarms of metabolic                                                                                                                 | International Journal of Life Science                                     | 3/2                  | 2022                | 086-089   |

| S. No. | Author(s)         | Title of the paper                                                                                  | Journal with ISSN/Scopus /SCI/UGC care                                      | Volume No. Issue No. | Year of Publication | Page(pp)  |
|--------|-------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------|---------------------|-----------|
|        |                   | syndrome                                                                                            | Research Archive, 0799-6640, Scopus                                         |                      |                     |           |
| 12     | Dr.R.Shabi Ruskin | Isoimperatorin Impacts On Propagation And Programmed Cell Death Of Human Gastric Cancer Cells       | European Journal of Molecular & Clinical Medicine 2515-8260, Web of Science | 10/01                | 2023                | 3657-3663 |
| 13     | Dr.R.Shabi Ruskin | Assessment of antibacterial activity and antioxidant screening of Hemidesmus indicus root extracts. | Journal of Survey in Fisheries Sciences, 1474-7359,Scopus                   | 10/4S                | 2023                | 832-837   |

#### 9. Details of patents applied/awarded:

| S.No. | Name of the Faculty member | Title | Date of filling | Application No. | Award No. |
|-------|----------------------------|-------|-----------------|-----------------|-----------|
|       |                            |       |                 |                 |           |

#### 10. Publications of Books/Monographs:

| S. No. | Author(s) | Name of the Book with ISBN | Publisher/Place | Year |
|--------|-----------|----------------------------|-----------------|------|
| 1      |           |                            |                 |      |

### 11. Courses offered, Sanctioned Strength of Students and Enrolment details:

| S. NO. | Name of the Programme / Branch of study | Sancti oned Strengt h | Enrolment during 2022-23 |   | Total | Community |   |    |    |     |   |          |   |    |   |     |   |    |   | Existing Students, Strength |    |          |    |         |      |      |   | Pass Percenta ge of out going batch |
|--------|-----------------------------------------|-----------------------|--------------------------|---|-------|-----------|---|----|----|-----|---|----------|---|----|---|-----|---|----|---|-----------------------------|----|----------|----|---------|------|------|---|-------------------------------------|
|        |                                         |                       | F                        | M |       | OC        |   | BC |    | BCM |   | MBC/ DNC |   | SC |   | SCA |   | ST |   | II year                     |    | III year |    | IV year |      |      |   |                                     |
|        |                                         |                       |                          |   |       | M         | F | M  | F  | M   | F | M        | F | M  | F | M   | F | M  | F | M                           | F  | M        | F  | M       | F    | M    | F |                                     |
| 1.     | UG Programme                            | B.ASLP 25             | 11                       | 2 | 13    | 1         | 3 | 1  | 8  | -   | - | -        | - | -  | - | -   | - | -  | - | -                           | 7  | 3        | 7  | -       | -    | 100% |   |                                     |
| 2.     |                                         | FS- 30                | 7                        | 2 | 9     | 0         | 0 | 2  | 7  | -   | - | -        | - | -  | 1 | -   | - | -  | - | 8                           | 6  | 7        | 8  | -       | -    | 100% |   |                                     |
| 3.     |                                         | HG-30                 | 0                        | 0 | 0     | -         | - | -  | -  | -   | - | -        | - | -  | - | -   | - | -  | - | 1                           | 2  | 1        | 2  | -       | -    | 100% |   |                                     |
| 4.     |                                         | RD-60                 | 11                       | 6 | 17    | 5         | 3 | 1  | 9  | -   | - | -        | - | -  | - | -   | - | -  | - | 8                           | 16 | 6        | 18 | -       | -    | 100% |   |                                     |
| 5.     |                                         | CT-60                 | 13                       | 5 | 6     | 1         | 1 | 3  | 15 | -   | - | -        | - | -  | 1 | 1   | - | -  | - | 10                          | 18 | 6        | 22 | -       | -    | 100% |   |                                     |
| 6.     |                                         | PT-60                 | 4                        | 2 | 6     | -         | - | 2  | 3  | -   | - | -        | - | -  | - | -   | - | -  | - | -                           | 4  | 1        | 4  | -       | -    | 100% |   |                                     |
|        | PG Courses                              | 25                    | -                        | - | -     | -         | - | -  | -  | -   | - | -        | - | -  | - | -   | - | -  | 1 | -                           | -  | -        | -  | -       | 100% |      |   |                                     |
|        | Ph.D Programme                          |                       |                          |   |       |           |   |    |    |     |   |          |   |    |   |     |   |    |   |                             |    |          |    |         |      |      |   |                                     |
|        | Diploma Certificate Courses (if any)    |                       |                          |   |       |           |   |    |    |     |   |          |   |    |   |     |   |    |   |                             |    |          |    |         |      |      |   |                                     |
|        | MOOC/NPTE L/UGC online courses offered  |                       |                          |   |       |           |   |    |    |     |   |          |   |    |   |     |   |    |   |                             |    |          |    |         |      |      |   |                                     |
|        | Total                                   |                       |                          |   |       |           |   |    |    |     |   |          |   |    |   |     |   |    |   |                             |    |          |    |         |      |      |   |                                     |

**12. Enrolment of Students from Overseas and other States:**

| S. No. | Degree and Subject | Nationality | State  | Number of Students |        | Total |
|--------|--------------------|-------------|--------|--------------------|--------|-------|
|        |                    |             |        | Male               | Female |       |
| 1.     | M.Sc HGMB          | Indian      | Kerala | 0                  | 0      | 0     |
| 2.     | B.Sc HGMB          | Indian      | Kerala | 1                  | 3      | 4     |
| 3.     | CT                 | Indian      | Kerala | 18                 | 46     | 64    |
| 4.     | PT                 | Indian      | Kerala | 0                  | 13     | 13    |
| 5.     | RD                 | Indian      | Kerala | 21                 | 42     | 63    |
| 6.     | FS                 | Indian      | Kerala | 8                  | 16     | 24    |
| 7.     | B.ASLP             | Indian      | Kerala | 6                  | 21     | 27    |

**13. U.G./P.G. and Research degrees awarded:**

| S. No | UG     |       | P.G. |       | M. Phil. |    |    |       | Ph.D. |    |    |       |
|-------|--------|-------|------|-------|----------|----|----|-------|-------|----|----|-------|
|       | 72     | Total | 1    | Total |          | FT | PT | Total |       | FT | PT | Total |
| 1.    | CT     | 18    | M.Sc | HGMB  |          |    |    |       |       |    |    |       |
| 2.    | PT     | 11    |      |       |          |    |    |       |       |    |    |       |
| 3.    | RD     | 4     |      |       |          |    |    |       |       |    |    |       |
| 4.    | HGMB   | 3     |      |       |          |    |    |       |       |    |    |       |
| 5.    | FS     | 14    |      |       |          |    |    |       |       |    |    |       |
| 6.    | B.ASLP | 22    |      |       |          |    |    |       |       |    |    |       |

**14. Fellowships Awarded (National/International) Faculty/Students Stipend awarded :**

| S. No. | Agency | Position (URF/JRF/SRF/RA/ others) | Number of Fellowships |   | Total |
|--------|--------|-----------------------------------|-----------------------|---|-------|
|        |        |                                   | M                     | F |       |
| 1      | Nil    |                                   |                       |   |       |

**15.Scholarships Awarded:**

| S. No. | Nature of Scholarship                    | P.G. |   | M.Phil. |   | Ph.D. |   | Total Amount Rs. |
|--------|------------------------------------------|------|---|---------|---|-------|---|------------------|
|        |                                          | M    | F | M       | F | M     | F |                  |
| 1      | B.C.(State)                              |      |   |         |   |       |   |                  |
| 2      | B.C.M.(State)                            |      |   |         |   |       |   |                  |
| 3      | M.B.C./D.N.C.(State)                     |      |   |         |   |       |   |                  |
| 4      | SC/SCA/ST(National)                      |      |   |         |   |       |   |                  |
| 5      | SC/SCA/ST(State)                         |      |   |         |   |       |   |                  |
| 6      | Management Scholar ship                  |      |   |         |   |       |   |                  |
| 7      | Loan Scholarship                         |      |   |         |   |       |   |                  |
| 8      | MoovalurRamamirthamAmmaiyar Scheme       |      |   |         |   |       |   |                  |
| 9      | 'Pudhumai Penn' (modern woman)           |      |   |         |   |       |   |                  |
| 10     | Others ( please Specify the scholarship) |      |   |         |   |       |   |                  |
|        | Total                                    |      |   |         |   |       |   |                  |

### 16. Performance of the Students :

| S. No | Course    | S1   |      | S2   |      | S3   |      | S4   |      | S5   |      | S6   |      | S7   |      | S8   |      |
|-------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|       |           | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass |
| 1.    | M.Sc HGMB | -    | -    | -    | -    | 1    | 1    | 1    | 1    |      |      |      |      |      |      |      |      |
| 2.    | B.Sc HGMB | -    | -    | -    | -    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    |      |      |      |      |
| 3.    | B.Sc FS   | 9    | 4    | 9    | 6    | 14   | 7    | 14   | 7    | 15   | 13   | 15   | 15   |      |      |      |      |
| 4.    | B.Sc CT   | 18   | 10   | 17   | 13   | 28   | 19   | 28   | 24   | 24   | 15   | 24   | 17   |      |      |      |      |
| 5.    | PT        | 5    |      | 6    | 3    | 4    | 3    | 4    | 3    | 5    | 4    | 5    | 5    |      |      |      |      |
| 6.    | RD        |      | 10   |      |      | 26   | 12   | 26   | 11   | 25   | 16   | 28   | 23   |      |      |      |      |
| 7.    | B.ASLP    | 13   | 7    | 13   | 6    | 7    | 5    | 7    | 6    | 10   | 8    | 10   | 8    |      |      |      |      |

### 17. Placement Details:

| <b>Name of the Placement co-ordinator: Ms. Divya</b>                  |                                                                               |                            |                                  |
|-----------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------|----------------------------------|
| <b>Phone/Mobile Number :e-mail: 8431772737, divya.km737@gmail.com</b> |                                                                               |                            |                                  |
| <b>Number of Placement Programmes:</b>                                |                                                                               |                            |                                  |
| S. No.                                                                | Particulars                                                                   | Numbers of students placed |                                  |
|                                                                       |                                                                               | Male                       | Female                           |
| 1                                                                     | Number of Students Placed                                                     |                            | B.ASLP - 22                      |
| 2                                                                     | Number of Placements obtained through Campus Interview                        |                            | B.ASLP – 12<br>HGMB – 1<br>FS- 2 |
| 3                                                                     | Ratio of Placement to Students (Total no of Placement / Total no of Students) |                            | B.ASLP - 22                      |

### 18. Outstanding achievements by the Faculty Members:

| S. No. | Name of the Faculty | Achievements | Agency |
|--------|---------------------|--------------|--------|
| 1      |                     |              |        |

### 19. Outstanding achievements by Students:

| S.No. | Name of the Student | Achievements | Agency |
|-------|---------------------|--------------|--------|
| 1     |                     |              |        |

### 20. Department MeetingsHeld : BOS,Programme Committee, Course Committee etc.

| S.No | Name                     | Programme                                                                                       | Date                                            |
|------|--------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------|
| 1.   | Programme Committee etc. | S2 CT PT RD B.ASLP, FS –<br>First<br>Second<br>Third<br>S4 CT PT RD B.ASLP, S6<br>B.ASLP- First | 26/4/2023<br>30/5/2023<br>6/7/2023<br>23/3/2023 |

|    |                        |                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                    |
|----|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |                        | Second<br>Third<br>S6 CT PT RD<br>First<br>Second<br>Third<br>S6 FS HGMB, M.Sc<br>First<br>Second<br>Third<br>S5 FS HGMB, M.Sc<br>First<br>Second<br>Third<br>S1 CT PT RD FS<br>First<br>Second<br>Third<br>S3 S5 CT PT RD B.ASLP<br>First<br>Second<br>Third                                                                                                    | 10/5/2023<br>9/7/2023<br><br>13/3/2023<br>30/5/2023<br>20/7/2023<br><br>1/2/2023<br>10/3/2023<br>20/4/2023<br><br>3/8/2022<br>7/9/2022<br>2/11/2022<br><br>13/12/2022<br>20/1/2023<br>20/2/2023<br><br>16/11/2022<br>2/11/2022<br>1/12/2022                                                        |
| 2. | <b>BOS</b>             |                                                                                                                                                                                                                                                                                                                                                                  | 17/7/2022<br>23/2/2023                                                                                                                                                                                                                                                                             |
| 3. | <b>Class Committee</b> | S2 CT PT RD B.ASLP, FS –<br>First<br>Second<br>Third<br>S4 CT PT RD B.ASLP, S6<br>B.ASLP- First<br>Second<br>Third<br>S6 CT PT RD<br>First<br>Second<br>Third<br>S6 FS HGMB, M.Sc<br>First<br>Second<br>Third<br>S5 FS HGMB, M.Sc<br>First<br>Second<br>Third<br>S1 CT PT RD FS<br>First<br>Second<br>Third<br>S3 S5 CT PT RD B.ASLP<br>First<br>Second<br>Third | 26/4/2023<br>30/5/2023<br>6/7/2023<br><br>23/3/2023<br>10/5/2023<br>9/7/2023<br><br>13/3/2023<br>30/5/2023<br>20/7/2023<br><br>1/2/2023<br>10/3/2023<br>20/4/2023<br><br>3/8/2022<br>7/9/2022<br>2/11/2022<br><br>13/12/2022<br>20/1/2023<br>20/2/2023<br><br>16/11/2022<br>2/11/2022<br>1/12/2022 |

**21. Infrastructure and Research facilities available (Please specify equipments more than TwoLakhs Only) :**

| S. No. | Name of the Lab | Name of the Equipments/Computer/Software/ Others                                                                                                                    | Quantity | Purpose Research/Practical |
|--------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------|
|        | Diagno-Therapy  | 1.Dr Speech Diagno-Therapy #1<br>Vocal assessment (voice)<br>Speech Therapy-5.0<br>2. Nasal view<br>3.Cogni -Tools<br>4. Delayed auditory feed-back<br>5. AAC board | 1        | Practical                  |
|        | Audio Lab       | MAICO MA 42                                                                                                                                                         | 1        | Practical                  |
|        | Audio Lab       | MAICO Touch tympanometer MI 26                                                                                                                                      | 1        | Practical                  |
|        | Audio Lab       | MAICO Touch tympanometer MI 24                                                                                                                                      | 1        | Practical                  |

**22. Extension activities carried out :**

| S. No. | Name of the Activity                           | Beneficiaries                              | Date       | Venue                        |
|--------|------------------------------------------------|--------------------------------------------|------------|------------------------------|
| 1      | World Mental Health Day                        | Old age person                             | 10.10.2022 | Azhagiyamandapam             |
| 2      | World immunization Day                         | Homes of Thenkari                          | 10.11.2022 | Thenkari                     |
| 3      | World Diabetes Day                             | Malavika School, Kumaracoil                | 11.11.2022 | Kumaracoil                   |
| 4      | Mega Free Camp at Government School, Thuckalay | School Students                            | 26.01.2023 | Government School, Thuckalay |
| 5      | Camp for World Hearing Day                     | College students & trespasses and executed | 02.03.2023 | Kumaracoil                   |

**23. Department Library/Learning Resources/ Information and Language Lab:**

Name of the Librarian or Faculty in-charge of the Library:

| S. No. | Particulars                                          | Nos. | S. No. | Particulars                            | Nos. |
|--------|------------------------------------------------------|------|--------|----------------------------------------|------|
| 1      | No. of books available                               | 134  | 7      | No. of titles available                | -    |
| 2      | Books added during the year 2022-23                  | 0    | 8      | No. of CDs and Digital Books available | 15   |
| 3      | No. of Indian Journals/Magazines                     | 0    | 9      | No. of Foreign Magazines/Journals      | -    |
| 4      | No. of data bases available                          | 0    | 10     | No. of Online Journals                 | 3    |
| 5      | Average No. of students visiting the Library per day | 10 - | 11     | Average No. of books Issued per day    | -    |
|        |                                                      |      | 12     | No. of digital books                   | -    |

| S. No. | Particulars                                                                 | Nos. | S. No. | Particulars                                         | Nos. |
|--------|-----------------------------------------------------------------------------|------|--------|-----------------------------------------------------|------|
| 6      | Availability of Internet<br>(Specify the Capacity)<br>(e.g. – 8 Mbps etc.,) | 0    | 13     | Availability of Language Lab                        | -    |
|        |                                                                             |      | 14     | NDL membership<br>5. Faculty members<br>6. Students |      |

#### 24. Information and Communication Technology Resources:

| S. No. | Name of the Equipment | Specifications           | Nos. | S. No. | Name of the Equipment | Specifications | Nos. |
|--------|-----------------------|--------------------------|------|--------|-----------------------|----------------|------|
|        | LCD                   | Epson                    | 17   | 5.     | Desktop Computers     |                | 7    |
|        | Laptop Computer       | Lenovo                   | 1    | 6.     | Printer               | Hp Laserjet    | 2    |
|        | Keyboard              | Lenovo<br>K 200 Logitech | 7    | 7.     | Monitor               |                | 7    |
|        | Mouse                 | Hp<br>Logitech           | 7    | 8.     | UPS                   |                | 7    |
|        | Smart Board           |                          | 1    |        | Interactive Panel     |                | 1    |
|        | Speakers              |                          | 4    |        |                       |                |      |

#### 24.Collaborative Researches :

#### 25.Consultancies :

#### 26.No. of NET/SET/GATE/CSIR Qualified students:

#### 27. MOUs signed :

| S.No | Date       | MoU signed with                                   | Number of Activities                         | Remarks |
|------|------------|---------------------------------------------------|----------------------------------------------|---------|
| 1    | 2.12.2022  | Group Cyber ID Technology Pvt.Ltd, Bangalore.     | 1 (Internship from 13/12/2022 to 23/12/2022) |         |
| 2    | 17.12.2022 | Alibi Global Private Limited, Thiruvananthapuram. | 1 (Hands on workshop on 24.03.2023)          |         |
| 3    | 20.02.2023 | Clinbio Care Technology, Thenkasi                 | -                                            |         |

#### 28. Innovations and Best Practices :

#### 29. Academic Flexibility :

| S.No | Courses offered | Platform (MOOC, NPTEL, etc.) | No. Students enrolled | No. of Students Passed |
|------|-----------------|------------------------------|-----------------------|------------------------|
|      |                 |                              |                       |                        |

**NAME OF THE DEPARTMENT: BIOMEDICAL ENGINEERING****1. Department Details :**

|                                          |                                                                                                                         |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Name of the Faculty                      | Faculty of Technology                                                                                                   |
| Name of the HoD, Phone No. and E-mail ID | Dr.M.Murugan, <a href="mailto:muruganbt@niuniv.com">muruganbt@niuniv.com</a><br><a href="tel:9486856110">9486856110</a> |
| Year of Establishment                    | 2009                                                                                                                    |
| Telephone Number                         | <b>9486856110</b>                                                                                                       |
| Website / E mail                         | <a href="mailto:bme@niuniv.com">bme@niuniv.com</a>                                                                      |

**2. Details of Faculty Members :**

| S. No. | Name of the Faculty       | Qualification | Designation           | Specialisation                                                  | Experience in years |          | E-mail ID &Phone/Cell Phone No.                                                                |
|--------|---------------------------|---------------|-----------------------|-----------------------------------------------------------------|---------------------|----------|------------------------------------------------------------------------------------------------|
|        |                           |               |                       |                                                                 | Teaching            | Research |                                                                                                |
| 1.     | Dr.M.Murugan              | Ph.D          | Dean, Professor & HOD | Molecular genetics                                              | 21                  | 22       | <a href="mailto:muruganbt@niuniv.com">muruganbt@niuniv.com</a> 9486856110                      |
| 2.     | Dr.S.Albert Jerome        | Ph.D          | Associate Professor   | Biomedical signal processing and Instrumentation                | 20                  | 14       | <a href="mailto:albertjerome@niuniv.com">albertjerome@niuniv.com</a><br>8248347028             |
| 3.     | Dr.I.Sowmy                | Ph.D          | Associate Professor   | Wireless Communication                                          | 18                  | 14       | <a href="mailto:sowmy@niuniv.com">sowmy@niuniv.com</a> 9994703309                              |
| 4.     | Ms.Anusha Linda Kostka JE | M.E., M.Tech  | Assistant Professor   | Computer Science and Engineering , Data Science and Engineering | 23                  | -        | <a href="mailto:anushalindakostka@niuniv.com">anushalindakostka@niuniv.com</a> ,<br>9442178534 |
| 5.     | Ms.Lisha Daniel           | M.E           | Assistant Professor   | Bio sensors and Medical Instrumentation, Neural Engineering     | 7                   | -        | <a href="mailto:lishadaniel@niuniv.com">lishadaniel@niuniv.com</a><br>7639241642               |
| 6.     | Ms.Lekshmi.V.Nair         | M.E           | Assistant Professor   | Medical Imaging Equipments                                      | 5                   | 3        | <a href="mailto:lekshmilive@gmail.com">lekshmilive@gmail.com</a> 6282230575                    |
| 7.     | Mr.Suresh Jeya Singh      | M.E           | Assistant Professor   | Electronic Measurement Devices and IoT                          | 2                   | -        | <a href="mailto:sjsuresh123@gmail.com">sjsuresh123@gmail.com</a> 9994039731                    |

### 3. Faculty Members Achievements /Performance:

| S. No. | Name                | h index |            | Publications |            | Citations |            | API   |            | M.Phil. awarded |            | Ph.D. awarded |            | Cumulative Scholars |       |
|--------|---------------------|---------|------------|--------------|------------|-----------|------------|-------|------------|-----------------|------------|---------------|------------|---------------------|-------|
|        |                     | 22-23   | Cumulative | 22-23        | Cumulative | 22-23     | Cumulative | 22-23 | Cumulative | 22-23           | Cumulative | 22-23         | Cumulative | M. Phil             | Ph.D. |
| 1.     | Dr.M.Murugan        |         |            |              |            |           |            |       |            |                 |            |               |            |                     |       |
| 2.     | Dr. S Albert Jerome | 1       | 2          | 2            | 11         | 12        | 20         |       |            | -               | -          | -             | -          | -                   | 6     |
| 3.     | Dr.I.Sowmy          | -       | 2          | 1            | 4          | -         | 6          |       |            |                 |            |               |            |                     | 5     |

### 4.. Research Schemes/Projects undertaken :

| S. No. | Name of the Principal Investigator | Funding Agency | Title of the Project | Duration |    | Amount Rs. |
|--------|------------------------------------|----------------|----------------------|----------|----|------------|
|        |                                    |                |                      | From     | To |            |
| 1      |                                    |                | NIL                  |          |    |            |

### 5. a) Participation of the Faculty members, presentation of papers in Congresses/Conferences/Seminars/Workshops, Symposia, etc.

| S. No. | Name of the Faculty | Congress/Conference/Seminar /Workshop and Venue                                                            | Title of the paper                                                                | Date                     |
|--------|---------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------|
| 1      |                     |                                                                                                            |                                                                                   |                          |
| 2      |                     |                                                                                                            |                                                                                   |                          |
|        | Dr.I.Sowmy          | International conference on emerging technologies in engineering and applied sciences/NICHE                | Comprehensive survey on crowd anomaly detection models                            | 13-04-2023               |
|        | Dr.I.Sowmy          | International conference on emerging technologies in engineering and applied sciences /NICHE               | A review of machine learning approaches for EEG based epileptic seizure detection | 13-04-2023               |
|        | Ms.Lisha Daniel     | UGC sponsored Refresher Course in Biomedical/ UGC HRDC, NEHU, Shillong/ Online mode                        | -                                                                                 | 01-03-2023 to 15-03-2023 |
|        | Ms.Lisha Daniel     | International Conference on Intelligent Systems in Smart Healthcare/ Bannari Amman Institute of Technology | Thermo Respiratory Analyzer                                                       | 10-03-2023               |

|  |                 |                                                                                                                           |                          |            |
|--|-----------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------|------------|
|  | Ms.Lisha Daniel | 2nd International Conference on Advancements in Automotive Technology (ICAAT) 2023/ Bannari Amman Institute of Technology | INFANT CPR ASSIST DEVICE | 05-04-2023 |
|--|-----------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------|------------|

**b) Foreign Faculty/Expert visit to the Department:**

| S. No. | Name & Designation | Institute | Country | Duration | Purpose |
|--------|--------------------|-----------|---------|----------|---------|
| 1      |                    | NIL       |         |          |         |

**6. Faculty acted as Chief Guest, Key note Speakers, Resource Person, Chair Person, External experts, etc. :**

| S. No. | Name of the Faculty member | Role        | Event                | Title                | Venue & Date                         |
|--------|----------------------------|-------------|----------------------|----------------------|--------------------------------------|
| 1      | Dr.I.Sowmy                 | Chief guest | National science day | National science day | SMT.R.P Rajalakshmi Hindu Vidhyalaya |

**7. Details of Seminars, Conferences, Refresher courses, Webminars Organised:**

| S. No. | Name of the Faculty member | Congress/Conference/Seminar/ Workshop/Symposia , Webmniars etc. organised                     | State/National/ International Level | Date                                             |
|--------|----------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------|--------------------------------------------------|
| 1      | Dr.I.Sowmy                 | Two days workshop on “Internet of Things in Biomedical Applications”                          | National                            | March 29 <sup>th</sup> and 30 <sup>th</sup> 2023 |
| 2      | Ms.Lisha Daniel            | Industry Institute Interaction on Significance of Biomedical Engineer in the Current Scenario | Regional                            | 21-07-2022                                       |
| 3      | Ms.Lisha Daniel            | Guest Lecture “Career opportunities as a biomedical engineer-An insight”                      | Regional                            | 20-02-2023                                       |

**8. Publication of Research Papers at the State/National/International Levels:**

| S. No. | Author(s)                        | Title of the paper                                                                       | Journal with ISSN/Scopus/S CI/UGC care | Volume No. Issue No. | Year of Publication | Page(pp) |
|--------|----------------------------------|------------------------------------------------------------------------------------------|----------------------------------------|----------------------|---------------------|----------|
|        | TS SheelaShiney, S Albert Jerome | An intelligent system to enhance the performance of brain tumor diagnosis from MR images | Journal of Digital Imaging             | 36 / 2               | 2023                | 510-525  |

| S. No. | Author(s)                                                   | Title of the paper                                                                 | Journal with ISSN/Scopus/S CI/UGC care | Volume No. Issue No. | Year of Publication | Page(pp)    |
|--------|-------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------|----------------------|---------------------|-------------|
|        | AnuBabu, S<br><b>Albert Jerome</b>                          | Automatic breast cancer detection using HGMMEM algorithm with DELMA classification | Multimedia Tools and Applications      | 82/17                | 2022                | 26771-26795 |
|        | B Sarala, I<br><b>Sowmy</b> , M<br>Suganthi, R<br>Hemalatha | Elegant detection of human voice                                                   | SCOPUS                                 | 2523(1)              | 2023                |             |

#### 9. Details of patents applied/awarded:

| S.No. | Name of the Faculty member | Title                                                                                  | Date of filling | Application No. | Award No. |
|-------|----------------------------|----------------------------------------------------------------------------------------|-----------------|-----------------|-----------|
|       | Dr.M.Murugan               | <b>International patent on “IOT based wearable medical monitoring system”</b>          |                 |                 |           |
|       | Dr.M.Murugan               | <b>Indian Patent on “Smart food feeder for stroke/coma/elderly bedridden patients”</b> | 2015            | 5786/CHE        |           |

#### 10. Publications of Books/Monographs:

| S. No. | Author(s) | Name of the Book with ISBN | Publisher/Place | Year |
|--------|-----------|----------------------------|-----------------|------|
| 1      |           |                            |                 |      |

**11. Courses offered, Sanctioned Strength of Students and Enrolment details:**

| S. NO. | Name of the Programme / Branch of study | Sancti oned Streng th | Enrolment during 2022-23 |   | Total | Community |   |    |   |     |   |          |   |    |   |     |   |    |   | Existing Students, Strength |   |          |   |         |     |      |   | Pass Percenta ge of out going batch |
|--------|-----------------------------------------|-----------------------|--------------------------|---|-------|-----------|---|----|---|-----|---|----------|---|----|---|-----|---|----|---|-----------------------------|---|----------|---|---------|-----|------|---|-------------------------------------|
|        |                                         |                       | F                        | M |       | OC        |   | BC |   | BCM |   | MBC/ DNC |   | SC |   | SCA |   | ST |   | II year                     |   | III year |   | IV year |     |      |   |                                     |
|        |                                         |                       |                          |   |       | M         | F | M  | F | M   | F | M        | F | M  | F | M   | F | M  | F | M                           | F | M        | F | M       | F   | M    | F |                                     |
|        | UG Programme                            | 30                    | 11                       | 8 |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   | 8                           | 3 | 4        | 3 | 26      | 1 2 | 100% |   |                                     |
|        | PG Courses                              |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |     |      |   |                                     |
|        | Ph.DProgramm e                          |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |     |      |   |                                     |
|        | Diploma Certificate Courses (if any)    |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |     |      |   |                                     |
|        | MOOC/NPTE L/UGC online courses offered  |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |     |      |   |                                     |
|        | Total                                   | 30                    |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |     |      |   |                                     |

**12. Enrolment of Students from Overseas and other States:**

| S. No. | Degree and Subject         | Nationality | State  | Number of Students |        | Total |
|--------|----------------------------|-------------|--------|--------------------|--------|-------|
|        |                            |             |        | Male               | Female |       |
|        | BE(Biomedical Engineering) | Indian      | Kerala | 3                  | 4      | 7     |

**13. U.G./P.G. and Research degrees awarded:**

| S. No | UG |       | P.G. |       | M. Phil. |    |    |       | Ph.D. |    |    |       |
|-------|----|-------|------|-------|----------|----|----|-------|-------|----|----|-------|
|       |    | Total |      | Total |          | FT | PT | Total |       | FT | PT | Total |
|       |    |       |      |       |          |    |    |       |       |    |    |       |

**14. Fellowships Awarded (National/International) Faculty/Students Stipend awarded :**

| S. No. | Agency | Position (URF/JRF/SRF/RA/ others) | Number of Fellowships |   | Total |
|--------|--------|-----------------------------------|-----------------------|---|-------|
|        |        |                                   | M                     | F |       |
| 1      |        |                                   |                       |   |       |

**15.Scholarships Awarded:**

| S. No. | Nature of Scholarship                    | P.G. |   | M.Phil. |   | Ph.D. |   | Total Amount Rs. |
|--------|------------------------------------------|------|---|---------|---|-------|---|------------------|
|        |                                          | M    | F | M       | F | M     | F |                  |
| 1      | B.C.(State)                              |      |   |         |   |       |   |                  |
| 2      | B.C.M.(State)                            |      |   |         |   |       |   |                  |
| 3      | M.B.C./D.N.C.(State)                     |      |   |         |   |       |   |                  |
| 4      | SC/SCA/ST(National)                      |      |   |         |   |       |   |                  |
| 5      | SC/SCA/ST(State)                         |      |   |         |   |       |   |                  |
| 6      | Management Scholar ship                  |      |   |         |   |       |   |                  |
| 7      | Loan Scholarship                         |      |   |         |   |       |   |                  |
| 8      | MoovalurRamamirthamAmmayyar Scheme       |      |   |         |   |       |   |                  |
| 9      | 'Pudhumai Penn' (modern woman)           |      |   |         |   |       |   |                  |
| 10     | Others ( please Specify the scholarship) |      |   |         |   |       |   |                  |
|        | Total                                    |      |   |         |   |       |   |                  |

**16. Performance of the Students :**

| S. No | Course | S1   |      | S2   |      | S3   |      | S4   |      | S5   |      | S6   |      | S7   |      | S8   |      |
|-------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|       |        | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass |
|       |        |      |      | 19   | 8    | 11   | 3    |      |      | 7    | 1    | 7    | 5    | 38   | 30   |      |      |

**17. Placement Details:**

| Name of the Placement co-ordinator: Anusha Linda Kostka J E                                                              |                            |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Phone/Mobile Number :e-mail: 9442178534 / <a href="mailto:anushalindakostka@niuniv.com">anushalindakostka@niuniv.com</a> |                            |
| Number of Placement Programmes:                                                                                          |                            |
| S. No.                                                                                                                   | Particulars                |
|                                                                                                                          | Numbers of students placed |

|   |                                                                               | <b>Male</b> | <b>Female</b> |
|---|-------------------------------------------------------------------------------|-------------|---------------|
| 1 | Number of Students Placed                                                     | 6           | 1             |
| 2 | Number of Placements obtained through Campus Interview                        | <b>NIL</b>  | <b>NIL</b>    |
| 3 | Ratio of Placement to Students (Total no of Placement / Total no of Students) | -           | -             |

**18. Outstanding achievements by the Faculty Members:**

| <b>S. No.</b> | <b>Name of the Faculty</b> | <b>Achievements</b>                  | <b>Agency</b>                                               |
|---------------|----------------------------|--------------------------------------|-------------------------------------------------------------|
| 1             | Dr.M.Murugan               | <b>International Scientist Award</b> | International research association, England, United Kingdom |

**19. Outstanding achievements by Students:**

| <b>S.No.</b> | <b>Name of the Student</b>                           | <b>Achievements</b>                                                                         | <b>Agency</b> |
|--------------|------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------|
| 1            | Sudherson.M of Final year BME                        | <b>Outstanding academic achievement award</b>                                               | NIMS          |
|              | Sudherson.M, Bose.G.L and Jinish.J of Final year BME | <b>3<sup>rd</sup> prize</b> in Innovation Day Celebration Contest-2022                      | NICHE         |
|              | Sudherson.M and Asspy of Final year BME              | <b>Won regional levels</b> of State Level Final Pitch of Tamil Nadu Student Innovators 2022 | EDII-TN       |

**20. Department MeetingsHeld :**  
**BOS,Programme Committee, Course Committee etc.**

| <b>S.No</b> | <b>Name</b>                                          | <b>Date</b> |  |
|-------------|------------------------------------------------------|-------------|--|
| 1.          | <b>Course Committee<br/>Programme Committee etc.</b> |             |  |

**21. Infrastructure and Research facilities available (Please specify equipments more than TwoLakhs Only) :**

| <b>S. No.</b> | <b>Name of the Lab</b> | <b>Name of the Equipments/Computer/Software/Others</b> | <b>Quantity</b> | <b>Purpose Research/Practical</b> |
|---------------|------------------------|--------------------------------------------------------|-----------------|-----------------------------------|
|               |                        |                                                        |                 |                                   |

**22. Extension activities carried out :**

| <b>S. No.</b> | <b>Name of the Activity</b> | <b>Beneficiaries</b> | <b>Date</b> | <b>Venue</b> |
|---------------|-----------------------------|----------------------|-------------|--------------|
| 1             |                             |                      |             |              |

**23. Department Library/Learning Resources/ Information and Language Lab:**

Name of the Librarian or Faculty in-charge of the Library:

| <b>S. No.</b> | <b>Particulars</b>     | <b>Nos.</b> | <b>S. No.</b> | <b>Particulars</b>      | <b>Nos.</b> |
|---------------|------------------------|-------------|---------------|-------------------------|-------------|
| 1             | No. of books available | 622         | 7             | No. of titles available | 30          |

|   |                                                                       |   |    |                                                     |   |
|---|-----------------------------------------------------------------------|---|----|-----------------------------------------------------|---|
| 2 | Books added during the year 2022-23                                   | - | 8  | No. of CDs and Digital Books available              | - |
| 3 | No. of Indian Journals/Magazines                                      | 5 | 9  | No. of Foreign Magazines/Journals                   | - |
| 4 | No. of data bases available                                           | - | 10 | No. of Online Journals                              | - |
| 5 | Average No. of students visiting the Library per day                  | 5 | 11 | Average No. of books Issued per day                 | 5 |
|   |                                                                       |   | 12 | No. of digital books                                | - |
| 6 | Availability of Internet (Specify the Capacity) (e.g. – 8 Mbps etc.,) |   | 13 | Availability of Language Lab                        | - |
|   |                                                                       |   | 14 | NDL membership<br>7. Faculty members<br>8. Students |   |

#### 24. Information and Communication Technology Resources:

| S. No. | Name of the Equipment | Specifications | Nos. | S. No. | Name of the Equipment | Specifications | Nos. |
|--------|-----------------------|----------------|------|--------|-----------------------|----------------|------|
|        |                       |                |      |        |                       |                |      |

#### 24.Collaborative Researches :

#### 25.Consultancies :

#### 26.No. of NET/SET/GATE/CSIR Qualified students:

#### 27. MOUs signed :

| S.No | Date       | MoU signed with                                  | Number of Activities | Remarks |
|------|------------|--------------------------------------------------|----------------------|---------|
| 1.   | 16-02-2023 | Indian Biomedical Skill Consortium               | -                    |         |
| 2.   | 20-2-2023  | Cyril Healthcare Private Limited                 | 1                    |         |
| 3.   | 15-03-2023 | Atheena Pandian Pvt. Ltd.                        | 1                    |         |
| 4.   | 18-04-2023 | Tejas Translational Technologies Private Limited | -                    |         |

#### 28. Innovations and Best Practices :

#### 29. Academic Flexibility :

| S.No | Courses offered | Platform (MOOC, NPTEL, etc.) | No. Students enrolled | No. of Students Passed |
|------|-----------------|------------------------------|-----------------------|------------------------|
|      |                 |                              |                       |                        |

## NAME OF THE DEPARTMENT: CIVIL ENGINEERING

### 1. Department Details :

|                                          |                                                          |
|------------------------------------------|----------------------------------------------------------|
| Name of the Faculty                      | Faculty of Civil Engineering                             |
| Name of the HOD, Phone No. and E-mail ID | Dr.Y. Stalin Jose, 9486550715, stalinjosecivil@gmail.com |
| Year of Establishment                    | 2006                                                     |
| Telephone Number                         | 9486856129                                               |
| Website / E mail                         | civniu@gmail.com                                         |

### 2. Details of Faculty Members :

| Sl. No. | Name of the faculty | Qualification | Designation     | Specialisation                            | Experience in years |          | E-mail ID &Phone/Cell Phone No.                                                             |
|---------|---------------------|---------------|-----------------|-------------------------------------------|---------------------|----------|---------------------------------------------------------------------------------------------|
|         |                     |               |                 |                                           | Teaching            | Research |                                                                                             |
| 1.      | Dr.Y. Stalin Jose   | M.E, Ph.D     | Professor       | Structural Engineering                    | 18Y                 | 6Y 2M    | <a href="mailto:stalinjosecivil@gmail.com">stalinjosecivil@gmail.com</a> & 9486550715       |
| 2.      | Dr. N. Nalanth      | M.E, Ph.D     | Professor       | Structural Engineering                    | 17Y                 | 7        | <a href="mailto:drnnh1976@gmail.com">drnnh1976@gmail.com</a> & 9443449904                   |
| 3.      | Mr.D.Allwin         | M E           | Asst. Professor | Hydrology and Water Resources Engineering | 14Y                 | -        | <a href="mailto:win8039@gmail.com">win8039@gmail.com</a> & 9489505032                       |
| 4.      | Ms.N.Alex Dorwina   | M E           | Asst. Professor | Hydrology and Water Resources Engineering | 13 Y 6 M            | -        | <a href="mailto:alexdorwina@gmail.com">alexdorwina@gmail.com</a> & 9442271710               |
| 5.      | Ms. B.Soniya        | M E           | Asst. Professor | SoilMechanicsand Foundation Engineering   | 11Y                 | -        | <a href="mailto:soniyaaji7008@gmail.com">soniyaaji7008@gmail.com</a> & 9443506612           |
| 6.      | Mr.S.Mathan Kumar   | M E           | Asst. Professor | Environmental Engineering                 | 10Y 7 M             | -        | <a href="mailto:mathankumar.lingam@gmail.com">mathankumar.lingam@gmail.com</a> & 7598289166 |
| 7.      | Dr. Roselin.R       | M. Tech       | Asst. Professor | Structural Engineering                    | 16 Y 3M             | 1Y       | <a href="mailto:roselinkalist12@gmail.com">roselinkalist12@gmail.com</a> & 8903706756       |
| 8.      | Mr.S.Sunil Kumar    | M E           | Asst. Professor | Structural Engineering                    | 11 Y                | -        | <a href="mailto:sskme1986@gmail.com">sskme1986@gmail.com</a> & 9003353631                   |
| 9.      | Mr. N. Ajin         | M E           | Asst. Professor | Construction Engineering & Management     | 6Y10 M              | -        | <a href="mailto:ajin.nithin@gmail.com">ajin.nithin@gmail.com</a> & 9488567591               |
| 10.     | Ms.Abisha Y         | M.E           | Asst. Professor | Construction Engineering & Management     | 4Y 4M               | -        | <a href="mailto:abishajose19@gmail.com">abishajose19@gmail.com</a> & 7598481878             |
| 11.     | Mrs.J.Divya Johns   | M.E           | Asst. Professor | Structural Engineering                    | 10Y9 M              | -        | <a href="mailto:divyajohns19@gmail.com">divyajohns19@gmail.com</a>                          |

### 3. Faculty Members Achievements / Performance:

| S. No. | Name          | h index |            | Publications |            | Citations |            | API   |            | M.Phil. awarded |            | Ph.D. awarded |            | Cumulative Scholars |       |
|--------|---------------|---------|------------|--------------|------------|-----------|------------|-------|------------|-----------------|------------|---------------|------------|---------------------|-------|
|        |               | 22-23   | Cumulative | 22-23        | Cumulative | 22-23     | Cumulative | 22-23 | Cumulative | 22-23           | Cumulative | 22-23         | Cumulative | M. Phil             | Ph.D. |
| 1.     | Y.Stalin Jose |         |            |              | 1          |           |            |       |            |                 |            |               |            |                     |       |
| 2.     | D.Allwin      |         |            |              | 1          |           |            |       |            |                 |            |               |            |                     |       |
| 3.     | Dr.Roselin .R | 1       | 1          | -            | 4          | 2         | 5          |       |            | -               | -          | -             | -          | -                   | 04    |
| 4.     | Y Abisha      |         |            | 2            | 2          |           |            |       |            |                 |            |               |            |                     |       |
| 5.     | J Divya Johns |         |            | 2            | 2          | 2         |            |       |            |                 |            |               |            |                     |       |

### 4.. Research Schemes/Projects undertaken :

| S. No. | Name of the Principal Investigator | Funding Agency | Title of the Project | Duration |    | Amount Rs. |
|--------|------------------------------------|----------------|----------------------|----------|----|------------|
|        |                                    |                |                      | From     | To |            |
| 1      | Nil                                |                |                      |          |    |            |

### b) Foreign Faculty/Expert visit to the Department:

| S. No. | Name & Designation | Institute | Country | Duration | Purpose |
|--------|--------------------|-----------|---------|----------|---------|
| 1      | Nil                |           |         |          |         |

### 5. a) Participation of the Faculty members presented papers in Congresses/Conferences/Seminars/Workshops, Symposia, etc.

| S. No. | Name of the Faculty | Congress/Conference/Seminar /Workshop and Venue                                  | Title of the paper                                                             | Period     |
|--------|---------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------|
| 1      | Mr.D.Allwin         | National Conference on Innovative and Emerging Technologies in Engineering/NICHE | Fixed bed column study for raw water                                           | April 2023 |
| 2      | Mr.S.Mathankumar    | National Conference on Innovative and Emerging Technologies in Engineering/NICHE |                                                                                |            |
| 3      | Dr.Roselin.R        | National Conference on Innovative and Emerging Technologies in Engineering/NICHE | Experimental Investigation on Beam and Column using Glass Fibre Polymer Sheets | April 2023 |

|   |                   |                                                                                                                                           |                                                                                                               |            |
|---|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------|
| 4 | Mrs.Y.Abisha      | National Conference on Innovative and Emerging Technologies in Engineering/NICHE                                                          | <i>Experimental study of Concrete using Corrugated Steel Fibre</i>                                            | April 2023 |
|   |                   | International Conference on Advanced Innovations in Engineering and Technology (ICAJET'23), Rohini College of Engineering and Technology. | <i>Experimental Investigation on the Behaviour of Fibre Reinforced Coconut Shell Concrete</i>                 | June 2023  |
| 5 | Mrs.J.Divya Johns | National Conference on Innovative and Emerging Technologies in Engineering/NICHE                                                          | Strength and durability behaviour of reinforced self compaction concrete using glass fibre                    | April 2023 |
|   |                   | International conference on Emerging trends in technology and sciences/NICHE                                                              | Study on Enriched cement for improving fire resistant structural behaviour property by using various products | May 2023   |

**b) Foreign Faculty/Expert visit to the Department:**

| S. No. | Name & Designation | Institute | Country | Duration | Purpose |
|--------|--------------------|-----------|---------|----------|---------|
| 1      |                    |           |         |          |         |
| 2      |                    |           |         |          |         |

**6. Faculty acted as Chief Guest, Key note Speakers, Resource Person, Chair Person, External experts, etc. :**

| S. No. | Name of the Faculty | Role | Event | Title | Venue & Date |
|--------|---------------------|------|-------|-------|--------------|
| 1      | Nil                 |      |       |       |              |

**7. Details of Seminars, Conferences and Refresher courses Organised :**

| S. No. | Name of the Faculty | Congress/Conference/Seminar/ Workshop/Symposia, etc. Organised | State/National/ International Level                 | Period     |
|--------|---------------------|----------------------------------------------------------------|-----------------------------------------------------|------------|
| 1.     | Civil               | National Level conference                                      | Innovative and Emerging Technologies in Engineering | 24/04/2023 |

| S. No. | Name of the Faculty | Congress/Conference/Seminar/ Workshop/Symposia, etc. Organised | State/National/ International Level | Period     |
|--------|---------------------|----------------------------------------------------------------|-------------------------------------|------------|
| 2.     | Civil               | Entrepreneurship Training Program                              | State level                         | 17/02/2023 |
| 3.     | Civil               | Professional Development Program                               | State level                         | 18/05/2023 |
| 4.     | civil               | Workshop on BIM                                                | State level                         | 17/03/2022 |
| 5.     | civil               | Workshop on Revit Architecture & Design                        | State level                         | 21/03/2022 |
| 6.     | Civil               | India's youth leading the charge for social change             | State level                         | 18/01/2023 |
| 7.     | Civil               | Virtual Reality with Integrated BIM                            | State level                         | 20/07/2023 |
| 8.     | Civil               | Residential Planning & Estimation                              | State level                         | 25/07/2023 |

#### 8. Publication of Research Papers at the State/National/International Levels:

| S. No. | Author(s)     | Title of the paper                                                                                                          | Journal with ISSN                             | Volume No. Issue No. | Year of Publication | Page(pp)                       |
|--------|---------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------------------|---------------------|--------------------------------|
| 1      | Y.Stalin Jose | Thermal performance evaluation of fiber reinforced concrete treated with eco friendly additives                             | Materials today                               |                      |                     |                                |
|        |               | A study on characteristics of sisal fiber and its performance in fiber reinforced concrete                                  | Materials today                               |                      |                     |                                |
| 2      | D.Allwin      | Mechanical performance of low fine concrete                                                                                 | 2454-6585                                     | Vol.4 Issue 2        | April 2023          | 13-26                          |
| 3      | Rema R        | An Investigation on the Adoption of Rainwater Harvesting Based on the Theory of Planned Behaviour and Norm Activation Model | Water Resource Management                     | 0920-4741            | September 2021      | DOI:10.21203/rs.3.rs-864219/v1 |
|        |               | An Effective Implementation of Reduce, Reuse and Recycling Triad in                                                         | International Journal of Research Publication | Vol 3, no 6,         | June 2022           | pp 2194-2199,                  |

| S. No. | Author(s) | Title of the paper                                                                                                                             | Journal with ISSN                                         | Volume No. Issue No. | Year of Publication | Page(pp)         |
|--------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|----------------------|---------------------|------------------|
|        |           | a Construction and Demolition Waste Management                                                                                                 | and Reviews,                                              |                      |                     |                  |
|        |           | An exploration on the influence of altruistic factors on voluntary vehicle scrapping to promote sustainable environment                        | <u>Cleaner Materials</u>                                  | <u>Volume 4</u> ,    | June 2022,          | June 2022,100081 |
| 4      | Abisha Y  | <i>Pineapple fibre as an additive to self-compacting concrete</i>                                                                              | Materia- Rio de Janeiro 1517-7076                         | V.28 N.01            | 2023                |                  |
|        |           | <i>Experimental research on the behavior of concrete with the incorporation of granite aggregate in partial substitution to fine aggregate</i> | International Journal of Research Publication and Reviews | Vol.3, Issue 7,      | July 2022           | pp 751-759       |

#### 9. Details of patents applied/awarded:

| S.No. | Name of the Faculty                            | Title                                                   | Date of filling | Application No. | Sanctioned No. |
|-------|------------------------------------------------|---------------------------------------------------------|-----------------|-----------------|----------------|
| 1.    | D. Allwin<br>B. Soniya<br>Y. Stalin Jose       | Trefoil Shape Dish Antenna for Ku Band Satellite Signal | 28/8/2023       | 393849-001      | 393849-001     |
| 2.    | D. Allwin<br>S. Mathan Kumar<br>J. Divya Johns | IoT Based Washing Machine for Agricultural Crops        | 26/06/2023      | 389051-001      | 389051-001     |
| 3.    | D. Allwin<br>Y. Abisha                         | Water Velocity meter for                                | 25/09/2023      | 397308-001      | Under process  |

|    |                                                                                                   |                                                                                                                                                              |            |               |                             |
|----|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------|-----------------------------|
|    | N. Ajin<br>N.Alex Dorwina                                                                         | stream flow<br>measurement                                                                                                                                   |            |               |                             |
| 4. | D.Allwin<br>N.Ajin<br>Y.Stalin Jose<br>Y Abisha                                                   | Paver block<br>using plastic<br>waste for<br>outdoor walk<br>way                                                                                             | 12/10/2023 | 399208-001    | Under process               |
| 5. | D.Allwin<br>S. Mathan Kumar<br>B. Soniya                                                          | Solar powered<br>Total Station<br>for Digital<br>Surveying                                                                                                   | 16/10/2023 | Under process | Under process               |
| 5. | Dr.Roselin.R @<br>et.al                                                                           | A composition<br>for a water<br>Permeable block<br>to increase<br>water<br>permeability<br>and Durability<br>by using<br>Ferronickel slag<br>as an aggregate | 15.04.2023 | 202341027765  | Published on<br>26.05.2023. |
| 6. | Dr.Roselin.R,<br>Ms.Divya Johns,<br>Dr.Y.Stalin Jose,<br>Y.Abisha,<br>B.Soniya, N.Alex<br>Dorwina | Structural<br>Behaviour of<br>reinforced<br>concrete beam<br>containing nano<br>silica                                                                       | 28.05.2023 | 202341036808A | Published on<br>01.09.2023  |

#### 10. Publications of Books/Monographs:

| S. No. | Author(s)                                                                  | Name of the Book with ISBN                                                     | Publisher/Place            | Year |
|--------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------|------|
| 1.     | D Allwin, Y<br>Stalin Jose, S<br>Mathan<br>Kumar, B<br>Soniya              | A guide to Soil Mechanics                                                      | Aashan<br>Publications     | 2023 |
| 2.     | D Allwin, Y<br>Abisha, B<br>Soniya, S<br>Mathan<br>Kumar, Y<br>Stalin Jose | Artificial Intelligence for<br>Sustainable development in<br>Civil Engineering | Scientific<br>Publications | 2023 |

**11. Courses offered, Sanctioned Strength of Students and Enrolment details:**

| S. NO. | Name of the Programme / Branch of study | Sanct ioned Stren gth | Enrolment during 2021-22 |    | Total | Community |   |    |   |     |   |          |   |    |   |     |   |    |   | Existing Students, Strength |    |     |    |    |     | Pass Percenta ge of out going batch |
|--------|-----------------------------------------|-----------------------|--------------------------|----|-------|-----------|---|----|---|-----|---|----------|---|----|---|-----|---|----|---|-----------------------------|----|-----|----|----|-----|-------------------------------------|
|        |                                         |                       | F                        | M  |       | OC        |   | BC |   | BCM |   | MBC/ DNC |   | SC |   | SCA |   | ST |   | II                          |    | III |    | IV |     |                                     |
|        |                                         |                       |                          |    |       | M         | F | M  | F | M   | F | M        | F | M  | F | M   | F | M  | F | M                           | F  | M   | F  | M  | F   |                                     |
|        | UG Programme                            | 30                    | -                        | 7  | 7     |           |   | 7  |   |     |   |          |   |    |   |     |   |    |   | 24                          | 1  | 33  |    | 40 | 3   | 100                                 |
|        | PG Courses                              | 18                    | 4                        | 10 | 14    |           | 2 | 12 |   |     |   |          |   |    |   |     |   |    |   |                             |    |     | 32 | 2  | 100 |                                     |
|        | M.Phil. Programme                       |                       |                          |    |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |    |     |    |    |     |                                     |
|        | Ph.D Programme                          | 8                     |                          | 03 | 03    | 1         |   | 2  |   |     |   |          |   |    |   |     |   |    |   |                             |    |     |    |    |     |                                     |
|        | Diploma Certificate Courses (if any)    |                       |                          |    |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |    |     |    |    |     |                                     |
|        | MOOC/NPTEL/UGC online courses offered   |                       |                          |    |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |    |     |    |    |     |                                     |
|        | Total                                   | 56                    | 04                       | 20 | 24    | 1         | 2 | 21 |   |     |   |          |   |    |   |     |   |    |   | 24                          | 01 | 33  |    | 72 | 05  |                                     |

## 12. Enrolment of Students from Overseas and other States:

| S. No. | Degree and Subject  | Nationality | State  | Number of Students |        | Total |
|--------|---------------------|-------------|--------|--------------------|--------|-------|
|        |                     |             |        | Male               | Female |       |
| 1      | BE Civil Engg.      | Indian      | Kerala | 05                 | -      | 05    |
| 2      | ME Structural Engg. | Indian      | Kerala | 06                 | -      | 06    |

## 13. P.G. and Research degrees awarded:

| S. No | UG |       | P.G. |       | M. Phil. |    |    |       | Ph.D. |    |    |       |
|-------|----|-------|------|-------|----------|----|----|-------|-------|----|----|-------|
|       |    | Total |      | Total |          | FT | PT | Total |       | FT | PT | Total |
|       | 38 | 45    | 32   | 34    | -        | -  | -  |       |       |    | 01 |       |

## 14. Fellowships Awarded (National/International) Faculty/Students Stipend awarded :

| S. No. | Agency | Position (URF/JRF/SRF/RA/ others) | Number of Fellowships |   | Total |
|--------|--------|-----------------------------------|-----------------------|---|-------|
|        |        |                                   | M                     | F |       |
| 1      | NIL    |                                   |                       |   |       |

## 15. Scholarships Awarded:

| S. No. | Nature of Scholarship                        | P.G. |   | M.Phil. |   | Ph.D. |   | Total Amount Rs. |
|--------|----------------------------------------------|------|---|---------|---|-------|---|------------------|
|        |                                              | M    | F | M       | F | M     | F |                  |
| 1      | B.C.(State)                                  |      |   |         |   | -     | - |                  |
| 2      | B.C.M.(State)                                |      |   |         |   | -     | - |                  |
| 3      | M.B.C./D.N.C.(State)                         |      |   |         |   | -     | - |                  |
| 4      | SC/SCA/ST(National)                          |      |   |         |   | -     | - |                  |
| 5      | SC/SCA/ST(State)                             |      |   |         |   | -     | - |                  |
| 6      | First Generation Free Education              |      |   |         |   | -     | - |                  |
| 7      | Loan Scholarship                             |      |   |         |   | -     | - |                  |
| 8      | MoovalurRamamirthamAmmayyar Scheme           |      |   |         |   | -     | - |                  |
| 8      | Others (Specify the name of the scholarship) |      |   |         |   | -     | - |                  |
|        | Total                                        |      |   |         |   |       |   | NIL              |

## 16. Performance of the Students:

| S. No | Course        | S1   |      | S2   |      | S3   |      | S4   |      | S5   |      | S6   |      | S7   |      | S8   |      |
|-------|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|       |               | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass |
| 1     | BE Civil      | 11   | 4    | 11   | 6    | 22   | 6    | 25   | 11   | 33   | 22   | 33   | 22   | 43   | 31   | 43   | 42   |
| 2     | ME Structural | 22   | 10   | 23   | 14   | 36   | 24   | 36   | 32   |      |      |      |      |      |      |      |      |

**17. Placement Details:**

| <b>Name of the Placement co-ordinator:</b> Allwin D               |                                                                               |                            |        |
|-------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------|--------|
| <b>Phone/Mobile Number :e-mail:</b> 9842136552, win8039@gmail.com |                                                                               |                            |        |
| <b>Number of Placement Programmes:</b>                            |                                                                               |                            |        |
| S. No.                                                            | Particulars                                                                   | Numbers of students placed |        |
|                                                                   |                                                                               | Male                       | Female |
| 1                                                                 | Number of Students Placed                                                     | NIL                        | 03     |
| 2                                                                 | Number of Placements obtained through Campus Interview                        | NIL                        | 03     |
| 3                                                                 | Ratio of Placement to Students (Total no of Placement / Total no of Students) | NIL                        | 03/45  |

**18. Outstanding achievements by the Faculty Members:**

| S. No. | Name of the Faculty | Achievements | Agency |
|--------|---------------------|--------------|--------|
| 1      | NIL                 |              |        |

**19. Outstanding achievements by Students:**

| S.No. | Name of the Student | Achievements | Agency |
|-------|---------------------|--------------|--------|
| 1     |                     |              |        |

**20. Department Meetings Held :**  
 BOS,Programme Committee, Course Committee etc.

| S.No | Name                     | Date                |
|------|--------------------------|---------------------|
| 1.   | Course Committee         | 19/07/23, 23/08/23  |
| 2    | Programme Committee etc. | 08/07/23, 10/08/23, |
| 3    | Class Committee          | 21/07/23, 27/08/23, |

**21. Infrastructure and Research facilities available (Please specify equipments more than TwoLakhs Only) :**

| S. No. | Name of the Lab | Name of the Equipments/Computer/Software/ Others | Quantity | Purpose Research/Practical |
|--------|-----------------|--------------------------------------------------|----------|----------------------------|
| 1      | Structural Lab  | Loading Frame                                    | 1        | Research                   |

**22. Extension activities carried out :**

| S. No. | Name of the Activity | Beneficiaries | Date | Venue |
|--------|----------------------|---------------|------|-------|
| 1      |                      |               |      |       |
| 2      |                      |               |      |       |

**23. Department Library/Learning Resources/ Information and Language Lab:**

Name of the Librarian or Faculty in-charge of the Library:

| S. No. | Particulars                                                           | Nos. | S. No. | Particulars                                          | Nos. |
|--------|-----------------------------------------------------------------------|------|--------|------------------------------------------------------|------|
| 1      | No. of books available                                                | 1080 | 7      | No. of titles available                              | 860  |
| 2      | Books added during the year 2022-23                                   | 7    | 8      | No. of CDs and Digital Books available               | 60   |
| 3      | No. of Indian Journals/Magazines                                      | 115  | 9      | No. of Foreign Magazines/Journals                    | Nil  |
| 4      | No. of data bases available                                           | Nil  | 10     | No. of Online Journals                               | 24   |
| 5      | Average No. of students visiting the library per day                  | 3    | 11     | Average No. of books Issued per day                  | 2    |
| 6      | Availability of Internet (Specify the Capacity) (e.g. – 8 Mbps etc.,) | Nil  | 12     | Availability of Language Lab                         | Nil  |
|        |                                                                       |      | 13     | NDL membership<br>9. Faculty members<br>10. Students | Nil  |

**24. Information and Communication Technology Resources:**

| S. No. | Name of the Equipment | Specifications | Nos. | S. No. | Name of the Equipment   | Specifications | Nos. |
|--------|-----------------------|----------------|------|--------|-------------------------|----------------|------|
| 1      | Computer              |                | 4    | 5      | Scanner                 |                | 1    |
| 2      | Laptops               |                | 1    | 6      | Network                 |                | 2    |
| 3      | Printer               |                | 2    | 7      | Digital projector       |                | 1    |
| 4      | LCD Projector         |                | 1    | 8      | Interactive white board |                | 1    |

**24.Collaborative Researches :I****25.Consultancies :nil****26.No. of NET/SET/GATE/CSIR Qualified students: nil****27. MOUs signed : 17/12/2021****28. Innovations and Best Practices : nil****29. Academic Flexibility :**

| S.No | Courses offered | Platform (MOOC, NPTEL, etc.) | No. Students enrolled | No. of Students Passed |
|------|-----------------|------------------------------|-----------------------|------------------------|
|      |                 |                              |                       |                        |

## NAME OF THE DEPARTMENT: COMPUTER APPLICATIONS

### 1. Department Details :

|                                          |                                                 |
|------------------------------------------|-------------------------------------------------|
| Name of the Faculty                      | Faculty of Computer and Information Engineering |
| Name of the HoD, Phone No. and E-mail ID | Dr.J.R.Jeba                                     |
| Year of Establishment                    | 1994                                            |
| Telephone Number                         | 9486856114                                      |
| Website / E mail                         | mca@niuniv.com                                  |

### 2. Details of Faculty Members :

| S. No. | Name of the Faculty  | Qualification        | Designation               | Specialisation  | Experience in years |          | E-mail ID &Phone/Cell Phone No. |
|--------|----------------------|----------------------|---------------------------|-----------------|---------------------|----------|---------------------------------|
|        |                      |                      |                           |                 | Teaching            | Research |                                 |
| 1      | Dr.M.K.JeyaKumar     | MCA., M.Tech., Ph.D  | Professor                 | Networking      | 29                  | 17.3     | drjeyakumarmk@gmail.com         |
| 2      | Dr.J.R.Jeba          | M.C.A., M.Phil, Ph.D | Associate Professor & HOD | Data Mining     | 26                  | 15       | jeba@niuniv.com                 |
| 3      | Prof.S.Beulah        | M.C.A., M.Phil,Ph.D  | Associate Professor       | Grid Computing  | 23.6                | 5.3      | beulah@niuniv.com               |
| 4      | Dr.A.C.Subhajini     | M.S., M.Phil, Ph.D   | Assistant Professor       | Neural Networks | 18                  | 7.3      | subhajini@niuniv.com            |
| 5      | Ms.C.R.Sheela Kumari | M.C.A.,M.Phil        | Assistant Professor       |                 | 22                  |          | sheelakumari@niuniv.com         |
| 6      | Ms.M.Merlin Johnsy   | M.C.A.,M.Phil        | Assistant Professor       |                 | 17                  |          | merlinjohnsy@niuniv.com         |
| 7      | Ms.M.Tharanya,       | M.C.A.,M.Phil        | Teaching Faculty          |                 |                     |          | tharana@niuniv.com              |

### 3. Faculty Members Achievements / Performance:

| S. No. | Name                | h index |            | Publications |            | Citations |            | API   |            | M.Phil. awarded |            | Ph.D. awarded |            | Cumulative Scholars |       |
|--------|---------------------|---------|------------|--------------|------------|-----------|------------|-------|------------|-----------------|------------|---------------|------------|---------------------|-------|
|        |                     | 22-23   | Cumulative | 22-23        | Cumulative | 22-23     | Cumulative | 22-23 | Cumulative | 22-23           | Cumulative | 22-23         | Cumulative | M. Phil             | Ph.D. |
| 1.     | Dr. M.K.Jeyakumar   | 12      |            | 7            |            | 66        |            |       |            |                 |            |               |            |                     |       |
| 2.     | Dr. J.R. Jeba       | 7       |            | 3            |            | 19        |            |       |            |                 |            |               |            |                     |       |
| 3.     | Dr. S. Beulah       | 3       |            | -            |            | 3         |            |       |            |                 |            |               |            |                     |       |
| 4.     | Dr. A. C. Subhajini | 9       |            | -            |            | 41        |            |       |            |                 |            |               |            |                     |       |

#### 4.. Research Schemes/Projects undertaken :

| S. No. | Name of the Principal Investigator | Funding Agency | Title of the Project | Duration |    | Amount Rs. |
|--------|------------------------------------|----------------|----------------------|----------|----|------------|
|        |                                    |                |                      | From     | To |            |
| 1      |                                    |                |                      |          |    |            |

#### 5. a) Participation of the Faculty members, presentation of papers in Congresses/Conferences/Seminars/Workshops,Symposia, etc.

| S. No. | Name of the Faculty    | Congress/ConferenceSeminar /Workshop and Venue | Title of the paper                                                            | Date                     |
|--------|------------------------|------------------------------------------------|-------------------------------------------------------------------------------|--------------------------|
| 1.     | Dr. J.R. Jeba          | Seminar                                        | Professional Development Programme on Microsoft Azure Fundamentals            | 17-12-2022               |
| 2.     | Dr. J.R. Jeba          | Workshop                                       | Workshop on Agile Methodology and web Application Development                 | 24-02-2023 & 25-02-2023  |
| 3.     | Dr. J.R. Jeba          | Seminar                                        | Faculty Development Programme on Cloud Practitioner                           | 27-03-2023 to 31-03-2023 |
| 4.     | Dr. J.R. Jeba          | Conference                                     | International Conference on Networking and Computer Applications (ICNCA 2023) | 05-05-2023               |
| 5.     | Dr. S. Beulah          | Seminar                                        | Professional Development Programme on Microsoft Azure Fundamentals            | 17-12-2022               |
| 6.     | Dr. S. Beulah          | Workshop                                       | Workshop on Agile Methodology and web Application Development                 | 24-02-2023 & 25-02-2023  |
| 7.     | Dr. S. Beulah          | Seminar                                        | Faculty Development Programme on Cloud Practitioner                           | 27-03-2023 to 31-03-2023 |
| 8.     | Dr. S. Beulah          | Conference                                     | International Conference on Networking and Computer Applications (ICNCA 2023) | 05-05-2023               |
| 9.     | Ms. C.R. Sheela Kumari | Workshop                                       | Workshop on Agile Methodology and web Application Development                 | 24-02-2023 & 25-02-2023  |
| 10.    | Ms. C.R. Sheela Kumari | Seminar                                        | Faculty Development Programme on Cloud Practitioner                           | 27-03-2023 to 31-03-2023 |
| 11.    | Ms. C.R. Sheela Kumari | Conference                                     | International Conference on Networking and Computer Applications (ICNCA 2023) | 05-05-2023               |

| S. No. | Name of the Faculty  | Congress/Conference/Seminar /Workshop and Venue | Title of the paper                                                            | Date                     |
|--------|----------------------|-------------------------------------------------|-------------------------------------------------------------------------------|--------------------------|
| 12.    | Ms. M. Merlin johnsy | FDP                                             | National Intellectual Property Awareness Mission                              | 21-12-2022               |
| 13.    | Ms. M. Merlin johnsy | FDP                                             | Applications of Image Processing in MATLAB                                    | 12-12-2022 to 16-12-2022 |
| 14.    | Ms. M. Merlin johnsy | FDP                                             | Innovation Incubation and Entrepreneurship                                    | 19-12-2022 to 23-12-2022 |
| 15.    | Ms. M. Merlin johnsy | Workshop                                        | Workshop on Agile Methodology and web Application Development                 | 24-02-2023 & 25-02-2023  |
| 16.    | Ms. M. Merlin johnsy | Conference                                      | International Conference on Networking and Computer Applications (ICNCA 2023) | 05-05-2023               |
| 17.    | Ms. M. Tharanya      | Workshop                                        | Workshop on Agile Methodology and web Application Development                 | 24-02-2023 & 25-02-2023  |
| 18.    | Ms. M. Tharanya      | Seminar                                         | Faculty Development Programme on Cloud Practitioner                           | 27-03-2023 to 31-03-2023 |
| 19.    | Ms. M. Tharanya      | Conference                                      | International Conference on Networking and Computer Applications (ICNCA 2023) | 05-05-2023               |

**b) Foreign Faculty/Expert visit to the Department:**

| S. No. | Name & Designation | Institute | Country | Duration | Purpose |
|--------|--------------------|-----------|---------|----------|---------|
| 1      |                    |           |         |          |         |

**6. Faculty acted as Chief Guest, Key note Speakers, Resource Person, Chair Person, External experts, etc. :**

| S. No. | Name of the Faculty member | Role            | Event      | Title                                                                         | Venue & Date      |
|--------|----------------------------|-----------------|------------|-------------------------------------------------------------------------------|-------------------|
| 1.     | Dr. J.R. Jeba              | Technical Chair | Conference | International Conference on Networking and Computer Applications (ICNCA 2023) | NICHE, 05-05-2023 |
| 2.     | Dr. S. Beulah              | Technical Chair | Conference | International Conference on                                                   | NICHE, 05-05-2023 |

| S. No. | Name of the Faculty member | Role            | Event      | Title                                                                         | Venue & Date      |
|--------|----------------------------|-----------------|------------|-------------------------------------------------------------------------------|-------------------|
|        |                            |                 |            | Networking and Computer Applications (ICNCA 2023)                             |                   |
| 3.     | Ms. C.R. Sheela Kumari     | Technical Chair | Conference | International Conference on Networking and Computer Applications (ICNCA 2023) | NICHE, 05-05-2023 |
| 4.     | Ms. M. Merlin johnsy       | Technical Chair | Conference | International Conference on Networking and Computer Applications (ICNCA 2023) | NICHE, 05-05-2023 |

#### 7. Details of Seminars, Conferences, Refresher courses, Webminars Organised :

| S. No. | Name of the Faculty member | Congress/Conference/Seminar/ Workshop/Symposia , Webmniars etc. organized | State/National/ International Level | Date |
|--------|----------------------------|---------------------------------------------------------------------------|-------------------------------------|------|
| 1.     |                            |                                                                           |                                     |      |

#### 8. Publication of Research Papers at the State/National/International Levels:

| S. No. | Author(s)                    | Title of the paper                                                                                                  | Journal with ISSN/Sco pus/SCI/U GC care                    | Volume No. Issue No.                    | Year of Publication         | Page(pp) |
|--------|------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------|-----------------------------|----------|
| 1.     | Pradeepa P, M.K.Jeyakumar    | “Modelling of IDBN with LSNN based optimal feature selection for the prediction of CKD using real time data”        | Multimedia Tools and Applications,(Springer Nature), 2023, | pp. 6309–634                            | 3 <sup>rd</sup> August 2022 |          |
| 2.     | Pradeepa P and M.K.Jeyakumar | ,”Data Redundancy Removal using K-MAD based Self Tuning Spectral Clustering and CKD Prediction using ML Techniques” | Journal of Current Science and Technology ,                | ISSN 2630-0656, vol. 12(3), PP- 517-537 | Sep-22                      |          |

| S. No. | Author(s)                             | Title of the paper                                                                                 | Journal with ISSN/Sco pus/SCI/UGC care                                                  | Volume No. Issue No.      | Year of Publication | Page(pp) |
|--------|---------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------|---------------------|----------|
| 3.     | G. Jasmine Christabel, A.C. Subhajini | Modified squirrel Algorithm for fault Tolerance using photoplethysmography in IOT Applications     | International Conference on Electronics, Communication and Aerospace Technology (ICECA) | 978-1-6654-3524-6         | Sep 2021            |          |
| 4.     | Ahila T,A.C.Subhajini                 | Deep Learning Approach for Covid-19 Detection                                                      | International Journal of Advance and Innovative Research                                | 2394-7780                 | Sep 2021            |          |
| 5.     | Ahila T,A.C.Subhajini                 | covid 19 Detection using Chest X-Ray                                                               | Computer Science and Applications                                                       | 2349-6002                 | Jun-22              |          |
| 6.     | Ahila T,A.C.Subhajini                 | E-GCS Detection of covid 19 through classification by attention bottleneck residual neural network | Engineering Applications of Artificial Intelligence                                     | 0952-1976/1873-6769       | Aug-22              |          |
| 7.     | Ahila T,A.C.Subhajini                 | covid 19 classification with medical image using ABRESNet                                          |                                                                                         | <a href="#">2277-7067</a> | Sep-22              |          |
| 8.     | Ahila T,A.C.Subhajini                 | Evaluation and Classification of cov-19 with Attention Bottleneck Residual Neural Network          | Semiconductor Optoelectronics                                                           | 1001-5868                 | Nov-22              |          |
| 9.     | M. Chithambarathu, M. K. Jeyakumar,   | Survey on crop pest detection using deep learning and machine learning approaches”,                | Multimedia Tools and Applications                                                       | 1007/s11042-023-15221     | 11-Apr-23           |          |
| 10.    | Ahila T,A.C.Subhajini                 | Covid-19 Segmentation with particle swarm Optimization Technique using X-Ray Images                | Conference Proceeding Issue Published in International                                  | 2394-9333                 | Apr-23              |          |

| S. No. | Author(s) | Title of the paper | Journal with ISSN/Sco pus/SCI/UGC care                   | Volume No. Issue No. | Year of Publication | Page(pp) |
|--------|-----------|--------------------|----------------------------------------------------------|----------------------|---------------------|----------|
|        |           |                    | al Journal of Trend in Research and Development (IJTRD), |                      |                     |          |

#### 9. Details of patents applied/awarded:

| S.No. | Name of the Faculty member | Title                                                                              | Date of filling | Application No. | Award No. |
|-------|----------------------------|------------------------------------------------------------------------------------|-----------------|-----------------|-----------|
| 1.    | Dr. J.R. Jeba              | Machine Learning Based Approaches For Rainfall Predication System For Smart Cities | 07-07-2023      | 202341041525 A  |           |

#### 10. Publications of Books/Monographs:

| S. No. | Author(s) | Name of the Book with ISBN | Publisher/Place | Year |
|--------|-----------|----------------------------|-----------------|------|
| 1      |           |                            |                 |      |

### 11. Courses offered, Sanctioned Strength of Students and Enrolment details:

| S. NO. | Name of the Programme / Branch of study | Sancti oned Stren gth | Enrolment during 2022-23 |    | Tota l | Community |   |    |    |     |   |          |   |    |   |     |   |    |   | Existing Students, Strength |   |          |   |         |   |   |   | Pass Percenta ge of out going batch |
|--------|-----------------------------------------|-----------------------|--------------------------|----|--------|-----------|---|----|----|-----|---|----------|---|----|---|-----|---|----|---|-----------------------------|---|----------|---|---------|---|---|---|-------------------------------------|
|        |                                         |                       | F                        | M  |        | OC        |   | BC |    | BCM |   | MBC/ DNC |   | SC |   | SCA |   | ST |   | II year                     |   | III year |   | IV year |   |   |   |                                     |
|        |                                         |                       |                          |    |        | M         | F | M  | F  | M   | F | M        | F | M  | F | M   | F | M  | F | M                           | F | M        | F | M       | F | M | F |                                     |
|        | UG Programme                            | 30                    | 3                        | 13 | 16     | 2         | 3 | 8  | 1  | 0   | 0 | 3        | 2 | 0  | 0 | 0   | 0 | 0  | 0 |                             |   |          |   |         |   |   |   |                                     |
|        | PG Courses                              | 30                    | 25                       | 13 | 38     | 1         | 2 | 14 | 10 | 0   | 0 | 7        | 1 | 3  | 0 | 0   | 0 | 0  | 0 |                             |   |          |   |         |   |   |   |                                     |
|        | Ph.D Programme                          |                       |                          |    |        |           |   |    |    |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |   |   |                                     |
|        | Diploma Certificate Courses (if any)    |                       |                          |    |        |           |   |    |    |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |   |   |                                     |
|        | MOOC/NPTEL/UG C online courses offered  |                       |                          |    |        |           |   |    |    |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |   |   |                                     |
|        | Total                                   | 60                    |                          |    |        |           |   |    |    |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |   |   |                                     |

**12. Enrolment of Students from Overseas and other States:**

| S. No. | Degree and Subject | Nationality | State  | Number of Students |        | Total |
|--------|--------------------|-------------|--------|--------------------|--------|-------|
|        |                    |             |        | Male               | Female |       |
| 1.     | BCA                | Indian      | Kerala | 4                  | 0      | 4     |

**13. U.G./P.G. and Research degrees awarded:**

| S. No | UG |       | P.G. |       | M. Phil. |    |    |       | Ph.D. |    |    |       |
|-------|----|-------|------|-------|----------|----|----|-------|-------|----|----|-------|
|       |    | Total |      | Total |          | FT | PT | Total |       | FT | PT | Total |
| 1.    |    |       |      | 19    |          |    |    |       |       |    |    | 3     |

**14. Fellowships Awarded (National/International) Faculty/Students Stipend awarded :**

| S. No. | Agency | Position<br>(URF/JRF/SRF/RA/<br>others) | Number of Fellowships |   | Total |
|--------|--------|-----------------------------------------|-----------------------|---|-------|
|        |        |                                         | M                     | F |       |
| 1      |        |                                         |                       |   |       |

**15.Scholarships Awarded:**

| S. No. | Nature of Scholarship                    | P.G. |   | M.Phil. |   | Ph.D. |   | Total Amount Rs. |
|--------|------------------------------------------|------|---|---------|---|-------|---|------------------|
|        |                                          | M    | F | M       | F | M     | F |                  |
| 1      | B.C.(State)                              |      |   |         |   |       |   |                  |
| 2      | B.C.M.(State)                            |      |   |         |   |       |   |                  |
| 3      | M.B.C./D.N.C.(State)                     |      |   |         |   |       |   |                  |
| 4      | SC/SCA/ST(National)                      |      |   |         |   |       |   |                  |
| 5      | SC/SCA/ST(State)                         |      |   |         |   |       |   |                  |
| 6      | Management Scholar ship                  |      |   |         |   |       |   |                  |
| 7      | Loan Scholarship                         |      |   |         |   |       |   |                  |
| 8      | Moovalur Ramamirtham Ammaiyar Scheme     |      |   |         |   |       |   |                  |
| 9      | 'Pudhumai Penn' (modern woman)           |      |   |         |   |       |   |                  |
| 10     | Others ( please Specify the scholarship) |      |   |         |   |       |   |                  |
|        | Total                                    |      |   |         |   |       |   |                  |

**16. Performance of the Students :**

| S. No | Course | S1   |      | S2   |      | S3   |      | S4   |      | S5   |      | S6   |      | S7   |      | S8   |      |
|-------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|       |        | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass |
| 1.    | MCA    | 36   | 16   | 29   | 13   | 37   | 16   | 36   | 30   | -    | -    | -    | -    | -    | -    | -    | -    |
| 2.    | BCA    | 15   | 5    | 13   | 5    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |

**17. Placement Details:**

| Name of the Placement co-ordinator: Ms. C. R. Sheela Kumari       |                           |  |  |  |  |  |  |                            |  |  |        |  |
|-------------------------------------------------------------------|---------------------------|--|--|--|--|--|--|----------------------------|--|--|--------|--|
| Phone/Mobile Number :e-mail: , 6385496179,sheelakumari@niuniv.com |                           |  |  |  |  |  |  |                            |  |  |        |  |
| Number of Placement Programmes:                                   |                           |  |  |  |  |  |  |                            |  |  |        |  |
| S. No.                                                            | Particulars               |  |  |  |  |  |  | Numbers of students placed |  |  |        |  |
|                                                                   |                           |  |  |  |  |  |  | Male                       |  |  | Female |  |
| 1                                                                 | Number of Students Placed |  |  |  |  |  |  | 2                          |  |  | 3      |  |

|   |                                                                               |   |   |
|---|-------------------------------------------------------------------------------|---|---|
| 2 | Number of Placements obtained through Campus Interview                        | 2 | 2 |
| 3 | Ratio of Placement to Students (Total no of Placement / Total no of Students) |   |   |

**18. Outstanding achievements by the Faculty Members:**

| S. No. | Name of the Faculty | Achievements | Agency |
|--------|---------------------|--------------|--------|
| 1      |                     |              |        |

**19. Outstanding achievements by Students:**

| S.No. | Name of the Student | Achievements                                    | Agency                              |
|-------|---------------------|-------------------------------------------------|-------------------------------------|
| 1.    | AISHA BEEVI A       | KHO-KHO                                         | Annual University Sports Meet,NICHE |
| 2.    | AISHA BEEVI A       | Drawing Competition on International Womens Day | NIMS Educational Trust              |
| 3.    | AISHA BEEVI A       | Kabbadi                                         | Annual University Sports Meet,NICHE |
| 4.    | AISHA BEEVI A       | Throw Ball                                      | Annual University Sports Meet,NICHE |

**20. Department Meetings Held :  
BOS,Programme Committee, Course Committee etc.**

| S.No | Name                | Date                                                                                  |  |
|------|---------------------|---------------------------------------------------------------------------------------|--|
| 1.   | Course Committee    | 20-07-2022,<br>27-07-2022,<br>29-11-2022,<br>03-01-2023,                              |  |
| 2.   | Programme Committee | 16-11-2022,<br>12-12-2022,<br>03-02-2023,<br>05-04-2023,<br>12-05-2023,<br>21-06-2023 |  |
| 3.   | BOS                 | 24-02-2023,<br>15-06-2023                                                             |  |

**21. Infrastructure and Research facilities available (Please specify equipments more than Two Lakhs Only) :**

| S. No. | Name of the Lab | Name of the Equipments/Computer/Software/Others | Quantity | Purpose Research/Practical |
|--------|-----------------|-------------------------------------------------|----------|----------------------------|
| 1.     |                 |                                                 |          |                            |

**22. Extension activities carried out :**

| S. No. | Name of the Activity | Beneficiaries | Date | Venue |
|--------|----------------------|---------------|------|-------|
| 1      |                      |               |      |       |

**23. Department Library/Learning Resources/ Information and Language Lab:**

Name of the Librarian or Faculty in-charge of the Library: Dr. S. Beulah

| S. No. | Particulars                                                          | Nos. | S. No. | Particulars                                           | Nos. |
|--------|----------------------------------------------------------------------|------|--------|-------------------------------------------------------|------|
| 1      | No. of books available                                               | 1155 | 7      | No. of titles available                               | -    |
| 2      | Books added during the year 2022-23                                  | 8    | 8      | No. of CDs and Digital Books available                | -    |
| 3      | No. of Indian Journals/Magazines                                     | -    | 9      | No. of Foreign Magazines/Journals                     | -    |
| 4      | No. of data bases available                                          | -    | 10     | No. of Online Journals                                | -    |
| 5      | Average No. of students visiting the Library per day                 | -    | 11     | Average No. of books Issued per day                   | -    |
|        |                                                                      |      | 12     | No. of digital books                                  | -    |
| 6      | Availability of Internet (Specify the Capacity) (e.g. – 8 Mbps etc.) | -    | 13     | Availability of Language Lab                          | -    |
|        |                                                                      |      | 14     | NDL membership<br>11. Faculty members<br>12. Students | -    |

**24. Information and Communication Technology Resources:**

| S. No. | Name of the Equipment | Specifications                                                                                    | Nos. | S. No. | Name of the Equipment | Specifications | Nos. |
|--------|-----------------------|---------------------------------------------------------------------------------------------------|------|--------|-----------------------|----------------|------|
| 1.     | Computer              | Intel core i7-12700-2.10 GHz/16GB DDR4 RAM/ 500 GB M-2 NVME SSD HDD/ 22" Monitor/ Keyboard/ Mouse | 50   |        |                       |                |      |
| 2.     | Computer              | Intel I3 10100 10th Gen 3.6 Ghz 4GB DDR4,, 250 GB HDD, 19" LED Monitor / keyboard/ Mouse          | 26   |        |                       |                |      |

**24.Collaborative Researches :****25.Consultancies :****26.No. of NET/SET/GATE/CSIR Qualified students:****27. MOUs signed :**

| S.No | Date | MoU signed with | Number of Activities | Remarks |
|------|------|-----------------|----------------------|---------|
|      |      |                 |                      |         |

**28. Innovations and Best Practices :****29. Academic Flexibility :**

| S.No | Courses offered | Platform (MOOC, NPTEL, etc.) | No. Students enrolled | No. of Students Passed |
|------|-----------------|------------------------------|-----------------------|------------------------|
|      |                 |                              |                       |                        |

## NAME OF THE DEPARTMENT: COMPUTER SCIENCE AND ENGINEERING

### 1. Department Details:

|                                          |                                                   |
|------------------------------------------|---------------------------------------------------|
| Name of the Faculty                      | ICE                                               |
| Name of the HoD, Phone No. and E-mail ID | Dr. V. G. Ranjith, 9994272962, ranjith@niuniv.com |
| Year of Establishment                    | 1989                                              |
| Telephone Number                         | 9994272962                                        |
| Website / E mail                         | www.niuniv.com                                    |

### 2. Details of Faculty Members:

| S. No. | Name of the Faculty    | Qualification       | Designation         | Specialisation                                           | Experience in years |          | E-mail ID &Phone/Cell Phone No.                                                                                                                |
|--------|------------------------|---------------------|---------------------|----------------------------------------------------------|---------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------|
|        |                        |                     |                     |                                                          | Teaching            | Research |                                                                                                                                                |
| 1.     | Dr. A. Shajin Nargunam | M.E., Ph.D.         | Professor           | Wireless Networks , Cloud and Network Security           | 26                  | 20       | <a href="mailto:shajin@niuniv.com">shajin@niuniv.com</a><br>9488347699                                                                         |
| 2.     | Dr.J.E Judith          | B.E.,M.E.,Ph.D      | Associate Professor | Machine Learning, Big Data Analytics                     | 19.5                | 13       | <a href="mailto:judith@niuniv.com">judith@niuniv.com</a><br>9443130175                                                                         |
| 3.     | Dr. A. Anitha          | M.E., Ph.D.         | Associate Professor | Wireless Networks                                        | 15                  | 13       | <a href="mailto:anithadathi@gmail.com">anithadathi@gmail.com</a><br>9486473593                                                                 |
| 4.     | Dr. V. G. Ranjith      | M Tech., PhD        | AP & Head           | Image Processing                                         | 21.2                | 7        | <a href="mailto:ranjith@niuniv.com">ranjith@niuniv.com</a><br>9994272962                                                                       |
| 5.     | Dr. G. Venifa Mini     | B.E.,M.E., Ph.D     | Assistant Professor | Cloud Security                                           | 18.11               | -        | <a href="mailto:vmminijohnny@gmail.com">vmminijohnny@gmail.com</a><br>9442634526                                                               |
| 6.     | Dr. P. Venkadesh       | M.E., Ph.D.         | Assistant Professor | Network Security                                         | 13                  | 11       | <a href="mailto:pvenkadesh2002@gmail.com">pvenkadesh2002@gmail.com</a><br>9994433554                                                           |
| 7.     | Mrs. S. Safrin         | M.E.,               | Assistant Professor | Machine Learning                                         | 3                   | -        | <a href="mailto:safrin310@gmail.com">safrin310@gmail.com</a><br>7402166048                                                                     |
| 8.     | Mr. Jebin Bose S       | M.E., <u>Ph. D.</u> | Assistant Professor | Data Analytics Machine Learning, Artificial Intelligence | 1.3                 | 2.9      | <a href="mailto:jebinbores@gmail.com">jebinbores@gmail.com</a><br><a href="mailto:jebinbose@niuniv.com">jebinbose@niuniv.com</a><br>9488071631 |
| 9.     | Mr. Jelin Taric        | B.E, M.Tech         | Assistant Professor | Data Science,                                            | 4.5                 | -        | <a href="mailto:jelintaric@gmail.com">jelintaric@gmail.com</a>                                                                                 |

| S. No. | Name of the Faculty | Qualification | Designation         | Specialisation   | Experience in years |          | E-mail ID &Phone/Cell Phone No.                                                |
|--------|---------------------|---------------|---------------------|------------------|---------------------|----------|--------------------------------------------------------------------------------|
|        |                     |               |                     |                  | Teaching            | Research |                                                                                |
|        |                     |               |                     | Network Security |                     |          | <a href="mailto:jelintaric@niuniv.com">jelintaric@niuniv.com</a><br>8220320200 |
| 10.    | C. R. Jothy         | B.E., M.E.    | Assistant Professor | Image Processing | 5.6                 |          | <a href="mailto:crjothiesh@gmail.com">crjothiesh@gmail.com</a><br>9443193263   |

### 3. Faculty Members Achievements / Performance:

| S. No. | Name                   | h index |            | Publications |            | Citations |            | API   |            | M.Phil. awarded |            | Ph.D. awarded |            | Cumulative Scholars |       |
|--------|------------------------|---------|------------|--------------|------------|-----------|------------|-------|------------|-----------------|------------|---------------|------------|---------------------|-------|
|        |                        | 22-23   | Cumulative | 22-23        | Cumulative | 22-23     | Cumulative | 22-23 | Cumulative | 22-23           | Cumulative | 22-23         | Cumulative | M. Phil             | Ph.D. |
| 1.     | Dr. A. Shajin Nargunam | 1       | 5          | 4            | 45         | 15        | 87         | -     | -          | -               | -          | 2             | 10         | -                   | 8     |
| 2.     | Dr. V. G. Ranjith      | 1       | 1          | 1            | 3          | 3         | 3          | -     | -          | -               | -          | -             | -          | -                   | -     |
| 3.     | Dr. J. E. Judith       | -       | 4          | 2            | 21         | 15        | 59         | -     | -          | -               | -          | 1             | 1          | -                   | 6     |
| 4.     | Dr. A. Anitha          | 2       | 5          | 5            | 34         | 44        | 73         | -     | -          | -               | -          | 2             | 2          | -                   | 6     |
| 5.     | Dr. G. Venifa Mini     | -       | 3          | -            | 7          | 8         | 23         | -     | -          | -               | -          | -             | -          | -                   | -     |
| 6.     | Dr. P. Venkadesh       | -       | 1          | 5            | 14         | 7         | 22         | -     | -          | -               | -          | -             | -          | -                   | 6     |
| 8.     | Mr. S. Jebin Bose      | 1       | 1          | 3            | 5          | 5         | 5          | -     | -          | -               | -          | -             | -          | -                   | -     |

### 4.. Research Schemes/Projects undertaken :

| S. No. | Name of the Principal Investigator | Funding Agency | Title of the Project | Duration |     | Amount Rs. |
|--------|------------------------------------|----------------|----------------------|----------|-----|------------|
|        |                                    |                |                      | From     | To  |            |
| 1      | NIL                                | NIL            | NIL                  | NIL      | NIL | NIL        |

### 5. a) Participation of the Faculty members, presentation of papers in Congresses/Conferences/Seminars/Workshops,Symposia, etc.

| S. No. | Name of the Faculty    | Congress/Conference/Seminar /Workshop and Venue                              | Title of the paper                                                | Date      |
|--------|------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------|
| 1.     | Dr. A. Shajin Nargunam | 6th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and | An Efficient and Secure Data Sharing Scheme for Ciphertext-Policy | Dec, 2022 |

| S. No. | Name of the Faculty | Congress/Conference/Seminar /Workshop and Venue                                   | Title of the paper                                                                                                                  | Date         |
|--------|---------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------|
|        |                     | Cloud)                                                                            | Attribute-based Signcryption for Cloud Storage Services                                                                             |              |
| 2.     | Dr. V. G. Ranjith   | Transfer Learning Based On Code Search                                            | National Conference On Innovative Research In Advanced Computing, NICHE                                                             | Apr'11, 2023 |
| 3.     | Dr. V. G. Ranjith   | Finding Missing Person Using AI                                                   | National Conference On Innovative Research In Advanced Computing, NICHE                                                             | Apr'11, 2023 |
| 4.     | Dr. J. E. Judith    | Enhanced Method In Semantic Image Style Transfer                                  | National Conference On Innovative Research In Advanced Computing, NICHE                                                             | Apr'11, 2023 |
| 5.     | Dr. J. E. Judith    | Patient Diabetes Prediction System Based On Machine Learning Models               | National Conference On Innovative Research In Advanced Computing, NICHE                                                             | Apr'11, 2023 |
| 6.     | Dr. J. E. Judith    | Review on Automated Leaf Disease Prediction System                                | Proceedings of the ACCTHPA 2023 - Conference on Advanced Computing and Communication Technologies for High Performance Applications | January 2023 |
| 7.     | Dr. J. E. Judith    | Semantic Image Style Transfer                                                     | Proceedings of the ACCTHPA 2023 - Conference on Advanced Computing and Communication Technologies for High Performance Applications | January 2023 |
| 8.     | Dr. J. E. Judith    | A Review of Deep Learning-based Human Activity Recognition System                 | National Conference On Innovative Research In Advanced Computing, NICHE                                                             | Apr'11, 2023 |
| 9.     | Dr. A. Anitha       | Efficient Attention-Based Dynamic Patch Fusion For Face-Based Age Estimation      | National Conference On Innovative Research In Advanced Computing, NICHE                                                             | Apr'11, 2023 |
| 10.    | Dr. A. Anitha       | A Review on Finger-Vein-Based Identity Recognition using deep learning Techniques | National Conference On Innovative Research In Advanced Computing, NICHE                                                             | Apr'11, 2023 |
| 11.    | Dr. A. Anitha       | IOT Based Cattle Monitoring System                                                | National Conference On Innovative Research In Advanced Computing, NICHE                                                             | Apr'11, 2023 |

| S. No. | Name of the Faculty | Congress/Conference/Seminar /Workshop and Venue                                             | Title of the paper                                                                  | Date         |
|--------|---------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|
| 12.    | Dr. A. Anitha       | <i>Large Data Block Transmission in VANET</i>                                               | Advanced Computing and Communication Technologies for High Performance Applications | Jan. 2023    |
| 13.    | Dr. A. Anitha       | Medicine Reminder Application                                                               | National Conference On Innovative Research In Advanced Computing, NICHE             | Apr'11, 2023 |
| 14.    | Dr. A. Anitha       | <i>Implicit identification of biometric gait pattern with multilayered back propagation</i> | AIP Conference Proceeding                                                           | August 2022  |
| 15.    | Dr. A. Anitha       | <i>Chatbot-An Intelligent Virtual Medical Assistant</i>                                     | International Conference on Cognition and Recognition                               | August 2022  |
| 16.    | Dr. A. Anitha       | Driver Drowsiness Monitoring System Using Visual Behaviour and Machine Learning             | National Conference On Innovative Research In Advanced Computing, NICHE             | Apr'11, 2023 |
| 17.    | Dr. G. Venifa Mini  | Development of Fishermen Border Alert System with IOT                                       | National Conference On Innovative Research In Advanced Computing, NICHE             | Apr'11, 2023 |
| 18.    | Dr. G. Venifa Mini  | Assisting Alzheimer Patient Using IoT                                                       | National Conference On Innovative Research In Advanced Computing, NICHE             | Apr'11, 2023 |
| 19.    | Dr. G. Venifa Mini  | Autonomous Waste Collecting Boat                                                            | National Conference On Innovative Research In Advanced Computing, NICHE             | Apr'11, 2023 |
| 20.    | Dr. G. Venifa Mini  | Blind Person Walking Stick with Obstacle Detection and Voice Feedback                       | National Conference On Innovative Research In Advanced Computing, NICHE             | Apr'11, 2023 |
| 21.    | Ms. S. Safrin       | Iris Detection Based On Convolutional Neural Network                                        | National Conference On Innovative Research In Advanced Computing, NICHE             | Apr'11, 2023 |
| 22.    | Ms. S. Safrin       | Multi Class classification Of Malignant Brain Tumor Using Machine Learning                  | National Conference On Innovative Research In Advanced Computing, NICHE             | Apr'11, 2023 |
| 23.    | Ms. S. Safrin       | Helmet And Number Plate Detection Using Deep Learning                                       | National Conference On Innovative Research In Advanced Computing, NICHE             | Apr'11, 2023 |

| S. No. | Name of the Faculty | Congress/Conference/Seminar /Workshop and Venue                                                      | Title of the paper                                                                 | Date         |
|--------|---------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------|
| 24.    | Ms. S. Safrin       | An Outcome Based Analysis on Heart Disease Prediction                                                | National Conference On Innovative Research In Advanced Computing, NICHE            | Apr'11, 2023 |
| 25.    | Mr. S.Jebin Bose    | A state-of-the-art Analysis of Android Malware Detection Methods                                     | 2022 6th International Conference on Trends in Electronics and Informatics (ICOEI) | 2022         |
| 26.    | Mr. G. Jelin Taric  | Anatomy-Regularized Representation Learning Approach For Image Segmentation-Oriented Cross-Modality  | National Conference On Innovative Research In Advanced Computing, NICHE            | Apr'11, 2023 |
| 27.    | Mr. G. Jelin Taric  | Enhancing Security Of Health Information Using Modular Encryption Standard In Mobile Cloud Computing | National Conference On Innovative Research In Advanced Computing, NICHE            | Apr'11, 2023 |
| 28.    | Mr. G. Jelin Taric  | Small Holder Farmers In Sustainable Supply Chain Using Blockchain                                    | National Conference On Innovative Research In Advanced Computing, NICHE            | Apr'11, 2023 |
| 29.    | Mr. G. Jelin Taric  | Drowsiness Detection System With Artificial Intelligence                                             | National Conference On Innovative Research In Advanced Computing, NICHE            | Apr'11, 2023 |
| 30.    | Ms. C. R. Jothy     | Music Suggestion Using Facial Emotion Recognition                                                    | National Conference On Innovative Research In Advanced Computing, NICHE            | Apr'11, 2023 |
| 31.    | Ms. C. R. Jothy     | Votechain – A Blockchain Based E-Voting System For Secure And Reliable Voting                        | National Conference On Innovative Research In Advanced Computing, NICHE            | Apr'11, 2023 |

**b) Foreign Faculty/Expert visit to the Department:**

| S. No. | Name & Designation | Institute | Country | Duration | Purpose |
|--------|--------------------|-----------|---------|----------|---------|
| 1      | NIL                | NIL       | Nil     | NIL      | NIL     |

**6. Faculty acted as Chief Guest, Key note Speakers, Resource Person, Chair Person, External experts, etc. :**

| S. No. | Name of the Faculty member | Role               | Event                                                                                              | Title                                                                                      | Venue & Date                                                                   |
|--------|----------------------------|--------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 1      | Dr. J.E. Judith            | Technical Reviewer | IEEE International Conference on Circuit Power and Computing Technologies 2023                     | IEEE International Conference on Circuit Power and Computing Technologies 2023             | Baselious Mathews II College of Engineering, 10th and 11th August 2023.        |
| 2.     | Dr. J.E. Judith            | DC Member          | Constitution of Doctoral Committee                                                                 | Doctoral Committee                                                                         | Anna University , 09-08-2023                                                   |
| 3.     | Dr. J.E. Judith            | Reviewer           | IEEE International Conference on Networks, Multimedia and Information Technology (NMITCON)         | IEEE International Conference on Networks, Multimedia and Information Technology (NMITCON) | Nitte Meenakshi Institute of Technology, Bengaluru, 1st and 2nd September 2023 |
| 4.     | Dr. J.E. Judith            | Journal Reviewer   | Asian Journal of Research in Computer Science                                                      |                                                                                            | Asian Journal of Research in Computer Science, 24-Mar-2023                     |
| 5.     | Dr. J.E. Judith            | Academic Editor    | Journal of Advances in Mathematics and Computer Science                                            |                                                                                            | 19-09-2023 to 18-09-2027                                                       |
| 6.     | Dr. A. Anitha              | Resource Person    | National Level workshop                                                                            | Fundamental concepts of computer and logic design                                          | Dr. T. Thimmaiah Institute of Technology, 09-01-2023 & 13-01-2023              |
| 7.     | Dr. A. Anitha              | Reviewer           | International conference Intelligent Techniques in computer and Engineering Science (ITCES - 2023) |                                                                                            | College of Perumon, 15th & 16th June 2023                                      |
| 8.     | Dr. A. Anitha              | DC Member          | Constitution of Doctoral Committee                                                                 | Doctoral Committee                                                                         | Anna University , 27-02-2023                                                   |
| 9.     | Dr. A. Anitha              | Reviewer           | Journal Transactions on Engineering Management                                                     | Social Media Health related Information Credibility and Reliability                        | Transactions on Engineering Management, 30-Aug-2022                            |

| S. No. | Name of the Faculty member | Role     | Event                         | Title                                                                                                                           | Venue & Date                                                            |
|--------|----------------------------|----------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| 10.    | Dr. A. Anitha              | Reviewer | Inderscience                  | A method of evaluating the Quality of teaching Reform based on fuzzy comprehensive evaluation                                   | International Journal of Business Intelligence and Data Mining          |
| 11.    | Dr. A. Anitha              | Reviewer | IEEE International Conference | IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI-2022), | IEEE MP Section and<br>ABV-IIITM Gwalior, India on 21-23 December 2022. |

#### 7. Details of Seminars, Conferences, Refresher courses, Webinars Organised :

| S. No. | Name of the Faculty member | Congress/Conference/Seminar/ Workshop/Symposia , Webmniars etc. organised | State/National/ International Level | Date       |
|--------|----------------------------|---------------------------------------------------------------------------|-------------------------------------|------------|
| 1      | Dr. J. E. Judith           | Seminar                                                                   | State                               | 30-01-2023 |
| 2      | Dr. A. Anitha              | Alumni Interaction                                                        | State                               | 03-03-2023 |
| 3      | Dr. V. G. Ranjith          | Seminar                                                                   | State                               | 13-03-2023 |
| 4      | G. Jelin Taric             | Workshop                                                                  | State                               | 15-03-2023 |
| 5      | Dr. V. G. Ranjith          | Guest Lecture                                                             | State                               | 18-03-2023 |
| 6      | Dr.V.G. Ranjith            | Conference                                                                | National                            | 11-04-2023 |
| 7      | Dr. A. Anitha              | Webinar                                                                   | State                               | 19-04-2023 |

#### 8. Publication of Research Papers at the State/National/International Levels:

| S. No. | Author(s)              | Title of the paper                                                                                          | Journal with ISSN/Scopus /SCI/UGC care                    | Volume No. Issue No. | Year of Publication | Page (pp) |
|--------|------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|----------------------|---------------------|-----------|
| 1.     | Dr. A. Shajin Nargunam | Multi authority Ciphertext-Policy Attribute-Based encryption for security enhancement in cloud storage unit | Sustainable Energy Technologies and Assessments 2213-1388 |                      | 01-10-2022          |           |
| 2.     | Dr. A. Shajin Nargunam | Efficient Multi-Replica Cloud Data Integrity Checking Method Based on Enhanced PRF                          | IETE Journal of Research 0377-2063                        |                      | 25-09-2022          |           |

| S. No. | Author(s)        | Title of the paper                                                                                                          | Journal with ISSN/Scopus /SCI/UGC care                                                           | Volume No. Issue No. | Year of Publication | Page (pp) |
|--------|------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------|---------------------|-----------|
| 3.     | Dr. J. E. Judith | Pearson Autocovariance Distinct Patterns and Attention-Based Deep Learning for Wind Power Prediction                        | Journal of Electrical and Computer Engineering<br>2090-0147                                      |                      | April, 2022         |           |
| 4.     | Dr. J. E. Judith | An Effective Software Fault Prediction with Hybrid Technique Based on Cuckoo Search                                         | YMER<br>0044-0477                                                                                |                      | Sep,2022            |           |
| 5.     | Dr. J. E. Judith | Adaptive recurrent neural network for software defect prediction with the aid of quantum theory-particle swarm optimization | Multimedia Tools and Applications<br>1573-7721                                                   |                      | Oct, 2022           |           |
| 7.     | Dr. J. E. Judith | NFC Digital Receipt Management                                                                                              | International Journal of Scientific Research in Science, Engineering and Technology<br>2395-1990 |                      | 2022                |           |
| 8.     | Dr. J. E. Judith | Efficient Graphical Randomized Authentication(g-RAT) Technique for Secure File Access in Consumer Storage Devices           | International Journal of Scientific Research in Engineering and Management<br>2582-3930          |                      | May, 2022           |           |
| 9.     | Dr. J. E. Judith | Homogenized Point Mutual Information and Deep Quantum Reinforced Wind Power Prediction                                      | International Transactions on Electrical Energy Systems<br>2050-7038                             |                      | 01-12-2022          |           |
| 10.    | Dr. A. Anitha    | IOT based Intelligent gas leakage detection system                                                                          | International Journal of Scientific Research in Engineering and                                  |                      | 2022                |           |

| S. No. | Author(s)     | Title of the paper                                                                                                  | Journal with ISSN/Scopus /SCI/UGC care                                                                                  | Volume No. Issue No. | Year of Publication | Page (pp) |
|--------|---------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------|-----------|
|        |               |                                                                                                                     | Management 2582-3930                                                                                                    |                      |                     |           |
| 11.    | Dr. A. Anitha | Sybil Attack with RSU Detection and Location Privacy in Urban                                                       | Wireless Personal Communications 1572-834X                                                                              |                      | Feb, 2022           |           |
| 12.    | Dr. A. Anitha | Food Centric E-commerce Website: Fostering Social Services                                                          | International Journal of Scientific Research in Science, Engineering and Technology (UGC Journal No : 47147.) 2395-1990 |                      | 2022                |           |
| 13.    | Dr. A. Anitha | Deep Radial Recurrent Feedforward Neural Nets (DRRFNN): A Stacked L2L Learning Model for Lung Cancer Patients' Data | International Journal of Engineering Trends and Technology 2231 – 5381                                                  |                      | 01-05-2022          |           |
| 14.    | Dr. A. Anitha | A Novel Human Activity Recognition Model for Smartphone Authentication                                              | Wireless Personal Communications 1572-834X                                                                              |                      | 01-03-2023          |           |
| 15.    | Dr. A. Anitha | Optimal Weighted Logarithmic Transformation Converted HMOG Features for Automatic Smart Phone Authentication        | International Journal of Mobile Computing and Multimedia Communications (IJMCMC) 1937-9412                              |                      | 2022                |           |
| 16.    | Dr. A. Anitha | Clustering based lung lobe segmentation and optimization based lung cancer classification using CT images           | Biomedical Signal Processing and Control 1746-8108                                                                      |                      | 01-07-2022          |           |
| 17.    | Dr. A. Anitha | DWT based Person Re-Identification using GAN                                                                        | International Journal of Circuits                                                                                       |                      | 01-02-2022          |           |

| S. No. | Author(s)        | Title of the paper                                                                               | Journal with ISSN/Scopus /SCI/UGC care           | Volume No. Issue No. | Year of Publication | Page (pp) |
|--------|------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------|----------------------|---------------------|-----------|
|        |                  |                                                                                                  | Systems and Signal Processing 1998-4464          |                      |                     |           |
| 18.    | Mr. S Jebin Bose | An optimal detection of android malware using dynamic attention-based LSTM classifier            | Journal of Intelligent & Fuzzy Systems 1064-1246 |                      | 2022                |           |
| 19.    | Mr. S Jebin Bose | An optimal deep learning-based framework for the detection and classification of android malware | Journal of Intelligent & Fuzzy Systems 1064-1246 |                      | Jun - 2023          |           |
| 20.    | Mr. S Jebin Bose | An optimal detection of android malware using dynamic attention-based LSTM classifier            | Journal of Intelligent & Fuzzy Systems 1064-1247 |                      | Jan -2023           |           |

#### 9. Details of patents applied/awarded:

| S.No. | Name of the Faculty member | Title                                                                    | Date of filling | Application No. | Award No. |
|-------|----------------------------|--------------------------------------------------------------------------|-----------------|-----------------|-----------|
| 1.    | Dr. A. Shajin Nargunam     | Trusted Computing Based Security Architecture for Mobile Cloud Computing | 28/10/2015      | 5779/CHE/2015   | 422922    |

#### 10. Publications of Books/Monographs:

| S. No. | Author(s)         | Name of the Book with ISBN                                                                                                            | Publisher/Place      | Year |
|--------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------------|------|
| 1.     | Dr. A. Anitha     | The Magical Exertion of convolutional Neural Networks                                                                                 | Immortal Publication | 2022 |
| 2.     | Mr. S. Jebin Bose | IoT and wearables for detection of COVID-19 diagnosis using fusion-based feature extraction with multikernel extreme learning machine | Academic Press       | 2022 |
| 3.     | Dr. V. G. Ranjith | Survey on Fusion of Audiovisual Information for Multimedia Event Recognition                                                          | Springer             | 2022 |

**11. Courses offered, Sanctioned Strength of Students and Enrolment details:**

| S. NO. | Name of the Programme / Branch of study | Sanctioned Strength | Enrolment during 2022-23 |    | Total | Community |    |    |     |   |         |   |    |   |     |   |    |   |         | Existing Students, Strength |          |    |   |    |         |      |  | Pass Percentage of outgoing batch |
|--------|-----------------------------------------|---------------------|--------------------------|----|-------|-----------|----|----|-----|---|---------|---|----|---|-----|---|----|---|---------|-----------------------------|----------|----|---|----|---------|------|--|-----------------------------------|
|        |                                         |                     | F                        | M  |       | OC        | BC |    | BCM |   | MBC/DNC |   | SC |   | SCA |   | ST |   | II year |                             | III year |    |   |    | IV year |      |  |                                   |
|        |                                         |                     |                          |    |       |           |    |    |     |   |         |   |    |   |     |   |    |   |         |                             |          |    |   |    |         |      |  |                                   |
| M      | F                                       | M                   | F                        | M  | F     | M         | F  | M  | F   | M | F       | M | F  | M | F   | M | F  | M | F       | M                           | F        | M  | F | M  | F       |      |  |                                   |
| 1      | BE CSE                                  | 30                  | 6                        | 34 | 40    | 2         | -  | 25 | 5   | 2 | 1       | 3 | -  | 2 | -   | - | -  | - | -       | 26                          | 4        | 25 | 3 | 23 | 2       | 64%  |  |                                   |
| 2      | BE AI&DS                                | 30                  | 2                        | 11 | 14    | 1         | -  | 7  | -   | 3 | 1       | - | 1  | - | -   | - | -  | - | -       | 4                           | -        | 2  | - | -  | -       | -    |  |                                   |
| 3      | PG Courses                              | 25                  | 03                       | 1  | 04    | 1         | 1  | -  | 3   | - | -       | - | -  | - | -   | - | -  | - | -       | 5                           | 1        | -  | - | -  | -       | 100% |  |                                   |
| 4      | Ph.D Programme                          | -                   | 11                       | 09 | 20    | -         | -  | -  | -   | - | -       | - | -  | - | -   | - | -  | - | -       | -                           | -        | -  | - | -  | -       | -    |  |                                   |
|        | Diploma Certificate Courses (if any)    | -                   | -                        | -  | -     | -         | -  | -  | -   | - | -       | - | -  | - | -   | - | -  | - | -       | -                           | -        | -  | - | -  | -       | -    |  |                                   |
|        | MOOC/NPTEL/UGC online courses offered   | -                   | -                        | -  | -     | -         | -  | -  | -   | - | -       | - | -  | - | -   | - | -  | - | -       | -                           | -        | -  | - | -  | -       | -    |  |                                   |
|        | Total                                   | 85                  | 22                       | 55 | 78    | 4         | 1  | 32 | 8   | 5 | 2       | 3 | 1  | - | -   | - | -  | - | -       | 35                          | 5        | 27 | 3 | 23 | 2       | -    |  |                                   |

## 12. Enrolment of Students from Overseas and other States:

| S. No. | Degree and Subject | Nationality | State          | Number of Students |        | Total |
|--------|--------------------|-------------|----------------|--------------------|--------|-------|
|        |                    |             |                | Male               | Female |       |
| 1      | S3 BE CSE          | Indian      | Kerala         | 7                  | 3      | 10    |
| 2      | S3 BE AI&DS        | Indian      | Kerala         | 2                  | -      | 2     |
| 3      | S5 BE CSE          | Indian      | Kerala         | 8                  | 2      | 10    |
| 4      | S5 BE AI&DS        | Indian      | Kerala         | 2                  | -      | 2     |
| 5      | S7 BE CSE          | Indian      | Kerala         | 5                  | 1      | 6     |
| 6      | S7 BE CSE          | Indian      | Andhra Pradesh | 1                  | -      | 1     |
| 7      | S7 BE AI&DS        | Indian      | Jharkand       | 1                  | -      | 1     |

## 13. U.G./P.G. and Research degrees awarded:

| S. No | UG     |       | P.G.   |       | M. Phil. |    |    |       | Ph.D. |    |    |       |
|-------|--------|-------|--------|-------|----------|----|----|-------|-------|----|----|-------|
|       |        | Total |        | Total |          | FT | PT | Total |       | FT | PT | Total |
| 1     | BE CSE | 14    | ME CSE | 06    |          | -  | -  | -     |       | -  | 05 | 05    |

## 14. Fellowships Awarded (National/International) Faculty/Students Stipend awarded :

| S. No. | Agency | Position (URF/JRF/SRF/RA/ others) | Number of Fellowships |     | Total |
|--------|--------|-----------------------------------|-----------------------|-----|-------|
|        |        |                                   | M                     | F   |       |
| 1      | NIL    | NIL                               | NIL                   | NIL | NIL   |

## 15.Scholarships Awarded:

| S. No. | Nature of Scholarship                    | P.G. |   | M.Phil. |   | Ph.D. |   | Total Amount Rs. |
|--------|------------------------------------------|------|---|---------|---|-------|---|------------------|
|        |                                          | M    | F | M       | F | M     | F |                  |
| 1      | B.C.(State)                              | -    | - | -       | - | -     | - | -                |
| 2      | B.C.M.(State)                            | -    | - | -       | - | -     | - | -                |
| 3      | M.B.C./D.N.C.(State)                     | -    | - | -       | - | -     | - | -                |
| 4      | SC/SCA/ST(National)                      | -    | - | -       | - | -     | - | -                |
| 5      | SC/SCA/ST(State)                         | -    | - | -       | - | -     | - | -                |
| 6      | Management Scholar ship                  | -    | - | -       | - | -     | - | -                |
| 7      | Loan Scholarship                         | -    | - | -       | - | -     | - | -                |
| 8      | Moovalur Ramamirtham Ammaiyar Scheme     | -    | - | -       | - | -     | - | -                |
| 9      | 'Pudhumai Penn' (modern woman)           | -    | - | -       | - | -     | - | -                |
| 10     | Others ( please Specify the scholarship) | -    | - | -       | - | -     | - | -                |
|        | Total                                    | -    | - | -       | - | -     | - | -                |

## 16. Performance of the Students:

| S. No | Course | S1   |      | S2   |      | S3   |      | S4   |      | S5   |      | S6   |      | S7   |      | S8   |      |
|-------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|       |        | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass |
| 1.    | B.E    | 36   | 03   | 34   | 06   | 27   | 06   | 29   | 05   | 25   | 06   | 27   | 05   | 25   | 10   | 25   | 16   |
| 2.    | M.E    | 04   | 0    | 04   | 02   | 07   | 03   | 06   | 06   | -    | -    | -    | -    | -    | -    | -    | -    |

**17. Placement Details:**

| <b>Name of the Placement co-ordinator: Jelin Taric G</b>             |                                                                               |                            |        |
|----------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------|--------|
| <b>Phone/Mobile Number :8220320200 e-mail: jelintaric@niuniv.com</b> |                                                                               |                            |        |
| <b>Number of Placement Programmes:</b>                               |                                                                               |                            |        |
| S. No.                                                               | Particulars                                                                   | Numbers of students placed |        |
|                                                                      |                                                                               | Male                       | Female |
| 1                                                                    | Number of Students Placed                                                     | 11                         | 0      |
| 2                                                                    | Number of Placements obtained through Campus Interview                        | 11                         | 0      |
| 3                                                                    | Ratio of Placement to Students (Total no of Placement / Total no of Students) | 47.8                       | 0      |

**18. Outstanding achievements by the Faculty Members:**

| S. No. | Name of the Faculty | Achievements              | Agency                                                 |
|--------|---------------------|---------------------------|--------------------------------------------------------|
| 1      | Dr. A. Anitha       | Outstanding Faculty Award | RAMFO Academic Awards 2023, R. K. Foundation, Vellore. |

**19. Outstanding achievements by Students:**

| S.No. | Name of the Student                                          | Achievements             | Agency                                                                          |
|-------|--------------------------------------------------------------|--------------------------|---------------------------------------------------------------------------------|
| 1.    | Sneha Pradeep                                                | Best Paper Award         | International Conference on Smart Engineering for Renewable Energy Technologies |
| 2.    | Yuvanesh                                                     | Best Paper Award         | National Conference, NICHE                                                      |
| 3     | Akshai Prasad, Aswin S, Jovin Jayas, Mohamed Riyaz, Adarsh S | Group Dance/Second Prize | Mar Ephraem College of Engineering and Technology                               |
| 4     | Nikhil Nagu, Sanu T                                          | Science Demo/Third Prize | NICHE                                                                           |
| 5     | Siva Chanthru K                                              | Rangoli/Second Prize     | NICHE                                                                           |

**20. Department Meetings Held : BOS, Programme Committee, Course Committee etc.**

| S.No | Name                                         | Date                                                                                                                                                |  |
|------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1    | External BOS Meeting, 2022                   | 11-06-2022                                                                                                                                          |  |
| 2    | Internal BOS Meeting, 2023                   | 28-02-2023                                                                                                                                          |  |
| 3    | External BOS Meeting, 2023                   | 17-06-2023                                                                                                                                          |  |
| 4.   | Course Committee<br>Programme Committee etc. | 17-08-2022, 8-10-2022, 11-11-2022<br>02-02-2023, 09-03-2023, 24-04-2023<br>18-08-2023, 26-09-2022, 2-11-2022,<br>03-02-2023, 10-03-2022, 13-04-2023 |  |

**21. Infrastructure and Research facilities available (Please specify equipments more than Two Lakhs Only) :**

| S. No. | Name of the Lab | Name of the Equipments/Computer/Software/ Others | Quantity | Purpose Research/Practical |
|--------|-----------------|--------------------------------------------------|----------|----------------------------|
| 1.     | Lab 1           | Intel Core i5 Desktop                            | 50       | Practical                  |

**22. Extension activities carried out :**

| S. No. | Name of the Activity | Beneficiaries | Date | Venue |
|--------|----------------------|---------------|------|-------|
| 1      | NIL                  | NIL           | NIL  | NIL   |

**23. Department Library/Learning Resources/ Information and Language Lab:**

Name of the Librarian or Faculty in-charge of the Library:

| S. No. | Particulars                                                           | Nos.    | S. No. | Particulars                                         | Nos. |
|--------|-----------------------------------------------------------------------|---------|--------|-----------------------------------------------------|------|
| 1      | No. of books available                                                | 1243    | 7      | No. of titles available                             | 725  |
| 2      | Books added during the year 2022-23                                   | -       | 8      | No. of CDs and Digital Books available              | 150  |
| 3      | No. of Indian Journals/Magazines                                      | -       | 9      | No. of Foreign Magazines/Journals                   | -    |
| 4      | No. of data bases available                                           | -       | 10     | No. of Online Journals                              | -    |
| 5      | Average No. of students visiting the Library per day                  | 10<br>- | 11     | Average No. of books Issued per day                 | 2    |
|        |                                                                       |         | 12     | No. of digital books                                | -    |
| 6      | Availability of Internet (Specify the Capacity) (e.g. – 8 Mbps etc.,) |         | 13     | Availability of Language Lab                        | -    |
|        |                                                                       |         | 14     | NDL membership<br>1. Faculty members<br>2. Students |      |

**24. Information and Communication Technology Resources:**

| S. No. | Name of the Equipment | Specifications                                                                                                                                  | Nos. |
|--------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 1      | Desktop Computer      | Intel ® core (™) i5-10400 CPU @ 2.90 GHZ, 4 GB DDR4<br>RAM / 512 GB / SSD HDD / Zebronic with SMPS/ 18.5<br>Acer LED Monitor / Keyboard / Mouse | 50   |

**24.Collaborative Researches :**

NIL

**25.Consultancies :**

NIL

**26.No. of NET/SET/GATE/CSIR Qualified students:**

NIL

**27. MOUs signed :**

| S.No | Date       | MoU signed with      | Number of Activities | Remarks |
|------|------------|----------------------|----------------------|---------|
| 1    | 24-04-2023 | Inbox Info Solutions | -                    |         |

**28. Innovations and Best Practices:**

1. Research initiatives in U.G and P.G students.
2. Less than 40% plagiarism for P.G project report.

**29. Academic Flexibility:**

| S.No | Courses offered | Platform (MOOC, NPTEL, etc.) | No. Students enrolled | No. of Students Passed |
|------|-----------------|------------------------------|-----------------------|------------------------|
| 1.   | NIL             | NIL                          | NIL                   | NIL                    |

## NAME OF THE DEPARTMENT: ELECTRONICS & COMMUNICATION ENGINEERING

### 1. Department Details :

|                                          |                                                                                                                       |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Name of the Faculty                      | <b>Electrical and Electronics Engineering</b>                                                                         |
| Name of the HoD, Phone No. and E-mail ID | <b>Dr.T.Gopalakrishnan, 9443508904,</b><br><a href="mailto:gopalakrishnant@niuniv.com">gopalakrishnant@niuniv.com</a> |
| Year of Establishment                    | <b>2009</b>                                                                                                           |
| Telephone Number                         | <b>9443508904</b>                                                                                                     |
| Website / E mail                         | <b>ece@niuniv.com</b>                                                                                                 |

### 2. Details of Faculty Members :

| S. No. | Name of the Faculty          | Qualification    | Designation                  | Specialisation         | Experience in years |          | E-mail ID & Phone/Cell Phone No.                                                                         |
|--------|------------------------------|------------------|------------------------------|------------------------|---------------------|----------|----------------------------------------------------------------------------------------------------------|
|        |                              |                  |                              |                        | Teaching            | Research |                                                                                                          |
| 1.     | Dr.R.S.Vinodkumar            | M.E, M.S., PhD   | Professor & Dean             | Image Processing       | 30.10               | 16       | <a href="mailto:rsvinodkumar@niuniv.com">rsvinodkumar@niuniv.com</a><br>9489823500                       |
| 2.     | Dr.N.Santhi                  | B.E, M.E.,Ph.D.  | Associate Professor          | Image Processing       | 33                  | 16       | <a href="mailto:santhi@niuniv.com">santhi@niuniv.com</a><br>9486085019                                   |
| 3.     | Dr. S. AmalaShanthi          | B.E, M.E.,Ph.D   | Associate Professor          | Image Processing       | 28.3                | 16       | <a href="mailto:amalashanthi@niuniv.com">amalashanthi@niuniv.com</a><br>7598446730                       |
| 4.     | Dr.M.MarySynthu Jain Preetha | B.E. M.E.,Ph.D   | Associate Professor          | Image Processing       | 16.6                | 11       | <a href="mailto:marysynthujajainpreetha@niuniv.com">marysynthujajainpreetha@niuniv.com</a><br>9940877271 |
| 5.     | Dr.K.S.Vijula Grace          | B.E. M.E, Ph.D   | Associate Professor          | VLSI & Embedded System | 25.6                | 14       | <a href="mailto:vijulagrace@niuniv.com">vijulagrace@niuniv.com</a><br>9789328789                         |
| 6.     | Dr.T.Gopalakrishnan          | B.E, M.E, Ph.D   | Assistant Professor and Head | Image Processing       | 20.6                | 10       | <a href="mailto:gopalakrishnant@niuniv.com">gopalakrishnant@niuniv.com</a><br>9443508904                 |
| 7.     | Prof D Shahi                 | B.E. M.E, (Ph.D) | Assistant Professor          | Image Processing       | 16.6                | 5        | <a href="mailto:shahi@niuniv.com">shahi@niuniv.com</a><br>9487720557                                     |

### 3. Faculty Members Achievements /Performance:

| S. No. | Name                  | h index |            | Publications |            | Citations |            | API   |            | M.Phil. awarded |            | Ph.D. awarded |            | Cumulative Scholars |       |
|--------|-----------------------|---------|------------|--------------|------------|-----------|------------|-------|------------|-----------------|------------|---------------|------------|---------------------|-------|
|        |                       | 22-23   | Cumulative | 22-23        | Cumulative | 22-23     | Cumulative | 22-23 | Cumulative | 22-23           | Cumulative | 22-23         | Cumulative | M. Phil             | Ph.D. |
| 1.     | Dr. R. S. Vinod Kumar | 1       | 5          | 7            | 25         | 9         | 70         | 267   | 1429       |                 |            | 1             | 4          |                     | 12    |
| 2.     | Dr. N. Santhi         | 1       | 7          | 3            | 35         | 40        | 174        | 238   | 1518       |                 |            | -             | 6          |                     | 10    |

|    |                                   |   |   |   |    |    |    |     |      |  |  |   |   |  |    |
|----|-----------------------------------|---|---|---|----|----|----|-----|------|--|--|---|---|--|----|
| 3. | Dr. S. Amala Shanthi              | 0 | 2 | 1 | 11 | 6  | 24 | 155 | 1202 |  |  | - | 2 |  | 8  |
| 4. | Dr. M. Mary Synthuja Jain Preetha | 1 | 3 | 4 | 18 | 10 | 83 | 188 | 1280 |  |  | - | 2 |  | 8  |
| 5. | Dr. K. S. Vijula Grace            | 1 | 6 | 3 | 24 | 11 | 81 | 243 | 1244 |  |  | 2 | 4 |  | 10 |
| 6. | Dr. T. Gopalakrishnan             | 0 | 3 | 0 | 5  | 3  | 35 | 10  | 1048 |  |  | - | 2 |  | -  |
| 7. | Prof D Shahi                      | 1 | 2 | 0 | 4  | 5  | 10 | 10  | 1082 |  |  | - | - |  | -  |

#### 4.. Research Schemes/Projects undertaken :

| S. No. | Name of the Principal Investigator | Funding Agency | Title of the Project | Duration |    | Amount Rs. |
|--------|------------------------------------|----------------|----------------------|----------|----|------------|
|        |                                    |                |                      | From     | To |            |
| 1      |                                    |                |                      |          |    |            |

#### 5. a) Participation of the Faculty members, presentation of papers in Congresses/Conferences/Seminars/Workshops, Symposia, etc.

| S. No. | Name of the Faculty   | Congress/Conference/Seminar/Workshop and Venue                                                              | Title of the paper                                                                                                                      | Date                                            |
|--------|-----------------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| 1.     | Dr. Vinod Kumar R S   | International Conference on Emerging Technologies in Engineering and Applied Sciences,- ICETEAS -2023 NICHE | IOT Based Wireless Robot Development For Medical Sensor Data Monitoring Using High Speed Spartan 6E FPGA Controller Under Pandemic Time | 12 <sup>th</sup> & 13 <sup>th</sup> April 2023. |
| 2.     | Dr. K.S. Vijula Grace | ICETEAS -2023 NICHE                                                                                         | Review on Hardware's Used for an Automated Assistance System for Physically Challenged                                                  | 12 <sup>th</sup> & 13 <sup>th</sup> April 2023. |
| 3.     | Dr. R. S. Vinod Kumar | ICETEAS -2023 NICHE                                                                                         | A review on computer-aided early detection and classification of Lung Cancer from CT Images                                             | 12 <sup>th</sup> & 13 <sup>th</sup> April 2023. |
| 4.     | Dr. Vinod Kumar R. S  | ICETEAS -2023                                                                                               | Deep learning-based computer-aided diagnosis                                                                                            | 12 <sup>th</sup> & 13 <sup>th</sup> April 2023. |

|    |                                   |                                                          |                                                                                                                       |                                                 |
|----|-----------------------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
|    |                                   |                                                          | of early lung cancer detection in low-dose CT                                                                         |                                                 |
| 5. | Dr. Vinod Kumar R. S              | ICETEAS - 2023NICHE                                      | Resnet-50 Architecture for Classification of Colon Cancer on Histopathology Images                                    | 12 <sup>th</sup> & 13 <sup>th</sup> April 2023. |
| 6. | Shahi. D & Dr. Vinod Kumar. R. S  | ICETEAS - 2023NICHE                                      | A Review on Data Hiding Techniques                                                                                    | 12 <sup>th</sup> & 13 <sup>th</sup> April 2023. |
| 7. | Dr. Vinod Kumar R. S              | ICETEAS - 2023NICHE                                      | A detailed survey on face recognition methodologies                                                                   | 12 <sup>th</sup> & 13 <sup>th</sup> April 2023. |
| 8. | Dr. R. S. Vinod Kumar             | ICETEAS - 2023NICHE                                      | A Survey on Patch Based Texture Synthesis Techniques                                                                  | 12 <sup>th</sup> & 13 <sup>th</sup> April 2023. |
| 9. | Dr. N. Santhi                     | ICETEAS - 2023NICHE                                      | A Study On Traditional And Non-Traditional Imaging Techniques For Early Detection Of Pancreatic Ductal Adenocarcinoma | 12 <sup>th</sup> & 13 <sup>th</sup> April 2023. |
| 10 | Dr. N. Santhi                     | ICETEAS - 2023NICHE                                      | A Systematic Literature Review on Patent Recommender System based on Artificial Intelligence                          | 12 <sup>th</sup> & 13 <sup>th</sup> April 2023. |
| 11 | Dr. S. AmalaShanthi               | ICETEAS - 2023NICHE                                      | Monozygotic Twin Face Recognition-An Enhanced Texture and Fusion-Based Scheme                                         | 12 <sup>th</sup> & 13 <sup>th</sup> April 2023. |
| 12 | Dr. S. Amala Shanthi              | ICETEAS - 2023NICHE                                      | Benchmarking and State-of-the-Art Iris Liveness Detection Methods: A Literary Study                                   | 12 <sup>th</sup> & 13 <sup>th</sup> April 2023. |
| 13 | Dr. S. Amala Shanthi              | ICETEAS -2023, NICHE                                     | Survey on Automatic segmentation of images using Deep Learning.                                                       | 12 <sup>th</sup> & 13 <sup>th</sup> April 2023. |
| 14 | Dr. S. Amala Shanthi              | ICLTSET'23, Karpagam Institute of Technology, Coimbatore | A Survey On Image Classification Using Deep Learning                                                                  | 5 <sup>th</sup> and 6 <sup>th</sup> May         |
| 15 | Dr. M. Mary Synthuja Jain Preetha | ICETEAS - 2023NICHE                                      | A Novel Fractal based CGAN Method to compress Hyperspectral video                                                     | 12 <sup>th</sup> & 13 <sup>th</sup> April 2023. |
| 16 | Dr. M. Mary Synthuja Jain Preetha | ICETEAS - 2023NICHE                                      | A Review on Spectrum Sensing in Cognitive Radio in Deep Learning Models and Their Future Scope                        | 12 <sup>th</sup> & 13 <sup>th</sup> April 2023. |
| 17 | Dr. M. Mary Synthuja Jain Preetha | ICETEAS - 2023NICHE                                      | Automatic heart rate counter for health care with Instant alert system                                                | 12 <sup>th</sup> & 13 <sup>th</sup> April 2023. |

|    |                                          |                        |                                                                                                                                                          |                                                    |
|----|------------------------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| 18 | Dr. M Mary<br>Synthuja Jain<br>Preetha   | ICETEAS -<br>2023NICHE | Recognition of Facial<br>Emotions: A Brief Survey                                                                                                        | 12 <sup>th</sup> & 13 <sup>th</sup><br>April 2023. |
| 19 | Dr. M. Mary<br>Synthuja Jain<br>Preetha  | ICETEAS -<br>2023NICHE | Firefly Based Threshold<br>Optimization For Region<br>Growing                                                                                            | 12 <sup>th</sup> & 13 <sup>th</sup><br>April 2023. |
| 20 | Dr. K. S. Vijula<br>Grace                | ICETEAS -2023<br>NICHE | Automatic heart rate<br>counter for health care<br>with Instant alert system                                                                             | 12 <sup>th</sup> & 13 <sup>th</sup><br>April 2023. |
| 21 | Dr. Vijula Grace<br>K.S                  | ICETEAS -2023<br>NICHE | A Study of Pulmonary<br>Nodule Detection in CT<br>Images Based on Deep<br>Learning                                                                       | 12 <sup>th</sup> & 13 <sup>th</sup><br>April 2023. |
| 22 | Dr. Vijula Grace<br>K.S.                 | ICETEAS -2023<br>NICHE | A Comparative study on<br>classification and<br>Detection methods of<br>Whole Mammogram<br>using Deep Learning<br>Methods for Breast<br>Cancer diagnosis | 12 <sup>th</sup> & 13 <sup>th</sup><br>April 2023. |
| 23 | Dr. Vijula Grace<br>K S                  | ICETEAS -2023<br>NICHE | A Review on Retinal<br>Disease Detection<br>Methods Using CNN from<br>Fundus Image of the<br>Retina                                                      | 12 <sup>th</sup> & 13 <sup>th</sup><br>April 2023. |
| 24 | Dr. Vijula Grace<br>K S                  | ICETEAS -2023<br>NICHE | A Review on Non-<br>Invasive Fetal<br>Electrocardiography<br>extraction methods                                                                          | 12 <sup>th</sup> & 13 <sup>th</sup><br>April 2023. |
| 25 | Dr. M. Mary<br>Synthuja Jain<br>Preetha, | ICETEAS -2023<br>NICHE | Firefly Based Threshold<br>Optimization For Region<br>Growing                                                                                            | 12 <sup>th</sup> & 13 <sup>th</sup><br>April 2023. |
| 26 | Dr. K.S. Vijula<br>Grace                 | ICETEAS -2023<br>NICHE | A Review on Data Hiding<br>Techniques                                                                                                                    | 12 <sup>th</sup> & 13 <sup>th</sup><br>April 2023. |

**b) Foreign Faculty/Expert visit to the Department:**

| S. No. | Name & Designation | Institute | Country | Duration | Purpose |
|--------|--------------------|-----------|---------|----------|---------|
| 1      |                    |           |         |          |         |

**6. Faculty acted as Chief Guest, Key note Speakers, Resource Person, Chair Person, External experts, etc. :**

| S. No. | Name of the Faculty member | Role               | Event      | Title | Venue & Date                                                    |
|--------|----------------------------|--------------------|------------|-------|-----------------------------------------------------------------|
| 1      | Dr R S<br>Vinodkumar       | External<br>Expert | DC meeting |       | CSI Institute of Technology<br>, Kanyakumari District           |
| 2      | Dr R S<br>Vinodkumar       | External<br>Expert | DC meeting |       | St Xaviers Catholic College<br>of Engg, Kanyakumari<br>District |

| S. No. | Name of the Faculty member | Role             | Event      | Title | Venue & Date                                             |
|--------|----------------------------|------------------|------------|-------|----------------------------------------------------------|
| 3      | Dr R S Vinodkumar          | External Expert  | DC meeting |       | PSR Engineering College ,Sivakasi                        |
| 4      | Dr.R.S.Vinod Kumar         | External Expert  | DC meeting |       | Ponjesly College of Engineering,Kanyakumari              |
| 5      | Dr.N.Santhi                | External experts | DC meeting |       | University College of Engineering, Nagercoil             |
| 6.     | Dr.N.Santhi                | External Expert  | DC meeting |       | Mar Ephram Engineering college , Nattalam                |
| 7      | Dr.N.Santhi                | Reviewer         |            |       | American Journal of Applied Scientific Research          |
| 8      | Dr.S. AmalaShanthi         | External experts | DC meeting |       | University College of Engineering, Nagercoil             |
| 9      | Dr.S. AmalaShanthi         | External experts | DC meeting |       | St Xaviers Catholic College of Engg,Kanyakumari District |
| 10     | Dr. K S Vijula Grace       | External Expert  | DC meeting |       | DrSivanthiAditanar College of Engineering ,Thiruchendur  |
| 11     | Dr.R.S.Vinod Kumar         | External Expert  | DC meeting |       | MepcoSchlenk Engineering College                         |

#### 7. Details of Seminars, Conferences, Refresher courses, Webminars Organised:

| S. No. | Name of the Faculty member | Congress/Conference/Seminar/ Workshop/Symposia , Webminars etc. organised                                   | State/National/ International Level | Date                           |
|--------|----------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------------|
| 1      | Dr. Vinod Kumar R S        | International Conference on Emerging Technologies in Engineering and Applied Sciences,- ICETEAS -2023 NICHE | International                       | 12 · 04 .2023 and 13. 04. 2023 |
| 2      | Dr.K S Vijula Grace        | National Technical Symposium                                                                                | National                            | 29.03.2023                     |
| 3      | Dr. Vinod Kumar R S        | Hands On Training On Combinational Circuits                                                                 | National                            | 16.09.2022                     |

#### 8. Publication of Research Papers at the State/National/International Levels:

| S. No. | Author(s)            | Title of the paper                                               | Journal with ISSN/Scopus /SCI/UGC care                                       | Volume No. Issue No. | Year of Publication | Page(pp) |
|--------|----------------------|------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------|---------------------|----------|
| 1.     | DrVijula Grace, K.S. | Design an Efficient Braun Multiplier Using KSA Based CMOS Logics | International Journal of Intelligent Systems and Applications in Engineering | 10(3)                | 2022                | 423–429  |

| S. No. | Author(s)             | Title of the paper                                                                                                                          | Journal with ISSN/Scopus /SCI/UGC care                                                          | Volume No. Issue No. | Year of Publication | Page(pp)  |
|--------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------------|---------------------|-----------|
| 2.     | Dr Vijula Grace, K.S. | Optimization based routing model for the dynamic path planning of emergency vehicles<br>this link is disabled,                              | Evolutionary Intelligence                                                                       | 15(2)                | 2022                | 1425–1439 |
| 3.     | DrVijula Grace, K.S.  | Comparison of SVM and KNN Classifiers on an EEG Signal with a Simple Dataset                                                                | Ios press Ebook-Advances in Parallel Computing Algorithms, Tools and Paradigms                  | 41                   | 2022                | 161-68    |
| 4.     | Dr. N Santhi          | Segmentation Techniques for Lesion                                                                                                          | Journal of clinical otorhinolaryng ology, Head and Neck Surgery (SCOPUS)                        | 27/01                | 2023                |           |
| 5.     | Dr. Santhi N          | An Intelligent Patent Recommender system based on Machine Learning                                                                          | International Journal of Innovative Research in Computer and Communication Engineering (Others) | 11/2                 | Feb 2023            |           |
| 6.     | DrK. S. Vijula Grace  | LPOA-DRN: Deep learning based feature fusion and optimization enabled Deep Residual Network for classification of Motor Imagery EEG signals | Signal, Image and Video Processing Springer Nature 2023 (SCI)                                   |                      | Feb 2023            |           |
| 7.     | Dr Vinodkumar R S     | LCD capsule Network for Detection and                                                                                                       | Multimedia Tools and Application(S                                                              |                      | March 2023          |           |

| S. No. | Author(s)          | Title of the paper                                                                                                                                              | Journal with ISSN/Scopus /SCI/UGC care                 | Volume No. Issue No. | Year of Publication | Page(pp) |
|--------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|----------------------|---------------------|----------|
|        |                    | classification of Lung cancer on Computed Tomography Images                                                                                                     | CI) Springer                                           |                      |                     |          |
| 8.     | Dr. Vinodkumar R S | An ensemble method for the detection and classification of lung cancer using computed tomography images utilizing a capsule network with visual geometry groups | Biomedical signal processing and control ELSEVIER(SCI) |                      | April 2023          |          |

#### 9. Details of patents applied/awarded:

| S.No. | Name of the Faculty member     | Title                      | Date of filling | Application No. | Award No.  |
|-------|--------------------------------|----------------------------|-----------------|-----------------|------------|
| 1     | Dr.R.S.Vinod Kumar             | Lung Cancer Testing Device | 06/06/2023      | 142475          | 387710-001 |
| 2     | Dr.T.Gopalakrishnan            | Lung Cancer Testing Device | 06/06/2023      | 142475          | 387710-001 |
| 3     | Dr.R.S.Vinod Kumar             | Agriculture Robot          | 12/09/2023      | 143765          | 387239-001 |
| 4     | Dr.M.MarySynthuja Jain Preetha | Portable Solar Tree        | 07/01/2023      | 130618          | 376909-001 |

#### 10. Publications of Books/Monographs:NIL

| S. No. | Author(s) | Name of the Book with ISBN | Publisher/Place | Year |
|--------|-----------|----------------------------|-----------------|------|
| 1      |           |                            |                 |      |

### 11. Courses offered, Sanctioned Strength of Students and Enrolment details:

| S. NO. | Name of the Programme / Branch of study | Sancti oned Streng th | Enrolment during 2022-23 |   | Total | Community |   |    |   |     |   |          |   |    |   |     |   |    |   | Existing Students, Strength |   |          |   |         |     |   |   | Pass Percenta ge of out going batch |
|--------|-----------------------------------------|-----------------------|--------------------------|---|-------|-----------|---|----|---|-----|---|----------|---|----|---|-----|---|----|---|-----------------------------|---|----------|---|---------|-----|---|---|-------------------------------------|
|        |                                         |                       | F                        | M |       | OC        |   | BC |   | BCM |   | MBC/ DNC |   | SC |   | SCA |   | ST |   | II year                     |   | III year |   | IV year |     |   |   |                                     |
|        |                                         |                       |                          |   |       | M         | F | M  | F | M   | F | M        | F | M  | F | M   | F | M  | F | M                           | F | M        | F | M       | F   | M | F |                                     |
|        | UG Programme                            | 30                    | -                        | - |       |           |   |    |   |     |   |          |   |    |   |     |   |    | 4 |                             | 2 |          | 5 |         | 100 |   |   |                                     |
|        | PG Courses                              | 12                    | 1                        | 1 |       |           | 1 | 1  |   |     |   |          |   |    |   |     |   |    | 2 |                             |   |          |   |         | 100 |   |   |                                     |
|        | Ph.DProgram me                          |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |     |   |   |                                     |
|        | Diploma Certificate Courses (if any)    |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |     |   |   |                                     |
|        | MOOC/NPTEL/UG C online courses offered  |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |     |   |   |                                     |
|        | Total                                   | 42                    |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |     |   |   |                                     |

## 12. Enrolment of Students from Overseas and other States:

| S. No. | Degree and Subject | Nationality | State  | Number of Students |        | Total |
|--------|--------------------|-------------|--------|--------------------|--------|-------|
|        |                    |             |        | Male               | Female |       |
| 1      | BE (ECE)           | Indian      | Kerala | 3                  | -      | 3     |

## 13. U.G./P.G. and Research degrees awarded:

| S. No | UG |       | P.G. |       | M. Phil. |    |    |       | Ph.D. |     |    |       |
|-------|----|-------|------|-------|----------|----|----|-------|-------|-----|----|-------|
|       |    | Total |      | Total |          | FT | PT | Total |       | FT  | PT | Total |
|       |    | 6     |      | 2     |          |    |    |       |       | Nil | 10 | 10    |

## 14. Fellowships Awarded (National/International) Faculty/Students Stipend awarded :

| S. No. | Agency | Position<br>(URF/JRF/SRF/RA/ others) | Number of Fellowships |   | Total |
|--------|--------|--------------------------------------|-----------------------|---|-------|
|        |        |                                      | M                     | F |       |
| 1      |        |                                      |                       |   |       |

## 15.Scholarships Awarded: Nil

| S. No. | Nature of Scholarship                    | P.G. |   | M.Phil. |   | Ph.D. |   | Total Amount Rs. |
|--------|------------------------------------------|------|---|---------|---|-------|---|------------------|
|        |                                          | M    | F | M       | F | M     | F |                  |
| 1      | B.C.(State)                              |      |   |         |   |       |   |                  |
| 2      | B.C.M.(State)                            |      |   |         |   |       |   |                  |
| 3      | M.B.C./D.N.C.(State)                     |      |   |         |   |       |   |                  |
| 4      | SC/SCA/ST(National)                      |      |   |         |   |       |   |                  |
| 5      | SC/SCA/ST(State)                         |      |   |         |   |       |   |                  |
| 6      | Management Scholar ship                  |      |   |         |   |       |   |                  |
| 7      | Loan Scholarship                         |      |   |         |   |       |   |                  |
| 8      | MoovalurRamamirthamAmmaiyar Scheme       |      |   |         |   |       |   |                  |
| 9      | 'Pudhumai Penn' (modern woman)           |      |   |         |   |       |   |                  |
| 10     | Others ( please Specify the scholarship) |      |   |         |   |       |   |                  |
|        | Total                                    |      |   |         |   |       |   |                  |

## 16. Performance of the Students :

| S. No | Course | S1   |      | S2   |      | S3   |      | S4   |      | S5   |      | S6   |      | S7   |      | S8   |      |
|-------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|       |        | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass |
|       | B.E    | -    | -    | -    | -    | 2    | 1    | 2    | 1    | 6    | 2    | 6    | 4    | 7    | 3    | 7    | 7    |

## 17. Placement Details:

| Name of the Placement co-ordinator: D. Shahi |                                                                               |  |  |  |  |                            |  |        |  |  |  |  |
|----------------------------------------------|-------------------------------------------------------------------------------|--|--|--|--|----------------------------|--|--------|--|--|--|--|
| Phone/Mobile Number :e-mail:8903776557       |                                                                               |  |  |  |  |                            |  |        |  |  |  |  |
| Number of Placement Programmes:3             |                                                                               |  |  |  |  |                            |  |        |  |  |  |  |
| S. No.                                       | Particulars                                                                   |  |  |  |  | Numbers of students placed |  |        |  |  |  |  |
|                                              |                                                                               |  |  |  |  | Male                       |  | Female |  |  |  |  |
| 1                                            | Number of Students Placed                                                     |  |  |  |  | 4                          |  | -      |  |  |  |  |
| 2                                            | Number of Placements obtained through Campus Interview                        |  |  |  |  | 4                          |  | -      |  |  |  |  |
| 3                                            | Ratio of Placement to Students (Total no of Placement / Total no of Students) |  |  |  |  | 4:7                        |  |        |  |  |  |  |

**18. Outstanding achievements by the Faculty Members:**

| S. No. | Name of the Faculty | Achievements | Agency |
|--------|---------------------|--------------|--------|
| 1      |                     |              |        |

**19. Outstanding achievements by Students:**

| S.No. | Name of the Student | Achievements                                             | Agency                                                |
|-------|---------------------|----------------------------------------------------------|-------------------------------------------------------|
| 1     | Mohammed Rashid     | Trivandrum district Body building champion- Second Place | International Federation of Body Building and Fitness |

**20. Department MeetingsHeld :  
BOS,Programe Committee, Course Committee etc.**

| S.No | Name                                         | Date                                                                                                                                                                                           |  |
|------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1.   | Course Committee<br>Programme Committee etc. |                                                                                                                                                                                                |  |
|      | Programme Committee                          | <b>ODD Semester</b><br>Meeting1 – 12/08/2022<br>Meeting2- 19/09/2022<br>Meeting3- 02/11/2022<br><b>EVEN Semester</b><br>Meeting1- 02/02/2023<br>Meeting2 – 10/03/2023<br>Meeting3 – 19/04/2023 |  |
| 2    | BoS                                          | 17-06-2023<br>28/02/2023                                                                                                                                                                       |  |

**21. Infrastructure and Research facilities available (Please specify equipments more than TwoLakhs Only) :Nil**

| S. No. | Name of the Lab | Name of the Equipments/Computer/Software/Others | Quantity | Purpose Research/Practical |
|--------|-----------------|-------------------------------------------------|----------|----------------------------|
|        |                 |                                                 |          |                            |

**22. Extension activities carried out :**

| S. No. | Name of the Activity | Beneficiaries                | Date       | Venue                 |
|--------|----------------------|------------------------------|------------|-----------------------|
| 1      | Save Environment     | Colachel Coastal Area people | 19.01.2023 | Colachel Coastal Area |

**23. Department Library/Learning Resources/ Information and Language Lab:**

Name of the Librarian or Faculty in-charge of the Library:

| S. No. | Particulars                                                           | Nos.    | S. No. | Particulars                                           | Nos.    |
|--------|-----------------------------------------------------------------------|---------|--------|-------------------------------------------------------|---------|
| 1      | No. of books available                                                | 1710    | 7      | No. of titles available                               | 1266    |
| 2      | Books added during the year 2022-23                                   | 4       | 8      | No. of CDs and Digital Books available                | 62      |
| 3      | No. of Indian Journals/Magazines                                      | 59      | 9      | No. of Foreign Magazines/Journals                     | 28      |
| 4      | No. of data bases available                                           | -       | 10     | No. of Online Journals                                | -       |
| 5      | Average No. of students visiting the Library per day                  | 2       | 11     | Average No. of books Issued per day                   | 1       |
|        |                                                                       |         | 12     | No. of digital books                                  | -       |
| 6      | Availability of Internet (Specify the Capacity) (e.g. – 8 Mbps etc.,) | 10M bps | 13     | Availability of Language Lab                          | -       |
|        |                                                                       |         | 14     | NDL membership<br>13. Faculty members<br>14. Students | 7<br>17 |

**24. Information and Communication Technology Resources:**

| S. No. | Name of the Equipment | Specifications | Nos. | S. No. | Name of the Equipment | Specifications | Nos. |
|--------|-----------------------|----------------|------|--------|-----------------------|----------------|------|
| 1      | LCD projector         | SONY           | 1    |        |                       |                |      |
| 2      | LCD projector         | EPSON          | 1    |        |                       |                |      |

**24.Collaborative Researches :Nil****25.Consultancies :Nil****26.No. of NET/SET/GATE/CSIR Qualified students:Nil****27. MOUs signed :**

| S.No | Date       | MoU signed with                 | Number of Activities | Remarks |
|------|------------|---------------------------------|----------------------|---------|
| 1    | 15-03-2023 | MATT Equipments Ltd., Nagercoil | Workshop             | Active  |

**28. Innovations and Best Practices :** Every month research colloquium Conducted**29. Academic Flexibility :---**

| S.No | Courses offered | Platform (MOOC, NPTEL, etc.) | No. Students enrolled | No. of Students Passed |
|------|-----------------|------------------------------|-----------------------|------------------------|
|      |                 |                              |                       |                        |

**NAME OF THE DEPARTMENT: ELECTRICAL AND ELECTRONICS ENGINEERING****1. Department Details :**

|                                          |                                        |
|------------------------------------------|----------------------------------------|
| Name of the Faculty                      | Electrical and Electronics Engineering |
| Name of the HoD, Phone No. and E-mail ID | <b>Dr.J Arul Linsely</b>               |
| Year of Establishment                    | <b>1993</b>                            |
| Telephone Number                         | 9994081081                             |
| Website / E mail                         | <b>www.niueee.in</b>                   |

**2. Details of Faculty Members :**

| S. No. | Name of the Faculty            | Qualification          | Designation                     | Specialisation                    | Experience in years | E-mail ID & Phone/Cell Phone No.                                                              |
|--------|--------------------------------|------------------------|---------------------------------|-----------------------------------|---------------------|-----------------------------------------------------------------------------------------------|
| 1      | Dr.P.Sujatha Therese           | B.E(EEE), M.E, PhD     | Professor                       | Process Control & Instrumentation | 2Y 6M               | 9443165780<br><a href="mailto:psujathatherese@yahoo.in">psujathatherese@yahoo.in</a>          |
| 2      | Dr.M.Mary Synthia Regis Prabha | B.E (EEE) M.Tech, Ph.D | Associate Professor             | Power Electronics and Drives      | 21Y                 | 9940877270<br><a href="mailto:regisprabha@gmail.com">regisprabha@gmail.com</a>                |
| 3      | Dr.J.Arul Linsely              | B.E(ECE), M.E, Ph.D    | Associate Professor             | Applied Electronics               | 23Y 6 M             | 63854 41081<br><a href="mailto:arullinsely@gmail.com">arullinsely@gmail.com</a>               |
| 4      | Dr.S.Anitha Janet Mary         | B.E (EEE) M.E, Ph.D    | Associate Professor             | Process Control & Instrumentation | 22Y 3 M             | 9524633365<br><a href="mailto:anitharuphus@gmail.com">anitharuphus@gmail.com</a>              |
| 5      | Dr.H Vennila                   | B.E (EEE) M.E, Ph.D    | Associate Professor             | Power System                      | 21Y 6M              | 9994273837<br>vennilarajesh@yahoo.co.in                                                       |
| 6      | Dr.Tibbie Pon Symon.V.A        | B.Tech (EEE) Ph.D M.E  | Assistant Professor             | Power Electronics                 | 17Y 6M              | 9894383003<br><a href="mailto:tibbiesymon@gmail.com">tibbiesymon@gmail.com</a>                |
| 7      | Ms.Bindhu V.S                  | B.E (EIE) M.E          | Assistant Professor             | Power Electronics                 | 13Y 10M             | 9629209153<br><a href="mailto:bindhuvs2003@gmail.com">bindhuvs2003@gmail.com</a>              |
| 8      | Dr.K.Muthuvel                  | B.E (EEE) M.E, Ph.D    | Assistant Professor and HOD I/C | Electronics and Control           | 19Y 3M              | 9444146936,<br>9486856130<br><a href="mailto:er.muthuvel@gmail.com">er.muthuvel@gmail.com</a> |

### 3. Faculty Members Achievements / Performance:

| S. No. | Name                           | h index |            | Publications |            | Citations |            | API   |            | M.Phil. awarded |            | Ph.D. awarded |            | Cumulative Scholars |       |
|--------|--------------------------------|---------|------------|--------------|------------|-----------|------------|-------|------------|-----------------|------------|---------------|------------|---------------------|-------|
|        |                                | 22-23   | Cumulative | 22-23        | Cumulative | 22-23     | Cumulative | 22-23 | Cumulative | 22-23           | Cumulative | 22-23         | Cumulative | M. Phil             | Ph.D. |
| 1      | Dr.P.Sujatha Therese           | 1       | 3          | 6            | 21         | 7         | 10         |       |            | -               | -          | 1             | 1          | -                   | 7     |
| 2      | Dr.M.Mary Synthia Regis Prabha | -       | 3          | 3            | 28         | 4         | 38         |       |            | -               | -          | 1             | 5          | -                   | 8     |
| 3      | Dr.J.Arul Linsely              | -       | 1          | 1            | 10         |           | 14         |       |            | -               | -          | 1             | 1          | -                   | 7     |
| 4      | Dr.S.Anitha Janet Mary         | -       | 2          | -            | 7          | -         | 5          |       |            | -               | -          | -             | -          | -                   | 3     |
| 5      | Dr.H.Vennila                   | 1       | 6          | 3            | 33         | 5         | 101        |       |            |                 |            | -             | 3          | -                   | -     |
| 6.     | Dr.Tibbie Pon Symon. V.A       | 1       | 2          | 4            | 12         | -         | 6          |       |            |                 | -          | -             | -          | -                   | 4     |
| 7      | Dr.Bindhu V.S                  | -       | -          | -            | 4          | -         | -          |       |            |                 | -          | -             | -          | -                   | -     |
| 8      | Dr.K.Muthuvel                  | 1       | 4          | 2            | 17         | 25        | 53         |       |            |                 | -          | -             | -          | -                   | 4     |

### 4.. Research Schemes/Projects undertaken :

| S. No. | Name of the Principal Investigator | Funding Agency | Title of the Project | Duration |    | Amount Rs. |
|--------|------------------------------------|----------------|----------------------|----------|----|------------|
|        |                                    |                |                      | From     | To |            |
| 1      |                                    |                |                      |          |    |            |

#### 5. a) Participation of the Faculty members, presentation of papers in Congresses/Conferences/Seminars/Workshops,Symposia, etc.

| S. No. | Name of the Faculty | Congress/Conference/ Seminar / Workshop and Venue | Title of the paper                                      | Date           |
|--------|---------------------|---------------------------------------------------|---------------------------------------------------------|----------------|
| 1      | Dr.H.Vennila        | Workshop                                          | Innovation, Incubation and Entrepreneurship development | 19-23 Dec 2022 |

#### b) Foreign Faculty/Expert visit to the Department:

| S. No. | Name & Designation | Institute | Country | Duration | Purpose |
|--------|--------------------|-----------|---------|----------|---------|
| 1      |                    |           |         |          |         |

**6. Faculty acted as Chief Guest, Key note Speakers, Resource Person, Chair Person, External experts, etc. :**

| S. No. | Name of the Faculty member     | Role                   | Event                                                                           | Title                                                                                                     | Venue & Date                                              |
|--------|--------------------------------|------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| 1      | Dr.H.Vennila                   | External Experts       | DC Meeting                                                                      |                                                                                                           | Kamaraj College of Engineering, Viruthunagar<br>6-05-2023 |
| 2      | Dr. Tibbie Pon Symon           | Editor                 |                                                                                 | IJETT                                                                                                     |                                                           |
| 3      | Dr. Tibbie Pon Symon           | Editor                 |                                                                                 | IJEEE                                                                                                     |                                                           |
| 4      | Dr. Tibbie Pon Symon           | Editor                 |                                                                                 | Dream science journal of AI and Robotics                                                                  |                                                           |
| 5      | Dr.M.Mary Synthia Regis Prabha |                        | MOE'S Innovation Council (MIC), AICTE New Delhi                                 | Impact Lecture series 2022-2023 on "Projects products to Business through IPR"                            | Vimal Jyothi Engineering College, Chemperi, Kannur        |
| 6      | Dr.M.Mary Synthia Regis Prabha |                        | Indian Institute of Space Science and Technology, valiamala, Thiruvananthapuram | Online Faculty Development programme on "Control Systems Technology and Applications"                     | Indian Institute of Space Science and Technology          |
| 7      | Dr.M.Mary Synthia Regis Prabha |                        | Association of Indian Universities & AMET University                            | Faculty Development Programme on "Design and Development of Industry led Curriculum in Technological Era" | AMET University, Chennai                                  |
| 8      | Dr.M.Mary Synthia Regis Prabha |                        | DST Sponsored                                                                   | DST Sponsored Faculty Development Programme on "Development of Entrepreneurship and Innovation"           | AMET University, Chennai                                  |
| 9      | Dr.V.S Bindhu                  | National level webinar | 24.01.2023                                                                      | IEEE(Institution Innovation council) Department of EEE                                                    | SRMTRPEC, IEEE Student Branch, IIC and Green Energy Club  |

## 7. Details of Seminars, Conferences, Refresher courses, Webminars Organised :

| S. No. | Name of the Faculty member | Congress/Conference/Seminar/ Workshop/Symposia , Webminars etc. organised | State/National/ International Level | Date       |
|--------|----------------------------|---------------------------------------------------------------------------|-------------------------------------|------------|
| 1      | Dr.H Vennila               | Enterpreneurship motivational talk                                        | state                               | 04-11-2022 |
| 2      | Dr.K Muthuvel              | Innovation ambassador talk series                                         | state                               | 13-10-22   |
| 3      | Dr.P Sujatha Therese       | Pollution control                                                         | state                               | 10-01-2023 |
| 4      | Dr.V A Tibbie Pon Symon    | Design of grid connected solar system                                     | state                               | 13-2-23    |
| 5      | Dr J Arul Linsely          | Transformer ageing                                                        | state                               | 23-2-23    |

## 8. Publication of Research Papers at the State/National/International Levels:

| S. No. | Author(s)                      | Title of the paper                                                                                                                                                                                                 | Journal with ISSN/Scopus/SCI/UGC care | Volume No. Issue No.               | Year of Publication | Page (pp)                   |
|--------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------------------------------------|---------------------|-----------------------------|
| 1      | <b>Dr.P.Sujatha Therese</b>    | Improved Exergy in Three Phase Induction Motor by Eliminating Harmonics Using Wavelet Packet Transform                                                                                                             | SCI                                   | Vol1                               | 2022                | 383-390                     |
| 2      | <b>Dr.P.Sujatha Therese</b>    | Optimal Switching loss reduction in Three phase VSI using Threshold Rider Optimisation algorithm.                                                                                                                  | Scopus                                | vol. 10                            | 2022                | 42-49                       |
| 3      | <b>Dr.P.Sujatha Therese</b>    | <b>Hybrid optimization approach for optimal switching loss reduction in three-phase</b>                                                                                                                            | Scopus                                | <b>Vol 11</b>                      | 2023                | <b>270–290</b>              |
| 4      | <b>Dr.P.Sujatha Therese</b>    | Detection of cervix tumor using an intelligent system accompanied with PNN classification approach                                                                                                                 | Scopus                                | vol. 10                            | 2023                | 372-379                     |
| 5      | Dr.M.Mary Synthia Regis Prabha | A novel modified tunicate swarm algorithm for optimal charge scheduling and pricing of electric vehicles with user priority-based charging station selection” Concurrency and Computation: Practice and Experience | Scopus                                | Volume 35, Issue 3,1 February 2023 | 2023                | <b>Impact factor: 1.831</b> |
| 6      | Dr.M.Mary Synthia Regis Prabha | Built-In Calibration Standard and Decision Support System for Controlling Structured Data                                                                                                                          | Scopus                                | Volume 2022                        | 2022                | Impact factor: 3.635        |

| S. No. | Author(s)                      | Title of the paper                                                                                                                                                  | Journal with ISSN/Scopus/SCI/UGC care | Volume No. Issue No. | Year of Publication | Page (pp)     |
|--------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------|---------------------|---------------|
|        |                                | Storage Systems Using Soft Computing Techniques                                                                                                                     |                                       |                      |                     |               |
| 7      | Dr.M.Mary Synthia Regis Prabha | A quadratic boost converter derived multi output converter for electric vehicles application”, International journal of electrical and computer engineering systems | Scopus                                | , Volume 13, No. 8,  | 2022                | pp. 709-720   |
| 8      | Dr.M.Mary Synthia Regis Prabha | A comprehensive survey on charge scheduling of electric vehicles                                                                                                    | Scopus                                | , Volume 13, Issue 6 | 2022                |               |
| 9      | Dr.S.Anitha Janet Mary         | Fault diagnosis and control techniques wind energy conversion systems, a systematic review                                                                          | Scopus                                |                      | 2022                |               |
| 10     | Dr.S.Anitha Janet Mary         | Fault tolerant predictive power control of a DFIG for wind energy applications using 3L – NPC2                                                                      | Chitram publication                   |                      | 2023                | 63-66         |
| 11     | Dr.V.A Tibbie Pon Symon        | Frequency Variations of Low Inertia Grid by MPPT Controller & EHHO Algorithm: A Synthetic Inertia Approach”, SSRG                                                   | Scopus                                | IJEEE                | 2022                | 17-27         |
| 12     | Dr.J Arul Linsely              | Diagnosis of Melanoma Using Differential Evolution Optimized Artificial Neural Network                                                                              | Scopus                                |                      | 2023                | pp. 1203–1209 |
| 13     | Dr.J Arul Linsely              | Abnormality Detection Of Ct Liver Images Using Mask Recurrent Convolutional Neural Network Approach                                                                 | Scopus                                |                      | 2023                | 328–336       |
| 14     | Dr.J Arul Linsely              | An integrated 3D-sparse deep belief network with enriched seagull optimization algorithm for liver segmentation                                                     | Scopus                                |                      | 2023                | 1315–1334     |
| 15     | Dr.J Arul Linsely              | Optimal Process of Video Stabilization Using Hybrid RANSAC-MSAC Algorithm                                                                                           | Scopus                                |                      | 2023                | 1315–1334     |
| 16     | Dr.J Arul Linsely              | Optimal Process of Video Stabilization Using Hybrid RANSAC-MSAC Algorithm                                                                                           | Scopus                                | IJISAE               | 2023                | 564–571       |
| 17     | Dr.J Arul Linsely              | Skin Cancer Diagnosis using Cascaded Correlation Neural Network                                                                                                     | Scopus                                |                      | 2022                | 507–511       |

### 9. Details of patents applied/awarded:

| S.No. | Name of the Faculty member  | Title                                           | Date of filling | Application No. | Award No.            |
|-------|-----------------------------|-------------------------------------------------|-----------------|-----------------|----------------------|
| 1     | Dr.H.Vennila                | A Convection turbine renewable Energy Convertor | 30-09-2023      | 396378-001      | Application Accepted |
| 2     | Dr.Mary Syntia regis prabha | Solar Energy Storage System                     | 09/05/2023      | 385812-001      | Application Accepted |

### 10. Publications of Books/Monographs:

| S. No. | Author(s)                   | Name of the Book with ISBN                                                                                                                                    | Publisher/Place                                                                                                                                                                  | Year     |
|--------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 1      | <b>Dr.P.Sujatha Therese</b> | Design of self tuning Fuzzy PI Controller for MIMO process using an analytical approach for selecting the scaling factors<br>pp 599-606                       | Proceedings of the 2022 23rd International conference on Intelligent computing Instrumentation and control Technologies computational intelligence for smart systems (IEEE)      | Oct 2022 |
| 2      | <b>Dr.P.Sujatha Therese</b> | Widened Threshold Rider Optimisation Algorithm for optimal Switching loss Reduction in Three phase Voltage Source Inverter                                    | Proceedings of International Conference on Automation Computing and Renewable Systems(IEEE)                                                                                      | Jan2023  |
| 3      | <b>Dr.P.Sujatha Therese</b> | Deep Analysis on Inductive and Resistive Loading Variations for Optimal Switching Loss Reduction in 3-Phase VSI Employing Hybrid Rider Group Search Algorithm | <i>Proceedings of 5th International Conference on Smart Systems and Inventive Technology, ICSSIT 2023 (IEEE)</i>                                                                 | Feb2023  |
| 4      | <b>Dr.P.Sujatha Therese</b> | An optimized Deep learning Algorithm for cyber attack detection                                                                                               | <i>Proceedings of Springer 11th International Conference on Frontiers of intelligent Computing: Theory and Applications Smart Innovation Systems and Technologies (SPRINGER)</i> | 2023     |

### 11. Courses offered, Sanctioned Strength of Students and Enrolment details:

| S. NO. | Name of the Programme / Branch of study | Sancti oned Stren gth | Enrolment during 2022-23 |   | Total | Community |   |    |   |     |   |          |   |    |   |     |   |    |   | Existing Students, Strength |   |          |   |         |   |     |   | Pass Percenta ge of out going batch |
|--------|-----------------------------------------|-----------------------|--------------------------|---|-------|-----------|---|----|---|-----|---|----------|---|----|---|-----|---|----|---|-----------------------------|---|----------|---|---------|---|-----|---|-------------------------------------|
|        |                                         |                       | F                        | M |       | OC        |   | BC |   | BCM |   | MBC/ DNC |   | SC |   | SCA |   | ST |   | II year                     |   | III year |   | IV year |   |     |   |                                     |
|        |                                         |                       |                          |   |       | M         | F | M  | F | M   | F | M        | F | M  | F | M   | F | M  | F | M                           | F | M        | F | M       | F | M   | F |                                     |
|        | UG Programme                            | 30                    | -                        | 2 | 2     | -         | - | 2  | - | -   | - | -        | - | -  | - | -   | - | -  | - | 10                          |   | 7        | 1 | 11      | - | 91  |   |                                     |
|        | PG Courses                              | 18                    | -                        | 4 | 4     | 1         | - | 3  | - | -   | - | -        | - | -  | - | -   | - | -  | - | 1                           | - | -        | - | -       | - | 100 |   |                                     |
|        | Ph.D Programme                          |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |     |   |                                     |
|        | Diploma Certificate Courses (if any)    |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |     |   |                                     |
|        | MOOC/NPTEL/UGC online courses offered   |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |     |   |                                     |
|        | Total                                   | 48                    |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |     |   |                                     |

## 12. Enrolment of Students from Overseas and other States:

| S. No. | Degree and Subject | Nationality | State  | Number of Students |        | Total |
|--------|--------------------|-------------|--------|--------------------|--------|-------|
|        |                    |             |        | Male               | Female |       |
| 1      | ME (AE)            | Indian      | Kerala | 2                  |        | 2     |
| 2      | B.E(EEE)           | Indian      | Kerala | 9                  | 1      | 10    |

## 13. U.G./P.G. and Research degrees awarded:

| S. No | UG |       | P.G. |       | M. Phil. |    |    |       | Ph.D. |    |    |       |
|-------|----|-------|------|-------|----------|----|----|-------|-------|----|----|-------|
|       |    | Total |      | Total |          | FT | PT | Total |       | FT | PT | Total |
|       | 10 |       | 1    |       |          |    |    |       |       |    | 3  | 3     |

## 14. Fellowships Awarded (National/International) Faculty/Students Stipend awarded :

| S. No. | Agency | Position (URF/JRF/SRF/RA/others) | Number of Fellowships |   | Total |
|--------|--------|----------------------------------|-----------------------|---|-------|
|        |        |                                  | M                     | F |       |
| 1      |        |                                  |                       |   |       |

## 15.Scholarships Awarded:

| S. No. | Nature of Scholarship                    | P.G. |   | M.Phil. |   | Ph.D. |   | Total Amount Rs. |
|--------|------------------------------------------|------|---|---------|---|-------|---|------------------|
|        |                                          | M    | F | M       | F | M     | F |                  |
| 1      | B.C.(State)                              |      |   |         |   |       |   |                  |
| 2      | B.C.M.(State)                            |      |   |         |   |       |   |                  |
| 3      | M.B.C./D.N.C.(State)                     |      |   |         |   |       |   |                  |
| 4      | SC/SCA/ST(National)                      |      |   |         |   |       |   |                  |
| 5      | SC/SCA/ST(State)                         |      |   |         |   |       |   |                  |
| 6      | Management Scholar ship                  |      |   |         |   |       |   |                  |
| 7      | Loan Scholarship                         |      |   |         |   |       |   |                  |
| 8      | Moovalur Ramamirtham Ammaiyar Scheme     |      |   |         |   |       |   |                  |
| 9      | 'Pudhumai Penn' (modern woman)           |      |   |         |   |       |   |                  |
| 10     | Others ( please Specify the scholarship) |      |   |         |   |       |   |                  |
|        | Total                                    |      |   |         |   |       |   |                  |

## 16. Performance of the Students :

| S. No | Course | S1   |      | S2   |      | S3   |      | S4   |      | S5   |      | S6   |      | S7   |      | S8   |      |
|-------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|       |        | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass |
| 1     | BE     |      |      | 1    | 0    |      |      | 10   | 6    |      |      | 8    | 5    |      |      | 11   | 10   |
| 2     | ME     |      |      | 1    | 1    |      |      | 1    | 1    |      |      |      |      |      |      |      |      |

## 17. Placement Details:

| Name of the Placement co-ordinator: Dr.V A Tibbie Pon Syon   |                           |  |  |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
|--------------------------------------------------------------|---------------------------|--|--|--|--|--|--|----------------------------|--|--|--|--|--------|--|--|--|--|
| Phone/Mobile Number :e-mail:9894383003,tibbiesymon@gmail.com |                           |  |  |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| Number of Placement Programmes:                              |                           |  |  |  |  |  |  |                            |  |  |  |  |        |  |  |  |  |
| S. No.                                                       | Particulars               |  |  |  |  |  |  | Numbers of students placed |  |  |  |  |        |  |  |  |  |
|                                                              |                           |  |  |  |  |  |  | Male                       |  |  |  |  | Female |  |  |  |  |
| 1                                                            | Number of Students Placed |  |  |  |  |  |  | 3                          |  |  |  |  |        |  |  |  |  |



**22. Extension activities carried out :**

| S. No. | Name of the Activity                                                                                  | Beneficiaries         | Date       | Venue              |
|--------|-------------------------------------------------------------------------------------------------------|-----------------------|------------|--------------------|
| 1      | Save the Environment                                                                                  | Colachel Municipality | 19/01/2023 | Colachel Sea shore |
| 2      | Awareness program on prevention of addiction to dangerous gaming and hazardous gambling in cyberspace | students              | 22/2/2023  | EEE smart room     |

**23. Department Library/Learning Resources/ Information and Language Lab:**

Name of the Librarian or Faculty in-charge of the Library:

| S. No. | Particulars                                                           | Nos.   | S. No. | Particulars                                           | Nos. |
|--------|-----------------------------------------------------------------------|--------|--------|-------------------------------------------------------|------|
| 1      | No. of books available                                                | 1149   | 7      | No. of titles available                               | 1149 |
| 2      | Books added during the year 2022-23                                   | nil    | 8      | No. of CDs and Digital Books available                | 15   |
| 3      | No. of Indian Journals/Magazines                                      | 15     | 9      | No. of Foreign Magazines/Journals                     | nil  |
| 4      | No. of data bases available                                           | 4      | 10     | No. of Online Journals                                | nil  |
| 5      | Average No. of students visiting the Library per day                  | 4      | 11     | Average No. of books Issued per day                   | 1    |
|        |                                                                       |        | 12     | No. of digital books                                  | nil  |
| 6      | Availability of Internet (Specify the Capacity) (e.g. – 8 Mbps etc.,) | 1GB ps | 13     | Availability of Language Lab                          | nil  |
|        |                                                                       |        | 14     | NDL membership<br>15. Faculty members<br>16. Students | nil  |

**24. Information and Communication Technology Resources:**

| S. No. | Name of the Equipment | Specifications | Nos. | S. No. | Name of the Equipment | Specifications | Nos. |
|--------|-----------------------|----------------|------|--------|-----------------------|----------------|------|
|        |                       |                |      |        |                       |                |      |

**24.Collaborative Researches :****25.Consultancies :**

STP consultancy for an amount of Rs.3 lakhs to NIMS Medicity

**26.No. of NET/SET/GATE/CSIR Qualified students:**

**27. MOUs signed :**

| S.No | Date    | MoU signed with | Number of Activities | Remarks     |
|------|---------|-----------------|----------------------|-------------|
| 1    | 15-3-23 | Educorp         | 1                    | Interaction |

**28. Innovations and Best Practices :****29. Academic Flexibility :**

| S.No | Courses offered | Platform (MOOC, NPTEL, etc.) | No. Students enrolled | No. of Students Passed |
|------|-----------------|------------------------------|-----------------------|------------------------|
|      |                 |                              |                       |                        |

**NAME OF THE DEPARTMENT: ELECTRONICS AND INSTRUMENTATION ENGINEERING****1. Department Details :**

|                                          |                                                   |
|------------------------------------------|---------------------------------------------------|
| Name of the Faculty                      | Faculty of Electrical and Electronics Engineering |
| Name of the HoD, Phone No. and E-mail ID | Kumar S S, 9789546665, kumarss@niuniv.com         |
| Year of Establishment                    | 1997                                              |
| Telephone Number                         | 9789546665,                                       |
| Website / E mail                         | eie@niuniv.com                                    |

**2. Details of Faculty Members :**

| S. No. | Name of the Faculty | Qualification | Designation         | Specialisation      | Experience in years |          | E-mail ID & Phone/Cell Phone No.                           |
|--------|---------------------|---------------|---------------------|---------------------|---------------------|----------|------------------------------------------------------------|
|        |                     |               |                     |                     | Teaching            | Research |                                                            |
| 1      | Dr. S. S. Kumar     | M.E. Ph.D     | Associate Professor | Applied Electronics | 19                  | 15       | kumarss@niuniv.com/<br>9789546665                          |
| 2      | Dr. V. Amsaveni     | M.E. Ph.D     | Associate Professor | Applied Electronics | 16                  | 10       | amsaveni@niuniv.com,<br>9790653295                         |
| 3      | Dr. D. Menaka       | M.E. Ph.D     | Associate Professor | Applied Electronics | 18.3                | 10       | menakaberita@gmail.com,<br>menaka@niuniv.com<br>9787002920 |
| 4      | Dr. R. Manju        | M.E. Ph.D     | Associate Professor | Applied Electronics | 18                  | 14       | manjuria.7@gmail.com<br>9994104539                         |

| S. No. | Name of the Faculty  | Qualification | Designation         | Specialisation                        | Experience in years |          | E-mail ID & Phone/Cell Phone No.       |
|--------|----------------------|---------------|---------------------|---------------------------------------|---------------------|----------|----------------------------------------|
|        |                      |               |                     |                                       | Teaching            | Research |                                        |
| 5      | Dr. R. Sarath        | M.E. Ph.D     | Associate Professor | Applied Electronics                   | 16.8                | 10       | sarathraveendran@gmail.com /9443791259 |
| 6      | Dr. S. Felix Stephen | M.E. Ph.D     | Assistant Professor | Control & Instrumentation Engineering | 15                  | 6        | felixstephensfs@gmail.com / 9486117668 |
| 7      | Dr.S. BINU SATHIYA   | BE,ME,PhD     | Assistant Professor | Image processing                      | 16.2                | -        | katrina.sati@gmail.com 9384734365      |

### 3. Faculty Members Achievements / Performance:

| S. No. | Name                 | h index |            | Publications |            | Citations |            | API   |            | M.Phil. awarded |            | Ph.D. awarded |            | Cumulative Scholars |        |
|--------|----------------------|---------|------------|--------------|------------|-----------|------------|-------|------------|-----------------|------------|---------------|------------|---------------------|--------|
|        |                      | 22-23   | Cumulative | 22-23        | Cumulative | 22-23     | Cumulative | 22-23 | Cumulative | 22-23           | Cumulative | 22-23         | Cumulative | M. Phil             | Ph.D . |
| 1.     | Dr.S.S.Kumar         | -       | 13         | 6            | 69         | 113       | 589        | 435   | 1041       | -               | -          | -             | 8          | -                   | 6      |
| 2.     | Dr. V. Amsaveni      | -       | 2          | -            | 9          | -         | 25         | 240   | 485        | -               | -          | -             | -          | -                   | 1      |
| 3.     | Dr. D. Menaka        | -       | 3          | 2            | 15         | -         | 22         | 420   | 697        | -               | -          | -             | -          | -                   | 6      |
| 4.     | Dr. R. Manju         | -       | 2          | -            | 24         | -         | 7          | 302   | 565        | -               | -          | -             | -          | -                   | 1      |
| 5.     | Dr. R. Sarath        | -       | 2          | 11           | 15         | 3         | 11         | 280   | 390        | -               | -          | -             | -          | -                   | 6      |
| 6.     | Dr. S. Felix Stephen | -       | 2          | -            | 5          | -         | 7          | 204   | 415        | -               | -          | -             | -          | -                   | 1      |
| 7.     | Dr.S. Binu Sathiya   | -       | 1          | -            | 6          | -         | 25         | 352   | 805        | -               | -          | -             | -          | -                   | -      |

### 4.. Research Schemes/Projects undertaken :

| S. No. | Name of the Principal Investigator | Funding Agency | Title of the Project | Duration |    | Amount Rs. |
|--------|------------------------------------|----------------|----------------------|----------|----|------------|
|        |                                    |                |                      | From     | To |            |
| 1      |                                    |                |                      |          |    |            |

**5. a) Participation of the Faculty members, presentation of papers in Congresses/Conferences/Seminars/Workshops,Symposia, etc.**

| <b>S. No.</b> | <b>Name of the Faculty</b> | <b>Congress/Conference/Seminar /Workshop and Venue</b>                                                                | <b>Title of the paper</b>                                                                                                   | <b>Date</b>            |
|---------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------|
| 1.            | Dr. S. S. Kumar            | International Conference on Control Instrumentation Communication and Computational Technologies, Dept. of EIE, NICHE | Pap-smear image based Cervical Cancer Detection using Fuzzy Local Information C-Means Clustering Technique                  | 27-04-2023, 28-04-2023 |
| 2.            | Dr. S. S. Kumar            | International Conference on Control Instrumentation Communication and Computational Technologies, Dept. of EIE, NICHE | Design of Novel Bidirectional Converter for Electric Vehicles                                                               | 27-04-2023, 28-04-2023 |
| 3.            | Dr. S. S. Kumar            | International Conference on Control Instrumentation Communication and Computational Technologies, Dept. of EIE, NICHE | Kalman Filter Based LSTM Architecture For Speaker Segmentation In Hearing Aids                                              | 27-04-2023, 28-04-2023 |
| 4.            | Dr. S. S. Kumar            | International Conference on Control Instrumentation Communication and Computational Technologies, Dept. of EIE, NICHE | Prediction of Fatigue Life and Damage of A Circular Mount Under Random Vibration using ANSYS                                | 27-04-2023, 28-04-2023 |
| 5.            | Dr. S. S. Kumar            | International Conference on Control Instrumentation Communication and Computational Technologies, Dept. of EIE, NICHE | Light Deep Neural Network for Autonomous Driving: A Cost-Effective Solution for Automotive Platforms                        | 27-04-2023, 28-04-2023 |
| 6.            | Dr. S. S. Kumar            | International Conference on Control Instrumentation Communication and Computational Technologies, Dept. of EIE, NICHE | Low Illuminated Video Image Enhancement using CLAHE-DWT-LAPLACIAN Algorithm                                                 | 27-04-2023, 28-04-2023 |
| 7.            | Dr. V. Amsaveni            | Workshop, Dept. of EIE, NICHE, Kumaracoil                                                                             | Two days Workshop on "Mobile Robots"                                                                                        | 9-3-2023, 10-3-2023    |
| 8.            | Dr. V. Amsaveni            | International Conference on Control Instrumentation Communication and Computational Technologies, Dept. of EIE, NICHE | Plant Leaf Disease Classification Methodologies: A Comprehensive Study of Machine Learning & Deep Learning based strategies | 27-4-2023, 28-4-2023   |
| 9.            | Dr. V. Amsaveni            | International Conference on Control Instrumentation                                                                   | Implementation of Rain                                                                                                      | 27-4-2023,             |

| S. No. | Name of the Faculty | Congress/Conference/Seminar /Workshop and Venue                                                                       | Title of the paper                                                                                                          | Date                   |
|--------|---------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------|
|        |                     | Communication and Computational Technologies, Dept. of EIE, NICHE                                                     | Detection by Shopping Mall                                                                                                  | 28-4-2023              |
| 10.    | Dr. D. Menaka       | Workshop, Dept. of EIE, NICHE, Kumaracoil                                                                             | Two days Workshop on "Mobile Robots"                                                                                        | 9-3-2023, 10-3-2023    |
| 11.    | Dr. D. Menaka       | International Conference on Control Instrumentation Communication and Computational Technologies, Dept. of EIE, NICHE | <b>Brain Tumor detection: A Survey</b>                                                                                      | 27-04-2023, 28-04-2023 |
| 12.    | Dr. D. Menaka       | International Conference on Control Instrumentation Communication and Computational Technologies, Dept. of EIE, NICHE | A Review On Ensemble Based Deep Learning Techniques                                                                         | 27-04-2023, 28-04-2023 |
| 13.    | Dr. D. Menaka       | International Conference on Control Instrumentation Communication and Computational Technologies, Dept. of EIE, NICHE | A Review Paper on Botnets in Internet of Things                                                                             | 27-04-2023, 28-04-2023 |
| 14.    | Dr. D. Menaka       | International Conference on Control Instrumentation Communication and Computational Technologies, Dept. of EIE, NICHE | Investigating the Effectiveness of Soft-Computing Techniques in Lung Nodule Detection via Medical Imaging Analysis          | 27-04-2023, 28-04-2023 |
| 15.    | Dr. D. Menaka       | International Conference on Control Instrumentation Communication and Computational Technologies, Dept. of EIE, NICHE | Nail Cuticles, Eye-Socket and Ear based Multimodal Biometric Systems using Optimized Radial Basis Function Networks (RBNFs) | 27-04-2023, 28-04-2023 |
| 16.    | Dr. D. Menaka       | International Conference on Control Instrumentation Communication and Computational Technologies, Dept. of EIE, NICHE | An Advanced Solar Tracking System with Less Tracking Error Through ChoA                                                     | 27-04-2023, 28-04-2023 |
| 17.    | Dr. D. Menaka       | International Conference on Control Instrumentation Communication and Computational Technologies, Dept. of EIE, NICHE | Monitoring of Water Quality Using Wireless Sensor Networks                                                                  | 27-04-2023, 28-04-2023 |
| 18.    | Dr. D. Menaka       | International Conference on Control Instrumentation Communication and                                                 | Sensor Attention Model Employing Transformer                                                                                | 27-04-2023, 28-04-2023 |

| S. No. | Name of the Faculty  | Congress/Conference/Seminar /Workshop and Venue                                                                       | Title of the paper                                                                                                                      | Date                   |
|--------|----------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------|
|        |                      | Computational Technologies, Dept. of EIE, NICHE                                                                       | with CNN for Human Action Recognition using IMU                                                                                         |                        |
| 19.    | Dr. R. Manju         | Workshop, Dept. of EIE, NICHE, Kumaracoil                                                                             | Two days Workshop on “Mobile Robots”                                                                                                    | 9-3-2023, 10-3-2023    |
| 20.    | Dr. R. Manju         | International Conference on Control Instrumentation Communication and Computational Technologies, Dept. of EIE, NICHE | Design of Pick and Place Robotic Arm using Arduino controller                                                                           | 27-04-2023, 28-04-2023 |
| 21.    | Dr. R. Manju         | International Conference on Control Instrumentation Communication and Computational Technologies, Dept. of EIE, NICHE | Review of ECG-based Heart beat Classification using Deep Learning Techniques                                                            | 27-04-2023, 28-04-2023 |
| 22.    | Dr. R. Sarath        | Workshop, Dept. of EIE, NICHE, Kumaracoil                                                                             | Two days Workshop on “Mobile Robots”                                                                                                    | 9-3-2023, 10-3-2023    |
| 23.    | Dr. R. Sarath        | International Conference on Control Instrumentation Communication and Computational Technologies, Dept. of EIE, NICHE | A Review on Different Bio-Inspired Optimization Algorithms used for Feature Selection of Classification of ECG Signals in Deep Learning | 27-04-2023, 28-04-2023 |
| 24.    | Dr. R. Sarath        | International Conference on Control Instrumentation Communication and Computational Technologies, Dept. of EIE, NICHE | Image Classification and Deep Learning approaches for Brain Tumor Detection with MRI images of Brain                                    | 27-04-2023, 28-04-2023 |
| 25.    | Dr. R. Sarath        | International Conference on Control Instrumentation Communication and Computational Technologies, Dept. of EIE, NICHE | Implementation of prototype Invelox wind Turbine System                                                                                 | 27-04-2023, 28-04-2023 |
| 26.    | Dr. S. Felix Stephen | Workshop, Dept. of EIE, NICHE, Kumaracoil                                                                             | Two days Workshop on “Mobile Robots”                                                                                                    | 9-3-2023, 10-3-2023    |
| 27.    | Dr. S. Felix Stephen | International Conference on Control Instrumentation Communication and Computational Technologies, Dept. of EIE, NICHE | Deep-Learning-Based Hybrid Model for Esophageal Cancer Detection and Classification from Histopathological or Endoscopic Images         | 27-04-2023, 28-04-2023 |
| 28.    | Dr. S. Felix Stephen | International Conference on Control Instrumentation Communication and                                                 | Maximizing Solar Power Plant Efficiency: The Benefits of an IoT-                                                                        | 27-04-2023, 28-04-2023 |

| S. No. | Name of the Faculty | Congress/Conference/Seminar /Workshop and Venue                                                                                                                       | Title of the paper                                                                                  | Date                   |
|--------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------|
|        |                     | Computational Technologies, Dept. of EIE, NICHE                                                                                                                       | Based Monitoring and Prevention System                                                              |                        |
| 29.    | Dr. S. Binu Sathiya | Workshop, Dept. of EIE, NICHE, Kumaracoil                                                                                                                             | Two days Workshop on "Mobile Robots"                                                                | 9-3-2023, 10-3-2023    |
| 30.    | Dr. S. Binu Sathiya | International Conference on Control Instrumentation Communication and Computational Technologies, Dept. of EIE, NICHE                                                 | An Electric Vehicle Battery Charge Optimization and Balancing using Series - Parallel Configuration | 27-04-2023, 28-04-2023 |
| 31.    | Dr. S. Binu Sathiya | Workshop, IQAC, R and D cell, Nirmala Memorial Foundation College, Garware Institute of Career Education and Development, Kalina, Santacruz East, Mumbai, Maharashtra | Workshop on PLS(Partial Least Squares)                                                              | 12-05-2023             |

**b) Foreign Faculty/Expert visit to the Department:**

| S. No. | Name & Designation                              | Institute                                                                                            | Country  | Duration           | Purpose                  |
|--------|-------------------------------------------------|------------------------------------------------------------------------------------------------------|----------|--------------------|--------------------------|
| 1      | Dr. Branesh Madhavan Pillai, Research Professor | Centre for Biomedical and Robotics Technology (BART LAB), Faculty of Engineering, Mahidol University | Thailand | 1 day(27-4-2023)   | International Conference |
| 2      | Shri. Sudarsana Doss, EIE Lead                  | KBR                                                                                                  | Iraq     | 1 day (20-03-2023) | Seminar                  |

**6. Faculty acted as Chief Guest, Key note Speakers, Resource Person, Chair Person, External experts, etc. :**

| S. No. | Name of the Faculty member | Role | Event                                                                                   | Title                | Venue & Date                                          |
|--------|----------------------------|------|-----------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------|
| 1      | Dr. S. S. Kumar            | ASP  | National Conference on Recent Advancement in Communication and electrical Technologies, | Generative AI Models | Sri Krishna College of Engineering and Technology, TN |
| 2      | Dr. S. S. Kumar            | ASP  | International Conference on                                                             | Technical Session    | Dept. of ECE, NICHE                                   |

|   |               |     |                                                                          |                                                                 |                                                                           |
|---|---------------|-----|--------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------|
|   |               |     | Emerging Technologies in Engineering and Applied Sciences (ICETEAS 2023) |                                                                 |                                                                           |
| 3 | Dr. D. Menaka | ASP | FDP                                                                      | Presentation on the topic, "Advances in Automation and Control" | Department of EEE, ECE and CSE at PSN Institute of Technology and Science |

#### 7. Details of Seminars, Conferences, Refresher courses, Webminars Organised :

| S. No. | Name of the Faculty member           | Congress/Conference/Seminar/ Workshop/Symposia , Webminars etc. organised                                      | State/National/ International Level | Date                   |
|--------|--------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------|------------------------|
| 1      | Dr. S. S. Kumar                      | Seminar on Road to Gate Exam                                                                                   | National                            | 17-02-2023             |
| 2      | Dr.R. Manju<br>Dr. R. Sarath         | Two days Workshop on "Mobile Robots"                                                                           | National                            | 9-3-2023,<br>10-3-2023 |
| 3      | Dr. S. Binu Sathya                   | One Day Seminar on Oil and Gas Industry Operations                                                             | National                            | 20-03-2023             |
| 4      | Dr. D. Menaka,<br>Dr. S. Binu Sathya | International Conference on Control Instrumentation Communication and Computational Technologies – ICCICCT2023 | International                       | 27,28-04-2023          |

#### 8. Publication of Research Papers at the State/National/International Levels:

| S. No. | Author(s)      | Title of the paper                                                                                                                                                  | Journal with ISSN/Scopus/ SCI/UGC care                                           | Volume No. Issue No. | Year of Publication | Page (pp)     |
|--------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------|---------------------|---------------|
| 1.     | Dr. S. S.Kumar | Early cervical cancer diagnosis using Sooty tern-optimized CNN-LSTM classifier<br><a href="https://doi.org/10.1002/ima.22764">https://doi.org/10.1002/ima.22764</a> | International Journal of Imaging Systems and Technology<br>this link is disabled | 32(6)                | July 2022           | pp. 1846–1860 |
| 2.     | Dr. S. S.Kumar | Deep Learning Based Simple CNN Weld Defects Classification Using Optimization Technique<br>DOI:10.1134/s1061830922060109                                            | Russian Journal of Nondestructive Testing<br>this link is disabled – Springer    | 58(6)                | Sep 2022            | pp. 499–509   |
| 3.     | Dr. S. S.Kumar | Recent advancement in cervical cancer diagnosis for automated screening: a detailed review                                                                          | Journal of Ambient Intelligence and Humanized Computing                          |                      | 2022                | 1868-5145     |

| S. No. | Author(s)      | Title of the paper                                                                                                        | Journal with ISSN/Scopus/SCI/UGC care                                                                                                                                                      | Volume No. Issue No. | Year of Publication | Page (pp)    |
|--------|----------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------|--------------|
| 4.     | Dr. S. S.Kumar | LCD-Capsule Network for the Detection and Classification of Lung Cancer on Computed Tomography Images                     | Multimedia Tools and Applications                                                                                                                                                          |                      | March, 2023         | 1573-7721    |
| 5.     | Dr. S. S.Kumar | Deep learning-based weld defect classification using VGG16 transfer learning adaptive fine-tuning<br>Impact factor: 0.486 | International Journal on Interactive Design and Manufacturing (IJIDeM)<br>10.1007/s12008-023-01327-3.                                                                                      |                      | May, 2023           | 1955-2505    |
| 6.     | Dr. S. S.Kumar | Finite element analysis of the piezo electric energy Harvester for the performance evaluation using ansys                 | Semiconductor Optoelectronics,<br><a href="https://bdtgd.cn/">https://bdtgd.cn/</a>                                                                                                        | Vol. 41<br>No. 12    | 2022                | pp:1592-1604 |
| 7.     | Dr. D.Menaka   | Detection of Covid19 using CNN: a Review                                                                                  | IEEE - Proceedings of the 2022 3rd International Conference on Intelligent Computing, Instrumentation and Control Technologies: Computational Intelligence for Smart Systems, ICICICT 2022 |                      | Oct, 2022           | pp. 72–77    |
| 8.     | Dr. D.Menaka   | Multimodal Data Analysis Using Soft Computing Techniques For The Detection and Classification of Lung Cancer              | IEEE - Proceedings of the 2022 3rd International Conference on Intelligent Computing, Instrumentation and Control Technologies: Computational Intelligence for Smart Systems, ICICICT 2022 |                      | Oct, 2022           | pp. 150–153  |

| S. No. | Author(s)     | Title of the paper                                                                                                                                                                                   | Journal with ISSN/Scopus/SCI/UGC care                                                                                                                                                      | Volume No. Issue No. | Year of Publication | Page (pp)      |
|--------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------|----------------|
| 9.     | Dr. D.Menaka  | A hybrid approach using Bidirectional Neural Networks for Human Activity Recognition<br>doi: 10.1109/ICICICT54557.2022.9917906.                                                                      | IEEE - Proceedings of the 2022 3rd International Conference on Intelligent Computing, Instrumentation and Control Technologies: Computational Intelligence for Smart Systems, ICICICT 2022 |                      | Oct 2022            | pp. 166–171    |
| 10.    | Dr. D.Menaka  | Electromechanical SETS with RL technique<br><b>DOI:</b> <a href="https://doi.org/10.1109/AIC55036.2022.9848959">10.1109/AIC55036.2022.9848959</a>                                                    | IEEE - Proceedings - 2022 IEEE World Conference on Applied Intelligence and Computing, AIC 2022 ISBN:978-1-6654-7988-2                                                                     |                      | Aug 2022            | pp. 455–461    |
| 11.    | Dr. D. Menaka | Importance of Machine Learning Algorithms to Detect Botnet DDoS Attacks<br><b>DOI:</b> <a href="https://doi.org/10.1109/ICAISS55157.2022.10011016">10.1109/ICAISS55157.2022.10011016</a>             | 2022 International Conference on Augmented Intelligence and Sustainable Systems (ICAISS)                                                                                                   |                      | 2022/11/24 Jan 2023 |                |
| 12.    | Dr. D. Menaka | Hybrid deep neural network models for boosting Human Activity Recognition using IoT wearables, <a href="https://doi.org/10.21203/rs.3.rs-2035081/v1">https://doi.org/10.21203/rs.3.rs-2035081/v1</a> | Research Square                                                                                                                                                                            |                      | 2022                | Pp. 1-16       |
| 13.    | Dr. D. Menaka | Human fall detection using Modified EfficientNet                                                                                                                                                     | European Chemical Bulletin ISSN 2063-5346                                                                                                                                                  | 12(5)                | 2023                | Pp. 1724-1730  |
| 14.    | Dr. R. Sarath | An intelligent brain tumor segmentation                                                                                                                                                              | Multimedia Tools and applications                                                                                                                                                          | Springer             | 13/12/2022 Dec 2022 | pp 20059–20078 |

| S. No. | Author(s)     | Title of the paper                                                                                          | Journal with ISSN/Scopus/SCI/UGC care                                                               | Volume No. Issue No. | Year of Publication | Page (pp)       |
|--------|---------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------|---------------------|-----------------|
|        |               | using improved Deep Learning Model Based on Cascade Regression method                                       | ISSN:1380-7501                                                                                      |                      |                     |                 |
| 15.    | Dr. R. Sarath | Survey of Brain Tumor Segmentation with Deep Neural Network                                                 | The International Journal of Health Sciences ISSN:2550-6978                                         | 6(S4)                | 2022                | Pp: 9932-9943   |
| 16.    | Dr. R. Sarath | Effective Detection of Brain Cancers Using Optimized Deep Learned CAD Models                                | YMER Digital ISSN:0044-0477                                                                         | Vol.21 , issue: 11   | 2022                | Pp: 409-424     |
| 17.    | Dr. R. Sarath | Effective Classification of Multi-Class Brain Cancers Using Feature-Optimized Convolutional Neural Network' | NeuroQuantology ISSN:1303-5150                                                                      | Vol. 20, Issue . 19  | 2022                | Pp: 2017-2039   |
| 18.    | Dr. R. Sarath | An Intelligent Grading of Astrocytomas Brain Tumors Through Improved Harish Hawks Optimized Deep CNN        | International Journal of Innovative Research in Technology ISSN:2349-6002.                          | Vol. 09, Issue . 5   | 2022                | Pp: 56-64       |
| 19.    | Dr. R. Sarath | Real Time Detection and Grading of Brain Tumors from MRI using Improved HHO Optimized Deep CNN Frame Work   | YMER Digital ISSN:0044-0477                                                                         | Vol. 21, Issue . 12  | Dec - 2022          | Pp: 1716 - 1734 |
| 20.    | Dr. R. Sarath | Automated Early Detection of Astrocytomas Tumor based on Optimized Adaptive Cluster with Super Pixel Model  | 13th International Conference on Advances in Computing, Control, and Telecommunication Technologies | Vol. 08              | ACT 2022, 2022,     | pp. 221–226     |
| 21.    | Dr. R. Sarath | Comparative Study on Deep Learning Models for Bearing Fault Diagnosis                                       | 13th International Conference on Advances in                                                        | 8                    | 2022                | pp. 474–481     |

| S. No. | Author(s)     | Title of the paper                                                                                                                                                   | Journal with ISSN/Scopus/SCI/UGC care                                                              | Volume No. Issue No.          | Year of Publication | Page (pp)       |
|--------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------|---------------------|-----------------|
|        |               |                                                                                                                                                                      | Computing, Control, and Telecommunication Technologies                                             |                               |                     |                 |
| 22.    | Dr. R. Sarath | Parametric Analysis on Bearing Fault Diagnosis Model with Hybrid classifier                                                                                          | IEEE - 2022 2nd International Conference on Intelligent Technologies, CONIT 2022,                  |                               | Aug, 2022           | pp. 1-8.        |
| 23.    | Dr. R. Sarath | An intelligent brain tumor segmentation using improved Deep Learning Model Based on Cascade Regression method                                                        | Multimedia Tools and Applications,                                                                 | Impact factor: 3.158 Springer | Dec, 2022           | Pp: 20059-20078 |
| 24.    | Dr. R. Sarath | Combined classification models for bearing fault diagnosis with improved ICA and MFCC feature set                                                                    | Elsevier : Advances in Engineering Software                                                        | Volume 173                    | November 2022       | Pp: 1-13        |
| 25.    | Dr. R. Sarath | Optimisation assisted CNN framework for bearing fault diagnosis<br><a href="https://doi.org/10.1504/IJNVO.2022.124767">https://doi.org/10.1504/IJNVO.2022.124767</a> | International Journal of Networking and Virtual Organisations Inderscience<br>ISSN: 1470-9503      | Vol 26, No.4                  | July, 2022          | pp. 291–308     |
| 26.    | Dr. R. Sarath | Short Time optimized super pixels segmentation for effective detection of Astrocytoma Brain tumors                                                                   | Grenze International Journal of Engineering and Technology, Jan Issue<br>Grenze Scientific society | Grenze ID:01. GIJET .9.1.48   | Jan 2023            | Pp: 130-137     |

**9. Details of patents applied/awarded:**

| S.No. | Name of the Faculty member | Title                                                                                     | Date of filling | Application No. | Award No. |
|-------|----------------------------|-------------------------------------------------------------------------------------------|-----------------|-----------------|-----------|
| 1     | Dr.V. Amsaveni             | An AI based Self-Contrastive Learning System for Image Processing                         | June 2023       |                 |           |
| 2     | Dr.R.Manju                 | Reinforcement Machine Learning Based Temperature Control of Shell and Tube Heat Exchanger | May 2023        |                 |           |
| 3     | Dr.R.Sarath                | Reinforcement Machine Learning Based Temperature Control of Shell and Tube Heat Exchanger | May 2023        |                 |           |

**10. Publications of Books/Monographs:**

| S. No. | Author(s)    | Name of the Book with ISBN                      | Publisher/Place             | Year |
|--------|--------------|-------------------------------------------------|-----------------------------|------|
| 1      | Dr. R. Manju | Multiple Choice Questions on Electronic Devices | Lambert Academic Publishing | 2023 |
| 2      | Dr. R. Manju | Multiple Choice Questions on Microcontrollers   | Lambert Academic Publishing | 2023 |

**NAME OF THE DEPARTMENT: ENGLISH****1. Department Details :**

|                                          |                                                             |
|------------------------------------------|-------------------------------------------------------------|
| Name of the Faculty                      | Faculty of Science and Humanities                           |
| Name of the HoD, Phone No. and E-mail ID | Prof. A. Khaleel Rahuman , 9486840283, khaleelniu@gmail.com |
| Year of Establishment                    | 1989                                                        |
| Telephone Number                         | 9486840283                                                  |
| Website / E mail                         | www.niuniv.com                                              |

**2. Details of Faculty Members :**

| S. No. | Name of the Faculty      | Qualification         | Designation | Specialisation            | Experience in years |          | E-mail ID & Phone/Cell Phone No.                                            |
|--------|--------------------------|-----------------------|-------------|---------------------------|---------------------|----------|-----------------------------------------------------------------------------|
|        |                          |                       |             |                           | Teaching            | Research |                                                                             |
| 1.     | Dr. R. Subramania Pillai | M.A., M. Phil., Ph.D. | Prof.       | Indian Writing in English | 35                  | 06       | <a href="mailto:rspillai06@gmail.com">rspillai06@gmail.com</a> - 9952734060 |

|    |                          |                                                 |                       |                                   |     |     |                                                                                          |
|----|--------------------------|-------------------------------------------------|-----------------------|-----------------------------------|-----|-----|------------------------------------------------------------------------------------------|
| 2. | Prof. A. Khaleel Rahuman | M.A., M. Phil.                                  | Associate Prof. & HOD | American Literature Postmodernism | 27  | 15  | <a href="mailto:khaleelni@gmail.com">khaleelni@gmail.com</a><br>9486840283               |
| 3. | Dr. P. Deepa             | M.A., M. Phil., Ph.D.                           | AP                    | ELT                               | 15  | 10  | <a href="mailto:deepam_nice@rediffmail.com">deepam_nice@rediffmail.com</a><br>9994850845 |
| 4. | Dr. J. Sheila            | M.A., M. Phil., M.A., M.Sc., MBA, Ph.D.         | AP                    | Canadian Literature               | 18  | 08  | <a href="mailto:jsheila@niuniv.com">jsheila@niuniv.com</a><br>9445150802                 |
| 5. | Ms. J. Mathi Vathani     | M.A., M. Phil.                                  | TA                    | Indian Writing in English         | 05  | Nil | <a href="mailto:mathivathani662@gmail.com">mathivathani662@gmail.com</a>                 |
| 6. | O. M. Mohammad Yaseen    | M. A., M. Phil.                                 | TA                    | Indian Writing in English         | 2.5 | 02  | <a href="mailto:al.yaseen07@gmail.com">al.yaseen07@gmail.com</a>                         |
| 7. | Mr. S. J. Jinu Sam       | M. A., M.Phil., B.Ed.                           | TA                    | Australian Aboriginal Literature  | 01  | Nil | <a href="mailto:jinusam3@gmail.com">jinusam3@gmail.com</a>                               |
| 8. | Mr. A. Ajin Monish       | M. A., M.Phil., B.Ed., PG Dip. ELT, B. Lib. Sc. | TA                    | Indian Writing in English         | 01  | Nil | <a href="mailto:ajin.monish@gmail.com">ajin.monish@gmail.com</a>                         |

### 3. Faculty Members Achievements /Performance:

| S. No. | Name                     | h index |            | Publications |            | Citations |            | API   |            | M.Phil. awarded |            | Ph.D. awarded |            | Cumulative Scholars |       |
|--------|--------------------------|---------|------------|--------------|------------|-----------|------------|-------|------------|-----------------|------------|---------------|------------|---------------------|-------|
|        |                          | 22-23   | Cumulative | 22-23        | Cumulative | 22-23     | Cumulative | 22-23 | Cumulative | 22-23           | Cumulative | 22-23         | Cumulative | M. Phil             | Ph.D. |
|        | Dr. R. Subramania Pillai |         | Nil        | 08           | 08         |           | Nil        |       |            |                 | Nil        |               | Nil        | Nil                 | 08    |
|        | Dr. P. Deepa             |         | Nil        | 06           | 07         |           | Nil        |       |            |                 | Nil        |               | Nil        | Nil                 | 04    |
|        | Dr. J. Sheila            |         | Nil        |              | Nil        |           | Nil        |       |            |                 | Nil        |               | Nil        | Nil                 | 04    |
|        | Ms. J. Mathi Vathani     |         | Nil        | 01           | 01         |           | Nil        |       |            |                 | Nil        |               | Nil        | Nil                 | Nil   |

### 4.. Research Schemes/Projects undertaken : NIL

| S. No. | Name of the Principal Investigator | Funding Agency | Title of the Project | Duration |    | Amount Rs. |
|--------|------------------------------------|----------------|----------------------|----------|----|------------|
|        |                                    |                |                      | From     | To |            |
| 1      |                                    |                |                      |          |    |            |
| 2      |                                    |                |                      |          |    |            |

**5. a) Participation of the Faculty members, presentation of papers in Congresses/Conferences/Seminars/Workshops,Symposia, etc.**

| S. No. | Name of the Faculty              | Congress/Conference/Seminar /Workshop and Venue                                                     | Title of the paper | Date                    |
|--------|----------------------------------|-----------------------------------------------------------------------------------------------------|--------------------|-------------------------|
| 1.     | <b>Dr. P. Deepa</b>              | Workshop on Research Proposal Writing: Strategies to Secure Research Grants - Placement Cell, NICHE |                    | 18/05/2023              |
| 2.     | <b>Dr. J. Sheila</b>             | Workshop on Research Proposal Writing: Strategies to Secure Research Grants - Placement Cell, NICHE |                    | 18/05/2023              |
| 3.     | <b>Ms. J. Mathi Vathani</b>      | Workshop on Research Proposal Writing: Strategies to Secure Research Grants - Placement Cell, NICHE |                    | 18/05/2023              |
| 4.     | <b>Mr. O. M. Mohammed Yaseen</b> | Workshop on Art of Writing & Publishing Research Papers in Scholarly Journals                       |                    | 19/05/2023 & 20/05/2023 |
| 5.     | <b>Mr. S. J. Jinu Sam</b>        | Workshop on Art of Writing & Publishing Research Papers in Scholarly Journals                       |                    | 19/05/2023 & 20/05/2023 |
| 6.     | <b>Mr. A. Ajin Monish</b>        | Workshop on Art of Writing & Publishing Research Papers in Scholarly Journals                       |                    | 19/05/2023 & 20/05/2023 |
|        |                                  | A National Level Guest Lecture on 'Developing Sports Culture in India:Prospects and Challenges'     |                    | 29/08/2022              |

**b) Foreign Faculty / Expert visit to the Department : NIL**

| S. No. | Name & Designation | Institute | Country | Duration | Purpose |
|--------|--------------------|-----------|---------|----------|---------|
| 1      |                    |           |         |          |         |

**6. Faculty acted as Chief Guest, Key note Speaker, Resource Person, Chair Person, External Expert, etc. :**

| S. No. | Name of the Faculty member      | Role            | Event                                                                  | Title                                              | Venue & Date                                                                                                       |
|--------|---------------------------------|-----------------|------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| 1.     | <b>Prof. A. Khaleel Rahuman</b> | External Expert | Board of Studies in English, PSN College of Engineering and Technology |                                                    | PSN College of Engineering and Technology (Autonomous), Melathediyoar, Tirunelveli, Tamil Nadu - <b>04-07-2022</b> |
| 3.     | <b>Ms. J. Mathi Vathani</b>     | Judge           | Elocution Competition                                                  | National Youth Day organized by Nehru Yuva Kendra, | 12/01/2024<br>NICHE Campus                                                                                         |

## 7. Details of Seminars, Conferences, Refresher courses, Webinars Organised:

| S. No. | Name of the Faculty member | Congress/Conference/Seminar/ Workshop/Symposia , Webmniars etc. organised                                                                                                                                                                                                  | State/National/ International Level       | Date       |
|--------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------|
|        |                            | <b>Dr. Princee</b> , Assistant Professor, Department of English, <b>St. Xavier's College(Autonomous)</b> , Palayamkottai, Thirunelvli, Tamil Nadu, <b>delivered a Guest Lecture</b> on the topic ' <b>The Voice of Women in English Poetry</b> ' on 03/03/2023.            | Guest Lecture organised in the Department | 03/03/2023 |
|        |                            | <b>Dr. J. Chitta</b> , Assistant Professor, Department of English, <b>Scott Christian College (Autonomous)</b> , Nagercoil, Kanniakumari District, delivered a <b>Guest Lecture</b> on the topic ' <b>Etiquettes of Life</b> ' in the Department of English on 31/05/2023. | Guest Lecture organised in the Department | 31/05/2023 |

## 8. Publication of Research Papers at the State/National/International Levels:

| S. No. | Author(s)                       | Title of the paper                                                                                             | Journal with ISSN/Scopus/SCI/UGC care                            | Volume No. Issue No. | Year of Publication | Page(pp)                                                                   |
|--------|---------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------|---------------------|----------------------------------------------------------------------------|
| 1.     | <b>Dr. R. Subramania Pillai</b> | Diversification of Language: A Barrier for Survival in the Select Novels of Chetan Bhagat                      | Madhya Bharti Humanities and Social Sciences - UGC Care List     | 82 (2)               | Dec. 2022           | p.p. 159-165                                                               |
|        |                                 | The Grand Narratives of English Education in Kerala: Idea vs. Practice Maharaja Sayajirao University of Baroda | Journal of Oriental Institute - UGC Care List                    |                      | Dec. 2022           |                                                                            |
|        |                                 | Vistas of Subalternity in Arundati Roy's <i>The Ministry of Utmost Happiness</i>                               | Journal of Oriental Institute - UGC Care List                    |                      | Dec. 2022           |                                                                            |
|        |                                 | The Expectations of Modern Generation Depicted in Chetan Bhagat's <i>Five Point Someone</i>                    | International Conference on Language, Literature, and Humanities |                      | Aug. 2022           | St. John's College of Arts and Science, Ammandivilai – Proceedings p.p. 14 |

| S. No. | Author(s)           | Title of the paper                                                                                                                      | Journal with ISSN/Scopus/SCI/UGC care                                        | Volume No. Issue No. | Year of Publication | Page(pp)                                                                                    |
|--------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------|---------------------|---------------------------------------------------------------------------------------------|
|        |                     | The Post-Modernistic Interpretation of Chetan Bhagat's Select Works                                                                     | International Conference on American Literature,                             |                      | Oct. 2022           | Nesamony Memorial College, Marthandam – Proceedings p.p. 39                                 |
|        |                     | The Portrayal of Gender Inequality: A Study on Chetan Bhagat's <i>One Indian Girl</i>                                                   | International Conference on Recent Trends in English Language and Literature | 7 (2)                | Oct. 2022           | Virudhunagar Hindu Nadars Senthikumara Nadar College, Virudhunagar - Proceedings p.p. 83-85 |
|        |                     | Educational Conflicts of Indian Youth: Chetan Bhagat's Five Point Someone- A Critical Study                                             | Shodhak- UGC CARE                                                            | 53 (01)              | Apr. 2023           | p.p. 62-66                                                                                  |
|        |                     | The Depiction of Cultural Context: A Study on Chetan Bhagat's <i>2 States: The Story of My Marriage</i>                                 | Langlit                                                                      | Special Issue        | Mar. 2023           | p.p. 206-210                                                                                |
| 2.     | <b>Dr. P. Deepa</b> | Cultural Conflict between East and West in Chitra Banerjee Divakaruni <i>The Mistress of Spices</i>                                     | Madhya Bharti Humanities and Social Sciences - UGC Care List 0974-0066       | 82 (2)               | Dec. 2022           | p.p. 166-171                                                                                |
|        |                     | The Role of Technology Using Audio and Visual Aids to Develop Competency of English in a Language Classroom                             | ELT Quarterly - International Peer-Reviewed Journal                          |                      | Dec. 2022           | p.p. 10-18                                                                                  |
|        |                     | A Study of the Bicultural Experience of Second-Generation Indian Americans in Chitra Banerjee Divakaruni's Novel <i>Queen of Dreams</i> | International Conference FORTELL' 22                                         |                      | 2022                | p.p.                                                                                        |

| S. No. | Author(s)                   | Title of the paper                                                                                                         | Journal with ISSN/Scopus/SCI/UGC care                                       | Volume No. Issue No. | Year of Publication | Page(pp)                                                                 |
|--------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------|---------------------|--------------------------------------------------------------------------|
|        |                             | The Theme of Womanhood in the Select Poems of Sylvia Plath                                                                 | International Conference on Women in Literature,                            |                      | 2022                | Nesamony Memorial Christian College, Marthandom - Proceedings            |
|        |                             | The Importance of Information and Communication Technology in English Language Classroom                                   | International Conference on Language, Literature and Humanities Proceedings |                      | 2022                | St. John College of Arts and Science, Ammandivilai, Kanyakumari District |
|        |                             | A Study on Technology Based Learning through Blended Learning                                                              | International Conference on American Literature Proceedings                 |                      | 2022                | Nesamony Memorial Christian College, Marthandam - Proceedings            |
|        |                             | An Exploration of Ecofeminism and Myth in Chitra Banerjee Divakaruni's The Forest of Enchantments                          | Shodhak- UGC CARE                                                           | 53 (01)              | Apr. 2023           | p.p. 53-57                                                               |
|        |                             | A Psychological Overview of the Female Character in Chitra Banerjee Divakaruni's Mythological Novel The Palace of Illusion | Langlit                                                                     | Special Issue        | March 2023          | p.p. 49-54                                                               |
| 3.     | <b>Ms. J. Mathi Vathani</b> | The Emotional Impacts of Colour Perception                                                                                 | IJCRT - UGC Care List                                                       | Issue 5, Vol. 12     | July/Aug. 2023      | p.p. 216-221                                                             |

#### 9. Details of patents applied/awarded: NIL

| S.No. | Name of the Faculty member | Title | Date of filling | Application No. | Award No. |
|-------|----------------------------|-------|-----------------|-----------------|-----------|
|       |                            |       |                 |                 |           |

#### 10. Publications of Books/Monographs: NIL

| S. No. | Author(s) | Name of the Book with ISBN | Publisher/Place | Year |
|--------|-----------|----------------------------|-----------------|------|
|--------|-----------|----------------------------|-----------------|------|

### 11. Courses offered, Sanctioned Strength of Students and Enrolment details:

| S. NO. | Name of the Programme / Branch of study | Sancti oned Strength | Enrolment during 2022-23 |   | Total | Community |   |    |       |     |   |          |   |    |   |     |   |    |   | Existing Students, Strength |   |          |   |         |   |   |      | Pass Percenta ge of out going batch |
|--------|-----------------------------------------|----------------------|--------------------------|---|-------|-----------|---|----|-------|-----|---|----------|---|----|---|-----|---|----|---|-----------------------------|---|----------|---|---------|---|---|------|-------------------------------------|
|        |                                         |                      | F                        | M |       | OC        |   | BC |       | BCM |   | MBC/ DNC |   | SC |   | SCA |   | ST |   | II year                     |   | III year |   | IV year |   |   |      |                                     |
|        |                                         |                      |                          |   |       | M         | F | M  | F     | M   | F | M        | F | M  | F | M   | F | M  | F | M                           | F | M        | F | M       | F | M | F    |                                     |
|        | UG Programme                            | NIL                  |                          |   |       |           |   |    |       |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |   |      |                                     |
|        | PG Courses                              | 25                   |                          |   |       |           |   | 5  | N I L |     |   | 1        |   | 6  |   |     |   |    |   | 4                           | 7 |          |   |         |   |   | 100% |                                     |
|        | Ph.D. Programme                         |                      |                          |   |       |           |   |    |       |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |   |      |                                     |
|        | Diploma Certificate Courses (if any)    |                      |                          |   |       |           |   |    |       |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |   |      |                                     |
|        | MOOC/NPTEL/UG C online courses offered  |                      |                          |   |       |           |   |    |       |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |   |      |                                     |
|        | Total                                   | 25                   |                          |   |       |           |   |    |       |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |   |      |                                     |

## 12. Enrolment of Students from Overseas and other States:

| S. No. | Degree and Subject | Nationality | State  | Number of Students |        | Total |
|--------|--------------------|-------------|--------|--------------------|--------|-------|
|        |                    |             |        | Male               | Female |       |
|        | M. A. English      | Indian      | Kerala | NIL                | 02     | 02    |

## 13. U.G./ P.G. and Research degrees awarded :

| S. No | UG  |       | P.G. |       | M. Phil. |     |     | Ph.D. |  |    |     |       |
|-------|-----|-------|------|-------|----------|-----|-----|-------|--|----|-----|-------|
|       |     | Total |      | Total |          | FT  | PT  | Total |  | FT | PT  | Total |
|       | Nil | Nil   | 09   | 09    |          | Nil | Nil | Nil   |  | 02 | Nil | 02    |

## 14. Fellowships Awarded (National/International) Faculty/Students Stipend awarded : NIL

| S. No. | Agency                                                                         | Position (URF/JRF/SRF/RA/ others)                                         | Number of Fellowships |    | Total |
|--------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------|----|-------|
|        |                                                                                |                                                                           | M                     | F  |       |
| 1      | Govt. of India<br>To : Ms. Roopa Kumar<br>Fulltime Research Scholar<br>English | JRF - Savitribai<br>Jyotirao Phule<br>Fellowship For<br>Single Girl Child |                       | 01 | 01    |

## 15.Scholarships Awarded:

| S. No. | Nature of Scholarship                                                                            | P.G. |    | M.Phil. |     | Ph.D. |     | Total Amount Rs. |
|--------|--------------------------------------------------------------------------------------------------|------|----|---------|-----|-------|-----|------------------|
|        |                                                                                                  | M    | F  | M       | F   | M     | F   |                  |
| 1      | B.C. (State)                                                                                     |      | 01 |         |     |       |     |                  |
| 2      | B.C.M. (State)                                                                                   |      |    |         |     |       |     |                  |
| 3      | M.B.C./D.N.C.(State)                                                                             |      |    |         |     |       |     |                  |
| 4      | SC/SCA/ST(National)                                                                              |      |    |         |     |       |     |                  |
| 5      | SC/SCA/ST(State)                                                                                 | 01   |    |         |     |       |     |                  |
| 6      | Management Scholar ship                                                                          |      |    |         |     |       |     |                  |
| 7      | Loan Scholarship                                                                                 |      |    |         |     |       |     |                  |
| 8      | Moovalur Ramamirtham Ammaiyar Scheme                                                             |      |    |         |     |       |     |                  |
| 9      | 'Pudhumai Penn' (Modern Woman)                                                                   |      |    |         |     |       |     |                  |
| 10     | Others ( please Specify the scholarship)<br><b>Nalavaariam Scholarship (Govt. of Tamil Nadu)</b> | 01   | 03 | NIL     | NIL | NIL   | NIL |                  |
|        | Total                                                                                            |      |    |         |     |       |     |                  |

## 16. Performance of the Students :

| S. No | Course        | S1   |      | S2   |      | S3   |      | S4   |      | S5   |      | S6   |      | S7   |      | S8   |      |
|-------|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|       |               | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass |
|       | M. A. English | -    | -    | -    | -    | 11   | 09   | 11   | 09   | Nil  | Nil  | Nil  | Nil  | Nil  | Nil  | Nil  | Nil  |

**17. Placement Details:**

| <b>Name of the Placement Co-Ordinator:</b> Ms. J. Mathi Vathani             |                                                                               |                            |        |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------|--------|
| <b>Phone/ Mobile Number : e-mail:</b> 9443548207, mathivathani662@gmail.com |                                                                               |                            |        |
| <b>Number of Placement Programmes:</b>                                      |                                                                               |                            |        |
| S. No.                                                                      | Particulars                                                                   | Numbers of students placed |        |
|                                                                             |                                                                               | Male                       | Female |
| 1                                                                           | Number of Students Placed                                                     | 02                         | 02     |
| 2                                                                           | Number of Placements obtained through Campus Interview                        | NIL                        | NIL    |
| 3                                                                           | Ratio of Placement to Students (Total no of Placement / Total no of Students) |                            |        |

**18. Outstanding achievements by the Faculty Members:**

| S. No. | Name of the Faculty         | Achievements                                                                                                   | Agency                    |
|--------|-----------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------|
|        | <b>Ms. J. Mathi Vathani</b> | Published a poem titled <i>Yellow Flowers</i> in the anthology <i>Palette of Poets: India's Diverse Verses</i> | The Wordings Publications |
|        | <b>Ms. J. Mathi Vathani</b> | Published a poem titled <i>Beauty is Truth, Truth is Beauty</i> in the anthology <i>Spectrum of Dreams</i>     | The Wordings Publications |
|        | <b>Ms. J. Mathi Vathani</b> | Participated in a 30 Day Writing Challenge and successfully completed the challenge.                           | The Wordings Publications |

**19. Outstanding achievements by Students:**

| S.No. | Name of the Student             | Achievements                                                      | Agency                                                |
|-------|---------------------------------|-------------------------------------------------------------------|-------------------------------------------------------|
| 1.    | S. Ummu Kulusu<br>M. A. English | Cash Award Winner in Essay Writing Competition on Sir C. V. Raman | Sangamam, Thuckalay, and Department of Physics, NICHE |

**20. Department Meetings Held :**

**BOS, Programme Committee, Course Committee etc.**

| S.No | Name               | Date       |  |
|------|--------------------|------------|--|
| 1.   | BOS Meeting        | 23/03/2023 |  |
| 2.   | Department Meeting | 28.03.2023 |  |
| 3.   | Department Meeting | 29.05.2023 |  |

**21. Infrastructure and Research facilities available (Please specify equipment more than Two Lakhs Only) : NIL**

| S. No. | Name of the Lab      | Name of the Equipments/Computer/Software/ Others                              | Quantity | Purpose Research/Practical |
|--------|----------------------|-------------------------------------------------------------------------------|----------|----------------------------|
|        | English Language Lab | Snet v8.3 English Language Lab Software<br>1 Teacher Console with 30 Students | 32       | Practical                  |

**22. Extension activities carried out :**

| S. No. | Name of the Activity                                                                                                                                                                                                   | Beneficiaries                                              | Date                 | Venue |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------|-------|
| 1      | <b>Mega Intercollegiate Competitions – Mar. 2023</b> organised by Department of English , NICHE, for all the Arts and Science and Engineering Colleges of Kanniyakumari District with fabulous Cash Prizes for winners | Students of colleges of Kanniyakumari District, Tamil Nadu | <b>29 March 2023</b> | NICHE |

**23. Department Library/Learning Resources/ Information and Language Lab:**

Name of the Librarian or Faculty in-charge of the Library:

| S. No. | Particulars                                                           | Nos.    | S. No. | Particulars                                         | Nos.   |
|--------|-----------------------------------------------------------------------|---------|--------|-----------------------------------------------------|--------|
| 1.     | No. of books available                                                | 1137    | 7.     | No. of titles available                             | 854    |
| 2.     | Books added during the year 2022-23                                   | NIL     | 8.     | No. of CDs and Digital Books available              | 46     |
| 3.     | No. of Indian Journals/Magazines                                      | 10      | 9.     | No. of Foreign Magazines/Journals                   | NIL    |
| 4.     | No. of data bases available                                           | 02      | 10.    | No. of Online Journals                              | 03     |
| 5.     | Average No. of students visiting the Library per day                  | 03      | 11.    | Average No. of books Issued per day                 | NIL    |
|        |                                                                       |         | 12.    | No. of digital books                                | NIL    |
| 6.     | Availability of Internet (Specify the Capacity) (e.g. – 8 Mbps etc.,) | 10 Mbps | 13.    | Availability of Language Lab                        | YES    |
|        |                                                                       |         | 14.    | NDL membership<br>1. Faculty members<br>2. Students | 3<br>2 |

**24. Information and Communication Technology Resources: NIL**

| S. No. | Name of the Equipment | Specifications | Nos. | S. No. | Name of the Equipment | Specifications | Nos. |
|--------|-----------------------|----------------|------|--------|-----------------------|----------------|------|
|        |                       |                |      |        |                       |                |      |

**24.Collaborative Researches : Nil****25.Consultancies : Nil**

**26. No. of NET/SET/GATE/CSIR Qualified students: NET Qualified : 03**

**27. MOUs Signed : Nil**

| S.No | Date | MoU signed with | Number of Activities | Remarks |
|------|------|-----------------|----------------------|---------|
|      |      |                 |                      |         |

**28. Innovations and Best Practices :**

**29. Academic Flexibility :**

| S.No | Courses offered | Platform (MOOC, NPTEL, etc.) | No. Students enrolled | No. of Students Passed |
|------|-----------------|------------------------------|-----------------------|------------------------|
|      |                 |                              |                       |                        |

## **NAME OF THE DEPARTMENT: FIRE TECHNOLOGY AND SAFETY ENGINEERING**

### **1. Department Details :**

|                                          |                                                                                   |
|------------------------------------------|-----------------------------------------------------------------------------------|
| Name of the Faculty                      | <b>Mechanical Engineering</b>                                                     |
| Name of the HoD, Phone No. and E-mail ID | <b>I.James Dhinakaran Williams, 9894824253, jamesdinakaranwilliams@niuniv.com</b> |
| Year of Establishment                    | <b>2011</b>                                                                       |
| Telephone Number                         | <b>9894824253</b>                                                                 |
| Website / E mail                         | <b>ftse@niuniv.com</b>                                                            |

### **2. Details of Faculty Members :**

| S. No. | Name of the Faculty              | Qualification | Designation         | Specialisation    | Experience in years |          | E-mail ID &Phone/Cell Phone No.               |
|--------|----------------------------------|---------------|---------------------|-------------------|---------------------|----------|-----------------------------------------------|
|        |                                  |               |                     |                   | Teaching            | Research |                                               |
| 1      | Prof.I.James Dhinakaran Williams | M.E.,         | Associate Professor | CAD/CAM           | 17                  | -        | ijdhinak@yahoo.co.in<br>Mob. No: 9894824253   |
| 2      | Dr.B. Bavanish                   | P.hD          | Associate Professor | CIM               | 15                  | 3        | dr.bbavanish@gmail.com<br>Mob. No: 9488885995 |
| 3      | Prof. R. Rajesh                  | P.hD          | Assistant Professor | Power Electronics | 9                   | 3        | rajeshknky@gmail.com<br>Mob. No: 9944872621   |
| 4      | Dr.S.Jenkins                     | P.hD          | Assistant Professor | Design            | 19                  | -        | jenkinsdhas@yahoo.com<br>Mob. No: 9486059241  |

|   |                     |       |                     |                     |    |   |                                                                                                 |
|---|---------------------|-------|---------------------|---------------------|----|---|-------------------------------------------------------------------------------------------------|
| 5 | Mr.P.Albert Shelton | M.E., | Assistant Professor | CAD                 | 12 |   | <a href="mailto:albertshelton85@gmail.com">albertshelton85@gmail.com</a><br>Mob. No: 7708703773 |
| 6 | Dr.V.Mago Stalany   | P.hD  | Assistant Professor | Manufacturing       | 17 |   | <a href="mailto:vinsmago78@gmail.com">vinsmago78@gmail.com</a><br>Mob. No:9443791663            |
| 7 | Mr.T.Jegan          | M.E., | Assistant Professor | CAD                 | 19 | - | tjegan63@gmail.com<br>Mob. No: 8300271870                                                       |
| 8 | Mr.V.Suresh Babu    | M.E., | Assistant Professor | Design              | 11 |   | <a href="mailto:sureshbabu@niuniv.com">sureshbabu@niuniv.com</a><br>Mob. No : 9442075149        |
| 9 | Mr.P.S.Sherlin Paul | M.E., | Assistant Professor | Applied Electronics | 06 |   | pssherlinpaul@gmail.com<br>Mob. No: 9443607450                                                  |

### 3. Faculty Members Achievements / Performance:

| S. No. | Name              | h index |            | Publications |            | Citations |            | API   |            | M.Phil. awarded |            | Ph.D. awarded |            | Cumulative Scholars |       |
|--------|-------------------|---------|------------|--------------|------------|-----------|------------|-------|------------|-----------------|------------|---------------|------------|---------------------|-------|
|        |                   | 22-23   | Cumulative | 22-23        | Cumulative | 22-23     | Cumulative | 22-23 | Cumulative | 22-23           | Cumulative | 22-23         | Cumulative | M. Phil             | Ph.D. |
| 1      | Dr.B. Bavanish    |         |            |              | 2          |           |            |       | 82         |                 |            |               | 02         |                     |       |
| 2      | Dr.V.Mago Stalany |         |            |              | 1          |           |            |       | 63         |                 |            |               | -          |                     |       |

### 4.. Research Schemes/Projects undertaken :

| S. No. | Name of the Principal Investigator | Funding Agency | Title of the Project | Duration |    | Amount Rs. |
|--------|------------------------------------|----------------|----------------------|----------|----|------------|
|        |                                    |                |                      | From     | To |            |
| 1      | -                                  |                |                      |          |    |            |

### 5. a) Participation of the Faculty members, presentation of papers in Congresses/Conferences/Seminars/Workshops,Symposia, etc.

| S. No. | Name of the Faculty              | Congress/Conference/Seminar /Workshop and Venue | Title of the paper                                                                                                                        | Date                     |
|--------|----------------------------------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| 1      | Prof.I.James Dhinakaran Williams | Conference                                      | Design of clean agent suppression system in specific confined area                                                                        | 4 <sup>th</sup> May 2023 |
| 2      | Dr.B. Bavanish                   | Conference                                      | Computational And Comparative Analysis For Aerodynamic Blade And Spiral Blade Shape Optimization For Enhanced Productivity In A 5 MW HAWT | 4 <sup>th</sup> May 2023 |
| 3      | Prof. R. Rajesh                  | Conference                                      | Hazard identification and risk assessment in construction site                                                                            | 5 <sup>th</sup> May 2023 |
| 4      | Dr.S.Jenkins                     | Conference                                      | Hazard identification and risk assessment in construction industry                                                                        | 4 <sup>th</sup> May 2023 |
| 5      | Mr.P.Albert Shelton              | Conference                                      | Assessment of landslip hazard and risk for a natural gas pipeline venture                                                                 | 5 <sup>th</sup> May 2023 |

| S. No. | Name of the Faculty | Congress/Conference/Seminar /Workshop and Venue | Title of the paper                                                        | Date                     |
|--------|---------------------|-------------------------------------------------|---------------------------------------------------------------------------|--------------------------|
| 6      | Dr.V.Mago Stalany   | Conference                                      | Safety and health management in chemical industry                         | 4 <sup>th</sup> May 2023 |
| 7      | Mr.T.Jegan          | Conference                                      | Occupational Health and Safety Management System                          | 4 <sup>th</sup> May 2023 |
| 8      | Mr.V.Suresh Babu    | Conference                                      | Implementation of behaviour based safety in an organization               | 4 <sup>th</sup> May 2023 |
|        | Mr.P.S.Sherlin Paul | Conference                                      | Assessment of landslip hazard and risk for a natural gas pipeline venture | 4 <sup>th</sup> May 2023 |

**b) Foreign Faculty/Expert visit to the Department:**

| S. No. | Name & Designation | Institute | Country | Duration | Purpose |
|--------|--------------------|-----------|---------|----------|---------|
| 1      | No                 |           |         |          |         |

**6. Faculty acted as Chief Guest, Key note Speakers, Resource Person, Chair Person, External experts, etc. :**

| S. No. | Name of the Faculty member | Role | Event | Title | Venue & Date |
|--------|----------------------------|------|-------|-------|--------------|
| 1      | -                          |      |       |       |              |

**7. Details of Seminars, Conferences, Refresher courses, Webminars Organised :**

| S. No. | Name of the Faculty member       | Congress/Conference/Seminar/ Workshop/Symposia , Webmniars etc. organised | State/National/ International Level | Date                           |
|--------|----------------------------------|---------------------------------------------------------------------------|-------------------------------------|--------------------------------|
| 1      | Prof.I.James Dhinakaran Williams | Conference                                                                | International Level                 | 2nd & 3 <sup>rd</sup> May 2023 |

**8. Publication of Research Papers at the State/National/International Levels:**

| S. No. | Author(s)                 | Title of the paper                                                                                                                                                                        | Journal with ISSN/Scopus /SCI/UGC care                                        | Volume No. Issue No.   | Year of Publication | Page(pp)          |
|--------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------|---------------------|-------------------|
| 1      | Favas, A.S., Bavanish, B. | Thermal and mechanical characterization of polypropylene composite membrane doped with TiO <sub>2</sub> nanoparticles                                                                     | Digest Journal of Nanomaterials and Biostructures this link is disabled, SCIE | 17(4),                 | 2022,               | pp. 1501–1509     |
| 2      | Jayaram, V., Bavanish, B. | Design and analysis of gorlov helical hydro turbine on index of revolution<br><a href="https://doi.org/10.1016/j.ijhydene.2022.07.181">https://doi.org/10.1016/j.ijhydene.2022.07.181</a> | International Journal of Hydrogen Energy Scopus                               | Volume 47, Issue 77, 8 | September 2022,     | Pages 32804-32821 |

|   |                                                                                         |                                                                                                                                                                                                                   |                                                            |                                  |       |                                                                                                    |
|---|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------|-------|----------------------------------------------------------------------------------------------------|
| 3 | M. Prabhakar ,<br>K. Gomathi ,<br>R. Venkatesh,<br>V. Mago<br>Stalany, D. S.<br>Vijayan | Isothermic and<br>Kinetic Study on<br>Removal of<br>Methylene Blue<br>Dye Using<br>Anisomeles<br>malabarica Silver<br>Nanoparticles: An<br>Efficient<br>Adsorbent to<br>Purify Dye-<br>Contaminated<br>Wastewater | Hindawi<br>Adsorption<br>Science &<br>Technology<br>Scopus | Volume<br>Article ID<br>9878987, | 2022, | 7 pages<br><a href="https://doi.org/10.1155/2022/9878987">https://doi.org/10.1155/2022/9878987</a> |
|---|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------|-------|----------------------------------------------------------------------------------------------------|

#### 9. Details of patents applied/awarded:

| S.No. | Name of the<br>Faculty member | Title | Date of<br>filling | Application<br>No. | Award No. |
|-------|-------------------------------|-------|--------------------|--------------------|-----------|
|       | No                            |       |                    |                    |           |

#### 10. Publications of Books/Monographs:

| S.<br>No. | Author(s) | Name of the Book with ISBN | Publisher/Place | Year |
|-----------|-----------|----------------------------|-----------------|------|
| 1         | No        |                            |                 |      |

**11. Courses offered, Sanctioned Strength of Students and Enrolment details:**

| S. NO. | Name of the Programme / Branch of study | Sanct ioned Stren gth | Enrolment during 2022-23 |   | Total | Community |   |    |   |     |   |          |   |    |   |     |   |    |    | Existing Students, Strength |    |          |    |         |   | Pass Percenta ge of out going batch |
|--------|-----------------------------------------|-----------------------|--------------------------|---|-------|-----------|---|----|---|-----|---|----------|---|----|---|-----|---|----|----|-----------------------------|----|----------|----|---------|---|-------------------------------------|
|        |                                         |                       | F                        | M |       | OC        |   | BC |   | BCM |   | MBC/ DNC |   | SC |   | SCA |   | ST |    | II year                     |    | III year |    | IV year |   |                                     |
|        |                                         |                       |                          |   |       | M         | F | M  | F | M   | F | M        | F | M  | F | M   | F | M  | F  | M                           | F  | M        | F  | M       | F |                                     |
|        | UG Programme                            | 60                    | -                        | 6 |       | 1         |   | 2  |   | 2   |   | 1        |   |    |   |     |   |    | 11 | 1                           | 16 | -        | 11 | -       |   |                                     |
|        | PG Courses                              |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |    |                             |    |          |    |         |   |                                     |
|        | Ph.D Programme                          |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |    |                             |    |          |    |         |   |                                     |
|        | Diploma Certificate Courses (if any)    |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |    |                             |    |          |    |         |   |                                     |
|        | MOOC/NPTEL/UGC online courses offered   |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |    |                             |    |          |    |         |   |                                     |
|        | Total                                   | 60                    |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |    |                             |    |          |    |         |   |                                     |

## 12. Enrolment of Students from Overseas and other States:

| S. No. | Degree and Subject | Nationality | State | Number of Students |        | Total |
|--------|--------------------|-------------|-------|--------------------|--------|-------|
|        |                    |             |       | Male               | Female |       |
|        | No                 |             |       |                    |        |       |

## 13. U.G./P.G. and Research degrees awarded:

| S. No | UG |       | P.G. |       | M. Phil. |    |    |       | Ph.D. |    |    |       |
|-------|----|-------|------|-------|----------|----|----|-------|-------|----|----|-------|
|       |    | Total |      | Total |          | FT | PT | Total |       | FT | PT | Total |
|       |    | 27    |      |       |          |    |    |       |       |    |    |       |

## 14. Fellowships Awarded (National/International) Faculty/Students Stipend awarded :

| S. No. | Agency | Position (URF/JRF/SRF/RA/ others) | Number of Fellowships |   | Total |
|--------|--------|-----------------------------------|-----------------------|---|-------|
|        |        |                                   | M                     | F |       |
| 1      | No     |                                   |                       |   |       |

## 15.Scholarships Awarded:

| S. No. | Nature of Scholarship                    | P.G. |   | M.Phil. |   | Ph.D. |   | Total Amount Rs. |
|--------|------------------------------------------|------|---|---------|---|-------|---|------------------|
|        |                                          | M    | F | M       | F | M     | F |                  |
| 1      | B.C.(State)                              | -    | - | -       | - | -     | - | -                |
| 2      | B.C.M.(State)                            | -    | - | -       | - | -     | - | -                |
| 3      | M.B.C./D.N.C.(State)                     | -    | - | -       | - | -     | - | -                |
| 4      | SC/SCA/ST(National)                      | -    | - | -       | - | -     | - | -                |
| 5      | SC/SCA/ST(State)                         | -    | - | -       | - | -     | - | -                |
| 6      | Management Scholar ship                  | -    | - | -       | - | -     | - | -                |
| 7      | Loan Scholarship                         | -    | - | -       | - | -     | - | -                |
| 8      | Moovalur Ramamirtham Ammaiyar Scheme     | -    | - | -       | - | -     | - | -                |
| 9      | 'Pudhumai Penn' (modern woman)           | -    | - | -       | - | -     | - | -                |
| 10     | Others ( please Specify the scholarship) | -    | - | -       | - | -     | - | -                |
|        | Total                                    | -    | - | -       | - | -     | - | -                |

## 16. Performance of the Students :

| S. No | Course | S1   |      | S2   |      | S3   |      | S4   |      | S5   |      | S6   |      | S7   |      | S8   |      |
|-------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|       |        | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass |
|       |        | 6    | 2    | 6    | 2    | 16   | 3    | 16   | 3    | 11   | 4    | 11   | 5    | 34   | 25   | 34   | 27   |

## 17. Placement Details:

|                                                                                                           |                               |                            |        |
|-----------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------|--------|
| Name of the Placement co-ordinator: Mr.V.Suresh Babu                                                      |                               |                            |        |
| Phone/Mobile Number :e-mail: 9442075149, <a href="mailto:sureshbabu@niuniv.com">sureshbabu@niuniv.com</a> |                               |                            |        |
| Number of Placement Programmes:                                                                           |                               |                            |        |
| S. No.                                                                                                    | Particulars                   | Numbers of students placed |        |
|                                                                                                           |                               | Male                       | Female |
| 1                                                                                                         | Number of Students Placed     | -                          | -      |
| 2                                                                                                         | Number of Placements obtained | -                          | -      |

|   |                                                                               |   |   |
|---|-------------------------------------------------------------------------------|---|---|
|   | through Campus Interview                                                      |   |   |
| 3 | Ratio of Placement to Students (Total no of Placement / Total no of Students) | - | - |

#### 18. Outstanding achievements by the Faculty Members:

| S. No. | Name of the Faculty | Achievements | Agency |
|--------|---------------------|--------------|--------|
| 1      | -                   |              |        |

#### 19. Outstanding achievements by Students:

| S.No. | Name of the Student | Achievements                                                                       | Agency                                                |
|-------|---------------------|------------------------------------------------------------------------------------|-------------------------------------------------------|
| 1     | Aswin Unni          | Completed International General certificate of Occupation Health and Safety course | NEBOSH,UK                                             |
| 2     | Athul U             | Completed International General certificate of Occupation Health and Safety course | NEBOSH,UK                                             |
| 3     | Deepu Krishnan      | Completed International General certificate of Occupation Health and Safety course | NEBOSH,UK                                             |
| 4     | Vysakh B Vijayan    | Completed International General certificate of Occupation Health and Safety course | NEBOSH,UK                                             |
| 5     | Sudhikuttan         | Completed International General certificate of Occupation Health and Safety course | NEBOSH,UK                                             |
| 6     | Mohammed Yassen     | Completed International General certificate of Occupation Health and Safety course | NEBOSH,UK                                             |
| 7     | Shanif T P          | Completed International General certificate of Occupation Health and Safety course | NEBOSH,UK                                             |
| 8     | Adarsh S            | Completed International General certificate of Occupation Health and Safety course | NEBOSH,UK                                             |
| 9     | Syed Rasheed        | Disaster Rescue training (12 days)                                                 | Govt of Tamil Nadu                                    |
| 10    | Gopalakrishnan      | Safety Audit                                                                       | MTC Polymers and Packages (Process Industry),Sivakasi |
|       | Sivaprakash         | Safety Audit                                                                       | MTC Polymers and Packages (Process Industry),Sivakasi |
|       | Arunkumar           | Safety Audit                                                                       | MTC Polymers and Packages (Process Industry),Sivakasi |
|       | Vignesh             | Safety Audit                                                                       | MTC Polymers and Packages (Process Industry),Sivakasi |

#### 20. Department Meetings Held : BOS,Programme Committee, Course Committee etc.

| S.No | Name                | Date                                   |  |
|------|---------------------|----------------------------------------|--|
| 1.   | BOS                 | 31.05.2022                             |  |
|      | Programme Committee | 07.02.2023<br>17.03.2023<br>12.04.2023 |  |
|      | Class Committee     | 23.02.2023<br>08.03.2023<br>12.04.2023 |  |

**21. Infrastructure and Research facilities available (Please specify equipments more than Two Lakhs Only) :**

| S. No. | Name of the Lab        | Name of the Equipments/Computer/Software/Others | Quantity | Purpose Research/Practical |
|--------|------------------------|-------------------------------------------------|----------|----------------------------|
| 1      | Industrial Hygiene lab | High Volume Sampler                             | 01       | Practical                  |
| 2      | Chemical Engg Lab      | Press and frame filter                          | 01       | Practical                  |

**22. Extension activities carried out :**

| S. No. | Name of the Activity            | Beneficiaries | Date                                           | Venue         |
|--------|---------------------------------|---------------|------------------------------------------------|---------------|
| 1      | Fire safety Demo & Project Expo | 250           | 20 <sup>th</sup> & 21 <sup>st</sup> Jan 2023   | Carmel School |
| 2      | Road Safety Awareness           | 100           | 31 <sup>st</sup> Jan 2023                      | Thuckalay     |
| 3      | National Safety Week            | 150           | 4 <sup>th</sup> to 10 <sup>th</sup> March 2023 | NICHE         |

**23. Department Library/Learning Resources/ Information and Language Lab:**

Name of the Librarian or Faculty in-charge of the Library:

| S. No. | Particulars                                                           | Nos. | S. No. | Particulars                                         | Nos. |
|--------|-----------------------------------------------------------------------|------|--------|-----------------------------------------------------|------|
| 1      | No. of books available                                                | 647  | 7      | No. of titles available                             | 70   |
| 2      | Books added during the year 2022-23                                   | 20   | 8      | No. of CDs and Digital Books Available              | -    |
| 3      | No. of Indian Journals/Magazines                                      | -    | 9      | No. of Foreign Magazines/Journals                   | -    |
| 4      | No. of data bases available                                           | -    | 10     | No. of Online Journals                              | -    |
| 5      | Average No. of students visiting the Library per day                  | 10   | 11     | Average No. of books Issued per day                 | 1    |
|        |                                                                       |      | 12     | No. of digital books                                | -    |
| 6      | Availability of Internet (Specify the Capacity) (e.g. – 8 Mbps etc.,) | -    | 13     | Availability of Language Lab                        |      |
|        |                                                                       |      | 14     | NDL membership<br>3. Faculty members<br>4. Students | 04   |

**24. Information and Communication Technology Resources:**

| S. No. | Name of the Equipment | Specifications  | Nos. | S. No. | Name of the Equipment | Specifications | Nos. |
|--------|-----------------------|-----------------|------|--------|-----------------------|----------------|------|
|        | Wifi Router           | 10 Cinnectivity | 02   |        |                       |                |      |

**24.Collaborative Researches : -**

**25.Consultancies : -**

**26.No. of NET/SET/GATE/CSIR Qualified students:**

**No**

**27. MOUs signed :**

| S.No | Date       | MoU signed with                               | Number of Activities | Remarks |
|------|------------|-----------------------------------------------|----------------------|---------|
| 1    | 25.02.2023 | Elite Engineering Work (Fire Safety Projects) | -                    | -       |
| 2    | 21.04.2023 | KNOWIT Solution PVT Ltd, COCHIN               | -                    | -       |

**28. Innovations and Best Practices :**

Best practice

Students regularly completed Certified Basic Fire Fighting Course at Cochin Shipyard Ltd (Approved by Central Government).

Internship at Cochin Shipyard Ltd

Internship at Cochin Port Ltd

Internship at Tuticorin Thermal Power Station

**29. Academic Flexibility :**

| S.No | Courses offered | Platform (MOOC, NPTEL, etc.) | No. Students enrolled | No. of Students Passed |
|------|-----------------|------------------------------|-----------------------|------------------------|
|      | -               |                              |                       |                        |

**NAME OF THE DEPARTMENT: INFORMATION TECHNOLOGY****1. Department Details :**

|                                          |                                                                                   |
|------------------------------------------|-----------------------------------------------------------------------------------|
| Name of the Faculty                      | <b>Faculty of Information &amp; Computer Engineering</b>                          |
| Name of the HoD, Phone No. and E-mail ID | <b>Dr.R.Mathusoothana S.Kumar</b><br><b>9486856119</b><br><b>rmssk@niuniv.com</b> |
| Year of Establishment                    | <b>1998</b>                                                                       |
| Telephone Number                         | <b>04651-250566</b>                                                               |
| Website / E mail                         | <b>www.niuniv.com</b>                                                             |

**2. Details of Faculty Members :**

| S. No. | Name of the Faculty             | Qualification               | Designation         | Specialisation               | Experience in years |           | E-mail ID &Phone/Cell Phone No.                                                |
|--------|---------------------------------|-----------------------------|---------------------|------------------------------|---------------------|-----------|--------------------------------------------------------------------------------|
|        |                                 |                             |                     |                              | Teaching            | Research  |                                                                                |
| 1      | Prof. A.R.Subramoniyar          | B.Sc.,<br>M.Sc.,<br>L.L.B   | Professor           | Cyber Forensics and Security | 11.5 Years          | -         | arsiyer1951@gmail.com<br>9447575576                                            |
| 2      | Prof.Dr.R.Mathusoothana.S.Kumar | B.E.,M.E.,<br>Ph.D          | Professor           | Image Processing             | 26.2 Years          | 16 Years  | rmssk@niuniv.com<br>9486856119                                                 |
| 3      | Dr.S.Maria Celestin Vigila      | B.E.,M.E.,<br>Ph.D          | Associate Professor | Data Security                | 24.9 Years          | 16 Years  | vigila@niuniv.com<br>9442150033                                                |
| 4      | Dr. N. Sugitha                  | B.E.,M.E.,<br>Ph. D         | Associate Professor | Image Processing             | 20.5 Years          | -         | Relieved                                                                       |
| 5      | Dr. S. PalaniKumar              | B.E.,M.E.,<br>Ph. D         | Associate Professor | Image Processing             | 18.6 Years          | -         | Relieved                                                                       |
| 6      | Dr.V.MaryAmala Bai              | B.E.,M.E.,<br>Ph.D          | Associate Professor | Data Mining                  | 20.6 Years          | 14 Years  | maryamalabai@niuniv.com<br>7502869501                                          |
| 7      | Dr.K.SivaSankar                 | B.E.,M.E.,<br>Ph.D.,<br>MBA | Associate Professor | System Software              | 15 Years            | 18 Years  | sivasankar@niuniv.com<br>9442229791                                            |
| 8      | Dr.T.Brindha                    | B.E.,<br>M.Tech.<br>Ph.D    | Associate Professor | Cloud Computing              | 15.10 Years         | 7 Years   | brindha@niuniv.com<br>9677508835                                               |
| 9      | Dr.Y.Jeyasheela                 | B.E.,M.E.,<br>Ph.D          | Associate Professor | Data Mining                  | 17.4 years          | 3.8 years | <a href="mailto:jeyasheela@niuniv.com">jeyasheela@niuniv.com</a><br>9566424865 |
| 10     | Dr.M.B.Jayalekshmi              | B.E.,M.E.,<br>Ph.D          | Assistant Professor | Cloud Security               | 15.4 years          | 3.8 Years | jayalekshmi@niuniv.com<br>9486795892                                           |

|    |                      |                              |                        |                                                   |                 |            |                                          |
|----|----------------------|------------------------------|------------------------|---------------------------------------------------|-----------------|------------|------------------------------------------|
| 11 | Dr.T.V.Sindia        | B.Tech.,<br>M.Tech.,<br>Ph.D | Assistant<br>Professor | Cloud<br>Security                                 | 15<br>years     | 4<br>years | sindia@niuniv.com<br>9442332616          |
| 12 | Ms.Leena S<br>Watson | B.Tech.,<br>M.Tech           | Assistant<br>Professor | Cyber<br>Forensics and<br>Information<br>Security | 9<br>Mont<br>hs | -          | watsonleena@niuni<br>v.com<br>9048964863 |

### 3. Faculty Members Achievements / Performance:

| S. No. | Name                         | h index  |            | Publications |            | Citations |            | API   |            | M.Phil. awarded |            | Ph.D. awarded |            | Cumulative Scholars |       |
|--------|------------------------------|----------|------------|--------------|------------|-----------|------------|-------|------------|-----------------|------------|---------------|------------|---------------------|-------|
|        |                              | 22-23    | Cumulative | 22-23        | Cumulative | 22-23     | Cumulative | 22-23 | Cumulative | 22-23           | Cumulative | 22-23         | Cumulative | M. Phil             | Ph.D. |
| 1      | Dr.R.Mathu soothana.S. Kumar | 5        | 5          | 4            | 29         | 24        | 58         | 64.7  | 77.7       | -               | 2          | -             | 3          | 2                   | 8     |
| 2      | Dr.S.Maria Celestin Vigila   | 7        | 7          | 4            | 36         | 60        | 152        | 100   | 99.45      | -               | 2          | 4             | 6          | 2                   | 6     |
| 3      | Dr. N. Sugitha               | Relieved |            |              |            |           |            |       |            |                 |            |               |            |                     |       |
| 4      | Dr. S. PalaniKumar           | Relieved |            |              |            |           |            |       |            |                 |            |               |            |                     |       |
| 5      | Dr.V.Mary Amala Bai          | 3        | 3          | 3            | 10         | 24        | 44         | 73.2  | 70         | -               | -          | 1             | 1          | -                   | 7     |
| 6      | Dr.K.SivaSankar              | 5        | 5          | 2            | 53         | 30        | 155        | 100   | 99         | -               | -          | 1             | 6          | 1                   | 6     |
| 7      | Dr.T.Brindh a                | -        | 4          | 2            | 17         | -         | 56         | 100   | 99.23      | -               | -          | -             | -          | -                   | 6     |
| 8      | Dr.Y.Jeyas heela             | -        | 2          | -            | 3          | -         | 4          | 80.6  | 80.28      | -               | -          | -             | -          | -                   | -     |
| 9      | Dr.M.B.Jay alekshmi          | -        | 1          | -            | 3          | 2         | 16         | 67.8  | 58         | -               | -          | -             | -          | -                   | -     |
| 10     | Dr.T.V.Sindia                | -        | 1          | -            | 5          | 4         | 8          | 52.8  | 55         | -               | -          | -             | -          | -                   | -     |

### 4. Research Schemes/Projects undertaken :

| S. No. | Name of the Principal Investigator | Funding Agency | Title of the Project | Duration |     | Amount Rs. |
|--------|------------------------------------|----------------|----------------------|----------|-----|------------|
|        |                                    |                |                      | From     | To  |            |
| 1      | Nil                                | Nil            | Nil                  | Nil      | Nil | Nil        |

#### 5. a) Participation of the Faculty members, presentation of papers in Congresses/Conferences/Seminars/Workshops,Symposia, etc.

| S. No. | Name of the Faculty         | Congress/Conference/Seminar /Workshop and Venue                       | Title of the paper                                         | Date            |
|--------|-----------------------------|-----------------------------------------------------------------------|------------------------------------------------------------|-----------------|
| 1      | Dr.R.Mathusoothana S. Kumar | International Conference on Computer, Power and Communications (ICCP) | Prediction of Cardio Vascular Disease by Deep Learning and | 23rd March 2023 |

|   |                            |                                                                                                                     |                                                                                                                  |                             |
|---|----------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------|
|   |                            |                                                                                                                     | Machine Learning-A Combined Data Science Approach                                                                |                             |
| 2 | Dr.S.Maria Celestin Vigila | International conference on Material Science and Computational Engineering                                          | FDR-FLC Flow Direction Routing Based Fussy Logic Control for Cluster Head Selection and optimal Routing in MANET | 18th November 2022.         |
| 3 | Dr. V. Mary Amala Bai      | International Conference on Recent Advancements in Science and Technology                                           | Internet of Things (IoT) Technology in Healthcare Systems: A Review                                              | 11-13 April, 2023           |
| 4 | Dr. V. Mary Amala Bai      | International Conference on Recent Advancements in Science and Technology                                           | Internet of Things (IoT) Technology in Healthcare Systems: A Review                                              | 23rd -24th June 2023        |
| 5 | Dr. T. Brindha             | International Conference on Innovations in Computer Science and Engineering                                         | A Stochastic Weighted Model for Task Scheduling and Resource Utilization in the Cloud                            | 16th & 17th Sep 2022        |
| 6 | Dr.Y.Jeyasheela            | National Conference on Innovative Research in Advanced Computing, Department of Computer Science Engineering, NICHE | Machine Learning Algorithms for Predicting Heart Disease                                                         | 11 <sup>th</sup> April 2023 |
| 7 | Dr. M. B. Jayalekshmi      | National Conference on Innovative Research in Advanced Computing, Department of Computer Science Engineering, NICHE | Machine Learning Algorithms for Predicting Heart Disease                                                         | 11 <sup>th</sup> April 2023 |
| 8 | Dr. T. V. Sindia           | National Conference on Innovative Research in Advanced Computing, Department of Computer Science Engineering, NICHE | Machine Learning Algorithms for Predicting Heart Disease                                                         | 11 <sup>th</sup> April 2023 |

**b) Foreign Faculty/Expert visit to the Department:**

| S. No. | Name & Designation                                                               | Institute                 | Country | Duration                                          | Purpose                                                                  |
|--------|----------------------------------------------------------------------------------|---------------------------|---------|---------------------------------------------------|--------------------------------------------------------------------------|
| 1      | <b>Dr.P.Mohamed Shameem</b><br>Deputy Academic Dean<br>Computing and Engineering | University of West London | UAE     | 23 <sup>rd</sup> and 24 <sup>th</sup> August 2023 | Chief Guest for International Conference on Networks, Image and Security |

**6. Faculty acted as Chief Guest, Key note Speakers, Resource Person, Chair Person, External experts, etc. :**

| S. No. | Name of the Faculty member  | Role               | Event                                                            | Title                                      | Venue & Date                                                                        |
|--------|-----------------------------|--------------------|------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------|
| 1      | Dr.R.Mathusoothana.S.K umar | Invited Lecture    | First Year Induction Programme                                   | Need of Knowledge from outside Textbook    | NICHE, September 2022.                                                              |
|        |                             |                    | School Connect Programme (NICAS)                                 | Career Opportunities in Indian IT Industry | NICAS, 27 <sup>th</sup> October 2022                                                |
| 2      | Dr.S.Maria Celestin Vigila  | Technical Reviewer | International Conference on Networking and Computer Applications | -                                          | Department of Computer Applications, NICHE, 5 <sup>th</sup> May 2023.               |
| 3      | Dr.V.Mary Amala Bai         | Technical Reviewer | International Conference on Networking and Computer Applications | -                                          | Department of Computer Applications, NICHE, 5 <sup>th</sup> May 2023.               |
| 4      | Dr.K.Siva Sankar            | Resource Person    | Employability Training                                           | How to crack your first interview          | Sivanthi Aditanar College, Nagercoil, 5 <sup>th</sup> May 2023.                     |
| 5      | Dr.Y.Jeyasheela             | Technical Reviewer | National Conference on Innovative Research in Advanced Computing | -                                          | Department of Computer Science and Engineering, NICHE, 11 <sup>th</sup> April 2023. |
|        |                             | Session Chair      | National Conference on Innovative Research in Advanced Computing | -                                          | Department of Computer Science and Engineering, NICHE, 11 <sup>th</sup> April 2023. |
| 6      | Dr.T.V.Sindia               | Technical Reviewer | National Conference on Innovative Research in Advanced Computing | -                                          | Department of Computer Science and Engineering, NICHE, 11 <sup>th</sup> April 2023. |
|        |                             | Session Chair      | National Conference on Innovative Research in Advanced Computing | -                                          | Department of Computer Science and Engineering, NICHE, 11 <sup>th</sup> April 2023. |

## 7. Details of Seminars, Conferences, Refresher courses, Webinars Organised :

| S. No. | Name of the Faculty member | Congress/Conference/Seminar/ Workshop/Symposia , Webmniars etc. organised | State/National/ International Level | Date       |
|--------|----------------------------|---------------------------------------------------------------------------|-------------------------------------|------------|
| 1      | Dr. V. Mary Amala Bai      | Seminar on "Entrepreneurship Skill, Attitude and Behaviour Development"   | National                            | 01-03-2023 |
| 2      | Dr.K.Siva Sankar           | 1. Workshop on Full Stack Web Development                                 | National                            | 06/03/2023 |
|        |                            | 2. Workshop on Microsoft Azure Fundamentals                               | National                            | 17/12/2022 |
|        |                            | 3. Workshop on the power of open source technologies                      | National                            | 19/10/2022 |
| 3      | Dr. T. Brindha             | Workshop on Full Stack Web Development                                    | National                            | 06/03/2023 |
| 4      | Dr.Y.Jeyasheela            | Workshop on Microsoft Azure Fundamentals                                  | National                            | 17/12/2022 |
| 5      | Dr. M. B. Jayalekshmi      | Workshop on The Power of Open Source Technologies                         | National                            | 19/10/2022 |
| 6      | Dr. T. V. Sindia           | Workshop on The Power of Open Source Technologies                         | National                            | 19/10/2022 |

## 8. Publication of Research Papers at the State/National/International Levels:

| S. No. | Author(s)                                  | Title of the paper                                                                                | Journal with ISSN/Scopus /SCI/UGC care                                                                   | Volume No. Issue No. | Year of Publication | Page(pp)        |
|--------|--------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------|---------------------|-----------------|
| 1      | Ann Romalt A. and Mathusoothana S. Kumar R | Data Mining Approach for Diagnosing Heart Diseases through Deep Neural Network                    | Periodico Di Mineralogia<br>ISSN:0369-8963                                                               | Vol. 91, No. 4       | 2022                | pp. 361 - 383   |
| 2      | Raji R. and Mathusoothana S. Kumar R       | Factors Affecting the Academic Performance of Students with Hearing Impairment                    | Revue d'Intelligence Artificielle<br>ISSN: 0992-499X                                                     | Vol. 36, No. 4       | 2022                | pp. 569-574     |
| 3      | Ierin Babu and Mathusoothana S. Kumar R    | Enhancing the performance of students academic by teachers in the initial prediction of academics | International Journal of Futuristic Innovation in Engineering, Science and Technology<br>ISSN: 2583-6234 | Vol. 2, No. 1        | 2023                | pp. 151 - 157   |
| 4      | Ierin Babu and Mathusoothana S. Kumar R.   | Evolutionary Algorithm Based Feature Subset                                                       | Intelligent Automation & Soft Computing                                                                  | Vol. 36, No. 3       | 2023                | pp. 3621 - 3636 |

|    |                                                                                                    |                                                                                                                                                         |                                                                                 |               |      |               |
|----|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------|------|---------------|
|    |                                                                                                    | Selection for Students Academic Performance Analysis                                                                                                    | ISSN: 1079-8587                                                                 |               |      |               |
| 5  | Saira Varghese and Maria Celestin Vigila, S.                                                       | Securing Utility Computing using Enhanced Elliptic Curve Cryptography and Attribute Based Access Control Policy                                         | International Journal of Grid and Utility Computing<br>ISSN: 1741-8488          | Vol.13, No.4  | 2022 | pp.394-405    |
| 6  | Edwin Singh C. and Maria Celestin Vigila, S                                                        | WOA-DNN for Intelligent Intrusion Detection and Classification in MANET Services                                                                        | Intelligent Automation & Soft Computing<br>ISSN: 2326-005X                      | Vol.35, No.2  | 2023 | pp. 1737-1751 |
| 7  | Edwin Singh C. and Maria Celestin Vigila, S                                                        | Fuzzy based intrusion detection system in MANET                                                                                                         | Measurement : Sensors<br>ISSN: 2665-9174                                        | Vol.26        | 2023 | pp. 1- 25     |
| 8  | J. Briso Becky Bell, Ananth Rajkumar, S. Maria Celestin Vigila, M. Gerald Arul Selvan, J. S. Binoj | Development of novel methodology for gene identification-based classification of leukaemia disorder                                                     | Research on Biomedical Engineering<br>ISSN: 2446-4740                           |               | 2023 | pp. 1-14      |
| 9  | Pratheep Kumar P , Mary Amala Bai V                                                                | Breast Cancer Detection on Mammographic Images using Hyper Parameter Tuning & Optimization: A Convolutional Neural Network & Transfer Learning Approach | International Journal of Engineering Trends and Technology<br>ISSN: 2231 – 5381 | Vol.70, No. 9 | 2022 | pp. 76-92     |
| 10 | Pratheep Kumar P , Mary Amala                                                                      | Krill herd optimization algorithm with                                                                                                                  | Concurrency and Computation:                                                    |               | 2023 | pp. 1-18      |

|    |                                                                   |                                                                                                                                            |                                                                                                 |                 |      |               |
|----|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------|------|---------------|
|    | Bai V                                                             | deep convolutional neural network fostered breast cancer classification using mammogram images                                             | Practice and Experience<br><br>ISSN: 1532-0634                                                  |                 |      |               |
| 11 | Pratheep Kumar P ,<br>Mary Amala Bai V, Ram Prasad Krishnamoorthy | State-Of-The-Art Techniques for Classification of Breast Cancer Using Machine Learning and Deep Learning Methods: A Review                 | International Journal Of Intelligent Systems And Applications In Engineering<br>ISSN: 2147-6799 | Vol.11,<br>No.4 | 2023 | pp. 222–241   |
| 12 | K.Siva Sankar                                                     | Detecting the Type of Attack in Healthcare Cloud Computing System Using Termite Deep Belief Neural Network (TDBNN) for Future Smart Cities | <b>Journal of Testing and Evaluation</b><br>ISSN: 0090-3973                                     | Vol.3           | 2023 | p.1421 – 1437 |
| 13 | K.Siva Sankar                                                     | Improved buffalo optimized deep feed forward neural learning based multipath routing for energy efficient data aggregation in WSN          | Measurement : Sensors<br>ISSN: 2665-9174                                                        |                 | 2023 | P.1-8         |
| 14 | Ameera Beegom, T. Brindha                                         | A Systematic analysis and review of covid-19 detection techniques                                                                          | Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization          |                 | 2023 |               |

**9. Details of patents applied/awarded:**

| S.No. | Name of the Faculty member | Title | Date of filling | Application No. | Award No. |
|-------|----------------------------|-------|-----------------|-----------------|-----------|
|       | Nil                        | Nil   | Nil             | Nil             | Nil       |

**10. Publications of Books/Monographs:**

| S. No. | Author(s) | Name of the Book with ISBN | Publisher/Place | Year |
|--------|-----------|----------------------------|-----------------|------|
| 1      | Nil       | Nil                        | Nil             | Nil  |

### 11. Courses offered, Sanctioned Strength of Students and Enrolment details:

| S. NO. | Name of the Programme / Branch of study | Sancti oned Stren gth | Enrolment during 2022-23 |    | Total | Community |   |    |   |     |   |          |   |    |   |     |   |    |   | Existing Students, Strength |   |          |   |         |   |       |   | Pass Percenta ge of out going batch |
|--------|-----------------------------------------|-----------------------|--------------------------|----|-------|-----------|---|----|---|-----|---|----------|---|----|---|-----|---|----|---|-----------------------------|---|----------|---|---------|---|-------|---|-------------------------------------|
|        |                                         |                       | F                        | M  |       | OC        |   | BC |   | BCM |   | MBC/ DNC |   | SC |   | SCA |   | ST |   | II year                     |   | III year |   | IV year |   |       |   |                                     |
|        |                                         |                       |                          |    |       | M         | F | M  | F | M   | F | M        | F | M  | F | M   | F | M  | F | M                           | F | M        | F | M       | F | M     | F |                                     |
| 1      | UG Programme B.Tech IT                  | 30                    | 4                        | 28 | 32    | 1         | 0 | 23 | 4 | 0   | 0 | 4        | 0 | 0  | 0 | 0   | 0 | 0  | 0 | 19                          | 2 | 13       | 2 | 11      | 7 | 72.22 |   |                                     |
| 2      | B.Sc. Cyber Forensics                   | 25                    | 0                        | 1  | 1     | 0         | 0 | 1  | 0 | 0   | 0 | 0        | 0 | 0  | 0 | 0   | 0 | 0  | 0 | 0                           | 0 | 1        | 0 | 0       | 0 | 100   |   |                                     |
| 3      | PG Courses- M.E. Cyber Security         | 12                    | 2                        | 1  | 3     | 0         | 0 | 1  | 2 | 0   | 0 | 0        | 0 | 0  | 0 | 0   | 0 | 0  | 0 | 1                           | 0 | 0        | 0 | 0       | 0 | 0     |   |                                     |
| 4      | Ph.D Programme                          | -                     | -                        | -  | -     | -         | - | -  | - | -   | - | -        | - | -  | - | -   | - | -  | - | -                           | - | -        | - | -       | - | -     |   |                                     |
| 5      | Diploma Certificate Courses (if any)    | -                     | -                        | -  | -     | -         | - | -  | - | -   | - | -        | - | -  | - | -   | - | -  | - | -                           | - | -        | - | -       | - | -     |   |                                     |
| 6      | MOOC/NPTEL/UG C online courses offered  | -                     | -                        | -  | -     | -         | - | -  | - | -   | - | -        | - | -  | - | -   | - | -  | - | -                           | - | -        | - | -       | - | -     |   |                                     |
|        | Total                                   | 67                    | 6                        | 30 | 36    | 1         | 0 | 25 | 6 | 0   | 0 | 4        | 0 | 0  | 0 | 0   | 0 | 0  | 0 | 20                          | 2 | 14       | 2 | 11      | 7 |       |   |                                     |

## 12. Enrolment of Students from Overseas and other States:

| S. No. | Degree and Subject    | Nationality | State  | Number of Students |        | Total |
|--------|-----------------------|-------------|--------|--------------------|--------|-------|
|        |                       |             |        | Male               | Female |       |
| 1      | B.Tech. IT            | Indian      | Kerala | 2                  | 0      | 2     |
| 2      | B.Sc. Cyber Forensics | Indian      | Kerala | 1                  | 0      | 1     |

## 13. U.G./P.G. and Research degrees awarded:

| S. No | UG    |       | P.G. |       | M. Phil. |    |    |       | Ph.D. |    |    |       |
|-------|-------|-------|------|-------|----------|----|----|-------|-------|----|----|-------|
|       |       | Total |      | Total |          | FT | PT | Total |       | FT | PT | Total |
| 1     | BTech | 14    | -    | -     | -        | -  | -  | -     | -     | -  | -  | -     |
| 2     | BSC   | 1     | -    | -     | -        | -  | -  | -     | -     | -  | -  | -     |

## 14. Fellowships Awarded (National/International) Faculty/Students Stipend awarded :

| S. No. | Agency | Position (URF/JRF/SRF/RA/ others) | Number of Fellowships |   | Total |
|--------|--------|-----------------------------------|-----------------------|---|-------|
|        |        |                                   | M                     | F |       |
| 1      | Nil    |                                   |                       |   |       |

## 15.Scholarships Awarded:

| S. No. | Nature of Scholarship                    | P.G. |   | M.Phil. |   | Ph.D. |   | Total Amount Rs. |
|--------|------------------------------------------|------|---|---------|---|-------|---|------------------|
|        |                                          | M    | F | M       | F | M     | F |                  |
| 1      | B.C.(State)                              | Nil  |   |         |   |       |   |                  |
| 2      | B.C.M.(State)                            |      |   |         |   |       |   |                  |
| 3      | M.B.C./D.N.C.(State)                     |      |   |         |   |       |   |                  |
| 4      | SC/SCA/ST(National)                      |      |   |         |   |       |   |                  |
| 5      | SC/SCA/ST(State)                         |      |   |         |   |       |   |                  |
| 6      | Management Scholar ship                  |      |   |         |   |       |   |                  |
| 7      | Loan Scholarship                         |      |   |         |   |       |   |                  |
| 8      | Moovalur Ramamirtham Ammaiyar Scheme     |      |   |         |   |       |   |                  |
| 9      | 'Pudhumai Penn' (modern woman)           |      |   |         |   |       |   |                  |
| 10     | Others ( please Specify the scholarship) |      |   |         |   |       |   |                  |
|        | Total                                    |      |   |         |   |       |   |                  |

## 16. Performance of the Students :

| S. No | Course      | S1   |      | S2   |      | S3   |      | S4   |      | S5   |      | S6   |      | S7   |      | S8   |      |
|-------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|       |             | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass |
| 1     | B.Tech - IT | 30   | 08   | 30   | 10   | 21   | 05   | 21   | 05   | 16   | 02   | 14   | 05   | 16   | 10   | 17   | 12   |
| 2     | M.E (CY)    | 03   | 02   | 02   | 02   | 01   | 01   | 01   | 01   | -    | -    | -    | -    | -    | -    | -    | -    |
| 3     | B.Sc (CF)   | -    | -    | -    | -    | -    | -    | -    | -    | 01   | 01   | 01   | 01   | -    | -    | -    | -    |

**17. Placement Details:**

| <b>Name of the Placement co-ordinator:</b> Dr.T.V.Sindia            |                                                                               |                            |        |
|---------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------|--------|
| <b>Phone/Mobile Number :e-mail:</b> sindia@niuniv.com<br>9442332616 |                                                                               |                            |        |
| <b>Number of Placement Programmes:</b>                              |                                                                               |                            |        |
| S. No.                                                              | Particulars                                                                   | Numbers of students placed |        |
|                                                                     |                                                                               | Male                       | Female |
| 1                                                                   | Number of Students Placed                                                     | 4                          | 5      |
| 2                                                                   | Number of Placements obtained through Campus Interview                        | 4                          | 5      |
| 3                                                                   | Ratio of Placement to Students (Total no of Placement / Total no of Students) | 4/11                       | 5/7    |

**18. Outstanding achievements by the Faculty Members:**

| S. No. | Name of the Faculty | Achievements                         | Agency          |
|--------|---------------------|--------------------------------------|-----------------|
| 1      | Dr.K.Siva Sankar    | Best Placement & Training Award-2023 | ENTE SAMRAMBHAM |

**19. Outstanding achievements by Students:**

| S.No. | Name of the Student | Achievements                   | Agency |
|-------|---------------------|--------------------------------|--------|
| 1     | Jeffrin J           | Essay Competition -First Prize | NICHE  |

**20. Department Meetings Held :****BOS :**

| S.No | Name                     | Date       |                                                                                                                                                                                                                                                                                                                                                                                 |
|------|--------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.   | Board of Studies Meeting | 01-6-2022  | 1.To discuss and finalize the 3 <sup>rd</sup> and 4 <sup>th</sup> semester BTech IT syllabus, for regulation 2021.<br>2.To discuss and finalize the elective subjects of M (CyberSecurity).                                                                                                                                                                                     |
| 2.   | Board of Studies Meeting | 28-02-2023 | 1. To revise the Examiner Panel for practical and project work – addition / modification if any<br>2. To revise the Subject expert list for question paper setting – addition / modification if any<br>3. To revise the Examiner panel for theory exam paper valuation - addition/ modification if any<br>4. Analysis of previous semester question and their complexity levels |

|  |  |  |                                                                                                                                                                                                  |
|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  |  | <p>5. To discuss the queries raised in class committee/programme committee meetings regarding curriculum, syllabus and Question paper</p> <p>6. Inclusion of SWAYAM/MOOC online courses etc.</p> |
|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Programme Committee, Course Committee :**

| S.No                  | Name                                    | Date       |             |
|-----------------------|-----------------------------------------|------------|-------------|
| <b>2022-2023(ODD)</b> |                                         |            |             |
| 1.                    | Programme Committee-S3IT,S5IT,S7IT (UG) | 18/08/2022 | I meeting   |
|                       |                                         | 22/09/2022 | II meeting  |
|                       |                                         | 04/11/2022 | III meeting |
| 2.                    | Programme Committee-S1 M.E (PG)         | 21/11/2022 | I meeting   |
|                       |                                         | 12/12/2022 | II meeting  |
|                       |                                         | 03/02/2022 | III meeting |
| 3.                    | Programme Committee- S3 M.E (PG)        | 17/08/2022 | I meeting   |
|                       |                                         | 21/09/2022 | II meeting  |
|                       |                                         | 05/11/2022 | III meeting |
| 4.                    | Programme Committee- B.Sc (UG)          | 17/08/2022 | I meeting   |
|                       |                                         | 21/09/2022 | II meeting  |
|                       |                                         | 05/11/2022 | III meeting |
| 5.                    | Class Committee –S3 IT (UG)             | 18/07/2022 | I meeting   |
|                       |                                         | 01/09/2022 | II meeting  |
|                       |                                         | 08/10/2022 | III meeting |
|                       |                                         | 15/11/2022 | IV meeting  |
| 6.                    | Class Committee –S5 IT (UG)             | 22/07/2022 | I meeting   |
|                       |                                         | 02/09/2022 | II meeting  |
|                       |                                         | 13/10/2022 | III meeting |
|                       |                                         | 16/11/2022 | IV meeting  |
| 7.                    | Class Committee –S7 IT (UG)             | 18/07/2022 | I meeting   |
|                       |                                         | 29/08/2022 | II meeting  |
|                       |                                         | 10/10/2022 | III meeting |
|                       |                                         | 14/11/2022 | IV meeting  |
| 8.                    | Class Committee –S5 B.sc (UG)           | 16/08/2022 | I meeting   |
|                       |                                         | 25/08/2022 | II meeting  |
|                       |                                         | 29/08/2022 | III meeting |
|                       |                                         | 10/11/2022 | IV meeting  |
| 9.                    | Class Committee –S1 M.E (PG)            | 08/10/2022 | I meeting   |
|                       |                                         | 30/11/2022 | II meeting  |
|                       |                                         | 03/01/2023 | III meeting |
|                       |                                         | 10/02/2023 | IV meeting  |
| 10.                   | Class Committee –S3 M.E (PG)            | 29/07/2022 | I meeting   |
|                       |                                         | 02/09/2022 | II meeting  |
|                       |                                         | 08/10/2022 | III meeting |
|                       |                                         | 14/11/2022 | IV meeting  |

| 2022-2023(EVEN) |                                    |            |             |
|-----------------|------------------------------------|------------|-------------|
| 1.              | Programme Committee-S4IT,S6IT (UG) | 07/02/2023 | I meeting   |
|                 |                                    | 27/02/2023 | II meeting  |
|                 |                                    | 30/03/2023 | III meeting |
| 2.              | Programme Committee-S8IT(UG)       | 27/02/2023 | I meeting   |
|                 |                                    | 20/03/2023 | II meeting  |
|                 |                                    | 17/04/2023 | III meeting |
| 3.              | Programme Committee- B.Sc(UG)      | 24/02/2023 | I meeting   |
|                 |                                    | 29/03/2023 | II meeting  |
|                 |                                    | 20/04/2023 | III meeting |
| 4.              | Programme Committee - S2 M.E (PG)  | 10/04/2023 | I meeting   |
|                 |                                    | 12/05/2023 | II meeting  |
|                 |                                    | 16/06/2023 | III meeting |
| 5.              | Class Committee –S4 IT (UG)        | 18/01/2023 | I meeting   |
|                 |                                    | 23/02/2023 | II meeting  |
|                 |                                    | 30/03/2023 | III meeting |
|                 |                                    | 04/05/2023 | IV meeting  |
| 6.              | Class Committee –S6 IT(UG)         | 20/02/2023 | I meeting   |
|                 |                                    | 28/02/2023 | II meeting  |
|                 |                                    | 03/03/2023 | III meeting |
|                 |                                    | 28/04/2023 | IV meeting  |
| 7.              | Class Committee –S8 IT(UG)         | 09/02/2023 | I meeting   |
|                 |                                    | 02/03/2023 | II meeting  |
|                 |                                    | 27/03/2023 | III meeting |
|                 |                                    | 25/04/2023 | IV meeting  |
| 8.              | Class Committee –S2 M.E(PG)        | 20/03/2023 | I meeting   |
|                 |                                    | 19/04/2023 | II meeting  |
|                 |                                    | 25/05/2023 | III meeting |
|                 |                                    | 03/07/2023 | IV meeting  |
| 9.              | Class Committee –S6 B.sc(UG)       | 15/02/2023 | I meeting   |
|                 |                                    | 06/03/2023 | II meeting  |
|                 |                                    | 10/04/2023 | III meeting |
|                 |                                    | 05/05/2023 | IV meeting  |

**21. Infrastructure and Research facilities available (Please specify equipments more than Two Lakhs Only) :**

| S. No | Name of the Lab          | Name of the Equipments/Computer/Software/ Others                                                                             | Quantity | Purpose Research/Practical |
|-------|--------------------------|------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------|
| 1     | Software Development Lab | <b>Computers</b>                                                                                                             |          |                            |
|       |                          | Intel Core i3-9100F,4GB DDR4 RAM,1TB HDD,20" LED Monitor,Keyboard and Mouse, GT710 2GB DDR3 Graphics card                    | 50       | Practical                  |
|       |                          | Intel Core i5-9400F-2.9Ghz ,4GB DDR4 RAM,1TB HDD,19.5" LED Monitor ,Keyboard and Mouse, GT710 2GB DDR3                       | 12       | Practical                  |
|       |                          | LENOVO H30-50 I3.0 GHZ, 2 GB DDR 3 RAM-3 systems&4GB RAM -2 systems,500 GB HDD,18.5' LENOVO LED MONITOR, KEYBOARD AND MOUSE. | 5        | Practical                  |
|       |                          | <b>Projector</b>                                                                                                             |          |                            |
|       |                          | Epson LCD projector                                                                                                          | 3        |                            |
|       |                          | <b>Printers</b>                                                                                                              |          |                            |

|   |                        |                                                                                                                                                                                                                             |    |           |
|---|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|
|   |                        | Epson stylus photo s30 printer                                                                                                                                                                                              | 1  |           |
|   |                        | Canon 3200 printer                                                                                                                                                                                                          | 1  |           |
|   |                        | Epson stylus c58 printer                                                                                                                                                                                                    | 3  |           |
|   |                        | <b>Scanner</b>                                                                                                                                                                                                              |    |           |
|   |                        | HP 3770 Scanner                                                                                                                                                                                                             | 1  |           |
|   |                        | <b>Camera</b>                                                                                                                                                                                                               |    |           |
|   |                        | Zebranics web camera                                                                                                                                                                                                        | 10 |           |
|   |                        | D-Link web camera                                                                                                                                                                                                           | 10 |           |
|   |                        | Logitech web camera                                                                                                                                                                                                         | 10 |           |
|   |                        | Sony cyber shot-DSC pg digital camera                                                                                                                                                                                       | 1  |           |
|   |                        | Sany handy cams and access                                                                                                                                                                                                  | 1  |           |
|   |                        | <b>Switch</b>                                                                                                                                                                                                               |    |           |
|   |                        | DigIsol 24 port fibre switch                                                                                                                                                                                                | 4  |           |
| 2 | System Programming Lab | <b>Computers</b>                                                                                                                                                                                                            |    |           |
|   |                        | Intel Pentium-D 2.66 GHz/Intel DGGC2 Mother Board/1 GB RAM-33 systems & 4GB RAM-3 systems/80 GB SATA HDD-30 systems & 250 GB HDD- 3 systems & 500GB HDD-3 systems/Logitech keyboard and mouse/CD drive/LG 18.5" LED monitor | 36 | Practical |
|   |                        | <b>Switch</b>                                                                                                                                                                                                               |    |           |
|   |                        | 24 port Fibre Network switch                                                                                                                                                                                                | 2  |           |
|   |                        | <b>Printers</b>                                                                                                                                                                                                             |    |           |
|   |                        | Epson LX 300 DM printer                                                                                                                                                                                                     | 1  |           |
|   |                        | Epson stylus C58 printer                                                                                                                                                                                                    | 2  |           |
|   |                        | <b>Projector</b>                                                                                                                                                                                                            |    |           |
|   |                        | Liberty vision 285 OHP projector                                                                                                                                                                                            | 1  |           |
|   |                        | <b>Development Kit</b>                                                                                                                                                                                                      |    |           |
| 3 | Cyber Forensics Lab    | ARM 7 LPC 2148 Development Kit                                                                                                                                                                                              | 5  |           |
|   |                        | <b>Computers</b>                                                                                                                                                                                                            |    |           |
|   |                        | ACER UX.V0981.011 I3/2GB/500 GB DOS.INTEL I3-3220 3 <sup>RD</sup> GEN./2GB DDR3/500 GB/USB KEYBOARD+ OPTICAL MOUSE/DOS.ACER 18.5' V196 HQL LED MONITOR OEM 22X SATA DVDRW.                                                  | 10 | Practical |
|   |                        | <b>Softwares</b>                                                                                                                                                                                                            |    |           |
|   |                        | CDR Analyser v1.0                                                                                                                                                                                                           | 1  |           |
|   |                        | SIMXtrctor                                                                                                                                                                                                                  | 5  |           |
|   |                        | Cybercheck Suite v4.0                                                                                                                                                                                                       | 2  |           |
|   |                        | True Imager v2.0                                                                                                                                                                                                            | 1  |           |
|   |                        | NetForce Suite v1.0-1No<br>NetForce Suite v3.0-1 No                                                                                                                                                                         | 2  |           |
|   |                        | Mobile Check v4.0 on CD-2 Nos<br>Mobile Check v4.1-1 No                                                                                                                                                                     | 3  |           |
|   |                        | WinLifT                                                                                                                                                                                                                     | 4  |           |
|   |                        | <b>Switch</b>                                                                                                                                                                                                               |    |           |
|   |                        | DIGISOL DG-GS1026 24 Port Switch [007w3D8000368]                                                                                                                                                                            | 1  |           |

## 22. Extension activities carried out :

| S. No. | Name of the Activity | Beneficiaries | Date | Venue |
|--------|----------------------|---------------|------|-------|
| 1      | Nil                  |               |      |       |

**23. Department Library/Learning Resources/ Information and Language Lab:**

Name of the Librarian or Faculty in-charge of the Library:

| S. No. | Particulars                                                           | Nos.   | S. No. | Particulars                                         | Nos. |
|--------|-----------------------------------------------------------------------|--------|--------|-----------------------------------------------------|------|
| 1      | No. of books available                                                | 1275   | 7      | No. of titles available                             | 0    |
| 2      | Books added during the year 2022-23                                   | 3      | 8      | No. of CDs and Digital Books available              | 65   |
| 3      | No. of Indian Journals/Magazines                                      | 5      | 9      | No. of Foreign Magazines/Journals                   | 0    |
| 4      | No. of data bases available                                           | 0      | 10     | No. of Online Journals                              | 0    |
| 5      | Average No. of students visiting the Library per day                  | 2      | 11     | Average No. of books Issued per day                 | 1    |
|        |                                                                       |        | 12     | No. of digital books                                | 0    |
| 6      | Availability of Internet (Specify the Capacity) (e.g. – 8 Mbps etc.,) | 1 gbps | 13     | Availability of Language Lab                        | -    |
|        |                                                                       |        | 14     | NDL membership<br>5. Faculty members<br>6. Students |      |

**24. Information and Communication Technology Resources:**

| S. No. | Name of the Equipment | Specifications                                                   | Nos. | S. No. | Name of the Equipment           | Specifications                 | Nos. |
|--------|-----------------------|------------------------------------------------------------------|------|--------|---------------------------------|--------------------------------|------|
| 1      | Digital Projector     | Inforcus IN104                                                   | 1    | 5      | Collar Mic                      |                                | 1    |
| 2      | Hitachi Star Board    | FX-77<br>1573 x 1800 mm of screen size<br>IR wavelength – 880 mm | 1    | 6      | Handheld Mic                    |                                | 1    |
| 3      | Speaker               |                                                                  | 2    | 7      | Ceiling Mount Kit for projector | 15mtr VGA cable                | 1    |
| 4      | Amplifier             |                                                                  | 1    | 8      | Laptop                          | Intel Core i3-28050<br>2B/DDR3 | 1    |

**25.Collaborative Researches :**

Nil

**26.Consultancies :**

On May 19, 2023, the IT department received Rs.5,000/- for website revamping services from Rubix Crew Pvt Ltd.

**27.No. of NET/SET/GATE/CSIR Qualified students:**

Nil

## 28. MOUs signed :

| S.No | Date       | MoU signed with           | Number of Activities | Remarks |
|------|------------|---------------------------|----------------------|---------|
| 1    | 15-03-2023 | CKS Solutions             | -                    | -       |
| 2    | 02-12-2023 | Group Cyber Id Technology | -                    | -       |

## 29. Innovations and Best Practices :

### 1. Maintaining student attendance Register

A separate student attendance Register is maintained in the department to monitor the

presence of students during class hours and to convey the parents in case of irregularities.

### 2. Lecture plan, syllabus coverage and course attainment

*A detailed Lecture plan prepared in the beginning of every semester guides teachers for the lesson ahead. It covers what to teach and all the activities the students will complete.*

*Syllabus coverage recorded daily in the “record of Academic work” helps teachers complete the syllabus as per the schedule notified in the lecture plan.*

*The course level attainment calculated after the university examination results are published helps the faculty in setting the benchmarks for next year and help in betterment of teaching-learning process*

### 3. Blooms taxonomy

Bloom's Taxonomy framework is incorporated in setting question papers, for internal examinations as well as for end semester university examinations. This *helps check knowledge that learners gain through the courses.*

Through Bloom's Taxonomy, teachers can evaluate learning outcomes, improve their teaching strategies and also encourage higher-order thinking in their students.

### 4. Department meeting:

To boost team productivity, to promote a free-flowing exchange of views and reach joint decisions well, a department meeting is conducted once in a month by the HoD attended by all the staff members of the department.

### 5. Research colloquium:

As an opportunity to showcase the research to an audience of peers, to invite feedback that helps to make the research works stronger and to be inspired by new ideas, a research colloquium presentation is arranged every month by staff members of the department.

## 30. Academic Flexibility :Nil

| S.No | Courses offered | Platform (MOOC, NPTEL, etc.) | No. Students enrolled | No. of Students Passed |
|------|-----------------|------------------------------|-----------------------|------------------------|
|      |                 |                              |                       |                        |

## NAME OF THE DEPARTMENT: MARINE ENGINEERING

### 1. Department Details :

|                                          |                                                              |
|------------------------------------------|--------------------------------------------------------------|
| Name of the Faculty                      | <b>Marine Engineering</b>                                    |
| Name of the HoD, Phone No. and E-mail ID | <b>Dr. S. John Leon,<br/>9443606221, sjohnleon@gmail.com</b> |
| Year of Establishment                    | <b>2008</b>                                                  |
| Telephone Number                         |                                                              |
| Website / E mail                         | <b>www.niuniv.com</b>                                        |

### 2. Details of Faculty Members :

| S. No. | Name of the Faculty             | Qualification                                | Designation         | Specialisation            | Experience in years |            | E-mail ID & Phone/Cell Phone No.                                                          |
|--------|---------------------------------|----------------------------------------------|---------------------|---------------------------|---------------------|------------|-------------------------------------------------------------------------------------------|
|        |                                 |                                              |                     |                           | Teaching            | Research   |                                                                                           |
| 1.     | Dr. S. John Leon                | M.E. (Thermal), Ph.D.                        | Associate Professor | Thermal Engineering       | 32 Years            | 10 Years   | <a href="mailto:sjohnleon@gmail.com">sjohnleon@gmail.com</a> / 9443606221                 |
| 2.     | Prof. Captain S. Vijayan Pillai | MBA (Marketing) Foreign going Master Mariner | Assistant Professor | IMO Regulations           | 10 Years            | --         | <a href="mailto:svpillai8@gmail.com">svpillai8@gmail.com</a> / 9946287141                 |
| 3.     | Mr. J. Jesin Jude Leonard       | B.E. (Mech) MEO Class-I (M)                  | Assistant Professor | Auxiliary Machinery       | 7.7 Years           | --         | <a href="mailto:jesinjude.leonard@gmail.com">jesinjude.leonard@gmail.com</a> / 9442644908 |
| 4.     | Dr. V. K. Jebasingh             | M.E. (Engineering Design), Ph.D.             | Associate Professor | Design Engg.              | 14.3 Years          | 14.3 Years | <a href="mailto:jebasingh@live.in">jebasingh@live.in</a> / 9488500504                     |
| 5.     | Dr. K. S. Jai Aultrin           | M.E. (Manufacturing Engineering), Ph.D.      | Associate Professor | Manufacturing Engineering | 16.3 Years          | 12.3 Years | <a href="mailto:aultrin2010@gmail.com">aultrin2010@gmail.com</a> / 7598236159             |
| 6.     | Mr. A. K. Ratheesh              | M.E. (Thermal)                               | Assistant Professor | Thermal Engg              | 15 Years            | --         | Ratheeshudhaya2g mail.com / 9600277105                                                    |
| 7.     | Mr. M. Muniasamy                | B.E. (Marine)                                | Assistant Professor | Marine Engg.              | 3.8 Years           | --         | <a href="mailto:munishsailor@gmail.com">munishsailor@gmail.com</a> / 7373555565           |
| 8.     | Mr. D. Pray Gift                | B.E. (Marine)                                | Assistant Professor | Marine Engg.              | 1.9 Years           | --         | <a href="mailto:praygift@gmail.com">praygift@gmail.com</a> 9585127576                     |
| 9.     | Mr. A. Ramesh                   | M.E. (Marine)                                | Assistant Professor | Marine Engg.              |                     | 6 Years    | <a href="mailto:Marinerrameshi4u@gmail.com">Marinerrameshi4u@gmail.com</a> 9566959382     |

| S. No. | Name of the Faculty  | Qualification | Designation         | Specialisation | Experience in years |          | E-mail ID & Phone/Cell Phone No.                                                                     |
|--------|----------------------|---------------|---------------------|----------------|---------------------|----------|------------------------------------------------------------------------------------------------------|
|        |                      |               |                     |                | Teaching            | Research |                                                                                                      |
| 10     | Mr. K. Satheesh Babu | B.E. (Marine) | Assistant Professor | Marine Engg.   | 6 Mon ths           | --       | <a href="mailto:sailorsatheeshseafarer@gmail.com">sailorsatheeshseafarer@gmail.com</a><br>9488220443 |
| 11.    | Mr. A. Vikramoorthi  | B.E. (Marine) | Assistant Professor | Marine Engg.   | 7 Mon ths           | --       | <a href="mailto:Vikrammoorthi9@gmail.com">Vikrammoorthi9@gmail.com</a><br>8056546890                 |
| 12.    | Mr. J.S. Febin       | B.E. (Marine) | Assistant Professor | Marine Engg.   | 6 Mon ths           | --       | <a href="mailto:febinjohnviyani@gmail.com">febinjohnviyani@gmail.com</a><br>9600532087               |

### 3. Faculty Members Achievements /Performance:

| S. No. | Name                              | h index |            | Publications |            | Citations |            | API   |            | M.Phil. awarded |            | Ph.D. awarded |            | Cumulative Scholars |       |
|--------|-----------------------------------|---------|------------|--------------|------------|-----------|------------|-------|------------|-----------------|------------|---------------|------------|---------------------|-------|
|        |                                   | 22-23   | Cumulative | 22-23        | Cumulative | 22-23     | Cumulative | 22-23 | Cumulative | 22-23           | Cumulative | 22-23         | Cumulative | M. Phil             | Ph.D. |
| 1.     | <b>Prof. Capt. Vijayan Pillai</b> |         |            |              |            |           |            | 150   | 150        |                 |            |               |            |                     |       |
| 2.     | <b>Dr. S. John Leon</b>           |         |            | 2            | 6          |           |            | 230   | 201.2      |                 |            |               |            |                     |       |
| 3.     | <b>Dr. V.K. Jebasingh</b>         | 3       | 3          | 2            | 6          | 50        | 220        | 340   | 280        |                 |            |               |            |                     |       |
| 4.     | <b>Dr. K.S. Jai Aultrin</b>       | 5       | 5          | 2            | 24         | 12        | 66         | 207   | 207        |                 |            |               |            |                     |       |
| 5.     | <b>Mr. J. Jesin Jude Leonard</b>  |         |            |              |            |           |            | 150   | 150        |                 |            |               |            |                     |       |
| 6.     | <b>Mr. A. K. Ratheesh</b>         |         |            |              |            |           |            | 220   | 217.5      |                 |            |               |            |                     |       |
| 7.     | <b>Mr. S.H. Vishnu</b>            |         |            |              |            |           |            | 150   | 150        |                 |            |               |            |                     |       |
| 8.     | <b>Mr. M. Muniasamy</b>           |         |            |              |            |           |            | 175   | 175        |                 |            |               |            |                     |       |
| 9.     | <b>Mr. S. Mohammed Ali</b>        |         |            |              |            |           |            | 150   | 150        |                 |            |               |            |                     |       |
| 10.    | <b>Mr. D. Pray Gift</b>           |         |            |              |            |           |            | 170   | 160        |                 |            |               |            |                     |       |

| S. No. | Name                 | h index |            | Publications |            | Citations |            | API   |            | M.Phil. awarded |            | Ph.D. awarded |            | Cumulative Scholars |       |
|--------|----------------------|---------|------------|--------------|------------|-----------|------------|-------|------------|-----------------|------------|---------------|------------|---------------------|-------|
|        |                      | 22-23   | Cumulative | 22-23        | Cumulative | 22-23     | Cumulative | 22-23 | Cumulative | 22-23           | Cumulative | 22-23         | Cumulative | M. Phil             | Ph.D. |
| 11.    | Mr. A. Ramesh        |         |            |              |            |           |            | 170   | 160        |                 |            |               |            |                     |       |
| 12.    | Mr. M. Janesh Kumar  |         |            |              |            |           |            | 150   | 150        |                 |            |               |            |                     |       |
| 13.    | Mr. K. Satheesh Babu |         |            |              |            |           |            | 160   | 160        |                 |            |               |            |                     |       |
| 14.    | Mr. A. Vikramoorathi |         |            |              |            |           |            | 150   | 150        |                 |            |               |            |                     |       |
| 15.    | Mr. J.S. Febin       |         |            |              |            |           |            | 150   | 150        |                 |            |               |            |                     |       |

#### 4.. Research Schemes/Projects undertaken :

| S. No. | Name of the Principal Investigator | Funding Agency | Title of the Project | Duration |    | Amount Rs. |
|--------|------------------------------------|----------------|----------------------|----------|----|------------|
|        |                                    |                |                      | From     | To |            |
| Nil    |                                    |                |                      |          |    |            |

#### 5. a) Participation of the Faculty members, presentation of papers in Congresses/Conferences/Seminars/Workshops, Symposia, etc.

| S. No. | Name of the Faculty | Congress/Conference /Seminar /Workshop and Venue                                                                            | Title of the paper                                                                            | Date                                       |
|--------|---------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------|
| 1      | Dr. S. John Leon    | International Conference on Emerging Trends in Technology and Sciences (ICETS-2K23) Department of Automobile & FTSE / NICHE | <b>International Conference:</b> Hybrid Propulsion System with streamlined Hull Design        | 3 <sup>rd</sup> & 4 <sup>th</sup> May 2023 |
| 2      | Dr. S. John Leon    | International Conference on Emerging Trends in Technology and Sciences (ICETS-2K23) Department of Automobile & FTSE / NICHE | <b>International Conference:</b> Performance of magnesium composites in stimulated body fluid | 3 <sup>rd</sup> & 4 <sup>th</sup> May 2023 |
| 3.     | Dr. S. John Leon    | International Conference on                                                                                                 | <b>International Conference:</b> Corrosion Performance of                                     | 3 <sup>rd</sup> & 4 <sup>th</sup> May 2023 |

| S. No. | Name of the Faculty | Congress/Conference /Seminar /Workshop and Venue                                                                            | Title of the paper                                                                                                                             | Date                                       |
|--------|---------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
|        |                     | Emerging Trends in Technology and Sciences (ICETS-2K23) Department of Automobile & FTSE / NICHE                             | microwave annealed electroless Ni-P coating on low carbon steel                                                                                |                                            |
| 4.     | Dr. S. John Leon    | International Conference on Emerging Trends in Technology and Sciences (ICETS-2K23) Department of Automobile & FTSE / NICHE | <b>International Conference:</b> Wear Performance of annealed electroless Ni-P coating on low carbon steel                                     | 3 <sup>rd</sup> & 4 <sup>th</sup> May 2023 |
| 5.     | Dr. S. John Leon    | International Conference on Emerging Trends in Technology and Sciences (ICETS-2K23) Department of Automobile & FTSE / NICHE | <b>International Conference:</b> Metallic coating on polymer matrix composites                                                                 | 3 <sup>rd</sup> & 4 <sup>th</sup> May 2023 |
| 6.     | Dr. V.K. Jebasingh  | International Conference on Emerging Trends in Technology and Sciences (ICETS-2K23) Department of Automobile & FTSE / NICHE | <b>International Conference:</b> Roof concrete embedded water pipes for increase of comfort conditions and hot water needs.                    | 3 <sup>rd</sup> & 4 <sup>th</sup> May 2023 |
| 7.     | Dr. V.K. Jebasingh  | International Conference on Emerging Trends in Technology and Sciences (ICETS-2K23) Department of Automobile & FTSE / NICHE | <b>International Conference:</b> Review on molten salts as phase change materials                                                              | 3 <sup>rd</sup> & 4 <sup>th</sup> May 2023 |
| 8.     | Dr. V.K. Jebasingh  | International Conference on Emerging Trends in Technology and Sciences (ICETS-2K23) Department of Automobile & FTSE / NICHE | <b>International Conference:</b> Study on enriched cement for improving fire resistant structural behaviour property by using various products | 3 <sup>rd</sup> & 4 <sup>th</sup> May 2023 |
| 9.     | Dr. V.K. Jebasingh  | International Conference on                                                                                                 | <b>International Conference:</b> Onboard crew monitoring                                                                                       |                                            |

| S. No. | Name of the Faculty  | Congress/Conference /Seminar /Workshop and Venue                                                                            | Title of the paper                                                                                                    | Date                                       |
|--------|----------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
|        |                      | Emerging Trends in Technology and Sciences (ICETS-2K23) Department of Automobile & FTSE / NICHE                             | System.                                                                                                               | 3 <sup>rd</sup> & 4 <sup>th</sup> May 2023 |
| 10.    | Mr. A.K. Ratheesh    | International Conference on Emerging Trends in Technology and Sciences (ICETS-2K23) Department of Automobile & FTSE / NICHE | <b>International Conference:</b> Mechanical Properties of natural Fibre reinforced plastic synthetic and Analysis.    | 3 <sup>rd</sup> & 4 <sup>th</sup> May 2023 |
| 11.    | Mr. A. Ramesh        | International Conference on Emerging Trends in Technology and Sciences (ICETS-2K23) Department of Automobile & FTSE / NICHE | <b>International Conference:</b> Hybrid Propulsion System with Streamlined Hull Design.                               | 3 <sup>rd</sup> & 4 <sup>th</sup> May 2023 |
| 12.    | Mr. D. Pray Gift     | International Conference on Emerging Trends in Technology and Sciences (ICETS-2K23) Department of Automobile & FTSE / NICHE | <b>International Conference:</b> Onboard crew monitoring System.                                                      | 3 <sup>rd</sup> & 4 <sup>th</sup> May 2023 |
| 13.    | Dr. K.S. Jai Aultrin | International Conference on Recent Advances in Engineering and Technology (ICRAET 2K23) Department of Mechanical / NICHE    | <b>International Conference:</b> Genetic Algorithm Approach on Cutting parameters in AWJM Process for various Alloys. | 20th April 2023                            |
| 14.    | Dr. K.S. Jai Aultrin | International Conference on Recent Advances in Engineering and Technology (ICRAET 2K23) Department of Mechanical / NICHE    | <b>International Conference:</b> Ant Colony Optimization on Cutting parameters in AWJM Process for various Alloys.    | 20th April 2023                            |

**b) Foreign Faculty/Expert visit to the Department:**

| S. No. | Name & Designation | Institute | Country | Duration | Purpose |
|--------|--------------------|-----------|---------|----------|---------|
| Nil    |                    |           |         |          |         |

**6. Faculty acted as Chief Guest, Key note Speakers, Resource Person, Chair Person, External experts, etc. :**

| S. No. | Name of the Faculty member | Role          | Event         | Title                                     | Venue & Date                                                            |
|--------|----------------------------|---------------|---------------|-------------------------------------------|-------------------------------------------------------------------------|
| 1      | Mr. A. Ramesh              | Guest Lecture | Guest Lecture | Engineering Materials and Characteristics | Kottayam Institute of Technology and Science. 15-05-2023 to 20-05-2023. |

**7. Details of Seminars, Conferences, Refresher courses, Webminars Organised:**

| S. No. | Name of the Faculty member | Congress/Conference/Seminar/ Workshop/Symposia , Webminars etc. organised | State/National/ International Level | Date |
|--------|----------------------------|---------------------------------------------------------------------------|-------------------------------------|------|
| Nil    |                            |                                                                           |                                     |      |

**8. Publication of Research Papers at the State/National/International Levels:**

| S. No. | Author(s)                                                    | Title of the paper                                                                                        | Journal with ISSN/Scopus/ SCI/UGC care               | Volume No. Issue No. | Year of Publication | Page(pp) |
|--------|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------|----------------------|---------------------|----------|
| 1.     | Samuel Kumaresan, K.S. Jai Aultrin, S.S. Kumar, M. Dev Anand | Deep Learning Based Simple CNN Weld Defects Classification Using Optimization Technique                   | Russian Journal of Non Destructive Testing 1061-8309 | 58/6                 | September 2022      | 499-509  |
| 2.     | V. K. Jebasingh, J. Divya Johns, T. Arunkumar                | Assessment of Circular and Elliptical Absorber Tube in Solar Parabolic Trough Collector                   | International Journal of Ambient Energy              | 1/ October           | October 2022        |          |
| 3.     | V. K. Jebasingh, J. Divya Johns, T. Arunkumar,               | Performance Study on Eutectic Molten Salt as High Temperature Working Fluid in Parabolic Trough Collector | International Journal of Ambient Energy              | 1/ October           | October 2022        |          |

| S. No. | Author(s)                                                                  | Title of the paper                                                                                                                           | Journal with ISSN/Scopus/SCI/UGC care                                                                                     | Volume No. Issue No. | Year of Publication | Page(pp) |
|--------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------|----------|
| 4.     | P. V. George John, M. Edwin Sahayaraj, J.T. Winowlin Jappes, S. John Leon. | Comparative Corrosion Studies on Electroless Ni-P, Ni-P/TiO <sub>2</sub> Composite and Ni-P/Ni-P-TiO <sub>2</sub> /Ni-P Multi Layer Coatings | PERIODICO di MINERALOGIA 0369-8963                                                                                        | 92/ 2                |                     | 67-83    |
| 5.     | Samuel Kumaresan, K.S. Jai Aultrin, S.S. Kumar, M. Dev Anand               | Deep learning-based weld defect classification using VGG16 transfer Learning Adaptive Fine Tuning                                            | International Journal on Interactive Design and Manufacturing 1955 - 2505                                                 |                      | May 2023            |          |
| 6.     | P.V. George John, M Edwin Sahayaraj, J.T. Winowlin Jappes and S. John Leon | Corrosion Characteristics of microwave and furnace annealed electroless Ni-P-TiO <sub>2</sub> coatings                                       | The Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science 0954 - 4062 |                      | June 2023           |          |

#### 9. Details of patents applied/awarded:

| S.No. | Name of the Faculty member | Title | Date of filling | Application No. | Award No. |
|-------|----------------------------|-------|-----------------|-----------------|-----------|
| Nil   |                            |       |                 |                 |           |

#### 10. Publications of Books/Monographs:

| S. No. | Author(s) | Name of the Book with ISBN | Publisher/Place | Year |
|--------|-----------|----------------------------|-----------------|------|
| Nil    |           |                            |                 |      |

**11. Courses offered, Sanctioned Strength of Students and Enrolment details:**

| S. NO. | Name of the Programme / Branch of study | Sancti oned Streng th | Enrolment during 2022-23 |   | Total | Community |   |    |   |     |   |          |   |    |   |     |   |    |    | Existing Students, Strength |    |          |    |         |     | Pass Percentag e of out going batch |
|--------|-----------------------------------------|-----------------------|--------------------------|---|-------|-----------|---|----|---|-----|---|----------|---|----|---|-----|---|----|----|-----------------------------|----|----------|----|---------|-----|-------------------------------------|
|        |                                         |                       | F                        | M |       | OC        |   | BC |   | BCM |   | MBC/ DNC |   | SC |   | SCA |   | ST |    | II year                     |    | III year |    | IV year |     |                                     |
|        |                                         |                       |                          |   |       | M         | F | M  | F | M   | F | M        | F | M  | F | M   | F | M  | F  | M                           | F  | M        | F  | M       | F   |                                     |
|        | UG Programme                            | 40                    | 0                        | 3 | 3     | 1         |   | 2  |   |     |   |          |   |    |   |     |   |    | 18 | 0                           | 11 | 0        | 11 | 1       | 100 |                                     |
|        | PG Courses                              |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |    |                             |    |          |    |         |     |                                     |
|        | Ph.DProgramm e                          |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |    |                             |    |          |    |         |     |                                     |
|        | Diploma Certificate Courses (if any)    |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |    |                             |    |          |    |         |     |                                     |
|        | MOOC/NPTEL/UG C online courses offered  |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |    |                             |    |          |    |         |     |                                     |
|        | Total                                   | 40                    |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |    |                             |    |          |    |         |     |                                     |

## 12. Enrolment of Students from Overseas and other States:

| S. No. | Degree and Subject                  | Nationality | State  | Number of Students |        | Total |
|--------|-------------------------------------|-------------|--------|--------------------|--------|-------|
|        |                                     |             |        | Male               | Female |       |
| 1.     | B.E. Degree & S1 Marine Engineering | Indian      | Kerala | 1                  | 0      | 1     |
| 2.     | B.E. Degree & S3 Marine Engineering | Indian      | Kerala | 2                  | 0      | 2     |

## 13. U.G./P.G. and Research degrees awarded:

| S. No | UG |       | P.G. |       | M. Phil. |    |    |       | Ph.D. |    |    |       |
|-------|----|-------|------|-------|----------|----|----|-------|-------|----|----|-------|
|       |    | Total |      | Total |          | FT | PT | Total |       | FT | PT | Total |
|       | 12 | 12    | Nil  |       |          |    |    |       |       |    |    |       |

## 14. Fellowships Awarded (National/International) Faculty/Students Stipend awarded :

| S. No. | Agency | Position<br>(URF/JRF/SRF/RA/<br>others) | Number of Fellowships |   | Total |
|--------|--------|-----------------------------------------|-----------------------|---|-------|
|        |        |                                         | M                     | F |       |
| Nil    |        |                                         |                       |   |       |

## 15.Scholarships Awarded:

| S. No. | Nature of Scholarship                    | P.G. |   | M.Phil. |   | Ph.D. |   | Total Amount Rs. |
|--------|------------------------------------------|------|---|---------|---|-------|---|------------------|
|        |                                          | M    | F | M       | F | M     | F |                  |
| 1      | B.C.(State)                              |      |   |         |   |       |   |                  |
| 2      | B.C.M.(State)                            |      |   |         |   |       |   |                  |
| 3      | M.B.C./D.N.C.(State)                     |      |   |         |   |       |   |                  |
| 4      | SC/SCA/ST(National)                      |      |   |         |   |       |   |                  |
| 5      | SC/SCA/ST(State)                         |      |   |         |   |       |   |                  |
| 6      | Management Scholar ship                  |      |   |         |   |       |   |                  |
| 7      | Loan Scholarship                         |      |   |         |   |       |   |                  |
| 8      | MoovalurRamamirthamAmmaiyar Scheme       |      |   |         |   |       |   |                  |
| 9      | 'Pudhumai Penn' (modern woman)           |      |   |         |   |       |   |                  |
| 10     | Others ( please Specify the scholarship) |      |   |         |   |       |   |                  |
|        | Total                                    | Nil  |   |         |   |       |   |                  |

## 16. Performance of the Students :

| S. No | Course                  | S1   |      | S2   |      | S3   |      | S4   |      | S5   |      | S6   |      | S7   |      | S8   |      |
|-------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|       |                         | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass |
| 1.    | B.E. Marine Engineering | 3    | 1    | 3    | 1    | 18   | 11   | 18   | 7    | 11   | 5    | 11   | 2    | 12   | 12   | 12   | 12   |

**17. Placement Details:**

| <b>Name of the Placement co-ordinator: Mr. M. Muniasamy</b>            |                                                                               |                            |        |
|------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------|--------|
| <b>Phone/Mobile Number :e-mail: 7373555565, munishsailor@gmail.com</b> |                                                                               |                            |        |
| <b>Number of Placement Programmes:</b>                                 |                                                                               |                            |        |
| S. No.                                                                 | Particulars                                                                   | Numbers of students placed |        |
|                                                                        |                                                                               | Male                       | Female |
| 1                                                                      | Number of Students Placed                                                     | 4                          | Nil    |
| 2                                                                      | Number of Placements obtained through Campus Interview                        | Nil                        | Nil    |
| 3                                                                      | Ratio of Placement to Students (Total no of Placement / Total no of Students) | 33.34                      | Nil    |

**18. Outstanding achievements by the Faculty Members:**

| S. No. | Name of the Faculty  | Achievements          | Agency                 |
|--------|----------------------|-----------------------|------------------------|
| 1.     | Dr. V.K. Jebasingh   | AECS Course Completed | MAASA Maritime Academy |
| 2.     | Mr. K. Satheesh Babu | VICT course completed | Naval Maritime academy |

**19. Outstanding achievements by Students:**

| S.No. | Name of the Student | Achievements | Agency |
|-------|---------------------|--------------|--------|
| Nil   |                     |              |        |

**20. Department MeetingsHeld :  
BOS,Programe Committee, Course Committee etc.**

| S.No | Name                                                                                        | Date                                                 |  |
|------|---------------------------------------------------------------------------------------------|------------------------------------------------------|--|
| 1.   | Programme Committee 2022-2023 – Odd Semester – Three Programme Committee Meetings Conducted | 19-07-2022<br>20-09-2022<br>15-10-2022               |  |
| 2.   | Programme Committee 2022-2023 – Even Semester Three Programme Committee Meetings Conducted  | 19-01-2023<br>02-03-2023<br>03-04-2023               |  |
| 3.   | Class Committee – S1 Marine<br>Four Class Committee Meetings Conducted                      | 07-10-2022<br>29-11-2022<br>03-01-2023<br>17-02-2023 |  |
| 4.   | Class Committee – S2 Marine<br>Four Class Committee Meetings Conducted                      | 15-03-2023<br>03-05-2023<br>02-06-2023<br>28-06-2023 |  |
| 5.   | Class Committee – S3 Marine<br>Four Class Committee Meetings Conducted                      | 20-07-2022<br>12-09-2022<br>08-10-2022<br>17-11-2022 |  |
| 6.   | Class Committee – S4 Marine<br>Four Class Committee Meetings Conducted                      | 10-01-2023<br>20-02-2023<br>05-04-2023<br>08-05-2023 |  |
| 7.   | Class Committee – S5 Marine<br>Four Class Committee Meetings Conducted                      | 18-07-2022<br>12-09-2022                             |  |

|     |                                                                        |                                                      |  |
|-----|------------------------------------------------------------------------|------------------------------------------------------|--|
|     |                                                                        | 08-10-2022<br>17-11-2022                             |  |
| 8.  | Class Committee – S6 Marine<br>Four Class Committee Meetings Conducted | 09-01-2023<br>23-02-2023<br>11-04-2023<br>05-05-2023 |  |
| 9.  | Class Committee – S7 Marine<br>Four Class Committee Meetings Conducted | 14-07-2022<br>15-09-2022<br>10-11-2022<br>27-01-2023 |  |
| 10. | Class Committee – S8 Marine<br>Four Class Committee Meetings Conducted | 03-03-2023<br>02-06-2023<br>20-07-2023<br>09-08-2023 |  |
| 11. | Board of Studies                                                       | 09-03-2023                                           |  |
| 12. | Board of Studies                                                       | 19-06-2023                                           |  |

**21. Infrastructure and Research facilities available (Please specify equipments more than TwoLakhs Only) :**

| S. No. | Name of the Lab | Name of the Equipments/Computer/Software/Others | Quantity | Purpose Research/Practical |
|--------|-----------------|-------------------------------------------------|----------|----------------------------|
| Nil    |                 |                                                 |          |                            |

**22. Extension activities carried out :**

| S. No. | Name of the Activity     | Beneficiaries | Date       | Venue                         |
|--------|--------------------------|---------------|------------|-------------------------------|
| 1      | Saplings                 | 53            | 17-09-2022 | Marine Engineering Department |
| 2.     | Guest Lecture            | 40            | 23-09-2022 | Marine Engineering Department |
| 3.     | Guest Lecture            | 19            | 19-10-2022 | Marine Engineering Department |
| 4.     | Maritime Day Celebration | 48            | 05-04-2023 | Marine Engineering Department |
| 5.     | Quiz Competition         | 18            | 05-04-2023 | Marine Engineering Department |
| 6.     | Paper Presentation       | 38            | 05-04-2023 | Marine Engineering Department |
| 7.     | Essay Competition        | 10            | 05-04-2023 | Marine Engineering Department |
| 8.     | Yoga                     | 48            | 07-05-2023 | Marine Engineering Department |

**23. Department Library/Learning Resources/ Information and Language Lab:**

Name of the Librarian or Faculty in-charge of the Library:

| S. No. | Particulars                         | Nos. | S. No. | Particulars                            | Nos. |
|--------|-------------------------------------|------|--------|----------------------------------------|------|
| 1      | No. of books available              | 870  | 7      | No. of titles available                | 230  |
| 2      | Books added during the year 2022-23 | Nil  | 8      | No. of CDs and Digital Books available | 70   |

| S. No. | Particulars                                                           | Nos. | S. No. | Particulars                                         | Nos. |
|--------|-----------------------------------------------------------------------|------|--------|-----------------------------------------------------|------|
| 3      | No. of Indian Journals/Magazines                                      | 360  | 9      | No. of Foreign Magazines/Journals                   | Nil  |
| 4      | No. of data bases available                                           | Nil  | 10     | No. of Online Journals                              | Nil  |
| 5      | Average No. of students visiting the Library per day                  | 02   | 11     | Average No. of books Issued per day                 | 1    |
|        |                                                                       |      | 12     | No. of digital books                                | Nil  |
| 6      | Availability of Internet (Specify the Capacity) (e.g. – 8 Mbps etc.,) | Nil  | 13     | Availability of Language Lab                        | Nil  |
|        |                                                                       |      | 14     | NDL membership<br>1. Faculty members<br>2. Students | Nil  |

#### 24. Information and Communication Technology Resources:

| S. No. | Name of the Equipment | Specifications | Nos. | S. No. | Name of the Equipment | Specifications | Nos. |
|--------|-----------------------|----------------|------|--------|-----------------------|----------------|------|
| Nil    |                       |                |      |        |                       |                |      |

24.Collaborative Researches : Nil

25.Consultancies : Nil

26.No. of NET/SET/GATE/CSIR Qualified students: Nil

27. MOUs signed :

| S.No | Date       | MoU signed with          | Number of Activities | Remarks |
|------|------------|--------------------------|----------------------|---------|
| 1.   | 15-03-2023 | JOTHI MARINE ENGINEERING | Nil                  |         |

28. Innovations and Best Practices : Nil

29. Academic Flexibility :

| S.No | Courses offered | Platform (MOOC, NPTEL, etc.) | No. Students enrolled | No. of Students Passed |
|------|-----------------|------------------------------|-----------------------|------------------------|
| Nil  |                 |                              |                       |                        |

## NAME OF THE DEPARTMENT: MATHEMATICS

### 1. Department Details :

|                                          |                                                                                                |  |
|------------------------------------------|------------------------------------------------------------------------------------------------|--|
| Name of the Faculty                      | <b>Faculty of Science and Humanities</b>                                                       |  |
| Name of the HOD, Phone No. and E-mail ID | <b>Dr. M. Immaculate Mary,</b><br>Phone No. : 9442006514<br>E-mail ID :<br>imma_arul@yahoo.com |  |
| Year of Establishment                    | <b>1989</b>                                                                                    |  |
| Telephone Number                         | 9442006514                                                                                     |  |
| Website / E mail                         | <b>nichemaths@yahoo.com</b>                                                                    |  |

### 2. Details of Faculty Members :

| S. No. | Name of the Faculty      | Qualification                     | Designation | Specialisation       | Experience in years |          | E-mail ID & Phone/Cell Phone No.                                                                             |
|--------|--------------------------|-----------------------------------|-------------|----------------------|---------------------|----------|--------------------------------------------------------------------------------------------------------------|
|        |                          |                                   |             |                      | Teaching            | Research |                                                                                                              |
| 1      | Dr.M.Immaculate Mary     | M.Sc., M.Phil, B.Ed, Ph.D.        | Prof. & HOD | Stochastic Processes | 29 Y<br>10 M        | 15 Y     | <a href="mailto:imma_arul@yahoo.com">imma_arul@yahoo.com</a><br>04652-279857<br>9442006514                   |
| 2      | Dr.P.B.Sarasija          | M.Sc., Ph.D.                      | Prof.       | Graph Theory         | 28y<br>4m           | 17Y      | <a href="mailto:sijavk@gmail.com">sijavk@gmail.com</a><br>04651-236160<br>9443002541                         |
| 3      | Dr.T.M.Selvarajan        | M.Sc., M.Phil, B.Ed, Ph.D.        | Asso. Prof. | Graph Theory         | 29y<br>8m           | 15Y      | <a href="mailto:selvarajan_26@yahoo.co.in">selvarajan_26@yahoo.co.in</a><br>9443844903<br>04651-252881       |
| 4      | Dr.S.Kumaresan           | M.Sc., M.Phil. Ph.D.              | Asso. Prof. | Operations Research  | 30y<br>10m          | 13Y      | <a href="mailto:suthanthiraabi@gmail.com">suthanthiraabi@gmail.com</a><br>04651-250298<br>9443993893         |
| 5      | Dr.K.Uma Samundesvari    | M.Sc.,M.Phil , PGDCA, Ph.D.       | Asso. Prof. | Graph Theory         | 25y                 | 13Y      | <a href="mailto:kus_krishna@yahoo.co.in">kus_krishna@yahoo.co.in</a><br>04652-275024<br>98940 71318          |
| 6      | Dr.P.Nageswari           | M.Sc.,M.Phil , PGDCA , Ph.D.      | Asst. Prof. | Graph Theory         | 20y                 | 12Y      | <a href="mailto:nageswari.kannan06@gmail.com">nageswari.kannan06@gmail.com</a><br>04651-261115<br>9677318713 |
| 7      | Dr.K.Uma Devi            | M.Sc.,B.Ed., M.Phil.,HDC A, Ph.D. | Asst. Prof. | Fuzzy Algebra        | 15y<br>6m           | 13Y      | <a href="mailto:devi.uma30@gmail.com">devi.uma30@gmail.com</a><br>9487659151                                 |
| 8      | Dr.D.Sheeba Singh        | M.Sc., M.Phil., Ph.D.             | Asst. Prof  | Stochastic Processes | 15y<br>3m           | 12Y      | <a href="mailto:dssheeba@gmail.com">dssheeba@gmail.com</a><br>9442606150                                     |
| 9      | Dr. M.Sudha              | M.Sc., M.Phil, B.Ed., Ph.D.       | Asst. Prof. | Graph Theory         | 14y<br>10m          | 9Y       | <a href="mailto:sudha.jeyakumar@yahoo.in">sudha.jeyakumar@yahoo.in</a><br>04651253339<br>9486962339          |
| 10     | Mr.G.Victor Jeya Chandra | M.Sc., M.Phil., B.Ed.             | Asst. Prof. | -                    | 15y<br>7m           | -        | <a href="mailto:victorieyacq@gmail.com">victorieyacq@gmail.com</a><br>9486757921                             |

| S. No. | Name of the Faculty  | Qualification              | Designation | Specialisation | Experience in years |          | E-mail ID &Phone/Cell Phone No.                                                          |
|--------|----------------------|----------------------------|-------------|----------------|---------------------|----------|------------------------------------------------------------------------------------------|
|        |                      |                            |             |                | Teaching            | Research |                                                                                          |
| 11     | Mrs.P.Jeba Sheeja    | M.Sc., M.Phil, B.Ed., Ph.D | Asst. Prof. | Graph Theory   | 14y 2m              | 6Y       | <a href="mailto:petersheeja10@gmail.com">petersheeja10@gmail.com</a><br>9655721162       |
| 12     | Dr.J.John Arul Singh | M.Sc., M.Phil, Ph.D.       | Asst. Prof. | Graph Theory   | 11y 1m              | 14Y      | <a href="mailto:arul_singh_maths@yahoo.com">arul_singh_maths@yahoo.com</a><br>9944509724 |
| 13     | Ms.C.Saranya         | M.Sc.M.Phil.               | T.A.        | -              | 6y                  | -        | <a href="mailto:csaranyap@gmail.com">csaranyap@gmail.com</a><br>9442309715               |

### 3. Faculty Members Achievements / Performance:

| S. No. | Name                     | h index |            | Publications |            | Citations |            | API   |            | M.Phil. awarded |            | Ph.D. awarded |            | Cumulative Scholars |       |
|--------|--------------------------|---------|------------|--------------|------------|-----------|------------|-------|------------|-----------------|------------|---------------|------------|---------------------|-------|
|        |                          | 22-23   | Cumulative | 22-23        | Cumulative | 22-23     | Cumulative | 22-23 | Cumulative | 22-23           | Cumulative | 22-23         | Cumulative | M. Phil             | Ph.D. |
| 1      | Dr.M.Immaculate Mary     | 2       | 2          | 1            | 15         | 11        | 11         | 130   | 690        | -               | 8          | -             | 1          | 8                   | 1     |
| 2      | Dr.P.B.Sarasija          | 6       | 6          | 1            | 41         | 133       | 133        | 180   | 1340       | -               | 7          | -             | 4          | 7                   | 4     |
| 3      | Dr.T.M.Selvarajan        | 2       | 2          | -            | 15         | 15        | 15         | 45    | 590        | -               | 8          | -             | -          | 8                   | 2     |
| 4      | Dr.S.Kumaresan           | -       | -          | -            | 3          | -         | -          | 45    | 450        | -               | 1          | -             | -          | 1                   | -     |
| 5      | Dr.K.Uma Samundesvari    | 4       | 4          | 1            | 20         | 30        | 30         | 230   | 957        | -               | 8          | -             | 2          | 8                   | 2     |
| 6      | Dr.P.Nageswari           | 2       | 2          | -            | 4          | 21        | 21         | 110   | 440        | -               | 5          | -             | -          | 5                   | -     |
| 7      | Dr.K.Uma Devi            | 2       | 2          | 1            | 11         | 36        | 36         | 80    | 410        | -               | 3          | -             | -          | 3                   | -     |
| 8      | Dr.Sheeba Singh          | 1       | 1          | 2            | 11         | 3         | 3          | 195   | 692        | 1               | 2          | -             | -          | 2                   | -     |
| 9      | Dr. M.Sudha              | 1       | 1          | 2            | 9          | 2         | 2          | 108   | 497        | -               | 3          | -             | -          | 3                   | 1     |
| 10     | Mr.G.Victor Jeya Chandra | -       | -          | -            | -          | -         | -          | 30    | 280        | -               | 1          | -             | -          | 1                   | -     |
| 11     | Dr.P.Jeba Sheeja         | -       | -          | -            | 2          | -         | -          | 40    | 186        | -               | 1          | -             | -          | 1                   | -     |
| 12     | Dr. J. John Arul Singh   | 3       | 3          | -            | 5          | 12        | 12         | 40    | 326        | 1               | 7          | -             | 1          | 7                   | 1     |

#### 4.. Research Schemes/Projects undertaken : Nil

| S. No. | Name of the Principal Investigator | Funding Agency | Title of the Project | Duration |    | Amount Rs. |
|--------|------------------------------------|----------------|----------------------|----------|----|------------|
|        |                                    |                |                      | From     | To |            |
| 1      |                                    |                |                      |          |    |            |

#### 5. a) Participation of the Faculty members presented papers in Congresses/Conferences/Seminars/Workshops,Symposia, etc.

| S. No. | Name of the Faculty     | Congress/Conference/Seminar /Workshop                                                                                                | Title of the paper                                                                   | Venue                                           | Period        |
|--------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------|---------------|
| 1      | Dr. M. Immaculate Mary  | International conference on Trends and Perspectives in Mathematics and Applied Mathematics 69-76                                     | Neutrosophic sets an extension of Fuzzy sets-An overview                             | Holy Cross College (Autonomous), Nagercoil      | 24,25-01-2023 |
|        | Dr. M. Immaculate Mary  | Emerging trends in mathematical sciences and applications. ICETMSA 2023.                                                             | Solving the sequencing problems with interval valued trapezoidal neutrosophic number | Department of Mathematics, NICHE                | 26.04.2023    |
|        | Dr. M. Immaculate Mary  | Emerging trends in mathematical sciences and applications. ICETMSA 2023.                                                             | Forecasting of gold price using fuzzy time series model                              | Department of Mathematics, NICHE                | 26.04.2023    |
| 2      | Dr. T. M. Selvarajan    | Emerging Trends in Mathematical Sciences and Applications, organized by Department of Mathematics, NICHE                             | Notes on Leech Trees                                                                 | Department of Mathematics, NICHE                | 26.04.2023    |
|        | Dr. T. M. Selvarajan    | International Conference on Emerging Trends in Mathematical Sciences and Applications, organized by Department of Mathematics, NICHE | On The Detour Global Domination Number of a Graph                                    | Department of Mathematics, NICHE                | 26.04.2023    |
| 3      | Dr. K. Uma Samundesvari | International Virtual Conference on Progress in Mathematics towards Industrial Applications on 28, 29 <sup>th</sup> of October 2022  | Total Domination in Single Valued Neutrosophic Graph                                 | SRM Institute of Technology, Ramapuram, Chennai | 29-10-2022    |
|        | Dr. K. Uma Samundesvari | Progress in Mathematics towards Industrial Applications                                                                              | Double Domination Integrity of Standard Graphs                                       | Holy Cross College (Autonomous), Nagercoil      | 29-10-2022    |

| S. No. | Name of the Faculty     | Congress/Conference/Seminar/Workshop                                                       | Title of the paper                                                               | Venue                                                                               | Period                               |
|--------|-------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|
|        | Dr. K. Uma Samundesvari | National Conference on Advances in Graph Theory                                            | Equitable Total Domination in Single Valued Neutrosophic Graph, Pg 62            | PG & Research Department of Mathematics, Malankara Catholic College, Kaliakkavilai  | 03-03-2023                           |
|        | Dr. K. Uma Samundesvari | International Conference on Trends and Prospectives in Mathematics and Applied Mathematics | Some Results on Double Domination Integrity of Graphs Pg – 85                    | PG & Research Department of Mathematics, Holy Cross College (Autonomous), Nagercoil | 24, 25 <sup>th</sup> of January 2023 |
|        | Dr. K. Uma Samundesvari | National Conference on Recent Trends in Algebra & Graph Theory,                            | Some Results on Total Domination in a Single Valued Neutrosophic Graph, Pg 71-79 | Nanjil Catholic College of Arts and Science, Kaliakkavilai                          | 17-02-2023                           |
|        | Dr. K. Uma Samundesvari | International Conference on Emerging Trends in Mathematical Sciences and Applications      | Total Domination in Inter valued Neutrosophic Graph                              | Department of Mathematics, NICHE                                                    | 26-04-2023                           |
|        | Dr. K. Uma Samundesvari | International Conference on Emerging Trends in Mathematical Sciences and Applications      | Zagreb Indices of Some Standard Graphs using Monophonic Domination Degree        | Department of Mathematics, NICHE                                                    | 26-04-2023                           |
|        | Dr. K. Uma Samundesvari | International Conference on Emerging Trends in Mathematical Sciences and Applications      | Double Domination Integrity of Some Families of Graphs                           | Department of Mathematics, NICHE                                                    | 26-04-2023                           |
| 4      | Dr. P. Nageswari        | International Conference on Emerging Trends Mathematical Sciences and Applications         | Cordial Labeling on Families of Squared cycle graph                              | Department of Mathematics, NICHE                                                    | 26.04.2023                           |
| 5      | Dr. K. Uma Devi         | Recent trends in Discrete and Applied Mathematics                                          | Intuitionistic fuzzy subgroups of study on $\alpha$ -Layer                       | St. Alphonsa college                                                                | 28-3-2023                            |
|        | Dr. K. Uma Devi         | International conference on Emerging trends in mathematical Science and Applications       | Product in Bipolar valued Fuzzy Subbigroups of a bigroup – Some Aspects          | Department of Mathematics, NICHE                                                    | 26.04.2023                           |

| S. No. | Name of the Faculty | Congress/Conference/Seminar/Workshop                                                | Title of the paper                                                                | Venue                            | Period                    |
|--------|---------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------|---------------------------|
| 6      | Dr. D. Sheeba Singh | Emerging Trends in Mathematical Sciences and Technology                             | Mathematical modeling of Covid-19                                                 | Department of Mathematics ,NICHE | 26.04.2023                |
|        | Dr. D. Sheeba Singh | Emerging Trends in Mathematical Sciences and Technology                             | Stochastic Modelling of Disease Transmission Predictions using Bayesian Inference | Department of Mathematics ,NICHE | 26.04.2023                |
|        | Dr. D. Sheeba Singh | Emerging Trends in Mathematical Sciences and Technology                             | A Markov Chain Modelling of Rainfall Occurrences of Tamil Nadu                    | Department of Mathematics ,NICHE | 26.04.2023                |
|        | Dr. D. Sheeba Singh | Emerging Trends in Mathematical Sciences and Technology                             | Markov Branching Process Model for the Covid-19 Outbreak                          | Department of Mathematics ,NICHE | 26.04.2023                |
|        | Dr. D. Sheeba Singh | Emerging Trends in Mathematical Sciences and Technology                             | Improved Financial Modified Gbm with Jump Diffusion and Bayesian Inference        | Department of Mathematics ,NICHE | 26.04.2023                |
|        | Dr. D. Sheeba Singh | Progress in mathematics towards Industrial Applications                             | ARIMA Model for Estimating Covid-19                                               | SRM University, Chennai          | 28.10.2022 and 29.10.2022 |
| 7      | C. Saranya          | International Conference on Emerging Trends in Mathematical Science and Application | Some Topological Indices Using Monophonic Domination Degree                       | Department of Mathematics, NICHE | 26.04.2023                |

**b) Foreign Faculty/Expert visit to the Department: Online**

| S. No. | Name & Designation         | Institute                                                                                           | Country | Duration                       | Purpose                                   |
|--------|----------------------------|-----------------------------------------------------------------------------------------------------|---------|--------------------------------|-------------------------------------------|
| 1      | Dr. Paul Manuel, Professor | Department of Information Science, College of Computing Science and Engineering, Kuwait University, | Kuwait  | 26 <sup>th</sup> of April 2023 | International Conference- Keynote address |

**6. Faculty acted as Chief Guest, Key note Speakers, Resource Person, Chair Person, External experts, etc. :**

| <b>S. No.</b> | <b>Name of the Faculty</b> | <b>Role</b>      | <b>Event</b>             | <b>Title</b>                                            | <b>Venue &amp; Date</b>                                                                                      |
|---------------|----------------------------|------------------|--------------------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>1</b>      | Dr. M. Immaculate Mary     | Resource Person  | Guest Lecture            | Stochastic Processes                                    | Department of Mathematics, M.S. University Post Graduate Extension Centre Vadasery, Nagercoil, on 17-04-2023 |
| <b>2</b>      | Dr.T.M.Selvarajan          | Conference Chair | International Conference | Emerging Trends in Mathematical Sciences and Technology | NICHE<br>26-04-2023                                                                                          |
| <b>3</b>      | Dr. K.Uma Samundesvari     | Resource Person  | Seminar                  | Application of Mathematics in Real Life                 | Women's Christian College Nagercoil K.K.District<br>12.05.2023                                               |
|               |                            | BoS Member       | -                        | -                                                       | Sadakabdhullaappa College, Tirunelveli<br>17-05-2023                                                         |
|               |                            | Conference Chair | International Conference | Emerging Trends in Mathematical Sciences and Technology | NICHE<br>26-04-2023                                                                                          |
| <b>4</b>      | Dr. D. Sheeba Singh        | Resource Person  | Workshop                 | Statistics, A Tool for Research                         | Noorul Islam College of Dental Sciences.<br>25.08.2022                                                       |
|               |                            | Conference Chair | International Conference | Emerging Trends in Mathematical Sciences and Technology | NICHE<br>26-04-2023                                                                                          |
| <b>5</b>      | Dr. M.Sudha                | Conference Chair | International Conference | Emerging Trends in Mathematical Sciences and Technology | NICHE<br>26-04-2023                                                                                          |
| <b>6</b>      | Dr.P.Jeba Sheeja           | Conference Chair | International Conference | Emerging Trends in Mathematical Sciences and Technology | NICHE<br>26-04-2023                                                                                          |
| <b>7</b>      | Dr. J. John Arul Singh     | Resource Person  | Guest Lecture            | Mathematics Through the                                 | Department of Mathematics,Sri                                                                                |

| S. No. | Name of the Faculty | Role                                           | Event                    | Title                                                               | Venue & Date                                                                                          |
|--------|---------------------|------------------------------------------------|--------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
|        |                     |                                                |                          | Mind's Eye                                                          | Paramakalyani College, Alwarkurichi, Tenkasi. 22-09-2022                                              |
|        |                     | Chairperson for the paper presentation session | International Conference | Trends and Perspectives in Mathematics and Applied Mathematics      | Department of Mathematics, Holy Cross College, Nagercoil. 24-01-2023 & 25-01-2023                     |
|        |                     | Resource person                                | National Conference      | Groups and Graphs-Recent Trends in Discrete and Applied Mathematics | Department of Mathematics, St Alphonsa College of Arts and Science, Soosaipuram, Karinkal. 28-03-2023 |
|        |                     | Conference Chair                               | International Conference | Emerging Trends in Mathematical Sciences and Technology             | NICHE 26-04-2023                                                                                      |

#### 7. Details of Seminars, Conferences and Refresher courses Organised :

| S. No. | Name of the Faculty    | Congress/Conference/Seminar/ Workshop/Symposia, etc. Organised                      | State/National/ International Level | Period     |
|--------|------------------------|-------------------------------------------------------------------------------------|-------------------------------------|------------|
| 1      | Dr. M. Immaculate Mary | International Conference on Emerging Trends in Mathematical Sciences and Technology | International Conference            | 26-04-2023 |

#### 8. Publication of Research Papers at the State/National/International Levels:

| S. No. | Author(s)         | Title of the paper                                                            | Journal with ISSN                                       | Volume No. Issue No. | Year of Publication | Page(pp)  |
|--------|-------------------|-------------------------------------------------------------------------------|---------------------------------------------------------|----------------------|---------------------|-----------|
| 1      | M.Immaculate Mary | Weighted Vertex PI Index and Polynomial of some Planar Graphs                 | Journal of Applied Mathematics and Statistical Analysis | Vol 2.               | 2023                | 1-7       |
| 2      | Sarasija P.B      | Small-World Networks with Unitary Cayley Graphs for Various Energy Generation | Computer Systems Science & Engineering                  |                      |                     |           |
| 3      | Uma Samundesvari, | Complete Cototal Roman                                                        | Computer Systems                                        | 45(3)                | Jan 2023            | 2405-2415 |

| S. No. | Author(s)                  | Title of the paper                                                                                   | Journal with ISSN                                                                        | Volume No. Issue No. | Year of Publication | Page(pp)    |
|--------|----------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------------|---------------------|-------------|
|        | K.                         | Domination Number of a Graph for User Preference Identification in Social Media                      | Science & Engineering                                                                    |                      |                     |             |
| 4      | M. Sudha                   | Arithmetic Odd Decomposition Of Graphs                                                               | <i>Journal of Applied Mathematics and Statistical Analysis</i>                           | Vol 4 Issue I        | 2023 (April)        | 8-13        |
| 5      | Sheena.K.P & K.Uma Devi    | Homomorphism on bipolar-valued fuzzy sub-bigroup of a bigroup for secured data transmission over WSN | Automatika:- Journal for Control, Measurement, Electronics, Computing and Communications | Vol 64 Issue 4       | 2023 (April)        | 956-963     |
| 6      | Lathika P & D.Sheeba Singh | A Modified Stochastic Model for Rainfall Prediction using Fuzzy Aquila Optimization                  | International journal of computational intelligence and applications                     | Vol 22 Issue I       | 2023 (July)         |             |
| 7      | Lathika P & D.Sheeba Singh | A Novel model for rainfall Prediction using hybrid Stochastic based Bayesian optimization algorithm  | Environmental Science and Population research                                            | Vol 30               | 2023 (July)         | 92555-92567 |

#### 9. Details of patents applied/awarded: Nil

| S.No. | Name of the Faculty | Title | Date of filling | Application No. | Sanctioned No. |
|-------|---------------------|-------|-----------------|-----------------|----------------|
|       |                     |       |                 |                 |                |

#### 10. Publications of Books/Monographs: Nil

| S. No. | Author(s) | Name of the Book with ISBN | Publisher/Place | Year |
|--------|-----------|----------------------------|-----------------|------|
| 1      |           |                            |                 |      |

### 11. Courses offered, Sanctioned Strength of Students and Enrolment details:

| S. NO. | Name of the Programme / Branch of study | Sanct ioned Stren gth | Enrolment during 2022-23 |    | Total | Community |   |    |   |     |   |          |   |    |   |     |   |    |   | Existing Students, Strength |     |     |     |    |     | Pass Percenta ge of out going batch |
|--------|-----------------------------------------|-----------------------|--------------------------|----|-------|-----------|---|----|---|-----|---|----------|---|----|---|-----|---|----|---|-----------------------------|-----|-----|-----|----|-----|-------------------------------------|
|        |                                         |                       | F                        | M  |       | OC        |   | BC |   | BCM |   | MBC/ DNC |   | SC |   | SCA |   | ST |   | II                          |     | III |     | IV |     |                                     |
|        |                                         |                       |                          |    |       | M         | F | M  | F | M   | F | M        | F | M  | F | M   | F | M  | F | M                           | F   | M   | F   | M  | F   |                                     |
|        | UG Programme                            | -                     | -                        | -  | -     | -         | - | -  | - | -   | - | -        | - | -  | - | -   | - | -  | - | -                           | -   | -   | -   | -  | -   | -                                   |
|        | PG Courses                              | 25                    | 01                       | 01 | 02    | -         | - | 1  | 1 | -   | - | -        | - | -  | - | -   | - | -  | - | -                           | 3   | -   | -   | -  | -   | 100                                 |
|        | M.Phil. Programme                       | -                     | -                        | -  |       | -         | - | -  | - | -   | - | -        | - | -  | - | -   | - | -  | - | -                           | -   | -   | -   | -  | -   | -                                   |
|        | Ph.D Programme                          |                       | 08                       | 01 | 09    |           | 3 | 1  | 4 | -   | - | -        | - | -  | 1 |     |   |    |   | -                           | 0 3 | -   | 0 3 | -  | 0 2 |                                     |
|        | Diploma Certificate Courses (if any)    | -                     | -                        | -  | -     | -         | - | -  | - | -   | - | -        | - | -  | - | -   | - | -  | - | -                           | -   | -   | -   | -  | -   | -                                   |
|        | MOOC/NPTEL/UGC online courses offered   | -                     | -                        | -  | -     | -         | - | -  | - | -   | - | -        | - | -  | - | -   | - | -  | - | -                           | -   | -   | -   | -  | -   | -                                   |
|        | Total                                   | 25                    | 09                       | 02 | 11    | -         | 3 | 2  | 5 | -   | - | -        | - | -  | 1 | -   | - | -  | - | -                           | 6   | -   | 3   | -  | 2   |                                     |

**12. Enrolment of Students from Overseas and other States:**

| S. No. | Degree and Subject | Nationality | State  | Number of Students |        | Total |
|--------|--------------------|-------------|--------|--------------------|--------|-------|
|        |                    |             |        | Male               | Female |       |
| 1      | Ph.D               | Indian      | Kerela | -                  | 03     | 03    |

**13. P.G. and Research degrees awarded:**

| S. No | UG |       | P.G. |       | M. Phil. |    |       | Ph.D. |    |       |
|-------|----|-------|------|-------|----------|----|-------|-------|----|-------|
|       |    | Total |      | Total | FT       | PT | Total | FT    | PT | Total |
| 1.    | -  | -     | -    | 03    | -        |    | -     | 01    | 01 | 02    |

**14. Fellowships Awarded (National/International) Faculty/Students Stipend awarded :NIL**

| S. No. | Agency            | Position<br>(URF/JRF/SRF/RA/<br>others) | Number of Fellowships |    | Total |
|--------|-------------------|-----------------------------------------|-----------------------|----|-------|
|        |                   |                                         | M                     | F  |       |
| 1      | NICHE- University | Research Scholars                       |                       | 02 | 02    |

**15.Scholarships Awarded: NIL**

| S. No. | Nature of Scholarship                        | P.G. |   | M.Phil. |   | Ph.D. |   | Total Amount Rs. |
|--------|----------------------------------------------|------|---|---------|---|-------|---|------------------|
|        |                                              | M    | F | M       | F | M     | F |                  |
| 1      | B.C.(State)                                  |      |   |         |   |       |   |                  |
| 2      | B.C.M.(State)                                |      |   |         |   |       |   |                  |
| 3      | M.B.C./D.N.C.(State)                         |      |   |         |   |       |   |                  |
| 4      | SC/SCA/ST(National)                          |      |   |         |   |       |   |                  |
| 5      | SC/SCA/ST(State)                             |      |   |         |   |       |   |                  |
| 6      | First Generation Free Education              |      |   |         |   |       |   |                  |
| 7      | Loan Scholarship                             |      |   |         |   |       |   |                  |
| 8      | Moovalur Ramamirtham Ammaiyar Scheme         |      |   |         |   |       |   |                  |
| 8      | Others (Specify the name of the scholarship) |      |   |         |   |       |   |                  |
|        | National Scholarship                         |      |   |         |   |       |   |                  |
| 9      | NICHE- University Scholarship                |      |   |         |   |       |   |                  |
|        | Total                                        |      |   |         |   |       |   |                  |

**16. Performance of the Students :**

| S. No | Course | S1   |      | S2   |      | S3   |      | S4   |      |
|-------|--------|------|------|------|------|------|------|------|------|
|       |        | App. | Pass | App. | Pass | App. | Pass | App. | Pass |
| 1.    | M.Sc.  | 02   | 01   | 01   | 01   | 03   | 02   | 03   | 03   |

**17. Placement Details:Nil**

| Name of the Placement co-ordinator : Dr. J. John Arul Singh |                                                        |                            |        |
|-------------------------------------------------------------|--------------------------------------------------------|----------------------------|--------|
| Phone/Mobile Number :e-mail:                                |                                                        |                            |        |
| Number of Placement Programmes:-                            |                                                        |                            |        |
| S. No.                                                      | Particulars                                            | Numbers of students placed |        |
|                                                             |                                                        | Male                       | Female |
| 1                                                           | Number of Students Placed                              | 2                          | 1      |
| 2                                                           | Number of Placements obtained through Campus Interview | -                          | -      |

|   |                                                                               |   |   |
|---|-------------------------------------------------------------------------------|---|---|
| 3 | Ratio of Placement to Students (Total no of Placement / Total no of Students) | - | - |
|---|-------------------------------------------------------------------------------|---|---|

#### 18. Outstanding achievements by the Faculty Members:

| S. No. | Name of the Faculty | Achievements   | Agency           |
|--------|---------------------|----------------|------------------|
| 1      | Dr. P. Jeba Sheeja  | Ph. D. awarded | MSU, Tirunelveli |

#### 19. Outstanding achievements by Students: Nil

| S.No. | Name of the Student | Achievements | Agency |
|-------|---------------------|--------------|--------|
|       |                     |              |        |

#### 20. Department Meetings Held : BOS, Progame Committee, Course Committee etc.

| S.No | Name              | Date          |            |            |            |
|------|-------------------|---------------|------------|------------|------------|
| 1    | BOS               | 28-02-2023    | 19-06-2023 |            |            |
| 2    | Progame Committee | I M.Sc. Odd   | 16-11-2022 | 12-12-2022 | 03-02-2023 |
|      |                   | Even          | 05-04-2023 | 12-05-2023 | 21-06-2023 |
|      |                   | II M.Sc.- Odd | 12-08-2022 | 19-09-2022 | 30-10-2022 |
|      |                   | Even          | 01-02-2023 | 10-03-2023 | 20-04-2023 |
| 3    | Class Committee   | I M.Sc. – Odd | 25-11-2022 | 22-12-2022 | 10-02-2023 |
|      |                   | Even          | 19-04-2023 | 23-05-2023 | 27-06-2023 |
|      |                   | II M.Sc.- Odd | 26-08-2022 | 30-09-2022 | 11-11-2022 |
|      |                   | Even          | 13-02-2023 | 28-03-2023 | 28-04-2023 |
| 4    | Course Committee  | I BE MA3101   | 20-08-2022 | 20-09-2022 | 05-11-2022 |
|      |                   | I BE MA3102   | 31-03-2023 | 18-04-2023 | 27-05-2023 |
|      |                   | S3 BE MA3201  | 12-08-2022 | 26-09-2022 | 07-11-2022 |
|      |                   | S4 BE MA3203  | 10-01-2023 | 06-03-2023 | 18-04-2023 |
|      |                   | S4 BE MA3207  | 10-01-2023 | 06-03-2023 | 17-04-2023 |

#### 21. Infrastructure and Research facilities available (Please specify equipments more than TwoLakhs Only) : NIL

| S. No. | Name of the Lab | Name of the Equipments/Computer/Software/Others | Quantity | Purpose Research/Practical |
|--------|-----------------|-------------------------------------------------|----------|----------------------------|
|        |                 |                                                 |          |                            |

#### 22. Extension activities carried out :

| S. No. | Name of the Activity           | Beneficiaries         | Date       | Venue                                                                         |
|--------|--------------------------------|-----------------------|------------|-------------------------------------------------------------------------------|
| 1      | Mathematics Literacy Programme | Govt. School Children | 31-01-2023 | Government Primary School, Muttaiakadu and S.K.V. Middle School, Muttaiakadu, |

#### 23. Department Library/Learning Resources/ Information and Language Lab:

Name of the Librarian or Faculty in-charge of the Library:

| S. No. | Particulars                         | Nos. | S. No. | Particulars                            | Nos. |
|--------|-------------------------------------|------|--------|----------------------------------------|------|
| 1      | No. of books available              | 1121 | 7      | No. of titles available                | 305  |
| 2      | Books added during the year 2022-23 | 10   | 8      | No. of CDs and Digital Books available | 10   |

| S. No. | Particulars                                                          | Nos. | S. No. | Particulars                                         | Nos.    |
|--------|----------------------------------------------------------------------|------|--------|-----------------------------------------------------|---------|
| 3      | No. of Indian Journals/Magazines                                     | 2    | 9      | No. of Foreign Magazines/Journals                   | 0       |
| 4      | No. of data bases available                                          | 0    | 10     | No. of Online Journals                              | 0       |
| 5      | Average No. of students visiting the Library per day                 | 0-2  | 11     | Average No. of books Issued per day                 | 0-2     |
| 6      | Availability of Internet (Specify the Capacity) (e.g. – 8 Mbps etc.) | 0    | 12     | Availability of Language Lab                        | -       |
|        |                                                                      |      | 13     | NDL membership<br>1. Faculty members<br>2. Students | 12<br>- |

#### 24. Information and Communication Technology Resources: NA

| S. No. | Name of the Equipment | Specifications | Nos. | S. No. | Name of the Equipment | Specifications | Nos. |
|--------|-----------------------|----------------|------|--------|-----------------------|----------------|------|
|        |                       |                |      |        |                       |                |      |

24.Collaborative Researches : Nil

#### 25.Consultancies

| S.No. | Type of Consultancy                                                                      | Client Details                                 | Amount Received |
|-------|------------------------------------------------------------------------------------------|------------------------------------------------|-----------------|
| 1.    | L.V. Press and Appu Cards,<br>Palace Road,<br>Thuckalay<br>629 175<br>Mobile :9486756665 | LaTeX Typing for thesis &<br>Research articles | Rs.6000/-       |

26.No. of NET/SET/GATE/CSIR Qualified students: Nil

27. MOUs signed : Nil

28. Innovations and Best Practices :

29. Academic Flexibility : Nil

| S.No | Courses offered | Platform (MOOC, NPTEL, etc.) | No. Students enrolled | No. of Students Passed |
|------|-----------------|------------------------------|-----------------------|------------------------|
|      |                 |                              |                       |                        |

## NAME OF THE DEPARTMENT : MECHANICAL ENGINEERING

### 1. Department Details :

|                                          |                                                  |
|------------------------------------------|--------------------------------------------------|
| Name of the Faculty                      | Mechanical Engineering                           |
| Name of the HoD, Phone No. and E-mail ID | Dr.R.Rajesh,9486856128,<br>rajesh2009@niuniv.com |
| Year of Establishment                    | 1996                                             |
| Telephone Number                         | 9486856128                                       |
| Website / E mail                         | www.niumechanical.com/rajesh2009@niuniv.com      |

### 2. Details of Faculty Members :

| S. No. | Name of the Faculty     | Qualification | Designation                     | Specialisation                                     | Experience in years |          | E-mail ID &Phone/Cell Phone No.                                                              |
|--------|-------------------------|---------------|---------------------------------|----------------------------------------------------|---------------------|----------|----------------------------------------------------------------------------------------------|
|        |                         |               |                                 |                                                    | Teaching            | Research |                                                                                              |
| 1.     | Dr.M.DevAnand           | ME, MBA,Ph.D  | Professor & Director (Research) | Intelligent Robotics                               | 20                  | 17       | anandpmt@hotmail.com<br>9486758653                                                           |
| 2.     | Dr.G.M. Joselin Herbert | ME,Ph.D       | Professor                       | Thermal Engineering                                | 22                  | 15       | <a href="mailto:joselindev@yahoo.com">joselindev@yahoo.com</a><br>9442381611                 |
| 3.     | Dr.N.Ramasamy           | ME,Ph.D       | Professor                       | Engg. Design                                       | 36                  | 11       | nramasamy2002@yahoo.com<br>9486085018                                                        |
| 4.     | Dr.R.Rajesh             | ME,Ph.D       | Associate Professor             | Manufacturing Engineering                          | 15                  | 11       | rajesh200345@yahoo.com<br>9488882073                                                         |
| 5.     | Dr.S.Raja               | ME            | Assistant Professor             | CIM                                                | 16                  | 9        | raja@niuniv.com<br>9442177584                                                                |
| 6.     | Dr.P.Jerold Jose        | ME,Ph.D       | Assistant Professor             | Welding technology                                 | 13                  | 9        | jeroldjose@yahoo.co.in<br>9003989637                                                         |
| 7.     | Dr.R.RameshPalappan     | M.E,Ph.D      | Assistant Professor             | Energy engineering & Management,Thermal Power Engg | 22                  | 9        | rrpalappan@gmail.com<br>9486011477                                                           |
| 8.     | Mr.A.Unni Krishnan      | ME            | Assistant Professor             | Thermal Engineering                                | 21                  | 9        | <a href="mailto:unnikrishnan230575@gmail.com">unnikrishnan230575@gmail.com</a><br>9486270797 |
| 9.     | Dr.T.JudsonDurai        | ME,Ph.D       | Assistant Professor             | Manufacturing Engineering                          | 13                  | 8        | <a href="mailto:judsondurai@yahoo.in">judsondurai@yahoo.in</a><br>9962708310                 |
| 10.    | Mr. Dinesh R            | ME            | Assistant Professor             | Automobile                                         | 5                   | 4        | <a href="mailto:dineshrock26@gmail.com">dineshrock26@gmail.com</a><br>8098494968             |
| 11.    | Mr. R Rabin             | ME            | Assistant Professor             | Manufacturing Engineering                          | 5                   | -        | <a href="mailto:rabinshbin@gmail.com">rabinshbin@gmail.com</a><br>8883259982                 |
| 12.    | Mr. Berlin Push. P      | ME            | Assistant Professor             | Thermal Engineering                                | 2                   | -        | berlinpush12@gmail.com<br>8807733139                                                         |

|     |                     |    |                     |                     |   |   |                                       |
|-----|---------------------|----|---------------------|---------------------|---|---|---------------------------------------|
| 13. | Mr. Shalom. N       | ME | Assistant Professor | Thermal Engineering | 2 | - | shalomshalu99@gmail.com<br>8438862534 |
| 14. | Mr. AniverChanth. R | ME | Assistant Professor | CAD                 | 2 | - | aniashika1@gmail.com<br>7339163703    |

### 3. Faculty Members Achievements /Performance:

| S. No. | Name                    | h index |            | Publications |            | Citations |            | API   |            | Ph.D. awarded |            |
|--------|-------------------------|---------|------------|--------------|------------|-----------|------------|-------|------------|---------------|------------|
|        |                         | 22-23   | Cumulative | 22-23        | Cumulative | 22-23     | Cumulative | 22-23 | Cumulative | 22-23         | Cumulative |
| 1.     | Dr.M.DevAnand           |         | 18         |              | 11         |           | 1363       | 600   | 1153       |               | 7          |
| 2.     | Dr.G.M. Joselin Herbert |         | 9          |              | 4          |           | 2200       | 527   | 1861       |               | 3          |
| 3.     | Dr.N.Ramasaamy          |         | 13         |              | 2          |           | 76         | 356   | 1258       |               | -          |
| 4.     | Dr.R.Rajesh             |         | 119        |              | 2          |           | 115        | 280   | 946        | 3             | 3          |
| 5.     | Dr.S.Raja               |         | 7          |              | 5          |           | 149        | 345   | 865        |               | -          |
| 6.     | Dr.P.Jerold Jose        |         | 3          |              | 1          |           | 156        | 400   | 850        |               | -          |
| 7.     | Dr.R.Ramesh Palappan    |         | 1          |              | 2          |           | 115        | 345   | 765        |               | -          |
| 8.     | Mr.A.Unni Krishnan      |         | 2          |              | 4          |           | 217        | 214   | 635        |               | -          |
| 9.     | Dr.T.JudsonDurai        |         | 1          |              | 5          |           | -          | 186   | 564        |               | -          |
| 10.    | Mr. Dinesh R            |         | -          |              | -          |           | -          | 175   | 432        |               | -          |
| 11.    | Mr. R Rabin             |         | -          |              | -          |           | -          | 419   | 632        |               | -          |
| 12.    | Mr. Berlin Push. P      |         | -          |              | -          |           | -          | 186   | 186        |               | -          |
| 13.    | Mr. Shalom. N           |         | -          |              | -          |           | -          | 178   | 178        |               | -          |
| 14.    | Mr. AniverChanth. R     |         | -          |              | -          |           | -          | 170   | 170        |               | -          |

### 4.. Research Schemes/Projects undertaken :

| S. No. | Name of the Principal Investigator | Funding Agency | Title of the Project                                                                  | Duration |      | Amount Rs. |
|--------|------------------------------------|----------------|---------------------------------------------------------------------------------------|----------|------|------------|
|        |                                    |                |                                                                                       | From     | To   |            |
| 1      | DR.UNNIKRISHNAN                    | SERB           | Production Of Organic Fertilizer Using Natural Plant Litter And Bio Waste (Submitted) | 2022     | 2023 | 1821600    |
| 2      | DR.R.RAJESH                        | SERB           | Application Of Digital Twin Technology In Additive                                    | 2022     | 2023 | 110500     |

|   |                         |       |                                                                                                                                                           |      |      |         |
|---|-------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|---------|
|   |                         |       | Manufacturing Of Orthopedic Implant(Submitted)                                                                                                            |      |      |         |
| 3 | DR.G.M.JOS ELIN HERBERT | SUPRA | Experimental performance investigation of parabolic trough collector using Al <sub>2</sub> O <sub>3</sub> -zno mwcnt based ternary nano fluid (Submitted) | 2022 | 2022 | 3105400 |

**5. a) Participation of the Faculty members, presentation of papers in Congresses/Conferences/Seminars/Workshops, Symposia, etc.**

| S. No. | Name of the Faculty     | Congress/Conference/ Seminar /Workshop and Venue | Title of the paper                                                                                                                                                                                                                                                                                                                                                                           | Date       |
|--------|-------------------------|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 1      | Dr.G.M. Joselin Herbert | International Conference (ICRAET )               | (1) Design and fabrication of parabolic solar trough collector<br>(2) Comparative investigations of different airfoils compare the flow characteristics by using cfd methods                                                                                                                                                                                                                 | 23/05/2023 |
| 2      | Dr.N.Ramasamy           | International Conference (ICRAET )               | (1) Design and fabrication of solar water heater<br>(2) Analysis and manufacturing of bioplastic materials using discard agro-wastes<br>(3) Fabrication of pneumatic pick and place robot .                                                                                                                                                                                                  | 23/05/2023 |
| 3      | Dr.R.Rajesh             | International Conference (ICRAET )               | 1.Fabrication and performance analysis of ceramic-polymer heatsink module via 3d printing technique<br>2.Development of optimal edm machining model for aisi 1020 steel material using sea lion optimization<br>3.Mechanical properties of al-6061 alloy integrated with titanium carbide by stir casting process improvements to dse dm process parameters for aluminium composite material | 23/05/2023 |
| 4      | Dr.S.Raja               | International Conference (ICRAET )               | 1.Design and fabrication of automatic rod-bending machine<br>2.Effect of alkalization and fibre loading on mechanical, thermal, surface morphological properties of musa acuminate peduncles fibre reinforced epoxy composite<br>3.Design and analysis of industrial ball valve using cfd                                                                                                    | 23/05/2023 |

| S. No. | Name of the Faculty | Congress/Conference/ Seminar /Workshop and Venue                                      | Title of the paper                                                                                                                                                                                                               | Date                     |
|--------|---------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| 5      | Dr.P.Jerold Jose    | Work shop                                                                             | Machine learning                                                                                                                                                                                                                 | 23/05/2023               |
| 6      | Dr.R.RameshPalappan | Work shop                                                                             | Machine learning                                                                                                                                                                                                                 | 23/05/2023               |
| 7      | Mr.A.Unni Krishnan  | Work shop                                                                             | Machine learning                                                                                                                                                                                                                 | 23/05/2023               |
| 8      | Dr.T.JudsonDurai    | Work shop                                                                             | Machine learning                                                                                                                                                                                                                 | 23/05/2023               |
| 9      | Mr. Dinesh R        | Work shop                                                                             | Machine learning                                                                                                                                                                                                                 | 23/05/2023               |
| 10     | Mr. R Rabin         | International Conference (ICRAET )                                                    | (1) Design and fabrication of fire fighting robo.<br>(2) Performance prediction of centrifugal pump impeller by using computational fluid dynamics<br>(3) Stress and deflection analysis of horizontal pressure vessel using fem | 23/05/2023               |
| 11     | Mr. Berlin Push. P  | International Conference (ICRAET )                                                    | Design and fabrication of solar agricultural water pumping system                                                                                                                                                                | 23/05/2023               |
| 12     | Mr. Shalom. N       | International Conference (ICRAET )                                                    | Automatic distance measurement and braking system by using ultrasonic waves                                                                                                                                                      | 23/05/2023               |
| 13     | Mr. AniverChanth. R | International Conference (ICRAET )                                                    | Investigation on mechanical and water absorption properties of chemical treated agro-waste reinforcement in epoxy composite                                                                                                      | 23/05/2023               |
| 14     | Dr. N. Rama Swamy   | International conference on circuit power and computing technologies                  | TI-Weigh at Magnetic Resonance imaging for automatic stroke lesion segmentation                                                                                                                                                  | 10,11/08/2023            |
| 16     | Dr. N. Rama Swamy   | International conference Recent Advances in Electronics and Communication Engineering | An approach through AI, ML and DL                                                                                                                                                                                                | 21-26/08/2023            |
| 19     | Dr A UnniKishnan    | FDP                                                                                   | Training Programme on Indian Knowledge system                                                                                                                                                                                    | 21-08-2023 to 26/08/2023 |
| 20     | Dr.S.Raja           | FDP                                                                                   | Eduaction 5.0                                                                                                                                                                                                                    | 15-05-2023 to 19-05-2023 |
| 21     | Dr.S.Raja           | FDP                                                                                   | Innovative and emerging thrust areas of civil and mechanical engineering                                                                                                                                                         | 11-02-2023 to 17-02-2023 |
| 22     | Dr.S.Raja           | FDP                                                                                   | Research toolbox reloaded                                                                                                                                                                                                        | 21-08-2023 to 25-08-2023 |
| 23     | Dr.S.Raja           | FDP                                                                                   | Blooms Taxonomy in teaching and learning                                                                                                                                                                                         | 16-02-2023               |
| 24     | Dr.S.Raja           | Work shop                                                                             | Machine learning                                                                                                                                                                                                                 | 23/05/2023               |

**b) Foreign Faculty/Expert visit to the Department:**

| <b>S. No.</b> | <b>Name &amp; Designation</b> | <b>Institute</b>                                                                                                                 | <b>Country</b> | <b>Duration</b> | <b>Purpose</b>                                                                                  |
|---------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------|-------------------------------------------------------------------------------------------------|
| 1             | George Leo T ,                | Activity Manager,CAD Centre ,Vadasery                                                                                            | India          | 30-08-2022      | Workshop-modern trends in design process in Mechanical Engineering.                             |
| 2             | Dr. S R Devadasan ,           | Professor, P S G Tech, Production Engineering Department. Coinbatore.                                                            | India          | 12-09-2022      | Guest Lecture on Knowledge Processing Through Paper Presentation and presentation in conference |
| 3             | Shri. A R Hasan Ali           | Assistant Executive Engineer, National Institute of Wind Energy (NIWE).                                                          | India          | 22-09-2022      | FAME-Inauguration Function                                                                      |
| 4             | Shri. A Sudharsana Kumar      | Assistant General Manager, MIS and Safty vigilance Officer, IRE, Manavalakurichi                                                 | India          | 11-01-2023      | FAME-Inauguration Function                                                                      |
| 5             | Shri A Prasad                 | Assistant General Manager, HRM, IRE, Manavalakurichi                                                                             | India          | 11-01-2023      | FAME-Inauguration Function                                                                      |
| 6             | Shri Krishnanandhan           | Assistant Director, LPSC Thiruvananthapuram                                                                                      | India          | 11-01-2023      | FAME-Inauguration Function                                                                      |
| 7             | Dr. K Leo Dev Wins,           | Professor, Department of Mechanical Engineering, Karunya Institute of Technology and sciences, Karunya Nagar, Coinbatore-641 114 | India          | 21-01-2023      | Guest Lecture on Tribology in Medical and Industrial Applications                               |
| 8             | Dr..S Poornima,               | EDII-Master Trainer, Assistant Professor, Department of Biotechnology, Noorul Islam College for Arts and Science, Kumaracoil,    | India          | 30-01-2023      | Guest Lecture on Innovation                                                                     |
| 9             | C. Rajasekhar,                | Executive Engineer, Wind Farm Project, Non-Conventional Energy Sources, TANGEDCO/ Tirunelveli.                                   | India          | 20-02-2023      | Inauguration of Energy Club                                                                     |

| S. No. | Name & Designation       | Institute                                                                           | Country | Duration   | Purpose                                                                   |
|--------|--------------------------|-------------------------------------------------------------------------------------|---------|------------|---------------------------------------------------------------------------|
| 10     | Er.W.Balan, Deputy       | General Manager, Dalmia wind farm                                                   | India   | 23-02-2023 | Workshop on Robotics, CNC and 3D Printing                                 |
| 11     | Er. Yadhu Krishnan,      | P& G Manufacturing Industries (Solar Installations) Trivandrum-695 304, Kerala      | India   | 06-03-2023 | Workshop on Role of Energy                                                |
| 12     | Mr. Nazeeb Nazar,        | Nebosh Level 6, Director Knowit Edu.India Pvt.Ltd.Kochi ,Kerala                     | India   | 29-03-2023 | Career guidance and Placement Drive Training Programme                    |
| 13     | Mr Althaf Zakeer,        | HSE Trainer, Knowit Edu.India Pvt.Ltd.Kochi , Kerala                                | India   | 29-03-2023 | Career guidance and Placement Drive Training Programme                    |
| 14     | Dr .S P Anbuudayasankar, | Professor, Dept.of Mechanical Engineering, Guru Ghasidas Vishwa Vidyalaya, Bilaspur | India   | 05-04-2023 | Guest Lecture-Supply Chain and it's optimization                          |
| 15     | Mr A V Ratheesh Kumar    | (2002-2006),B .E Mechanical Engineering, Managing Partner, Vijaya Fish Net          | India   | 13-04-2023 | Alumini Interaction                                                       |
| 16     | Shri M S Suresh ,        | Project Director, Kudankulam Nuclear Power Project                                  | India   | 20-04-2023 | International Conference on Recent Advances in Engineering and Technology |

**6. Faculty acted as Chief Guest, Key note Speakers, Resource Person, Chair Person, External experts, etc. :**

| S. No. | Name of the Faculty member | Role                                                  | Event                    | Title                                                                              | Venue & Date                                                        |
|--------|----------------------------|-------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 1      | Raja                       | Resource Person                                       | FDP                      | Tricks and Techniques for research article and thesis writing using modern e tools | Baselious MathewsII college of engineering, Sasthamcotta & 02/08/23 |
| 2      | Raja                       | Technical Chair                                       | International conference | Material science and computational Engineering                                     | Baselious MathewsII college of engineering, Sasthamcotta & 18/11/22 |
| 3      | Raja                       | Advisory member for mechanical engineering Department | DAB meeting              | Deaprtment activities and review on course outcomes                                | Baselious MathewsII college of engineering, Sasthamcotta & 30/01/23 |

## 7. Details of Seminars, Conferences, Refresher courses, Webminars Organised:

| S. No. | Name of the Faculty member | Congress/Conference/Seminar/ Workshop/Symposia , Webmniars etc. organised                       | State/National/ International Level | Date                          |
|--------|----------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------|
| 1      | Dr .A Unni Krishnan        | Independence Day celebration                                                                    | National Level                      | 12-08-2022                    |
| 2      | Dr.R Raja                  | Workshop- modern trends in design process in Mechanical Engineering.                            | National Level                      | 30-08-2022                    |
| 3      | Dr .R Ramesh Palappan      | Onam celebration                                                                                | National Level                      | 05--09-2022                   |
| 4      | Dr .A Unni Krishnan        | Guest Lecture on Knowledge Processing Through Paper Presentation and presentation in conference | National Level                      | 12-09-2022                    |
| 5      | Dr .A Unni Krishnan        | FAME-Inauguration Function                                                                      | National Level                      | 22-09-2022                    |
| 6      | Dr .A Unni Krishnan        | Blood Donation Camp                                                                             | National Level                      | 10-11-2022                    |
| 7      | Dr .R Ramesh Palappan      | Symposium -Mechotorque-2K23                                                                     | National Level                      | 11-01-2023<br>&<br>12-01-2023 |
| 8      | Dr .A Unni Krishnan        | Guest Lecture on Tribology in Medical and Industrial Applications                               | National Level                      | 21-01-2023                    |
| 9      | Dr .A Unni Krishnan        | Guest Lecture on Innovation                                                                     | National Level                      | 30-01-2023                    |
| 10     | Prof.P. Berlin Push        | Inauguration of Energy Club                                                                     | National Level                      | 20-02-2023                    |
| 11     | Dr R Raja                  | Workshop on Robotics, CNC and 3D Printing                                                       | National Level                      | 23-02-2023                    |
| 12     | Prof .P.Berlin Push        | Workshop on Role of Energy                                                                      | National Level                      | 06-03-2023                    |
| 13     | Prof.K Eqbert              | Career guidance and Placement Drive Training Programme                                          | National Level                      | 29-03-2023                    |
| 14     | Dr .A Unni Krishnan        | Guest Lecture-Supply Chain and it's optimization                                                | National Level                      | 05-04-2023                    |
| 15     | Dr R Raja                  | Alumini Interaction                                                                             | National Level                      | 13-04-2023                    |
| 16     | Dr R Raja                  | International Conference on Recent Advances in Engineering and Technology                       | International Level                 | 20-04-2023                    |

## 8. Publication of Research Papers at the State/National/International Levels:

| S. No. | Author(s)      | Title of the paper                                                                | Journal with ISSN/Scopus/ SCI/UGC care | Volume No. Issue No. | Year of Publication | Page (pp) |
|--------|----------------|-----------------------------------------------------------------------------------|----------------------------------------|----------------------|---------------------|-----------|
| 1      | Dr.M.Dev Anand | Weld Defect Classification Using Multi Level Featured Unified Deep Neural Network | Scopus                                 | 2813-6               | 2023                | 567-575   |

|   |                         |                                                                                                                                                                                 |            |               |      |               |
|---|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------|------|---------------|
|   |                         |                                                                                                                                                                                 |            |               |      |               |
|   |                         | Optimization-Based Hybrid Intelligent Model For Decision Making On Electrical Discharge Machining (Edm) Process Of A6061/6%B <sub>4</sub> C And A6061/9%SiC Composite Materials | Scopus     | 54:6, 836-858 | 2023 | 1-12          |
|   |                         | Deep Learning-Based Weld Defect Classification Using Vgg16 Transfer Learning Adaptive Fine-Tuning.                                                                              | SCI Scopus | 58:6          | 2023 | 499-509       |
|   |                         | Laser Beam Welded Aluminum-Titanium Dissimilar Sheet Metals: Neural Network Based Strength And Hardness Prediction Model                                                        | Scopus     | 66-5          | 2023 | 1053-1068     |
|   |                         | <u>Employing Aluminum Matrix Composite For Stir Casting Process For Investigating The Performance Of A1-6061</u>                                                                | Scopus     | 71            | 2023 | 575-584       |
|   |                         | <u>Analysis Of Various Image Segmentation Techniques On Retinal Oct Images</u>                                                                                                  | Scopus     | 10-1109       | 2023 | 716-721       |
|   |                         | Blindness Detection In Diabetic Retinopathy Using Bayesian Variant-Based Connected Component Algorithm In Keras And Tensorflow                                                  | SCI        | 23-3          | 2023 | 575-584       |
|   |                         | Comparison Of Machine Learning Algorithms For Pigment Epithelial Detachment Classification Using Shape And Curvature Features                                                   | Scopus     | 10.1109       | 2022 | 550-554       |
|   |                         | Deep Learning Based Simple Cnn Weld Defects Classification Using Optimization Technique                                                                                         | Scopus     | 58            | 2022 | 499-509       |
| 2 | Dr.G.M. Joselin Herbert | Experimental Investigation On The Thermal Properties Of Rare Earth – Metal Oxides Based Therminol Nano Fluids For Heat Transfer Applications                                    | Scopus     | 48-2          | 2023 | 62            |
|   |                         | Selection Of Working Fluids For Solar Organic Rankine Cycle—A Review                                                                                                            | Scopus     | 46-14         | 2022 | 20573 - 20599 |
|   |                         | Airborne Acoustic Transmission And Terrain Topography At Saintgits                                                                                                              | Scopus     | 56-3          | 2022 | 255-274       |
|   |                         | Experimental Investigation Of Stability, Optical Property And Thermal Conductivity Of Water Based Mwcnt-Al <sub>2</sub> O <sub>3</sub> -Zno Mono, Binary And Ternary Nanofluid  | SCI        | 287           | 2022 | 117058        |
| 3 | Dr.N.Ram asamy          | End Of Life Vehicles Assessment Of The Automobile Industry Using Reverse Logistics Supply Chain And Machine Learning Algorithm Pp.209                                           | Scopus     | 22-2          | 2023 | 209-237       |

|   |             |                                                                                                                                                                                           |        |       |      |               |
|---|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|------|---------------|
| 4 | Dr.R.Rajesh | Optimization-Based Hybrid Intelligent Model For Decision Making On Electrical Discharge Machining (Edm) Process Of A6061/6%B <sub>4</sub> C And A6061/9%SiC Composite Materials           | SCI    | 54-6  | 2023 | 836-858       |
|   |             | Employing Aluminum Matrix Composite For Stir Casting Process For Investigating The Performance Of A1-6061                                                                                 | Scopus | 71    | 2022 | 575-584       |
| 5 | Dr.S.Raja   | Isolation And Characterization Of Nivel Microcellulose From Sesamum Indicum Agro-Industrial Residual Waste Oil Cake : Conservation Of Biowaste To Wealth Approach                         | SCI    | 13-5  | 2023 | 4427-4441     |
|   |             | Isolation And Characterization Of Novel Micro Cellulose From Azadirachta Indica A. Juss Agro-Industrial Residual Waste Oil Cake For Futuristic Applications                               | SCI    | 13-5  | 2022 | 4393-4411     |
|   |             | Characterization Of Industrially Discarded Cymbopogon Flexuosus Stem Fiber Reinforced Unsaturated Polyester Composites: Effect Of Fiber ...                                               | SCI    | 51-1  | 2022 | 1207S - 1234S |
|   |             | Synthesis And Characterization Of Cost-Effective Industrial Discarded Natural Ceramic Particulates From Cymbopogon Flexuosus Plant Shoot For Potential Polymer/Metal Matrix Reinforcement | SCI    | 79-10 | 2022 | 8765-8806     |
|   |             | Green Methods For Surface Modification Of Bast Fibers                                                                                                                                     | Scopus | 78-11 | 2022 | 81-94         |

#### 9. Details of patents applied/awarded:

| S.No. | Name of the Faculty member | Title                                                                                                   | Date of filling | Application No. | Award No. |
|-------|----------------------------|---------------------------------------------------------------------------------------------------------|-----------------|-----------------|-----------|
| 1     | Dr.M.Devanand              | A gasifier to produce combustible gas from a low grade Indian coal                                      | 19/10/2015      | 5606/CHE/2015   | 446999    |
| 2     | Dr.M.Devanand              | Application of an integrated RE/RP/CAD/CAM system for 3D printing process materials & NBSP of robot arm | 10/11/2017      | 201741040074    | 433535    |
| 3     | Dr.S.Raja                  | Structural behavior of reinforced concrete beam containing nano silica                                  | 28/05/2023      | 202341036808    |           |

#### 10. Publications of Books/Monographs:

| S. No. | Author(s) | Name of the Book with ISBN | Publisher/Place | Year |
|--------|-----------|----------------------------|-----------------|------|
| 1      | NIL       | NIL                        | NIL             | NIL  |

**11. Courses offered, Sanctioned Strength of Students and Enrolment details:**

| S. NO. | Name of the Programme / Branch of study | Sancti oned Stren gth | Enrolment during 2022-23 |    | Total | Community |   |    |   |     |   |          |   |    |   |     |   |    |   | Existing Students, Strength |   |          |   |         |   |     |   | Pass Percenta ge of out going batch |
|--------|-----------------------------------------|-----------------------|--------------------------|----|-------|-----------|---|----|---|-----|---|----------|---|----|---|-----|---|----|---|-----------------------------|---|----------|---|---------|---|-----|---|-------------------------------------|
|        |                                         |                       | F                        | M  |       | OC        |   | BC |   | BCM |   | MBC/ DNC |   | SC |   | SCA |   | ST |   | II year                     |   | III year |   | IV year |   |     |   |                                     |
|        |                                         |                       |                          |    |       | M         | F | M  | F | M   | F | M        | F | M  | F | M   | F | M  | F | M                           | F | M        | F | M       | F | M   | F |                                     |
| 1      | UG Programme                            | 60                    |                          | 72 | 72    | 10        | 1 | 52 | - | -   | - | 8        | - | 1  | - | -   | - | -  | - | 26                          | - | 50       | - | 58      | - | 94% |   |                                     |
| 2      | PG Courses                              | 36                    |                          | 14 | 14    | 1         | - | 8  | - | -   | - | 2        | - | 3  | - | -   | - | -  | - | 14                          | - | -        | - | -       | - | 84% |   |                                     |
| 3      | Ph.DProgram me                          | 32                    |                          | 2  | 2     | 1         |   | 1  |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |     |   |                                     |
|        | Diploma Certificate Courses (if any)    |                       |                          |    |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |     |   |                                     |
|        | MOOC/NPTEL/UG C online courses offered  |                       |                          |    |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |     |   |                                     |
|        | Total                                   | 128                   |                          | 88 | 88    | 12        | 1 | 61 | - | -   | - | 10       | - | 4  | - | -   | - | -  | - | 40                          | - | 50       | - | 58      | - |     |   |                                     |

## 12. Enrolment of Students from Overseas and other States: NIL

| S. No. | Degree and Subject | Nationality | State | Number of Students |        | Total |
|--------|--------------------|-------------|-------|--------------------|--------|-------|
|        |                    |             |       | Male               | Female |       |
|        | Nil                |             |       |                    |        |       |

## 13. U.G./P.G. and Research degrees awarded:

| S. No | UG |       | P.G. |       | M. Phil. |    |    | Ph.D. |  |    |    |       |
|-------|----|-------|------|-------|----------|----|----|-------|--|----|----|-------|
|       |    | Total |      | Total |          | FT | PT | Total |  | FT | PT | Total |
|       |    | 68    |      | 16    |          |    |    |       |  |    | 7  | 7     |

## 14. Fellowships Awarded (National/International) Faculty/Students Stipend awarded :

| S. No. | Agency | Position (URF/JRF/SRF/RA/ others) | Number of Fellowships |   | Total |
|--------|--------|-----------------------------------|-----------------------|---|-------|
|        |        |                                   | M                     | F |       |
| 1      |        |                                   |                       |   |       |

## 15.Scholarships Awarded:

| S. No. | Nature of Scholarship                    | P.G. |   | M.Phil. |   | Ph.D. |   | Total Amount Rs. |
|--------|------------------------------------------|------|---|---------|---|-------|---|------------------|
|        |                                          | M    | F | M       | F | M     | F |                  |
| 1      | B.C.(State)                              |      |   |         |   |       |   |                  |
| 2      | B.C.M.(State)                            |      |   |         |   |       |   |                  |
| 3      | M.B.C./D.N.C.(State)                     |      |   |         |   |       |   |                  |
| 4      | SC/SCA/ST(National)                      |      |   |         |   |       |   |                  |
| 5      | SC/SCA/ST(State)                         |      |   |         |   |       |   |                  |
| 6      | Management Scholar ship                  |      |   |         |   |       |   |                  |
| 7      | Loan Scholarship                         |      |   |         |   |       |   |                  |
| 8      | MoovalurRamamirthamAmmaiyar Scheme       |      |   |         |   |       |   |                  |
| 9      | 'Pudhumai Penn' (modern woman)           |      |   |         |   |       |   |                  |
| 10     | Others ( please Specify the scholarship) |      |   |         |   |       |   |                  |
|        | Total                                    | -    | - | -       | - | -     | - | Nil              |

## 16. Performance of the Students :

| S. No | Course     | S1   |      | S2   |      | S3   |      | S4   |      | S5   |      | S6   |      | S7   |      | S8   |      |
|-------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|       |            | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass |
| 1     | UG         |      |      | 19   | 1    | 53   | 43   | 53   | 19   | 58   | 45   | 58   | 25   | 75   | 33   | 75   | 61   |
| 2     | PG CIM     | 5    | 1    | 5    | 1    | 10   | 8    | 7    | 7    |      |      |      |      |      |      |      |      |
| 3     | PG Thermal | 8    | 2    | 8    | 2    | 12   | 3    | 8    | 8    |      |      |      |      |      |      |      |      |

**17. Placement Details:**

| <b>Name of the Placement co-ordinator:</b> ANIVER CHANTH R           |                                                                               |                            |        |
|----------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------|--------|
| <b>Phone/Mobile Number :e-mail:</b> 7339163703 /aniashika1@gmail.com |                                                                               |                            |        |
| <b>Number of Placement Programmes:</b>                               |                                                                               |                            |        |
| S. No.                                                               | Particulars                                                                   | Numbers of students placed |        |
|                                                                      |                                                                               | Male                       | Female |
| 1                                                                    | Number of Students Placed                                                     | 40                         | -      |
| 2                                                                    | Number of Placements obtained through Campus Interview                        | 40                         | -      |
| 3                                                                    | Ratio of Placement to Students (Total no of Placement / Total no of Students) | 55%                        | -      |

**18. Outstanding achievements by the Faculty Members: Nil**

| S. No. | Name of the Faculty | Achievements | Agency |
|--------|---------------------|--------------|--------|
| 1      |                     |              |        |

**19. Outstanding achievements by Students:**

| S.No. | Name of the Student | Achievements                               | Agency                                          |
|-------|---------------------|--------------------------------------------|-------------------------------------------------|
| 1     | Amal Joy / S5 Mech  | Own first prize in Photography competition | Conducted by Green Energy and Eco Club of NICHE |

**20. Department MeetingsHeld :  
BOS,Programme Committee, Course Committee etc.**

| S.No | Name                     | Date                                                                                                         |  |
|------|--------------------------|--------------------------------------------------------------------------------------------------------------|--|
| 1.   | Course Committee         | 30-03-2023<br>26-04-2023<br>31-05-2023<br>06-03-2023<br>27-04-2023<br>30-05-2023                             |  |
| 2    | Programme Committee etc. | 2-04-2023<br>08-03-2023<br>21-02-2023<br>30-03-2023<br>17-04-2023<br>28-03-2023                              |  |
| 3    | ClassCommittee           | 29-03-2023<br>30-04-2023<br>06-06-2023<br>13-04-2023<br>08-03-2023<br>20-05-2023<br>25-04-2023               |  |
| 4    | Department MeetingsHeld  | 16-11-2022<br>03-0102023<br>28-01-2023<br>21-03-2023<br>03-05-2023<br>04-07-2023<br>17-08-2023<br>21-09-2023 |  |

**21. Infrastructure and Research facilities available (Please specify equipments more than TwoLakhs Only) :**

| S. No. | Name of the Lab | Name of the Equipments/Computer/Software/Others | Quantity | Purpose Research/Practical |
|--------|-----------------|-------------------------------------------------|----------|----------------------------|
|        |                 |                                                 |          |                            |

**22. Extension activities carried out :**

| S. No. | Name of the Activity | Beneficiaries | Date       | Venue                              |
|--------|----------------------|---------------|------------|------------------------------------|
| 1      | Blood Donation Camp  | 52            | 10-11-2022 | Bio Medical Engineering Department |

**23. Department Library/Learning Resources/ Information and Language Lab:**

Name of the Librarian or Faculty in-charge of the Library:

| S. No. | Particulars                                                           | Nos. | S. No. | Particulars                                         | Nos. |
|--------|-----------------------------------------------------------------------|------|--------|-----------------------------------------------------|------|
| 1      | No. of books available                                                | 1402 | 7      | No. of titles available                             | Nil  |
| 2      | Books added during the year 2022-23                                   | 72   | 8      | No. of CDs and Digital Books available              | Nil  |
| 3      | No. of Indian Journals/Magazines                                      | Nil  | 9      | No. of Foreign Magazines/Journals                   | Nil  |
| 4      | No. of data bases available                                           | Nil  | 10     | No. of Online Journals                              | Nil  |
| 5      | Average No. of students visiting the Library per day                  | 15   | 11     | Average No. of books Issued per day                 | 7    |
|        |                                                                       |      | 12     | No. of digital books                                | NILL |
| 6      | Availability of Internet (Specify the Capacity) (e.g. – 8 Mbps etc.,) | NILL | 13     | Availability of Language Lab                        | NILL |
|        |                                                                       |      | 14     | NDL membership<br>7. Faculty members<br>8. Students | NILL |

**24. Information and Communication Technology Resources: NIL**

| S. No. | Name of the Equipment | Specifications | Nos. | S. No. | Name of the Equipme nt | Specifications | Nos. |
|--------|-----------------------|----------------|------|--------|------------------------|----------------|------|
|        |                       |                |      |        |                        |                |      |

**24.Collaborative Researches :**

**25.Consultancies : 1**

**26.No. of NET/SET/GATE/CSIR Qualified students:**

**27. MOUs signed :**

| S.No | Date       | MoU signed with                                                                                                                       | Number of Activities | Remarks                                                                                      |
|------|------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------|
|      | 20/02/2023 | JP College of Engineering - Tenkasi                                                                                                   | one                  | Conducted International Conference Join Venture with JP College of Engineering on 20/04/2023 |
|      | 20/04/2023 | CAD Point - Marthandam                                                                                                                | one                  | Hands on training course in solidworks program conducted from 21/08/23 to 28/08/23 g         |
|      | 20/04/2023 | RS Wind Tech - Aralvoimozhy                                                                                                           |                      |                                                                                              |
|      | 20/09/2023 | Greenvio Solutions, Registered Office – Naigaon, Palghar district, Maharashtra<br>Operating office – Panvel, Maharashtra(Digital MOU) | one                  | Trash to Treasure Programme conducted on 21/09/2023                                          |

**28. Innovations and Best Practices :**

- Orientaion to freshers
- Student feedback and action taken
- Methodologies to support weak students and encourage bright student
- Student feed back and action taken
- Pedagogical Initiatives.

**29. Academic Flexibility : NIL**

| S.No | Courses offered | Platform (MOOC, NPTEL, etc.) | No. Students enrolled | No. of Students Passed |
|------|-----------------|------------------------------|-----------------------|------------------------|
|      |                 |                              |                       |                        |

## NAME OF THE DEPARTMENT: FACULTY OF MANAGEMENT STUDIES

### 1. Department Details :

|                                          |                                                |
|------------------------------------------|------------------------------------------------|
| Name of the Faculty                      | Faculty of Management Studies                  |
| Name of the HoD, Phone No. and E-mail ID | Dr. Arun Gopi, 9496000937, arungopi@niuniv.com |
| Year of Establishment                    | 1994                                           |
| Telephone Number                         | 9496000937                                     |
| Website / E mail                         | mba@niuniv.com                                 |

### 2. Details of Faculty Members :

| S. No. | Name of the Faculty    | Qualification   | Designation                                                                                                                     | Specialisation                        | Experience in years |          | E-mail ID &Phone/Cell Phone No. |
|--------|------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------|----------|---------------------------------|
|        |                        |                 |                                                                                                                                 |                                       | Teaching            | Research |                                 |
| 1.     | Dr. Janardhanan K A    | MA, MBA, PhD    | Professor , Pro-Vice Chancellor (Administration), Dean (Faculty of Management Studies), Director (School of Management Studies) | HRM, TQM & Disaster Management        | 35                  | 15       | kajanardhanan@niuniv.com        |
| 2.     | Dr. Janardhanan Pillai | MA, MBA, PhD    | Professor & HOD                                                                                                                 | Public Administration                 | 35                  | 15       | jmpillai@gmail.com              |
| 3.     | Dr. Kinslin D          | MBA, Mphil, PhD | Professor, Director-Industry-Institute Collaboration                                                                            | Finance                               | 25                  | 17       | kinslin@niuniv.com              |
| 4.     | Dr. Radhika R          |                 | Associate Professor                                                                                                             | Human Resource Management & Economics | 17                  | 15       | radhika@niuniv.com              |

| S. No. | Name of the Faculty    | Qualification     | Designation         | Specialisation                                     | Experience in years |          | E-mail ID & Phone/Cell Phone No. |
|--------|------------------------|-------------------|---------------------|----------------------------------------------------|---------------------|----------|----------------------------------|
|        |                        |                   |                     |                                                    | Teaching            | Research |                                  |
| 5.     | Dr. Velmurugan V P     | MBA, PhD          | Associate Professor | Finance                                            | 16                  | 10       | velmurugan@niuniv.com            |
| 6.     | Dr. Thangadurai E      |                   | Associate Professor |                                                    |                     |          |                                  |
| 7.     | Dr. Kavitha Rani R     | MBA, MPhil, PhD   | Assistant Professor | Marketing, HRM & Law                               | 8                   | 5        | kavitha2010@niuniv.com           |
| 8.     | Dr. Asha K             | MBA, M. Phil, PhD | Assistant Professor | Marketing Human Resource, Organizational Behaviour | 7                   | 5        | drashak@niuniv.com               |
| 9.     | Dr. Shibir Tad         | MBA, PhD          | Assistant Professor | Marketing                                          | 9                   | 4        |                                  |
|        | Ms. Anu P John         | MBA               | Assistant Professor |                                                    | 3                   |          |                                  |
| 10.    | Mrs. Jenusha Ananthi Y | M.Com., MBA       | Assistant Professor | Finance and HR                                     | 6                   | -        | jenushaananthi@niuniv.com        |
| 11.    | Dr. Lija P             | MBA, M. Phil, PhD | Assistant Professor | Human Resource Management                          | 6                   |          |                                  |
| 12.    | Mr. Kishore JS         | MBA               | Assistant Professor | Human Resource Management and Marketing            | 6                   |          |                                  |
| 13.    | Ms. Agnes Pravina X    | MBA               |                     |                                                    |                     |          |                                  |
| 14.    | Mr. Gokula Chandran    | MA Economics, MBA | Assistant Professor | Human Resource Management                          | 12                  |          | gukuls_chandran@yahoo.co.in      |

### 3. Faculty Members Achievements / Performance:

| S. No. | Name                 | h index |            | Publications |            | Citations |            | API   |            | M.Phil. awarded |            | Ph.D. awarded |            | Cumulative Scholars |      |
|--------|----------------------|---------|------------|--------------|------------|-----------|------------|-------|------------|-----------------|------------|---------------|------------|---------------------|------|
|        |                      | 22-23   | Cumulative | 22-23        | Cumulative | 22-23     | Cumulative | 22-23 | Cumulative | 22-23           | Cumulative | 22-23         | Cumulative | M. Phil             | Ph.D |
| 1.     | Dr.R.Radhika         | 2       | 2          | 1            | 22         | 2         | 8          | 96.65 |            |                 | 9          | 1             | 6          | 11                  | 12   |
| 2.     | Dr. V. P. Velmurugan | 2       | 2          | 2            | 10         | 3         | 8          |       |            |                 | 5          | 2             | 2          | -                   | 6    |

### 4.. Research Schemes/Projects undertaken :

| S. No. | Name of the Principal Investigator | Funding Agency | Title of the Project | Duration |    | Amount Rs. |
|--------|------------------------------------|----------------|----------------------|----------|----|------------|
|        |                                    |                |                      | From     | To |            |
| 1      |                                    |                |                      |          |    |            |

### 5. a) Participation of the Faculty members, presentation of papers in Congresses/Conferences/Seminars/Workshops,Symposia, etc.

| S. No. | Name of the Faculty  | Congress/Conference/Seminar /Workshop and Venue                                                                 | Title of the paper                                                                                                               | Date                |
|--------|----------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 2      | Dr.R.Radhika         | International Conference on "Intelligent Computing, Instrumentation and Control Technologies (ICICT-2022)"      | The Information Technology and Employees Performance in the Indian telecom industry                                              | 23,24 August        |
| 3      | Dr.R.Radhika         | AIP Conference Proceedings                                                                                      | Identifying the relevant project management tools in implementation of e-governance projects – Journey from traditional to agile | 24 March 2023       |
|        | Dr. V. P. Velmurugan | International Conference on Sustainable Entrepreneurship in India - Giriddepam Business School, Kottayam Kerala | Sustainable Entrepreneurship in Micro Small and medium Tourism Tourism Enterprises in Alappuzha District kerala                  | 28th September 2022 |

| S. No. | Name of the Faculty     | Congress/Conference/Seminar /Workshop and Venue                                                    | Title of the paper                                                                           | Date                                         |
|--------|-------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------|
|        | Mrs. Jenusha Ananthi. Y | International conference on Emerging trends in Mathematical Sciences and Applications ICETMSA-2023 | Pace of Financial Inclusion and the participation of Cashew Industry Female Workers in PMJDY | 26 <sup>th</sup> April, 2023                 |
|        | Mrs. Agnes Pravina      | ICREAT 2022                                                                                        | An Empirical Study To Fisher Folk Awareness In Kanyaumari District                           | 20 April, 2023                               |
|        | Mrs. Agnes Pravina      | ICREAT 2022                                                                                        | Life of fisher folk: A Case Study on the Fishing village in Tamilnadu                        | 20 April, 2023                               |
|        | Mrs. Agnes Pravina      | Confab 360 degree                                                                                  | A study on financial inclusion of Fisher folk in Kanyakumari District                        | 10 <sup>th</sup> & 11 <sup>th</sup> Dec 2022 |
|        | Mrs. Agnes Pravina      | Aicte sponsored                                                                                    | Co-operative and fisheries scheme Tamilnadu                                                  | 26 <sup>th</sup> & 27 <sup>th</sup> may 2023 |
|        | Mrs. Agnes Pravina      | ICETS 2022                                                                                         | Financial problem in fisher folk-An empirical study                                          | 3 <sup>rd</sup> and 4 <sup>th</sup> May 2023 |

**b) Foreign Faculty/Expert visit to the Department:**

| S. No. | Name & Designation | Institute | Country | Duration | Purpose |
|--------|--------------------|-----------|---------|----------|---------|
| 1      |                    |           |         |          |         |

**6. Faculty acted as Chief Guest, Keynote Speakers, Resource Person, Chairperson, External experts, etc. :**

| S. No. | Name of the Faculty member | Role | Event | Title | Venue & Date |
|--------|----------------------------|------|-------|-------|--------------|
| 1      |                            |      |       |       |              |

**7. Details of Seminars, Conferences, Refresher courses, Webinars Organised :**

| S. No. | Name of the Faculty member | Congress/Conference/Seminar/ Workshop/Symposia , Webinars etc. organised | State/National/ International Level | Date                     |
|--------|----------------------------|--------------------------------------------------------------------------|-------------------------------------|--------------------------|
| 1.     | Dr. M. Janarthanan Pillai  | Two days workshop on "Design Thinking "and "Alumni Interaction"          | National                            | 18.04.2023 to 19.04.2023 |

### 8. Publication of Research Papers at the State/National/International Levels:

| S. No. | Author(s)            | Title of the paper                                                                                       | Journal with ISSN/Scopus/SCI/UGC care                     | Volume No. Issue No.        | Year of Publication | Page(pp) |
|--------|----------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------|---------------------|----------|
|        | Dr.R.Radhika         | A Conceptual Study to Identify the Problems & Challenges in Current Training Systems in IT Industries    | Intern. Journal of Profess. Bus. Review<br>ISSN:2525-3654 |                             | April-2023          |          |
|        | Dr.R.Radhika         | Factors Determining Employee Engagement during the Covid Pandemic and Its Impact on Employee Performance | RES Militaries<br>ISSN:964- 973                           |                             | December Issue 2022 |          |
|        | Dr.R.Radhika         | Human Resources Management Practices - A Key To Achieving Organisational Sustainability                  | Journal of Pharmaceutical Negative Results                | Volume 13   Special Issue 7 | Dec-2022            |          |
|        | Dr.R.Radhika         | Conceptual Framework For Project Management For E-Governance Service                                     | Intern. Journal of Profess. Bus. Review<br>2525-3654      |                             | November 2022       |          |
|        | Dr.R.Radhika         | Empowerment of Fisher folk in Kanyakumari district.                                                      | Indian journal of applied research<br>2249-555X           |                             | OCT-2022            |          |
|        | Dr.R.Radhika         | A Study on Problems Of Street woman fish vendors in Kanyakumari district                                 | Indian journal of applied research<br>2249-555X           |                             | OCT-2022            |          |
|        | Dr.R.Radhika         | Role of project management methodology in challenges faced in implementation of Information              | International Journal of Health Sciences<br>2550-6978     |                             | July 2022           |          |
|        | Dr. V. P. Velmurugan | A study on the Drivers of Corporate Culture impacting                                                    | Scopus Indexed - International Journal of                 | V- 8 Issue - 2              | Feb 16 2023         | 1-19     |

|  |                      |                                                                                                                             |                                                                      |                 |              |          |
|--|----------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------|--------------|----------|
|  |                      | Employee Performance in its Industry                                                                                        | Professional Business Review- IJPBR E-ISSN 2525-3654                 |                 |              |          |
|  | Dr. V. P. Velmurugan | A study on Customer Relationship Management in the Life Insurance Corporation of India with special Reference to Tamil Nadu | Scopus Indexed- Int. J. Knowledge-Based Development                  | V- 12 Issue 3-4 | Feb 5 2023   | 393- 408 |
|  | Mrs. Agnes Pravina   | Empowerment of fisher folk in kanyaumari district                                                                           | Indian journal of Applied Research<br>ISSN: 2249-555X<br>DOI:1036106 |                 | October 2022 | 30-34    |
|  | Mrs. Agnes Pravina   | A study on problems of street fish vendors in kanyaumari district                                                           | Indian journal of Applied Research<br>ISSN: 2249-555X<br>DOI:1036106 |                 | October 2022 | 120-125  |

#### 9. Details of patents applied/awarded:

| S.No. | Name of the Faculty member | Title | Date of filling | Application No. | Award No. |
|-------|----------------------------|-------|-----------------|-----------------|-----------|
|       |                            |       |                 |                 |           |

#### 10. Publications of Books/Monographs:

| S. No. | Author(s) | Name of the Book with ISBN | Publisher/Place | Year |
|--------|-----------|----------------------------|-----------------|------|
| 1      |           |                            |                 |      |

### 11. Courses offered, Sanctioned Strength of Students and Enrolment details:

| S. NO. | Name of the Programme / Branch of study | Sancti oned Stren gth | Enrolment during 2022-23 |   | Total | Community |   |    |   |     |   |          |   |    |   |     |   |    |   | Existing Students, Strength |   |          |   |         |   |   |   | Pass Percenta ge of out going batch |
|--------|-----------------------------------------|-----------------------|--------------------------|---|-------|-----------|---|----|---|-----|---|----------|---|----|---|-----|---|----|---|-----------------------------|---|----------|---|---------|---|---|---|-------------------------------------|
|        |                                         |                       | F                        | M |       | OC        |   | BC |   | BCM |   | MBC/ DNC |   | SC |   | SCA |   | ST |   | II year                     |   | III year |   | IV year |   |   |   |                                     |
|        |                                         |                       |                          |   |       | M         | F | M  | F | M   | F | M        | F | M  | F | M   | F | M  | F | M                           | F | M        | F | M       | F | M | F |                                     |
|        | UG Programme                            | 60                    |                          |   | 61    |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |   |   |                                     |
| 2      | PG Courses                              | 120                   |                          |   | 95    |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |   |   |                                     |
|        | Ph.D Programme                          |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |   |   |                                     |
|        | Diploma Certificate Courses (if any)    |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |   |   |                                     |
|        | MOOC/NPTEL/UG C online courses offered  |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |   |   |                                     |
|        | Total                                   |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |   |   |                                     |

**12. Enrolment of Students from Overseas and other States:**

| S. No. | Degree and Subject | Nationality | State | Number of Students |        | Total |
|--------|--------------------|-------------|-------|--------------------|--------|-------|
|        |                    |             |       | Male               | Female |       |
| 1      | MBA                | Indian      |       |                    |        |       |

**13. U.G./P.G. and Research degrees awarded:**

| S. No | UG |       | P.G. |       | M. Phil. |    |    |       | Ph.D. |    |    |       |
|-------|----|-------|------|-------|----------|----|----|-------|-------|----|----|-------|
|       |    | Total |      | Total |          | FT | PT | Total |       | FT | PT | Total |
|       |    |       |      |       |          |    |    |       |       |    |    |       |

**14. Fellowships Awarded (National/International) Faculty/Students Stipend awarded :**

| S. No. | Agency | Position<br>(URF/JRF/SRF/RA/<br>others) | Number of Fellowships |   | Total |
|--------|--------|-----------------------------------------|-----------------------|---|-------|
|        |        |                                         | M                     | F |       |
| 1      |        |                                         |                       |   |       |

**15.Scholarships Awarded:**

| S. No. | Nature of Scholarship                    | P.G. |   | M.Phil. |   | Ph.D. |   | Total Amount Rs. |
|--------|------------------------------------------|------|---|---------|---|-------|---|------------------|
|        |                                          | M    | F | M       | F | M     | F |                  |
| 1      | B.C.(State)                              |      |   |         |   |       |   |                  |
| 2      | B.C.M.(State)                            |      |   |         |   |       |   |                  |
| 3      | M.B.C./D.N.C.(State)                     |      |   |         |   |       |   |                  |
| 4      | SC/SCA/ST(National)                      |      |   |         |   |       |   |                  |
| 5      | SC/SCA/ST(State)                         |      |   |         |   |       |   |                  |
| 6      | Management Scholar ship                  |      |   |         |   |       |   |                  |
| 7      | Loan Scholarship                         |      |   |         |   |       |   |                  |
| 8      | Moovalur Ramamirtham Ammaiyar Scheme     |      |   |         |   |       |   |                  |
| 9      | 'Pudhumai Penn' (modern woman)           |      |   |         |   |       |   |                  |
| 10     | Others ( please Specify the scholarship) |      |   |         |   |       |   |                  |
|        | Total                                    |      |   |         |   |       |   |                  |

**15. Performance of the Students :**

| S. No | Course | S1   |       | S2   |       | S3   |       | S4   |       | S5   |       | S6   |       | S7   |       | S8   |       |
|-------|--------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|
|       |        | App. | Pas s | App. | Pas s | App. | Pas s | App. | Pas s | App. | Pas s | App. | Pas s | App. | Pas s | App. | Pas s |
| 1     | MBA    | 91   | 21    | 76   | 22    | 110  | 45    | 112  | 82    | -    | -     | -    | -     | -    | -     | -    | -     |

**17. Placement Details:**

| <b>Name of the Placement co-ordinator:</b> |                                                                               |                            |        |
|--------------------------------------------|-------------------------------------------------------------------------------|----------------------------|--------|
| <b>Phone/Mobile Number :e-mail:</b>        |                                                                               |                            |        |
| <b>Number of Placement Programmes:</b>     |                                                                               |                            |        |
| S. No.                                     | Particulars                                                                   | Numbers of students placed |        |
|                                            |                                                                               | Male                       | Female |
| 1                                          | Number of Students Placed                                                     | 1                          | 3      |
| 2                                          | Number of Placements obtained through Campus Interview                        |                            |        |
| 3                                          | Ratio of Placement to Students (Total no of Placement / Total no of Students) |                            |        |

**18. Outstanding achievements by the Faculty Members:**

| S. No. | Name of the Faculty | Achievements | Agency |
|--------|---------------------|--------------|--------|
| 1      |                     |              |        |

**19. Outstanding achievements by Students:**

| S.No. | Name of the Student | Achievements | Agency |
|-------|---------------------|--------------|--------|
| 1     |                     |              |        |

**20. Department Meetings Held :**  
**BOS,Programme Committee, Course Committee etc.**

| S.No | Name                                         | Date                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
|------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1.   | Course Committee<br>Programme Committee etc. | Class Committee<br>S1 MBA<br>I - 26.10.2022<br>II - 29.11.2022<br>III - 23.12.2022<br>IV - 10.02.2023<br>S2 MBA<br>I - 13.03.2023<br>II - 26.04.2023<br>III - 22.05.2023<br>IV - 27.06.2023<br>S3 MBA<br>I - 18.08.2022<br>II - 19.09.2022<br>III - 17.10.2022<br>IV - 18.11.2022<br>S4 MBA<br>I - 22.02.2023<br>II - 21.03.2023<br>III - 14.04.2023<br>IV - 27.04.2023<br>S1 BBA<br>I - 26.10.2022<br>II - 25.11.2022<br>III - 22.12.2022 |  |

|  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  |  | <p>IV - 10.02.2023</p> <p>S2 BBA</p> <p>I - 13.03.2023</p> <p>II - 24.04.2023</p> <p>III - 22.05.2023</p> <p>IV - 27.06.2023</p> <p>S3 BBA</p> <p>I - 15.07.2022</p> <p>II - 26.08.2022</p> <p>III - 30.09.2022</p> <p>IV - 11.11.2022</p> <p>S4 BBA</p> <p>I - 09.01.2023</p> <p>II - 20.02.2023</p> <p>III - 28.03.2023</p> <p>IV - 28.04.2023</p> <p>S5 BBA</p> <p>I - 15.07.2022</p> <p>II - 26.08.2022</p> <p>III - 30.09.2022</p> <p>IV - 11.11.2022</p> <p>S6 BBA</p> <p>I - 02.02.2023</p> <p>II - 17.03.2023</p> <p>III - 11.04.2023</p> <p>IV - 28.04.2023</p> <p>S1 BCOM</p> <p>I - 26.10.2022</p> <p>II - 25.11.2022</p> <p>III - 22.12.2022</p> <p>IV - 10.02.2023</p> <p>S2 BCOM</p> <p>I - 13.03.2023</p> <p>II - 24.04.2023</p> <p>III - 22.05.2023</p> <p>IV - 27.06.2023</p> <p>S3 BCOM</p> <p>I - 15.07.2022</p> <p>II - 26.08.2022</p> <p>III - 30.09.2022</p> <p>IV - 11.11.2022</p> <p>S4 BCOM</p> <p>I - 09.01.2023</p> <p>II - 20.02.2023</p> <p>III - 28.03.2023</p> <p>IV - 28.04.2023</p> <p>Program<br/>Committee</p> <p>S1 MBA</p> <p>I - 16.11.2022</p> <p>II - 16.12.2022</p> <p>III - 03.02.2023</p> |  |
|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

|  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
|--|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  |  | <b>S2 MBA</b><br><b>I - 18.04.2023</b><br><b>II - 12.05.2023</b><br><b>III - 19.06.2023</b><br><b>S3 MBA</b><br><b>I - 30.08.2022</b><br><b>II - 07.10.2022</b><br><b>III - 11.11.2022</b><br><b>S4 MBA</b><br><b>I - 10.03.2023</b><br><b>II - 31.03.2023</b><br><b>III - 24.04.2023</b><br><b>S1 BBA</b><br><b>I - 16.11.2022</b><br><b>II - 12.12.2022</b><br><b>III - 03.02.2023</b><br><b>S2 BBA</b><br><b>I - 12.04.2023</b><br><b>II - 12.05.2023</b><br><b>III - 16.06.2023</b><br><b>S3 BBA</b><br><b>I - 12.08.2022</b><br><b>II - 19.09.2022</b><br><b>III - 02.11.2023</b><br><b>S4 BBA</b><br><b>I - 10.02.2023</b><br><b>II - 20.03.2023</b><br><b>III - 24.04.2023</b><br><b>S5 BBA</b><br><b>I - 12.08.2022</b><br><b>II - 19.09.2022</b><br><b>III - 02.11.2023</b><br><b>S6 BBA</b><br><b>I - 08.03.2023</b><br><b>II - 30.03.2023</b><br><b>III - 24.04.2023</b><br><b>S1 BCOM</b><br><b>I - 16.11.2022</b><br><b>II - 12.12.2022</b><br><b>III - 03.02.2023</b><br><b>S2 BCOM</b><br><b>I - 12.04.2023</b><br><b>II - 12.05.2023</b><br><b>III - 16.06.2023</b><br><b>S3 BCOM</b><br><b>I - 12.08.2022</b><br><b>II - 19.09.2022</b><br><b>III - 02.11.2023</b><br><b>S4 BCOM</b><br><b>I - 10.02.2023</b><br><b>II - 20.03.2023</b><br><b>III - 24.04.2023</b> |  |
|--|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

**21. Infrastructure and Research facilities available (Please specify equipments more than Two Lakhs Only) :**

| S. No. | Name of the Lab | Name of the Equipments/Computer/Software/Others | Quantity | Purpose Research/Practical |
|--------|-----------------|-------------------------------------------------|----------|----------------------------|
|        |                 |                                                 |          |                            |

**22. Extension activities carried out :**

| S. No. | Name of the Activity | Beneficiaries | Date | Venue |
|--------|----------------------|---------------|------|-------|
| 1      |                      |               |      |       |

**23. Department Library/Learning Resources/ Information and Language Lab:**

Name of the Librarian or Faculty in-charge of the Library:

| S. No. | Particulars                                                           | Nos. | S. No. | Particulars                                         | Nos. |
|--------|-----------------------------------------------------------------------|------|--------|-----------------------------------------------------|------|
| 1      | No. of books available                                                | 1493 | 7      | No. of titles available                             | -    |
| 2      | Books added during the year 2022-23                                   | -    | 8      | No. of CDs and Digital Books available              | -    |
| 3      | No. of Indian Journals/Magazines                                      | -    | 9      | No. of Foreign Magazines/Journals                   | -    |
| 4      | No. of data bases available                                           | -    | 10     | No. of Online Journals                              | -    |
| 5      | Average No. of students visiting the Library per day                  | 2    | 11     | Average No. of books Issued per day                 | -    |
|        |                                                                       |      | 12     | No. of digital books                                | -    |
| 6      | Availability of Internet (Specify the Capacity) (e.g. – 8 Mbps etc.,) | -    | 13     | Availability of Language Lab                        | -    |
|        |                                                                       |      | 14     | NDL membership<br>1. Faculty members<br>2. Students | -    |

**24. Information and Communication Technology Resources:**

| S. No. | Name of the Equipment | Specifications | Nos. | S. No. | Name of the Equipment | Specifications | Nos. |
|--------|-----------------------|----------------|------|--------|-----------------------|----------------|------|
|        |                       |                |      |        |                       |                |      |

**24.Collaborative Researches :**

**25.Consultancies :**

**26.No. of NET/SET/GATE/CSIR Qualified students:**

**27. MOUs signed :**

| <b>S.No</b> | <b>Date</b>      | <b>MoU signed with</b>                                                     | <b>Number of Activities</b>                                                        | <b>Remarks</b> |
|-------------|------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------|
| <b>1</b>    | <b>3/14/2023</b> | <b>Finmark Trainers<br/>India PVT,LTD<br/>chennai</b>                      | <b>Certification<br/>Programs</b>                                                  |                |
| <b>2</b>    | <b>4/18/2023</b> | <b>Indian Academic<br/>Researchers<br/>Association<br/>Thiruchurapalli</b> | <b>Conference,Se<br/>minars,worksh<br/>ops,Placement<br/>s and<br/>Internships</b> |                |

**28. Innovations and Best Practices :****29. Academic Flexibility :**

| <b>S.No</b> | <b>Courses offered</b> | <b>Platform<br/>(MOOC, NPTEL,<br/>etc.)</b> | <b>No. Students<br/>enrolled</b> | <b>No. of<br/>Students<br/>Passed</b> |
|-------------|------------------------|---------------------------------------------|----------------------------------|---------------------------------------|
|             |                        |                                             |                                  |                                       |

## NAME OF THE DEPARTMENT: Nanotechnology

### 1. Department Details :

|                                          |                              |
|------------------------------------------|------------------------------|
| Name of the Faculty                      | Department of Nanotechnology |
| Name of the HoD, Phone No. and E-mail ID | Dr. P. K. Praseetha          |
| Year of Establishment                    | 2009                         |
| Telephone Number                         | 9486855091                   |
| Website / E mail                         | nanohod@niuniv.com           |

### 2. Details of Faculty Members :

| S. No. | Name of the Faculty   | Qualification          | Designation        | Specialisation           | Experience in years |          | E-mail ID & Phone/Cell Phone No.           |
|--------|-----------------------|------------------------|--------------------|--------------------------|---------------------|----------|--------------------------------------------|
|        |                       |                        |                    |                          | Teaching            | Research |                                            |
| 1      | Dr. Praseetha P.K     | M.Sc., Ph.D            | Professor and Head | Nanobiotechnology        | 17                  | 13       | nanohod@niuniv.com<br>9486855091           |
| 2      | Dr. S. Balamurugan    | M.Sc.,Ph.D (IIT-B)     | Professor          | Nanotechnology           | 13                  | 18       | scandium.chemistry@gmail.com<br>9944387763 |
| 3      | Dr. T. K. Sreeja      | B. E, M.E, Ph.D        | ASP                | ECE                      | 14                  | 12       | sreeja@niuniv.com/9626833441               |
| 4      | Dr. R. S. Rimal Isaac | B.Tech., M.Tech., Ph.D | AP                 | Nanotechnology           | 15                  | 13       | rimalisaac@niuniv.com / 9443314203         |
| 5      | Dr. M.Prabu           | M.Sc., M.Tech., Ph.D   | AP                 | Physics & Nanotechnology | 10                  | 10       | mprabuaps@niuniv.com<br>9943373209         |
| 6      | Dr S Gobalakrishnan   | M.Sc., M.Tech., PhD    | AP                 | Physics & Nanotechnology | 14                  | 14       | gobalphd@gmail.com<br>9786300919           |

### 3. Faculty Members Achievements / Performance:

| S. No. | Name              | h index |            | Publications |            | Citations |            | API   |            | M.Phil. awarded |            | Ph.D. awarded |            | Cumulative Scholars |      |
|--------|-------------------|---------|------------|--------------|------------|-----------|------------|-------|------------|-----------------|------------|---------------|------------|---------------------|------|
|        |                   | 22-23   | Cumulative | 22-23        | Cumulative | 22-23     | Cumulative | 22-23 | Cumulative | 22-23           | Cumulative | 22-23         | Cumulative | M. Phil             | Ph.D |
| 1      | Dr. Praseetha P.K | 19      | 19         | 13           | 117        | 545       | 1534       | 264   | 1250       | -               | -          | -             | 8          | -                   | 5    |

|    |                       |    |    |    |     |     |      |     |      |   |   |   |   |   |   |
|----|-----------------------|----|----|----|-----|-----|------|-----|------|---|---|---|---|---|---|
| 2  | Dr. S. Balamurugan    | 17 | 17 |    | 111 | 193 | 1073 | 235 | 1500 | - | - | - | 1 | - | 1 |
| 3  | Dr. T. K. Sreeja      | 6  | 6  | 7  | 20  | 34  | 87   | 190 | 955  | - | - | - | - | - | 6 |
| 4  | Dr. R. S. Rimal Isaac | 11 | 11 | 10 | 51  | 200 | 597  | 242 | 1147 | - | 1 | - | - | - | 3 |
| 5. | Dr. M.Prabu           | 4  | 4  | 3  | 14  | 17  | 112  | 185 |      | - | 1 | - | - | - | 3 |
| 6  | Dr S Gobalakrishnan   | 11 | 11 | 6  | 38  | 62  | 467  |     |      | - | - | - | - | - | 3 |

**64.. Research Schemes/Projects undertaken :**

| S. No. | Name of the Principal Investigator | Funding Agency | Title of the Project                                                               | Duration   |            | Amount Rs. |
|--------|------------------------------------|----------------|------------------------------------------------------------------------------------|------------|------------|------------|
|        |                                    |                |                                                                                    | From       | To         |            |
| 1      | Praseetha P.K                      | DST            | FIST                                                                               | April 2018 | March 2023 | 77 lakhs   |
| 2      | Praseetha P.K                      | TNSCST         | Microwave assisted synthesis of Carbon Quantum dots for Wound healing applications | Jan 2020   | Jan 2022   | 3.3 lakhs  |

**5. a) Participation of the Faculty members, presentation of papers in Congresses/Conferences/Seminars/Workshops,Symposia, etc.**

| S. No. | Name of the Faculty   | Congress/Conference/ Seminar /Workshop and Venue                 | Title of the paper                                                       | Date                    |
|--------|-----------------------|------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------|
| 1      | Dr. R. S. Rimal Isaac | Six Days Faculty Development Programme                           | IET Kanyakumari Local Network                                            | 6 to 11 March 2023      |
| 2      | Dr. R. S. Rimal Isaac | Five-day faculty Development Programme                           | Institution Innovation Council, Noorul Islam Centre for Higher Education | 19 to 23 December 2022. |
|        | Dr. T. K. Sreeja      | International conference on wireless and mobile network security | A triple band antenna for 5G, WLAN and WiMAX bands                       | 13-03-2023.             |

|   |                   |                                                                  |                                                                |             |
|---|-------------------|------------------------------------------------------------------|----------------------------------------------------------------|-------------|
|   | Dr. T. K. Sreeja  | International conference on wireless and mobile network security | <i>A Yagi Uda Shaped Dual band antenna for WLAN and WiMAX,</i> | 13-03-2023. |
| 4 | Dr. Praseetha P.K |                                                                  | School students on Kudapanamoodu, Thiruvananthapuram           |             |

**b) Foreign Faculty/Expert visit to the Department:**

| S. No. | Name & Designation | Institute | Country | Duration | Purpose |
|--------|--------------------|-----------|---------|----------|---------|
| 1      |                    |           |         |          |         |

**6. Faculty acted as Chief Guest, Key note Speakers, Resource Person, Chair Person, External experts, etc. :**

| S. No. | Name of the Faculty member | Role            | Event                       | Title                                                               | Venue & Date                                                                                            |
|--------|----------------------------|-----------------|-----------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| 1      | Dr. R. S. Rimal Isaac      | Resource Person | Faculty Development Program | "Emerging Trends in Nanotechnology and its Biomedical Application"  | Department of ECE, Musaliar College of Engineering, Thiruvananthapuram on the topic on August 22, 2022. |
| 2      | Dr. R. S. Rimal Isaac      | Resource Person | Faculty Development Program | "Intellectual Property Rights (IPRs)"                               | PSN Institute of Technology and Science, Tirunelveli on the topic on 1 st January 2023.                 |
| 3      | Dr. R. S. Rimal Isaac      | Keynote speaker | Workshop                    | Nanomaterials in Agriculture and Food                               | Noorul Islam College of Arts and Science, Kumaracoil on 09 March 2023.                                  |
| 4      | Dr. R. S. Rimal Isaac      | Guest Lecture   | Seminar                     | "Intellectual Property Rights (IPRs) and IP Management for Startup" | Holy Cross College, Nagercoil on the topic on 18 th April 2023.                                         |
| 5      | Dr. R. S. Rimal Isaac      | Resource Person | Workshop                    | "Tableau for Data Analytics"                                        | Sree Ayyappa College, Nagercoil on the topic on 18 th April 2023.                                       |

| S. No. | Name of the Faculty member | Role            | Event                    | Title                             | Venue & Date                                                                                         |
|--------|----------------------------|-----------------|--------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------|
| 6      | Dr. R. S. Rimal Isaac      | Chief Guest     | International Conference | Keynote Address                   | PSN Institute of Technology and Science, Tirunelveli from during 20th April 2023 to 21st April 2023. |
| 7      | Dr. Praseetha P.K          | Resource person | National Conference      | Keynote address                   | Bon Secours College for women, Thanjavur, 16/10/2023 and 17/10/2023                                  |
| 8      | Dr. Praseetha P.K          | Resource person | Educational Seminar      | Career guidance program           | Educational Seminar and Career guidance program, 27/05/2023                                          |
| 9      | Dr. M.Prabu                | Keynote speaker | Workshop                 | Carbon-Based Materials in Biology | Noorul Islam College of Arts and Science, Kumaracoil on 09 March 2023.                               |

#### 7. Details of Seminars, Conferences, Refresher courses, Webinars Organised :

| S. No. | Name of the Faculty member | Congress/Conference/Seminar/ Workshop/Symposia , Webinars etc. organized         | State/National/ International Level | Date                                              |
|--------|----------------------------|----------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------------|
| 1      | Praseetha P.K              | One Day workshop on Cyber Forensics                                              | National                            | 24 <sup>th</sup> March 2023                       |
| 2      | Praseetha P.K              | One Day workshop on UV-Visible and Raman Spectroscopy                            | National                            | 15 <sup>th</sup> March 2023                       |
| 3      | Praseetha P.K              | Two days' workshop on nanotechnology and its applications in biological sciences | National                            | March 9 <sup>th</sup> and 10 <sup>th</sup> , 2023 |

## 8. Publication of Research Papers at the State/National/International Levels:

| S. No. | Author(s)                                                                                                                   | Title of the paper                                                                                                                                                                        | Journal with ISSN/Scopus /SCI/UGC care   | Volume No. Issue No. | Year of Publication | Page(pp) |
|--------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------------------|---------------------|----------|
| 1      | Lavanya S.,<br>Kumar T.R.,<br>Poul Raj I.L.,<br>Vinoth S.,<br>Isaac R.S.R.,<br>Ganesh V.,<br>Yahia I.S.,<br>AlAbdulaal T.H. | Enhanced structural, optical, and photo sensing properties of Ni-doped Co <sub>3</sub> O <sub>4</sub> thin films prepared by nebulizer spray pyrolysis method                             | Physica B: Condensed Matter/<br>09214526 | 649                  | 2023                |          |
| 2      | Nair R.M.,<br>Bindhu B.,<br>Isaac R.S.R.                                                                                    | Boron nitride nanosheets dispersed biopolymer solution as an effective copper corrosion inhibitor in acidic medium                                                                        | Polymer Bulletin/<br>01700839            |                      | 2023                |          |
| 3      | Soma Sundaram Pillai R.,<br>Rajamoni R.,<br>Suyambulingam I.,<br>Rajamony Suthies Goldy I.,<br>Divakaran D.                 | Synthesis and characterization of cost-effective industrial discarded natural ceramic particulates from Cymbopogon flexuosus plant shoot for potential polymer/metal matrix reinforcement | Polymer Bulletin/<br>01700839            | 79                   | 2022                | 8765     |

|   |                                                                                                                       |                                                                                                                                                           |                                                                  |    |      |       |
|---|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|----|------|-------|
| 4 | Gnanasekar T., Valanarasu S., Das H.T., Chidhambaram N., Rimal Isaac R.S., Al-Enizi A.M., Ubaidullah M., Reddy V.R.M. | Enhanced optoelectronic properties of X-doped (X = Al, Ga, and In) CuO thin films for photodetector applications                                          | Journal of Materials Science: Materials in Electronics/ 09574522 | 33 | 2022 | 18786 |
| 5 | Irine T.M., Rathika A., Gobalakrishnan S., Isaac R.S.R., Sanjith S., Chidhambaram N.                                  | Leveraging the Photocatalytic Degradation Efficiency of Solution Combustion Derived ZnO Photocatalyst through Palladium Doping                            | Crystal Research and Technology/ 02321300                        | 57 | 2022 |       |
| 6 | Manjunatha C.J., Venkata Narayana B., Bino Prince Raja D., Rimal Isaac R.S.                                           | Tribological, Thermal and Corrosive Behaviour of Aluminium Alloy 2219 Reinforced by Si <sub>3</sub> N <sub>4</sub> Nanosized Powder                       | Silicon/ 1876990X                                                | 14 | 2022 | 4325  |
| 7 | Raj I.L.P., Valanarasu S., Asuntha A., Rimal Isaac R.S., Shkir M., Algarni H., AlFaify S.                             | Development of a highly sensitive UV sensor using Al, Ga, and In-doped NiO thin films via nebulizer spray pyrolysis method for photodetector applications | Journal of Materials Science: Materials in Electronics/ 09574522 | 33 | 2022 | 11753 |

|    |                                                                                                                                          |                                                                                                                                                                       |                                                               |     |      |  |
|----|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-----|------|--|
| 8  | Loyola Poul Raj I., Valanarasu S., Rimal Isaac R.S., Ramudu M., Bitla Y., Ganesh V., Yahia I.S.                                          | The role of silver doping in tuning the optical absorption, energy gap, photoluminescence properties of NiO thin films for UV photosensor applications                | Optik/ 00304026                                               | 254 | 2022 |  |
| 9  | Sarath babu R., Narasimha murthy Y., Vinoth S., Isaac R.S.R., Mohanraj P., Ganesh V., Algarni H., AlFaify S.                             | Enhancement in optoelectronic properties of lanthanum co-doped CdO: Zn thin films for TCO applications                                                                | Superlattices and Microstructures/ 07496036                   | 162 | 2022 |  |
| 10 | Saravanan A., Kings A.J., Miriam L.R.M., Isaac R.S.R.                                                                                    | RSM-based comparative experimental study of sustainable biodiesel synthesis from different 2G feedstocks using magnetic nanocatalyst CaFe <sub>2</sub> O <sub>4</sub> | Environment, Development and Sustainability/ 1387585X         |     | 2022 |  |
| 11 | Sajin J.B., Christu Paul R., Binoj J.S., Brailson Mansingh B., Gerald Arul Selvan M., Goh K.L., Rimal Isaac R.S., Senthil Saravanan M.S. | Impact of fiber length on mechanical, morphological and thermal analysis of chemical treated jute fiber polymer composites for sustainable applications               | Current Research in Green and Sustainable Chemistry/ 26660865 | 5   | 2022 |  |

|    |                                                                                                                                                                               |                                                                                                                                                |                                                                                                                                                                          |                                                                                    |       |  |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------|--|
| 12 | K. Ravichandran, S. Suvathi, M. Ayyanar, P. Kavitha, P.K. Praseetha,                                                                                                          | <u>Vermiwash-mediated synthesis of molybdenum doped TiO<sub>2</sub> nanoparticles: Evaluation of photocatalytic and biomedical properties,</u> | J. of Photochemistry and Photobiology A: Chemistry, 446, 2024, <a href="https://doi.org/10.1016/j.jphotochem.2023.115169">doi.org/10.1016/j.jphotochem.2023.115169</a> . | 115169, ISSN: 1873-2666, Sep. (Elsevier, IF. 4.3)                                  | 2023, |  |
| 13 | K. Gayathri, K. Ravichandran, M. Sridharan, S. Suvathi, S. Sriram, R. Mohan, A. Jansi Santhosam, P.K. Praseetha, P. Sakthivel,                                                | Enhanced ammonia gas sensing by cost-effective SnO <sub>2</sub> gas sensor: Influence of effective Mo doping,                                  | Materials Science and Engineering: B,                                                                                                                                    | 116849, doi.org/10.1016/j.mseb.2023.116849, ISSN: 0921-5107, (Elsevier, IF. 3.407) | 2023, |  |
| 14 | Prathipkumar Subramanian, Vijayakumar Subramanian, Sangeetha Renganathan, Vidhya Elavarasan, Mysoon M. Al-Ansari, Majdoleen Aldawsari, Praseetha Prabhakaran Kala, Woong Kim, | Enhanced photocatalytic efficiencies in a bifunctional ZnO/PVA nanocomposites derived from Capparis zeylanica L.                               | Environmental Research, 233, Sep                                                                                                                                         | doi.org/10.1016/j.envres.2023.116482, ISSN: 0013-9351 (Elsevier, IF. 8.43)         | 2023, |  |

|    |                                                                                                                                                                                                                          |                                                                                                                                                                         |                                                          |                                                                                                                                          |       |  |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------|--|
| 15 | Krishnasamy Ravichandran , Rajagopal Shalini, Muniappan Ayyanar, Pazhanisamy Kavitha, Mazabalo Baneto, Marimuthu Karunakaran, Prabhakaran Kala Praseetha, Katheresan Catherine Siriya Pushpa, Narayanamoorathi Anuradha, | Effect of pH of the precursor solution on the photocatalytic and biomedical applications of enzyme coupled ZnO and SnO <sub>2</sub> nanomaterials: A comparative study, | Journal of Water Process Engineering, 53,                | doi.org/10.1016/j.jwpe.2023.103817, ISSN: 2214-7144. (Elsevier, IF. 7.34)                                                                | 2023  |  |
| 16 | Praseetha P.K*, Anto Godwin M, Vijayakumar S, R. Sangeetha S. Prathipkumar,                                                                                                                                              | Porous chitosan-infused Graphitic carbon nitride nanosheets for Potential microbicidal and photocatalytic efficacies.                                                   | International Journal of Biological Macromolecules, 238, | <a href="https://doi.org/10.1016/j.ijbiomac.2023.124120">doi.org/10.1016/j.ijbiomac.2023.124120</a> ISSN: 0141-8130 (Elsevier, IF. 8.03) | 2023, |  |

|    |                                                                                                                                                                                                             |                                                                                                                                             |                         |                                                                                                                               |       |  |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------|--|
| 17 | Thiyakarajan Sutharappa Kaliyamoorthy, Vijayakumar Subramaniyan, Sangeetha Renganathan, Vidhya Elavarasan, Jagatheesvaran Ravi, Praseetha Prabhakaran Kala, Prathipkumar Subramaniyan, Sekar Vijayakumar, S | Sustainable Environmental-Based ZnO Nanoparticles Derived from Pisonia grandis for Future Biological and Environmental Applications,        | Sustainability,         | 14(24), 17009, <a href="https://doi.org/10.3390/su142417009">10.3390/su142417009</a><br><br>(ISSN 2071-1050) (MDPI, IF. 3.89) | 2022, |  |
| 18 | Suvathi, S., Rathi R., Ravichandran K., Kavitha P., Ayyanar M., Praseetha P.K., and Chidambaram N.,                                                                                                         | Improved photocatalytic dye degradation and seed germination through enzyme-coupled titanium dioxide nanopowder- A cost effective approach. | Environmental research, | doi.org/10.1016/j.envres.2022.114973, 1 <sup>st</sup> February<br>ISSN 0013-9351 (Elsevier, IF. 8.43)                         | 2023, |  |

|    |                                                                                                                                  |                                                                                                                                 |                                                  |                                                                                                                                                               |       |  |
|----|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--|
| 19 | V.N. Punitha, S. Vijayakumar, M. Nilavukkarasi, E. Vidhya and P.K. Praseetha, <a href="#">d</a>                                  | Fruit peels that unlock curative potential: Determination of biomedical applications and bioactive compounds,                   | South African journal of Botany, 150, 1051-1060, | <a href="https://doi.org/10.1016/j.sajb.2022.09.022">doi.org/10.1016/j.sajb.2022.09.022</a> , Nov. ISSN: 0254-6299 (Elsevier , IF. 3.1)                       | 2022  |  |
| 20 | Srimathi Krishnaswamy, Puspamitra Panigrahi, <b>Praseetha Prabhakaran Kala</b> , Sharon Sofini, Ganapathi Subramanian Nagarajan, | Smart apparel using nano graphitic carbon nitride/PVA in a cotton cloth for military application,                               | Heliyon 8, e10345,                               | <a href="https://doi.org/10.1016/j.heliyon.2022.e10345">doi.org/10.1016/j.heliyon.2022.e10345</a> , Aug. <b>(Cell Press, IF. 2.8)</b>                         | 2022, |  |
| 21 | Parvathy Chandran, <b>Praseetha P.K.</b> ,                                                                                       | Carbon Quantum dot induced hemolysis and anti-angiogenesis in proliferating cancers with Vitis vinifera as the source material, | Vegetos,                                         | <a href="https://doi.org/10.1007/s42535-022-00454-8">doi.org/10.1007/s42535-022-00454-8</a> , 7 <sup>th</sup> Sep., ISSN: 9704078 <b>(Springer, IF. 0.47)</b> | 2022  |  |

|    |                                                                                                              |                                                                                                                              |                                                                    |                                                                                                                                              |       |  |
|----|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------|--|
| 22 | K. Sreedevy,<br><b>P.K. Praseetha</b>                                                                        | Evaluation of Dasapushpagrit ham: An Ayurvedic formulation on L929 cell line through <i>in vitro</i> approach                | Gene reports, 28, 101651,                                          | <a href="https://doi.org/10.1016/j.genrep.2022.101651">doi.org/10.1016/j.genrep.2022.101651</a> , Sep., ISSN 2452-0144. (Elsevier, IF. 1.5). | 2022  |  |
| 23 | M. Nilavukkarasi, S. Vijayakumar, Mohan Kalaskar, Nilambari Gurav, Shailendra Gurav, <b>P.K. Praseetha</b> , | Capparis zeylanica L. conjugated TiO <sub>2</sub> nanoparticles as bio-enhancers for antimicrobial and chronic wound repair, | Biochemical and Biophysical Research Communications, 623, 127-132, | <a href="https://doi.org/10.1016/j.bbrc.2022.07.064">doi.org/10.1016/j.bbrc.2022.07.064</a> , October. (Elsevier, IF. 3.57)                  | 2022, |  |
| 24 | Jari Litany and <b>P.K. Praseetha</b>                                                                        | Tiny tots for a big-league in wound repair: Tools for tissue regeneration by nanotechniques of today                         | J. of Controlled Release, 349, 443-459, Sep.                       | <a href="https://doi.org/10.1016/j.jconrel.2022.07.005">doi.org/10.1016/j.jconrel.2022.07.005</a> , (Elsevier, IF. 11.457)                   | 2022, |  |
| 25 | A.M. Habeeb Khan, <b>M. Prabu</b> , Aafiya Khadeeja Khan, <b>T.K. Sreeja</b>                                 | Dielectric and ferroelectric characterization of niobium doped pzt (52/48) nanoceramics                                      | Journal of Alloys and Compounds 967 (2023) 171529                  | <a href="https://doi.org/10.1016/j.jallcom.2023.171529">https://doi.org/10.1016/j.jallcom.2023.171529</a>                                    | 2023  |  |



|    |                                                                                |                                                                                                                                    |                                               |                                                                                                     |      |  |
|----|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------|------|--|
| 29 | Jude Fernandez, B. Bindhu, <b>M. Prabu</b> , K. Y. Sandhya                     | Effects of hafnium on the structural, optical and ferroelectric properties of sol-gel synthesized barium titanate ceramics         | Journal of the Korean Ceramic Society         | <a href="https://doi.org/10.1007/s43207-021-00170-0">https://doi.org/10.1007/s43207-021-00170-0</a> | 2022 |  |
| 30 | K Ch Sekhar,1Raviteja Surakasi,1Dr. Pallab Roy,2P.Jacqueline Rosy,3T.K. Sreeja | <b>Mechanical Behavior of Aluminum and Graphene Nanopowder-Based Composites, in International Journal of Chemical Engineering.</b> | International Journal of Chemical Engineering | <a href="https://doi.org/10.1155/2022/2224482">https://doi.org/10.1155/2022/2224482</a>             | 2022 |  |
| 31 | RadhaKrishna Karne, TK Sreeja                                                  | Routing protocols in vehicular adhoc networks (VANETs)                                                                             | International Journal of Early Childhood      | ISSN: <a href="#">1308-5581</a> Vol 14, Issue 03 2022                                               | 2022 |  |

|    |                               |                                                                                                      |                                                             |                                                                                                                                                                                                                                                                                                       |      |           |
|----|-------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 32 | Radhakrishna Karne, TK Sreeja | Clustering Algorithms and Comparisons in Vehicular Ad Hoc Networks                                   | Mesopotamia n Journal of Computer Science                   | <a href="https://scholar.google.co.in/citations?view_op=view_citation&amp;hl=en&amp;user=IA3wWOsAAAJ&amp;citation_for_view=IA3wWOsAAAJ:roLk4NB-Rz8UC">https://scholar.google.co.in/citations?view_op=view_citation&amp;hl=en&amp;user=IA3wWOsAAAJ&amp;citation_for_view=IA3wWOsAAAJ:roLk4NB-Rz8UC</a> | 2023 |           |
| 33 | Abhilash S Vasu, TK Sreeja    | Magnetodielectric Nanocomposite Antenna for Triple Band Including 5G                                 | Wireless Personal Communications                            | <a href="https://link.springer.com/article/10.1007/s11277-023-10181-1">https://link.springer.com/article/10.1007/s11277-023-10181-1</a>                                                                                                                                                               | 2023 | 1161-1173 |
| 34 | NR Lakshmi, TK Sreeja         | Dual nanocomposite materials that enhance the radiation characteristics of flexible circular antenna | AEU-International Journal of Electronics and Communications | <a href="https://www.sciencedirect.com/science/article/abs/pii/S1434841123003138">https://www.sciencedirect.com/science/article/abs/pii/S1434841123003138</a>                                                                                                                                         | 2023 |           |

#### 9. Details of patents applied/awarded:

| S.No. | Name of the Faculty member | Title | Date of filling | Application No. | Award No. |
|-------|----------------------------|-------|-----------------|-----------------|-----------|
|       |                            |       |                 |                 |           |

#### 10. Publications of Books/Monographs:

| S. No. | Author(s)                            | Name of the Book with ISBN                                      | Publisher/Place | Year |
|--------|--------------------------------------|-----------------------------------------------------------------|-----------------|------|
| 1      | R. S. Rimal<br>Isaac, K.<br>Anugirba | Nano: The Science and Technology of the Small,<br>9798388243430 | Amazon          | 2023 |

**11. Courses offered, Sanctioned Strength of Students and Enrolment details:**

| S. NO. | Name of the Programme / Branch of study | Sancti oned Stren gth | Enrolment during 2022-23 |   | Total | Community |   |    |   |     |   |          |   |    |   |     |   |    |   | Existing Students, Strength |   |          |   |         |   |   |     | Pass Percenta ge of out going batch |
|--------|-----------------------------------------|-----------------------|--------------------------|---|-------|-----------|---|----|---|-----|---|----------|---|----|---|-----|---|----|---|-----------------------------|---|----------|---|---------|---|---|-----|-------------------------------------|
|        |                                         |                       | F                        | M |       | OC        |   | BC |   | BCM |   | MBC/ DNC |   | SC |   | SCA |   | ST |   | II year                     |   | III year |   | IV year |   |   |     |                                     |
|        |                                         |                       |                          |   |       | M         | F | M  | F | M   | F | M        | F | M  | F | M   | F | M  | F | M                           | F | M        | F | M       | F | M | F   |                                     |
|        | UG Programme                            | 30                    | 3                        | - |       |           |   |    | 2 |     |   |          | 1 |    |   |     |   |    |   |                             |   |          |   |         |   |   | 100 |                                     |
|        | PG Courses                              | 9                     | 3                        | 4 |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |   | 100 |                                     |
|        | Ph. D Programme                         |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |   |     |                                     |
|        | Diploma Certificate Courses (if any)    |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |   |     |                                     |
|        | MOOC/NPTEL/UG C online courses offered  |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |   |     |                                     |
|        | Total                                   | 39                    |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |   |     |                                     |

**12. Enrolment of Students from Overseas and other States:**

| S. No. | Degree and Subject | Nationality | State | Number of Students |        | Total |
|--------|--------------------|-------------|-------|--------------------|--------|-------|
|        |                    |             |       | Male               | Female |       |
|        | NIL                |             |       |                    |        |       |

**13. U.G./P.G. and Research degrees awarded:**

| S. No | UG |       | P.G. |       | M. Phil. |    |    |       | Ph.D. |    |    |       |
|-------|----|-------|------|-------|----------|----|----|-------|-------|----|----|-------|
|       |    | Total |      | Total |          | FT | PT | Total |       | FT | PT | Total |
|       |    | 1     |      | 6     |          |    |    | -     |       |    |    | -     |

**14. Fellowships Awarded (National/International) Faculty/Students Stipend awarded :**

| S. No. | Agency | Position<br>(URF/JRF/SRF/RA/<br>others) | Number of Fellowships |   | Total |
|--------|--------|-----------------------------------------|-----------------------|---|-------|
|        |        |                                         | M                     | F |       |
| 1      |        |                                         |                       |   |       |

**15.Scholarships Awarded:**

| S. No. | Nature of Scholarship                    | P.G. |   | M.Phil. |   | Ph.D. |   | Total Amount Rs. |
|--------|------------------------------------------|------|---|---------|---|-------|---|------------------|
|        |                                          | M    | F | M       | F | M     | F |                  |
| 1      | B.C.(State)                              | -    | - |         |   |       |   |                  |
| 2      | B.C.M.(State)                            |      |   |         |   |       |   |                  |
| 3      | M.B.C./D.N.C.(State)                     |      |   |         |   |       |   |                  |
| 4      | SC/SCA/ST(National)                      |      |   |         |   |       |   |                  |
| 5      | SC/SCA/ST(State)                         |      |   |         |   |       |   |                  |
| 6      | Management Scholar ship                  |      |   |         |   |       |   |                  |
| 7      | Loan Scholarship                         |      |   |         |   |       |   |                  |
| 8      | Moovalur Ramamirtham Ammaiyar Scheme     |      |   |         |   |       |   |                  |
| 9      | 'Pudhumai Penn' (modern woman)           |      |   |         |   |       |   |                  |
| 10     | Others ( please Specify the scholarship) |      |   |         |   |       |   |                  |
|        | Total                                    |      |   |         |   |       |   |                  |

**16. Performance of the Students :**

| S. No | Course     | S1   |       | S2   |       | S3   |       | S4   |       | S5   |       | S6   |       | S7   |       | S8   |       |
|-------|------------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|
|       |            | App. | Pas s | App. | Pas s | App. | Pas s | App. | Pas s | App. | Pas s | App. | Pas s | App. | Pa ss | App. | Pa ss |
| 1     | B.Tec h NT |      |       |      |       |      |       |      |       |      |       |      |       |      |       | 1    | 1     |
| 2     | M.Tec h    |      |       |      |       |      |       | 6    | 6     |      |       |      |       |      |       |      |       |

**17. Placement Details:**

| <b>Name of the Placement co-ordinator:</b> |                                                                               |                            |        |
|--------------------------------------------|-------------------------------------------------------------------------------|----------------------------|--------|
| <b>Phone/Mobile Number :e-mail:</b>        |                                                                               |                            |        |
| <b>Number of Placement Programmes:</b>     |                                                                               |                            |        |
| S. No.                                     | Particulars                                                                   | Numbers of students placed |        |
|                                            |                                                                               | Male                       | Female |
| 1                                          | Number of Students Placed                                                     |                            |        |
| 2                                          | Number of Placements obtained through Campus Interview                        |                            |        |
| 3                                          | Ratio of Placement to Students (Total no of Placement / Total no of Students) |                            |        |

**18. Outstanding achievements by the Faculty Members:**

| S. No. | Name of the Faculty | Achievements | Agency |
|--------|---------------------|--------------|--------|
| 1      |                     |              |        |

**19. Outstanding achievements by Students:**

| S.No. | Name of the Student | Achievements | Agency |
|-------|---------------------|--------------|--------|
| 1     |                     |              |        |

**20. Department Meetings Held :**  
**BOS,Programme Committee, Course Committee etc.**

| S.No | Name                                         | Date   |  |
|------|----------------------------------------------|--------|--|
| 1.   | Course Committee<br>Programme Committee etc. | 5-7-22 |  |

**21. Infrastructure and Research facilities available (Please specify equipments more than Two Lakhs Only) :**

| S. No. | Name of the Lab | Name of the Equipments/Computer/Software/Others | Quantity | Purpose Research/Practical |
|--------|-----------------|-------------------------------------------------|----------|----------------------------|
| 1      | NCL             | XRD                                             | 1        | Research/Practical         |
| 2      | NCL             | AFM                                             | 1        | Research/Practical         |
| 3      | NCL             | TG/DTA                                          | 1        | Research/Practica          |

**22. Extension activities carried out :**

| S. No. | Name of the Activity | Beneficiaries | Date | Venue |
|--------|----------------------|---------------|------|-------|
| 1      |                      |               |      |       |

**23. Department Library/Learning Resources/ Information and Language Lab:**

Name of the Librarian or Faculty in-charge of the Library:

| S. No. | Particulars                                                           | Nos.      | S. No. | Particulars                                         | Nos. |
|--------|-----------------------------------------------------------------------|-----------|--------|-----------------------------------------------------|------|
| 1      | No. of books available                                                | 627       | 7      | No. of titles available                             | 575  |
| 2      | Books added during the year 2022-23                                   | -         | 8      | No. of CDs and Digital Books available              | -    |
| 3      | No. of Indian Journals/Magazines                                      | -         | 9      | No. of Foreign Magazines/Journals                   | -    |
| 4      | No. of data bases available                                           | -         | 10     | No. of Online Journals                              | -    |
| 5      | Average No. of students visiting the Library per day                  | 0.5       | 11     | Average No. of books Issued per day                 | 0.2  |
|        |                                                                       |           | 12     | No. of digital books                                | Nil  |
| 6      | Availability of Internet (Specify the Capacity) (e.g. – 8 Mbps etc.,) | Available | 13     | Availability of Language Lab                        | NIL  |
|        |                                                                       |           | 14     | NDL membership<br>1. Faculty members<br>2. Students | Nil  |

**24. Information and Communication Technology Resources:**

| S. No. | Name of the Equipment | Specifications | Nos. | S. No. | Name of the Equipment | Specifications | Nos. |
|--------|-----------------------|----------------|------|--------|-----------------------|----------------|------|
|        |                       |                |      |        |                       |                |      |

24.Collaborative Researches :

25.Consultancies :

1. Testing and Analysis Service at Nano Characterization Laboratory (Dr. R. S. Rimal Isaac, In Charge and Mr. Sathiesh Kumar, Lab Assistant)

26.No. of NET/SET/GATE/CSIR Qualified students:

27. MOUs signed :

| S.No | Date | MoU signed with   | Number of Activities | Remarks |
|------|------|-------------------|----------------------|---------|
| 1    |      | HiFi Technologies |                      |         |

28. Innovations and Best Practices :

Student Publications

29. Academic Flexibility :

| S.No | Courses offered | Platform (MOOC, NPTEL, etc.) | No. Students enrolled | No. of Students Passed |
|------|-----------------|------------------------------|-----------------------|------------------------|
|      |                 |                              |                       |                        |

**NAME OF THE DEPARTMENT: PHYSICS****1. Department Details :**

|                                          |                                                      |
|------------------------------------------|------------------------------------------------------|
| Name of the Faculty                      | <b>Faculty of Science and Humanities</b>             |
| Name of the HoD, Phone No. and E-mail ID | <b>Dr. B. Bindhu, 9500427092, bindhub@niuniv.com</b> |
| Year of Establishment                    | <b>1989</b>                                          |
| Telephone Number                         | <b>9500427092</b>                                    |
| Website / E mail                         | <b>www.niuniv.com</b>                                |

**2. Details of Faculty Members :**

| S. No. | Name of the Faculty  | Qualification               | Designation                                                                         | Specialisation                                                  | Experience in years |                   | E-mail ID &Phone/Cell Phone No.                                                    |
|--------|----------------------|-----------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------|-------------------|------------------------------------------------------------------------------------|
|        |                      |                             |                                                                                     |                                                                 | Teaching            | Research          |                                                                                    |
| 1.     | Dr. B. Bindhu        | M.Sc., M.Phil., Ph.D        | Professor & Head Dean, Faculty of Science and Humanities, Director, Student Affairs | Two-dimensional materials, Polymer composites, Material Science | 19                  | 15                | <a href="mailto:bindhub@niuniv.com">bindhub@niuniv.com</a> , 9500427092            |
| 2.     | Dr.V.N.Meena Devi    | M.Sc., Ph.D.                | Associate Professor                                                                 | Bio-energy, Environmental physics                               | 18 years 4 months   | 17 years 8 months | vndevi@gmail.com<br>9150235295                                                     |
| 3.     | Dr. C. Sagi Rani     | M.Sc., M.Phil., B.Ed., Ph.D | Assistant Professor                                                                 | Materials Science                                               | 14 years 8 months   | 13                | <a href="mailto:sagi_msu@yahoo.co.in">sagi_msu@yahoo.co.in</a><br>9750868394       |
| 4.     | Dr.N.Y.Sugirtha Suni | M.Sc., M.Phil. B.Ed., Ph.D  | Assistant Professor                                                                 | Crystal Growth                                                  | 14                  | 10                | <a href="mailto:sugirthasuni@niuniv.com">sugirthasuni@niuniv.com</a><br>9487746291 |
| 5.     | Mrs.P.Asha           | M.Sc., M.Phil. B.Ed.,       | Teaching Assistant                                                                  | Material science                                                | 1 yr 9 months       | 1 yr 5 months     | <a href="mailto:ashaphy@niuniv.com">ashaphy@niuniv.com</a><br>6381649056           |

### 3. Faculty Members Achievements / Performance:

| Sl. No. | Name                  | h index |            | Publications |            | Citations |            | API    |            | M.Phil. awarded |            | Ph.D. awarded |            | Cumulative Scholars |       |
|---------|-----------------------|---------|------------|--------------|------------|-----------|------------|--------|------------|-----------------|------------|---------------|------------|---------------------|-------|
|         |                       | 22-23   | Cumulative | 22-23        | Cumulative | 22-23     | Cumulative | 22-23  | Cumulative | 22-23           | Cumulative | 22-23         | Cumulative | M. Phil             | Ph.D. |
| 1.      | Dr. B. Bindhu         | 2       | 8          | 6            | 50         | 64        | 244        | 246.45 | 1799.63    | -               | 14         | 3             | 7          | 14                  | 7     |
| 2.      | Dr.V.N. Meena Devi    |         | 10         | 8            | 58         | 48        | 415        | 212    |            |                 | 13         |               |            |                     |       |
| 3.      | Dr.C.Sagi Rani        |         | 2          | 1            | 6          | 2         | 7          | 131.78 |            | -               | 3          | -             |            |                     |       |
| 4.      | Dr.N.Y.S ugirtha Suni | 1       | 2          | 1            | 6          | 3         | 5          | 138.82 |            |                 |            |               |            |                     |       |
| 5.      | Mrs. P. Asha          | 1       | 1          | 1            | 2          | 6         | 6          | 139.54 |            |                 |            |               |            |                     |       |

### 4. Research Schemes/Projects undertaken :

| S. No. | Name of the Principal Investigator | Funding Agency | Title of the Project | Duration |    | Amount Rs. |
|--------|------------------------------------|----------------|----------------------|----------|----|------------|
|        |                                    |                |                      | From     | To |            |
| 1      |                                    |                |                      |          |    |            |
| 2      |                                    |                |                      |          |    |            |

### 5. a) Participation of the Faculty members, presentation of papers in Congresses/Conferences/Seminars/Workshops,Symposia, etc.

| S. No. | Name of the Faculty | Congress/Conference/Seminar /Workshop and Venue                                                                   | Title of the paper                                                                                                  | Date                      |
|--------|---------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------|
| 1.     | Dr. B. Bindhu       | International Conference on Science and Technologies for Sustainable Development. Department of Chemistry, NICHE. | Analysis on the Advancement in the Production and Modifications of Zinc Ferrite (ZnFe <sub>2</sub> O <sub>4</sub> ) | 10 <sup>th</sup> May 2023 |
|        |                     | International Conference on Science and Technologies for Sustainable Development. Department of Chemistry, NICHE. | Synthesis and Surface Modification Of Boron Nitride For Water Purification Applications                             | 10 <sup>th</sup> May 2023 |
|        |                     | International Conference on Science and Technologies for Sustainable Development.                                 | Effective Synthesis and Characterization                                                                            | 10 <sup>th</sup> May 2023 |

|    |                    |                                                                                                                                                                 |                                                                                                |                                                 |
|----|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------|
|    |                    | Department of Chemistry, NICHE.                                                                                                                                 | of Surface Modified Boron Nitride Nanosheets for Energy Applications                           |                                                 |
|    |                    | International Conference on Science and Technologies for Sustainable Development. Department of Chemistry, NICHE.                                               | Synthesis and Antibacterial Activity of Zinc Oxide Nanoparticles                               | 10 <sup>th</sup> May 2023                       |
|    |                    | National Conference on Materials Science and Green Technology. Department of Physics NICHE.                                                                     | A Review on Water Treatment Applications of Two-Dimensional Materials                          | 9 <sup>th</sup> and 10 <sup>th</sup> March 2023 |
|    |                    | National Conference on Materials Science and Green Technology. Department of Physics NICHE.                                                                     | A Review on the Applications of TwoDimensional Nanomaterials in Energy Storage                 | 9 <sup>th</sup> and 10 <sup>th</sup> March 2023 |
|    |                    | National Conference on Materials Science and Green Technology. Department of Physics NICHE.                                                                     | Highly Stable Strontium Oxide-Silicone oil nanofluid for Green Machining Applications          | 9th and 10th March 2023                         |
|    |                    | National Conference on Materials Science and Green Technology. Department of Physics NICHE.                                                                     | Data Retrieval and Analysis of a SIM Card Using Forensic Software UFED, XRY and Magnet Axion   | 9th and 10th March 2023                         |
|    |                    | National Conference on Materials Science and Green Technology. Department of Physics NICHE.                                                                     | Evaluation of CT Number Consistency in Cone-Beam CT Calibration for Standard Imaging Protocols | 9th and 10th March 2023                         |
| 2. | Dr.V.N. Meena Devi | 4th International Conference on Emerging Trends in Multi-Disciplinary Research “ETMDR-2023”<br>Advanced Studies & Research Centre, Poornima University, Jaipur. | “Montecarlo Based Correction Factors for Small Field Detectors”                                | 2nd – 4th March 2023.                           |
|    |                    | 4th International Conference on Emerging Trends in Multi-                                                                                                       | “Feature Extraction for                                                                        | 2nd – 4th March                                 |

|    |                        |                                                                                                                   |                                                                                                           |               |
|----|------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------|
|    |                        | Disciplinary Research “ETMDR-2023”<br>Advanced Studies & Research Centre, Poornima University, Jaipur.            | Lung Cancer Detection using Adaptive Threshold Segmentation along with Support Vector Machine Classifier” | 2023.         |
| 3. | Dr. C. Sagi Rani       | International Conference on Science and Technologies for Sustainable Development. Department of Chemistry, NICHE. | “Studies on Nickel Ferrite Nanoparticles for its Electromagnetic Applications”                            | 10th May 2023 |
| 4. | Dr. N.Y. Sugirtha Suni | International Conference on Science and Technologies for Sustainable Development. Department of Chemistry, NICHE. | “Growth and Characterization of Adipic Acid doped Thiourea Single Crystal by Slow Evaporation Method”     | 10th May 2023 |
| 5. | Ms. P. Asha            | International Conference on Science and Technologies for Sustainable Development. Department of Chemistry, NICHE. | “Synthesis and Antibacterial Activity of Zinc Oxide Nanoparticles”                                        | 10th May 2023 |

**b) Foreign Faculty/Expert visit to the Department:**

| S. No. | Name & Designation                             | Institute                                                                             | Country | Duration                    | Purpose             |
|--------|------------------------------------------------|---------------------------------------------------------------------------------------|---------|-----------------------------|---------------------|
| 1.     | Dr. Renjith S Scientist B                      | Sree Chitra Tirunal Institute for Medical Sciences and Technology, Thiruvananthapuram | India   | 9 <sup>th</sup> March 2023  | National Conference |
| 2.     | Dr. Reena VL Research Officer                  | Siddha Regional Research Institute, Thiruvananthapuram                                | India   | 9 <sup>th</sup> March 2023  | National Conference |
| 3.     | Dr. Sharu B K Assistant Professor              | NIT Calicut                                                                           | India   | 10 <sup>th</sup> March 2023 | National Conference |
| 4      | Mr. Muhammed Shameem M Head, Dept. of Physics, | Brilliant Education Centre                                                            | Doha    | 21-02-2022                  | Guest Lecture       |
| 5      | Dr. B. Saju Bhasi Additional Professor,        | Regional Cancer Centre, Thiruvananthapuram                                            | India   | 23-02-2023                  | Guest Lecture       |

|   |                                                                                                |                                                                                                       |       |            |                  |
|---|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------|------------|------------------|
| 6 | Mrs. Smitha H<br>Assistant<br>Professor,<br>Department of<br>Physiology                        | Sree Gokulam<br>Medical College and<br>Research<br>Foundation,<br>Venjaramoodu,<br>Thiruvananthapuram | India | 24-04-2023 | Guest<br>Lecture |
| 7 | Dr. P. Libin Raj<br>Ph.D., SET.,<br>NET.<br>Assistant<br>Professor<br>Department of<br>Physics | Manonmaniam<br>Sundaranar<br>University<br>Tirunelveli.                                               | India | 13-05-2023 | Guest<br>Lecture |

**6. Faculty acted as Chief Guest, Key note Speakers, Resource Person, Chair Person, External experts, etc. :**

| S. No. | Name of the Faculty member | Role                      | Event                      | Title                                                          | Venue & Date                                        |
|--------|----------------------------|---------------------------|----------------------------|----------------------------------------------------------------|-----------------------------------------------------|
| 1.     | Dr. B. Bindhu              | External Subject Expert   | Board of Studies           | BOS in M.Sc. Physics                                           | Sadakathullah Appa College, Tirunelveli, 12.05.2023 |
|        |                            | External Expert-DC Member | Doctoral Committee Meeting | Doctoral Committee Meeting for Ph.D scholar Ms. Anisha Nashrin | Sadakathullah Appa College, Tirunelveli, 08.06.2023 |

**7. Details of Seminars, Conferences, Refresher courses, Webinars Organised :**

| S. No. | Name of the Faculty member | Congress/Conference/Seminar/ Workshop/Symposia , Webmniars etc. organised                                                     | State/National/ International Level | Date                  |
|--------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------|
| 1      | Dr. B. Bindhu              | CSIR Sponsored National Conference on Materials Science and Green Technology (NCMSGT-2023)                                    | National                            | 9th & 10th March 2023 |
| 2      | Dr. V.N. Meena Devi        | Webinar on Job oriented skill training by Avodha – India's Largest skill training platform educational institution in Kerala. | National                            | 24th January 2023     |
| 3      | Mrs. P. Asha               | Workshop on Career Opportunities in Physics                                                                                   | State                               | 2nd March 2023        |

## 8. Publication of Research Papers at the State/National/International Levels:

| S. No. | Author(s)                                                     | Title of the paper                                                                                                                                     | Journal with ISSN/Scopus/SCI/UGC care                         | Volume No. Issue No. | Year of Publication | Page(pp)    |
|--------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------|---------------------|-------------|
| 1.     | Renjini M. Nair, <b>B. Bindhu</b> & R. S. Rimal Isaac         | Boron nitride nanosheets dispersed biopolymer solution as an effective copper corrosion inhibitor in acidic medium                                     | Polymer Bulletin (SCI, Scopus and UGC-CARE)                   | 80                   | 2023                | 12849–12863 |
| 2.     | B Sarin, <b>B Bindhu</b> , P Raghu Kumar, S Sumeesh, B Saju   | Dosimetric accuracy of Acuros® XB and AAA algorithms for stereotactic body radiotherapy (SBRT) lung treatments: evaluation with PRIMO Monte Carlo code | Journal of Radiotherapy in Practice (Web of Science & Scopus) | 22                   | 2023                | 65          |
| 3.     | M Subitha, <b>B Bindhu</b>                                    | Synthesis, Characterization and Study on Enhanced Hydrophobicity of Novel PVC-MoS <sub>2</sub> Composites for Biomedical Applications                  | Journal of Pharmaceutical Negative Results (SCI)              | 13                   | 2022                | 1086-1090   |
| 4.     | Swapna Lilly Cyriac, <b>B Bindhu</b> , CV Midhun, MM Musthafa | Effects of Epithelial Neutron Irradiation on the Characteristics of the Porous Silicon                                                                 | Silicon (SCIE, Scopus & UGC-CARE)                             | 14                   | 2022                | 7879–7887   |
| 5.     | B Sarin, <b>B Bindhu</b> , B Saju, P Raghukumar,              | Clinical implementation of a PRIMO Monte Carlo-                                                                                                        | International Journal of Radiation Research                   | 20                   | 2022                | 563-570     |

|    |                                                                                                             |                                                                                                                                         |                                                                      |    |      |           |
|----|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----|------|-----------|
|    | RK Nair                                                                                                     | based dose verification and quality assurance model for stereotactic body radiotherapy (SBRT) treatment plans of the lung               | (Scopus, Web of Science, SCIE)                                       |    |      |           |
| 6. | B Sarin, <b>B Bindhu</b>                                                                                    | Secondary dose verification of radiotherapy treatment plans using Monte Carlo simulation                                                | Anusandhan                                                           | 11 | 2022 | 2640-2649 |
| 7. | Sarath S Nair, <b>V N Meena Devi</b> , Krishna Sharan, Jyothi Nagesh, Brahmaiah Nallapati, Shambhavi Kotian | A Dosimetric Study Comparing Different Radiotherapy Planning Techniques With and Without Deep Inspiratory Breath Hold for Breast Cancer | Cancer Management and Research (SCI)                                 | 14 | 2022 | 3581-3587 |
| 8. | Sneha S. Nair, <b>V. N. Meena Devi</b> and Saju Bhasi                                                       | Prediction and Classification of CT images for Early Detection of Lung Cancer Using Various Segmentation Models                         | International Journal of Electrical and Electronics Research (IJEER) | 10 | 2022 | 1027-1035 |
| 9. | Sneha S. Nair, <b>V. N. Meena Devi</b> and Saju Bhasi                                                       | Prediction of Lung Cancer With Modified Adaptive Threshold Image Segmentation Algorithm Based on Neural Networks                        | Semiconductor Optoelectronics                                        | 48 | 2022 | 538-545   |

|     |                                                        |                                                                                                                                                     |                                                     |          |      |           |
|-----|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----------|------|-----------|
| 10. | V.S. Murali and <b>V.N.Meena Devi</b>                  | Molecular Docking Study For Adenosine Monophosphate-Activated Protein Kinase Agonist From Syzygium Cumini For Treatment Of Diabetes Mellitus-Type 2 | Journal of Pharmaceutical Negative Results (SCOPUS) | 14       | 2023 |           |
| 11. | P.S. Renil Mon, <b>V.N. Meena Devi</b> and Saju Bhasi  | Monte Carlo modelling and validation of the elekta synergy medical linear accelerator equipped with radiosurgical cones                             | Heliyon (SCI)                                       | 9        | 2023 |           |
| 12. | C. K. Sreeja, <b>V. N. Meena Devi</b> and M. K. Aneesh | A novel neural network method using radial basis function for effective assessment of stiffness index on lumbar disc degenerative subjects          | Automatika (SCI)                                    | 64       | 2023 | 964-970   |
| 13. | Neeraja S M, <b>B. Bindhu</b> and Vidhya Krishna D V   | Synthesis and Surface Modification of Boron Nitride for Water Purification Applications                                                             | Conference Proceedings ISBN: 978-81-945891-2-9      | Volume:1 | 2023 | 179 - 189 |
| 14. | Aswathy Chandra Y C and <b>B. Bindhu</b>               | Analysis on the Advancement in the Production and Modifications of Zinc Ferrite (ZnFe <sub>2</sub> O <sub>4</sub> )                                 | Conference Proceedings ISBN: 978-81-945891-2-9      | Volume:1 | 2023 | 173-178   |
| 15. | Shamsiya Shams, <b>B. Bindhu</b> and                   | Effective Synthesis and Characterization of Surface                                                                                                 | Conference Proceeding ISBN: 978-81-945891-2-9       | Volume:1 | 2023 | 190 - 199 |

|     |                                                   |                                                                                                           |                                                   |          |      |           |
|-----|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------|----------|------|-----------|
|     | Aiswarya M                                        | Modified Boron Nitride Nanosheets for Energy Applications                                                 |                                                   |          |      |           |
| 16. | Smitha H, <b>Meena Devi V N</b> and Sreekanth K S | Characterization of MRI orthogonal Planes for the differential diagnosis of non tumor brain lesions       | Conference Proceeding<br>ISBN: 978-81-945891-2-9  | Volume:1 | 2023 | 278 - 284 |
| 17. | <b>V.N. Meena Devi</b><br>M. Ani                  | Exploring Sustainable Methods for Removing Harmful Dyes from Wastewater                                   | Conference Proceeding<br>ISBN: 978-81-945891-2-9  | Volume:1 | 2023 | 231 - 245 |
| 18. | M. Minisha and <b>C. Sagi Rani</b>                | Effect of Annealing on the Structural Studies of Cobalt Ferrite Nanoparticles by Thermal Treatment Method | Conference Proceeding<br>ISBN: 978-81-945891-2-9  | Volume:1 | 2023 | 253 - 259 |
| 19. | <b>C. Sagi Rani</b>                               | Studies on Nickel Ferrite Nanoparticles for its Electromagnetic Applications                              | Conference Proceedings<br>ISBN: 978-81-945891-2-9 | Volume:1 | 2023 | 260       |
| 20. | <b>P.Asha and B. Bindhu</b>                       | Synthesis and Antibacterial Activity of Zinc Oxide Nanoparticles                                          | Conference Proceedings<br>ISBN: 978-81-945891-2-9 | Volume:1 | 2023 | 263 - 269 |
| 21. | <b>N.Y.Sugirtha Suni</b>                          | Growth and Characterization of Adipic Acid Doped Thiourea Single Crystal by Slow Evaporation Method       | Conference Proceedings<br>ISBN: 978-81-945891-2-9 | Volume:1 | 2023 | 270 - 277 |

**9. Details of patents applied/awarded:**

| <b>S.No.</b> | <b>Name of the Faculty member</b> | <b>Title</b>                                                                           | <b>Date of filling</b> | <b>Application No.</b> | <b>Award No.</b>                                |
|--------------|-----------------------------------|----------------------------------------------------------------------------------------|------------------------|------------------------|-------------------------------------------------|
| 1            | Dr. B. Bindhu                     | Low Temperature Synthesis of Calcium and Hafnium Co-Doped Barium Titanate Nano Ceramic | 27.06.2019             | 201941025611           | Reply Filed. Application in amended examination |

**10. Publications of Books/Monographs:**

| <b>S. No.</b> | <b>Author(s)</b>                 | <b>Name of the Book with ISBN</b>                                                  | <b>Publisher/Place</b>                        | <b>Year</b> |
|---------------|----------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------|-------------|
| 1             | Shamsiya Shams, <b>B. Bindhu</b> | Applications of Nanomaterials in Energy Storage and Electronics, 978-981-5050-71-4 | Bentham Science Publishers Pvt Ltd, Singapore | 2022        |

### 11. Courses offered, Sanctioned Strength of Students and Enrolment details:

| S. NO. | Name of the Programme / Branch of study | Sancti oned Streng th | Enrolment during 2022-23 |   | Total | Community |   |    |   |     |   |          |   |    |   |     |   |    |   | Existing Students, Strength |   |          |   |         |   |     |   | Pass Percenta ge of out going batch |
|--------|-----------------------------------------|-----------------------|--------------------------|---|-------|-----------|---|----|---|-----|---|----------|---|----|---|-----|---|----|---|-----------------------------|---|----------|---|---------|---|-----|---|-------------------------------------|
|        |                                         |                       | F                        | M |       | OC        |   | BC |   | BCM |   | MBC/ DNC |   | SC |   | SCA |   | ST |   | II year                     |   | III year |   | IV year |   |     |   |                                     |
|        |                                         |                       |                          |   |       | M         | F | M  | F | M   | F | M        | F | M  | F | M   | F | M  | F | M                           | F | M        | F | M       | F | M   | F |                                     |
|        | UG Programme                            |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |     |   |                                     |
|        | PG Courses                              | 25                    | 5                        | 2 | 7     |           | 2 | 1  | 2 |     |   |          |   |    | 1 |     |   |    |   | 1                           | 5 |          |   |         |   | 100 |   |                                     |
|        | Ph.D Programme                          | 18                    | 3                        | 1 | 4     |           | 1 | 1  | 2 |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |     |   |                                     |
|        | Diploma Certificate Courses (if any)    |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |     |   |                                     |
|        | MOOC/NPTEL/UG C online courses offered  |                       |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |     |   |                                     |
|        | Total                                   | 43                    |                          |   |       |           |   |    |   |     |   |          |   |    |   |     |   |    |   |                             |   |          |   |         |   |     |   |                                     |

## 12. Enrolment of Students from Overseas and other States:

| S. No. | Degree and Subject | Nationality | State  | Number of Students |        | Total |
|--------|--------------------|-------------|--------|--------------------|--------|-------|
|        |                    |             |        | Male               | Female |       |
| 1.     | Ph.D               | Indian      | Kerala |                    | 1      |       |

## 13. U.G./P.G. and Research degrees awarded:

| S. No | UG |       | P.G.   |       | M. Phil. |    |    |       | Ph.D.  |    |    |       |
|-------|----|-------|--------|-------|----------|----|----|-------|--------|----|----|-------|
|       |    | Total |        | Total |          | FT | PT | Total |        | FT | PT | Total |
| 1.    |    |       | Male   | 1     |          |    |    |       | Male   |    | 4  | 4     |
|       |    |       | Female | 6     |          |    |    |       | Female |    |    |       |

## 14. Fellowships Awarded (National/International) Faculty/Students Stipend awarded :

| S. No. | Agency | Position (URF/JRF/SRF/RA/ others) | Number of Fellowships |   | Total |
|--------|--------|-----------------------------------|-----------------------|---|-------|
|        |        |                                   | M                     | F |       |
| 1      |        |                                   |                       |   |       |

## 15.Scholarships Awarded:

| S. No. | Nature of Scholarship                    | P.G. |   | M.Phil. |   | Ph.D. |   | Total Amount Rs. |
|--------|------------------------------------------|------|---|---------|---|-------|---|------------------|
|        |                                          | M    | F | M       | F | M     | F |                  |
| 1      | B.C.(State)                              |      |   |         |   |       |   |                  |
| 2      | B.C.M.(State)                            |      |   |         |   |       |   |                  |
| 3      | M.B.C./D.N.C.(State)                     |      |   |         |   |       |   |                  |
| 4      | SC/SCA/ST(National)                      |      |   |         |   |       |   |                  |
| 5      | SC/SCA/ST(State)                         |      |   |         |   |       |   |                  |
| 6      | Management Scholar ship                  |      |   |         |   |       |   |                  |
| 7      | Loan Scholarship                         |      |   |         |   |       |   |                  |
| 8      | Moovalur Ramamirtham Ammaiyar Scheme     |      |   |         |   |       |   |                  |
| 9      | 'Pudhumai Penn' (modern woman)           |      |   |         |   |       |   |                  |
| 10     | Others ( please Specify the scholarship) |      |   |         |   |       |   |                  |
|        | Total                                    |      |   |         |   |       |   |                  |

## 16. Performance of the Students :

| S. No | Course | S1   |      | S2   |      | S3   |      | S4   |      | S5   |      | S6   |      | S7   |      | S8   |      |
|-------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|       |        | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass |
| 1.    | M.Sc   | 06   | 05   | 06   | 05   | 07   | 06   | 07   | 07   |      |      |      |      |      |      |      |      |

## 17. Placement Details:

| <b>Name of the Placement co-ordinator:</b> Dr.V.N.Meena Devi |                               |  |  |  |  |  |                            |  |  |        |  |  |
|--------------------------------------------------------------|-------------------------------|--|--|--|--|--|----------------------------|--|--|--------|--|--|
| <b>Phone/Mobile Number :e-mail:</b> vndevi@gmail.com         |                               |  |  |  |  |  |                            |  |  |        |  |  |
| <b>Number of Placement Programmes:</b>                       |                               |  |  |  |  |  |                            |  |  |        |  |  |
| S. No.                                                       | Particulars                   |  |  |  |  |  | Numbers of students placed |  |  |        |  |  |
|                                                              |                               |  |  |  |  |  | Male                       |  |  | Female |  |  |
| 1                                                            | Number of Students Placed     |  |  |  |  |  |                            |  |  | 1      |  |  |
| 2                                                            | Number of Placements obtained |  |  |  |  |  |                            |  |  | 2      |  |  |

|   |                                                                               |  |              |
|---|-------------------------------------------------------------------------------|--|--------------|
|   | through Campus Interview                                                      |  |              |
| 3 | Ratio of Placement to Students (Total no of Placement / Total no of Students) |  | 3/7 = 42.86% |

#### 18. Outstanding achievements by the Faculty Members:

| S. No. | Name of the Faculty | Achievements                                                                    | Agency                                                                              |
|--------|---------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1.     | Dr. B.Bindhu        | Doctoral Committee Member                                                       | M.S. University Tirunelveli.                                                        |
|        |                     | External Member in the Board of Studies, Science and Humanities (Physics) 2022. | PSN College of Engineering and Technology (Autonomous), Melathediyoar, Tirunelveli. |
|        |                     | External Member in the Board of Studies (M.Sc. Physics) 2022.                   | Sadakathullah Appa College, Tirunelveli                                             |

#### 19. Outstanding achievements by Students:

| S.No. | Name of the Student | Achievements                                                                                            | Agency                                                            |
|-------|---------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| 1.    | Y. Arockia Navina   | Skill Development Training Programme on "Solar Energy Technologies: Fundamentals to Device Fabrication" | CSIR- Central Electrochemical Research Institute, Karaikudi.      |
| 2.    | C. Ashilin Jafi     | Skill Development Training Programme on "Solar Energy Technologies: Fundamentals to Device Fabrication" | CSIR- Central Electrochemical Research Institute, Karaikudi.      |
| 3.    | L. Jenani Devan     | Skill Development Training Programme on "Solar Energy Technologies: Fundamentals to Device Fabrication" | CSIR- Central Electrochemical Research Institute, Karaikudi.      |
| 4.    | M.S. Parvathi       | Skill Development Training Programme on "Solar Energy Technologies: Fundamentals to Device Fabrication" | CSIR- Central Electrochemical Research Institute, Karaikudi.      |
| 5.    | V.B. Varsha         | Skill Development Training Programme on "Solar Energy Technologies: Fundamentals to Device Fabrication" | CSIR- Central Electrochemical Research Institute, Karaikudi.      |
| 6.    | Ani M               | Completion of Internship                                                                                | Biomeitez Research & Development Pvt. Ltd., Kanyakumari District. |

**20. Department Meetings Held :  
BOS, Programme Committee, Course Committee etc.**

| S.No | Name                     | Date: Odd Sem                                                                                                      | Date: Even Sem                                                                                                                                           |
|------|--------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.   | BOS                      | 24-02-2023                                                                                                         | 10-06-2023                                                                                                                                               |
| 2.   | Course Committee         | 31-10-2022 (S1)<br>26-11-2022 (S1)<br>22-12-2022 (S1)                                                              |                                                                                                                                                          |
| 3.   | Class Committee          | 22-07-2022 (S3)<br>25-08-2022 (S3)<br><br>26-10-2022 (S1)<br>25-11-2022 (S1)<br>22-12-2022 (S1)<br>10-02-2023 (S1) | 20-01-2023 (S4)<br>15-02-2023 (S4)<br>13-03-2023 (S4)<br>27-04-2023 (S4)<br><br>14-03-2023 (S2)<br>19-04-2023 (S2)<br>23-05-2023 (S2)<br>23-06-2023 (S2) |
| 4.   | Programme Committee etc. | 17-11-2022 (S1)<br>13-12-2022 (S1)<br>03-02-2023 (S1)                                                              | 05-04-2023 (S2)<br>13-05-2023 (S2)<br>21-06-2023 (S2)                                                                                                    |

**21. Infrastructure and Research facilities available (Please specify equipments more than Two Lakhs Only) :**

| S. No. | Name of the Lab | Name of the Equipments/Computer/Software/Others | Quantity | Purpose Research/Practical |
|--------|-----------------|-------------------------------------------------|----------|----------------------------|
|        |                 |                                                 |          |                            |

**22. Extension activities carried out :**

| S. No. | Name of the Activity | Beneficiaries | Date       | Venue             |
|--------|----------------------|---------------|------------|-------------------|
| 1      | Cleaning             | 14            | 20-04-2023 | Sanguthurai Beach |

**23. Department Library/Learning Resources/ Information and Language Lab:**

Name of the Librarian or Faculty in-charge of the Library: Dr.N.Y.Sugirtha Suni

| S. No. | Particulars                                                           | Nos. | S. No. | Particulars                                         | Nos. |
|--------|-----------------------------------------------------------------------|------|--------|-----------------------------------------------------|------|
| 1      | No. of books available                                                | 698  | 7      | No. of titles available                             | -    |
| 2      | Books added during the year 2022-23                                   | 24   | 8      | No. of CDs and Digital Books available              | 30   |
| 3      | No. of Indian Journals/Magazines                                      | -    | 9      | No. of Foreign Magazines/Journals                   | -    |
| 4      | No. of data bases available                                           | -    | 10     | No. of Online Journals                              | -    |
| 5      | Average No. of students visiting the Library per day                  | 5    | 11     | Average No. of books Issued per day                 |      |
|        |                                                                       |      | 12     | No. of digital books                                | -    |
| 6      | Availability of Internet (Specify the Capacity) (e.g. – 8 Mbps etc.,) | -    | 13     | Availability of Language Lab                        | -    |
|        |                                                                       |      | 14     | NDL membership<br>1. Faculty members<br>2. Students | -    |

**24. Information and Communication Technology Resources:**

| S. No. | Name of the Equipment | Specifications | Nos. | S. No. | Name of the Equipment | Specifications | Nos. |
|--------|-----------------------|----------------|------|--------|-----------------------|----------------|------|
|        |                       |                |      |        |                       |                |      |

**24.Collaborative Researches :** Division of Radiation Physics, Regional Cancer Centre, Thiruvananthapuram, Kerala, India

**25.Consultancies : Nil**

**26.No. of NET/SET/GATE/CSIR Qualified students: Nil**

**27. MOUs signed :2**

| S.No | Date       | MoU signed with                                                                                  | Number of Activities | Remarks                                   |
|------|------------|--------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------|
| 1.   | 15-03-2023 | Monotech Systems Limited, 8B Chaitanya Exotica, 24 Vekatanaraya Road, T Nagar, Chennai-600 017.  | 1                    | Project proposal submitted to CSIR-Aspire |
| 2.   | 15-03-2023 | Biomeitez Research and Development Pvt, 2-165/7, /North Saral, Saral Post, Kanyakumari District. | 2                    |                                           |

**28. Innovations and Best Practices :** Organize Conferences/Seminars/Workshops periodically, Research publications, Class and subject log books-

**29. Academic Flexibility :**

| S.No | Courses offered | Platform (MOOC, NPTEL, etc.) | No. Students enrolled | No. of Students Passed |
|------|-----------------|------------------------------|-----------------------|------------------------|
|      |                 |                              |                       |                        |

## NAME OF THE DEPARTMENT: SOFTWARE ENGINEERING

### 1. Department Details :

|                                                 |                                                  |
|-------------------------------------------------|--------------------------------------------------|
| <b>Name of the Faculty</b>                      | Computer Science                                 |
| <b>Name of the HoD, Phone No. and E-mail ID</b> | Dr. J. P. Jayan, 9488081200,<br>jayan@niuniv.com |
| <b>Year of Establishment</b>                    | 1999                                             |
| <b>Telephone Number</b>                         | 9486856112                                       |
| <b>Website / E mail</b>                         | software@niuniv.com                              |

### 2. Details of Faculty Members :

| S. No. | Name of the Faculty             | Qualification           | Designation          | Specialisation       | Experience in years |          | E-mail ID &Phone/Cell Phone No.                                                                 |
|--------|---------------------------------|-------------------------|----------------------|----------------------|---------------------|----------|-------------------------------------------------------------------------------------------------|
|        |                                 |                         |                      |                      | Teaching            | Research |                                                                                                 |
| 1      | Dr. J. Charles                  | M.Sc., M.Tech., Ph.D    | Associate Professor  | Software Engineering | 26                  |          | <a href="mailto:jebapillaicharles@gmail.com">jebapillaicharles@gmail.com</a><br>Mob: 9025729699 |
| 2      | Dr. J.P. Jayan                  | M.C.A., M. Phil., Ph.D. | Associate Professor  | Image Processing     | 17Y<br>3 M          |          | jayan@niuniv.com<br>Mob: 9488081200                                                             |
| 3      | Dr. S. Jerine                   | M. Sc.,M. Phil., Ph.D.  | Associate Professor  | Networking           | 18Y<br>5 M          |          | <a href="mailto:jerine@niuniv.com">jerine@niuniv.com</a><br>Mob: 9486007267                     |
| 4      | Dr. R.I. Heaven Rose            | M.Sc., M. Phil., Ph.D.  | Associate Professor  | Data Mining          | 16Y<br>11M          |          | <a href="mailto:heavenrose@niuniv.com">heavenrose@niuniv.com</a><br>Mob: 9965406285             |
| 5      | Dr. P.V. Samuel Blessed Nayagam | M.Sc., M. Phil.,Ph.D.   | Associate Professor  | Cloud Computing      | 16Y<br>2 M          |          | <a href="mailto:Samuel@niuniv.com">Samuel@niuniv.com</a><br>Mob: 9443693861                     |
| 6      | Dr. V. Alan Gowri Phivin        | M.C.A., M. Phil., Ph.D. | Assistatnt Professor | Data Mining          | 17Y<br>3M           |          | <a href="mailto:alanshaney@gmail.com">alanshaney@gmail.com</a><br>Mob: 9442130260               |

### 3. Faculty Members Achievements /Performance:

| S. No. | Name           | h index |            | Publications |            | Citations |            | API   |            | M.Phil. awarded |            | Ph.D. awarded |            | Cumulative Scholars |       |
|--------|----------------|---------|------------|--------------|------------|-----------|------------|-------|------------|-----------------|------------|---------------|------------|---------------------|-------|
|        |                | 22-23   | Cumulative | 22-23        | Cumulative | 22-23     | Cumulative | 22-23 | Cumulative | 22-23           | Cumulative | 22-23         | Cumulative | M. Phil             | Ph.D. |
| 1      | Dr. J. Charles | 1       | 1          | 2            | 4          | -         | -          |       |            | -               | -          | -             | -          | -                   | 6     |
| 2      | Dr. J.P. Jayan | 1       | 3          | -            | 18         | 4         | 13         |       |            | -               | 15         | -             | -          | 15                  | 5     |
| 3      | Dr. S. Jerine  | 1       | 3          | 2            | 9          | 4         | 13         |       |            | -               | 15         | -             | -          | 15                  | 6     |

|          |                                 |   |          |   |          |   |   |  |  |   |           |   |   |           |   |
|----------|---------------------------------|---|----------|---|----------|---|---|--|--|---|-----------|---|---|-----------|---|
| <b>4</b> | Dr. R.I. Heaven Rose            | - | <b>1</b> | - | <b>3</b> | - | - |  |  | - | <b>13</b> | - | - | <b>13</b> | - |
| <b>5</b> | Dr. P.V. Samuel Blessed Nayagam | - | <b>1</b> | - | <b>3</b> | - | - |  |  | - | <b>10</b> | - | - | <b>10</b> | - |
| <b>6</b> | Dr. V. Alan Gowri Phivin        | - | <b>1</b> | - | <b>3</b> | - | - |  |  | - | <b>13</b> | - | - | <b>13</b> | - |

#### 4.. Research Schemes/Projects undertaken :

| S. No. | Name of the Principal Investigator | Funding Agency | Title of the Project | Duration |    | Amount Rs. |
|--------|------------------------------------|----------------|----------------------|----------|----|------------|
|        |                                    |                |                      | From     | To |            |
| 1      | NIL                                |                |                      |          |    |            |

#### 5. a) Participation of the Faculty members, presentation of papers in Congresses/Conferences/Seminars/Workshops, Symposia, etc.

| S. No.   | Name of the Faculty | Congress/Conference/Seminar/Workshop and Venue                   | Title of the paper                                                                                        | Date                                           |
|----------|---------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------|
| <b>1</b> | J. P. Jayan         | National Conference on Innovative Research in Advanced Computing | Mapping the Research Landscape of Adaptive Gamification: A Bibliometric Survey                            | 11 <sup>th</sup> April 2023                    |
| <b>2</b> | J. P. Jayan         | National Conference on Innovative Research in Advanced Computing | A Systematic Review of Recent studies that used ML techniques for early detection and diagnosis of NAFLD  | 11 <sup>th</sup> April 2023                    |
| <b>3</b> | J. P. Jayan         | National Conference on Innovative Research in Advanced Computing | Survey on Lung Cancer Identification using Data Mining Techniques                                         | 11 <sup>th</sup> April 2023                    |
| <b>4</b> | J. P. Jayan         | National Conference on Innovative Research in Advanced Computing | Air Contamination Checking framework over IoT: A Survey of existing literature and proposed framework     | 11 <sup>th</sup> April 2023                    |
| <b>5</b> | J. P. Jayan         | ICCICCT-2023                                                     | An Automated early prediction of Lung Cancer in Chest using Countour Based segmentation                   | 27 <sup>th</sup> & 28 <sup>th</sup> April 2023 |
| <b>6</b> | J. P. Jayan         | ICCICCT-2023                                                     | A Novel Biometric Approach for person verification utilizing finger knuckle shape and surface examination | 27 <sup>th</sup> & 28 <sup>th</sup> April 2023 |
| <b>7</b> | J. P. Jayan         | ICCICCT-2023                                                     | Improving human health and environmental sustainability: An                                               | 27 <sup>th</sup> & 28 <sup>th</sup> April 2023 |

|    |                              |                                                                               |                                                                                                                        |                                                 |
|----|------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
|    |                              |                                                                               | IoT Based framework for monitoring Air Contamination in real time                                                      |                                                 |
| 8  | S. Jerine                    | ICICICT-2022                                                                  | Disease Classification Techniques - A Survey<br>pp. 64–71                                                              | 11 <sup>th</sup> & 12 <sup>th</sup> August 2022 |
| 9  | S. Jerine                    | NCIRAC'23                                                                     | Skin Disease Classification using Optimization Techniques<br>PP: 42-44                                                 | 11 <sup>th</sup> April 2023                     |
| 10 | S. Jerine                    | NCIRAC'23                                                                     | Mechanism Of Wireless Sensor Networks By Fault –Tolerant Clustering Topology<br>pp: 80-82                              | 11 <sup>th</sup> April 2023                     |
| 11 | S. Jerine                    | NCIRAC'23                                                                     | Evaluation of Object 3D X-Ray security screening<br>PP: 96-98                                                          | 11 <sup>th</sup> April 2023                     |
| 12 | S. Jerine                    | ICETEAS 2023                                                                  | MANET Routing with Deep Maxout based Energy Prediction- A Hybrid Optimization for Clustering and Routing<br>pp: 99-103 | 12 <sup>th</sup> & 13 <sup>th</sup> April 2023  |
| 13 | S. Jerine                    | ICCICCT-2023                                                                  | Pre-Processing Skin Disease Images Using Histogram Equalization<br>pp: 284- 289                                        | 27 <sup>th</sup> & 28 <sup>th</sup> April 2023  |
| 14 | S. Jerine                    | ICNCA 2023                                                                    | Fault tolerant Mechanism for WSN                                                                                       | 5 <sup>th</sup> May 2023                        |
| 15 | S. Jerine                    | ICNCA 2023                                                                    | MANET Routing with Deep Maxout based Energy Prediction- A Hybrid Optimization for Clustering and Routing               | 5 <sup>th</sup> May 2023                        |
| 16 | S. Jerine                    | ICNCA 2023                                                                    | Evaluating the Classifications of Skin Lesion using Machine Learning Approaches                                        | 5 <sup>th</sup> May 2023                        |
| 17 | R. I. Heaven Rose            | National conference on Innovative Research in Advanced Computing - NCIRAC '23 | Online Food Ordering System With our state – of-art Payment System                                                     | 11 <sup>th</sup> April 2023                     |
| 18 | P. V. Samuel Blessed Nayagam | ICNCA 2023                                                                    | Performance evaluation of congestion control algorithms in computer communication networks                             | 5 <sup>th</sup> May 2023                        |

**b) Foreign Faculty/Expert visit to the Department:**

| S. No. | Name & Designation | Institute | Country | Duration | Purpose |
|--------|--------------------|-----------|---------|----------|---------|
|--------|--------------------|-----------|---------|----------|---------|

|   |     |  |  |  |  |
|---|-----|--|--|--|--|
| 1 | NIL |  |  |  |  |
| 2 |     |  |  |  |  |

**6. Faculty acted as Chief Guest, Key note Speakers, Resource Person, Chair Person, External experts, etc. :**

| S. No. | Name of the Faculty member | Role             | Event      | Title                                | Venue & Date                                                                                     |
|--------|----------------------------|------------------|------------|--------------------------------------|--------------------------------------------------------------------------------------------------|
| 1      | J. P. Jayan                | Key note speaker | Conference | Recent technologies in IT Industries | PG and Research department, Muslim Arts College, Thiruvithamcode 29 <sup>th</sup> September 2022 |

**7. Details of Seminars, Conferences, Refresher courses, Webminars Organised:**

| S. No. | Name of the Faculty member | Congress/Conference/Seminar/ Workshop/Symposia , Webminars etc. organised | State/National/ International Level | Date                        |
|--------|----------------------------|---------------------------------------------------------------------------|-------------------------------------|-----------------------------|
| 1      | Software Engineering       | Conference                                                                | National                            | 11 <sup>th</sup> April 2023 |

**8. Publication of Research Papers at the State/National/International Levels:**

| S. No. | Author(s )  | Title of the paper                                                                                                   | Journal with ISSN/Scopus/SCI/UGC care                             | Volume No. Issue No. | Year of Publication | Page(pp) |
|--------|-------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------|---------------------|----------|
| 1      | J. Charles  | Analysis of Cost Estimation using the web metrics and Cost driver in the high performance of web developers          | AUTOMATIK A Scopus                                                |                      | May 2023            |          |
| 2      | J. Charles  | Investigation of Single and Multiple Mutations prediction using Binary Classification Approach                       | Intelligent Automation and Soft Computing SCI                     |                      | 2023                |          |
| 3      | J. P. Jayan | Automatic detection of solitary pulmonary nodules using superpixels segmentation based iterative clustering approach | Journal of Ambient Intelligence and Humanized Computing 1868-5145 |                      | 2022                |          |
| 4      | S. Jerine   | Deep Learning based Melanoma detection with optimized features via Hybrid algorithm                                  | International Journal of Image and Graphics                       |                      | September 2022      |          |

|   |           |                                                                                       |                                                                       |  |               |  |
|---|-----------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--|---------------|--|
|   |           |                                                                                       | Scopus<br>ISSN : 0219-4678                                            |  |               |  |
| 5 | S. Jerine | Skin lesion analysis towards Melanoma Detection using Optimized Deep Learning Network | <b>Multimedia Tools and Applications</b><br>SCI<br>E ISSN : 1573-7721 |  | February 2023 |  |

#### 9. Details of patents applied/awarded:

| S.No. | Name of the Faculty member                                                              | Title                            | Date of filling | Application No. | Award No.  |
|-------|-----------------------------------------------------------------------------------------|----------------------------------|-----------------|-----------------|------------|
| 1     | Dr. J. P. Jayan,<br>Dr. S. Jerine,<br>Dr. R.I. Heaven Rose,<br>Dr. V. Alan Gowri Phivin | IoT based Food processing system | 15 June 23      | 387239-001.     | 387021-001 |

#### 10. Publications of Books/Monographs:

| S. No. | Author(s) | Name of the Book with ISBN | Publisher/Place | Year |
|--------|-----------|----------------------------|-----------------|------|
| 1      | -         |                            |                 |      |

**11. Courses offered, Sanctioned Strength of Students and Enrolment details:**

| S. NO. | Name of the Programme / Branch of study | Sanctioned Strength | Enrolment during 2022-23 |    | Total | Community |   |    |   |     |   |         |   |    |   |     |   |    |   | Existing Students, Strength |   |          |   |         |   |   |   | Pass Percentage of outgoing batch |
|--------|-----------------------------------------|---------------------|--------------------------|----|-------|-----------|---|----|---|-----|---|---------|---|----|---|-----|---|----|---|-----------------------------|---|----------|---|---------|---|---|---|-----------------------------------|
|        |                                         |                     | F                        | M  |       | OC        |   | BC |   | BCM |   | MBC/DNC |   | SC |   | SCA |   | ST |   | II year                     |   | III year |   | IV year |   |   |   |                                   |
|        |                                         |                     |                          |    |       | M         | F | M  | F | M   | F | M       | F | M  | F | M   | F | M  | F | M                           | F | M        | F | M       | F | M | F |                                   |
|        | UG Programme                            | 40                  | 2                        | 30 | 32    | 2         | - | 21 | 3 | 1   | - | 3       | - | 2  | - | -   | - | -  | - | 7                           | 1 | 0        | 0 | 0       | 0 | - |   |                                   |
|        | PG Courses                              |                     |                          |    |       |           |   |    |   |     |   |         |   |    |   |     |   |    |   |                             |   |          |   |         |   |   |   |                                   |
|        | Ph.D Programme                          |                     |                          |    |       |           |   |    |   |     |   |         |   |    |   |     |   |    |   |                             |   |          |   |         |   |   |   |                                   |
|        | Diploma Certificate Courses (if any)    |                     |                          |    |       |           |   |    |   |     |   |         |   |    |   |     |   |    |   |                             |   |          |   |         |   |   |   |                                   |
|        | MOOC/NPTEL/UGC online courses offered   |                     |                          |    |       |           |   |    |   |     |   |         |   |    |   |     |   |    |   |                             |   |          |   |         |   |   |   |                                   |
|        | Total                                   | 30                  |                          |    |       |           |   |    |   |     |   |         |   |    |   |     |   |    |   |                             |   |          |   |         |   |   |   |                                   |

**12. Enrolment of Students from Overseas and other States:**

| S. No. | Degree and Subject     | Nationality | State  | Number of Students |        | Total |
|--------|------------------------|-------------|--------|--------------------|--------|-------|
|        |                        |             |        | Male               | Female |       |
| 1      | B. Sc Computer Science | Indian      | Kerala | 1                  | -      | 1     |

**13. U.G./P.G. and Research degrees awarded:**

| S. No | UG |       | P.G. |       | M. Phil. |    |    |       | Ph.D. |    |    |       |
|-------|----|-------|------|-------|----------|----|----|-------|-------|----|----|-------|
|       |    | Total |      | Total |          | FT | PT | Total |       | FT | PT | Total |
| 1     |    | -     |      | -     | -        | -  | -  | -     | -     | 1  | 2  | 3     |

**14. Fellowships Awarded (National/International) Faculty/Students Stipend awarded :**

| S. No. | Agency | Position (URF/JRF/SRF/RA/ others) | Number of Fellowships |   | Total |
|--------|--------|-----------------------------------|-----------------------|---|-------|
|        |        |                                   | M                     | F |       |
| 1      | -      |                                   |                       |   |       |

**15.Scholarships Awarded:**

| S. No. | Nature of Scholarship                    | P.G. |   | M.Phil. |   | Ph.D. |   | Total Amount Rs. |
|--------|------------------------------------------|------|---|---------|---|-------|---|------------------|
|        |                                          | M    | F | M       | F | M     | F |                  |
| 1      | B.C.(State)                              |      |   |         |   |       |   |                  |
| 2      | B.C.M.(State)                            |      |   |         |   |       |   |                  |
| 3      | M.B.C./D.N.C.(State)                     |      |   |         |   |       |   |                  |
| 4      | SC/SCA/ST(National)                      |      |   |         |   |       |   |                  |
| 5      | SC/SCA/ST(State)                         |      |   |         |   |       |   |                  |
| 6      | Management Scholar ship                  |      |   |         |   |       |   |                  |
| 7      | Loan Scholarship                         |      |   |         |   |       |   |                  |
| 8      | MoovalurRamamirthamAmmayyar Scheme       |      |   |         |   |       |   |                  |
| 9      | 'Pudhumai Penn' (modern woman)           |      |   |         |   |       |   |                  |
| 10     | Others ( please Specify the scholarship) |      |   |         |   |       |   |                  |
|        | Total                                    |      |   |         |   |       |   |                  |

**16. Performance of the Students :**

| S. No | Course                 | S1   |      | S2   |      | S3   |      | S4   |      | S5   |      | S6   |      | S7   |      | S8   |      |
|-------|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|       |                        | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass | App. | Pass |
| 1     | B. Sc Computer Science | 20   | 9    | 17   | 6    | 8    | 3    | 8    | 4    | -    | -    | -    | -    | -    | -    | -    | -    |

**17. Placement Details:**

| <b>Name of the Placement co-ordinator:</b> Dr. R. I. Heaven Rose |                                                                               |                            |        |
|------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------|--------|
| <b>Phone/Mobile Number :e-mail:</b> Mob: 9965406285              |                                                                               |                            |        |
| <b>Number of Placement Programmes:</b>                           |                                                                               |                            |        |
| S. No.                                                           | Particulars                                                                   | Numbers of students placed |        |
|                                                                  |                                                                               | Male                       | Female |
| 1                                                                | Number of Students Placed                                                     | -                          | -      |
| 2                                                                | Number of Placements obtained through Campus Interview                        | -                          | -      |
| 3                                                                | Ratio of Placement to Students (Total no of Placement / Total no of Students) | 0                          | 0      |

**18. Outstanding achievements by the Faculty Members:**

| S. No. | Name of the Faculty | Achievements                                                      | Agency                         |
|--------|---------------------|-------------------------------------------------------------------|--------------------------------|
| 1      | Dr. J. P. Jayan     | APJ Educational Excellence Award                                  | NIMS                           |
| 2      | Dr. J. P. Jayan     | Best Coordinator for wildlife and migration birds awareness award | Forest Department, Kanyakumari |
| 3      | Dr. J. P. Jayan     | Best Paper Award                                                  | NCIRAC' 23                     |

**19. Outstanding achievements by Students:**

| S.No. | Name of the Student   | Achievements                                                              | Agency                                                        |
|-------|-----------------------|---------------------------------------------------------------------------|---------------------------------------------------------------|
| 1     | R. Siva Raja Haementh | Participated in district level photography competition on 23th March 2023 | Eco Clubs of KK Dist in collaboration with Holy Cross College |
| 2     | Arun Jedly A          | Participated in National Conference on 11 <sup>th</sup> April 2023        | CSE&SE/ NICHE                                                 |
| 3     | Yohesh J              | Participated in National Conference on 11 <sup>th</sup> April 2023        | CSE&SE/ NICHE                                                 |
| 4     | Rahul R               | Participated in National Conference on 11 <sup>th</sup> April 2023        | CSE&SE/ NICHE                                                 |
| 5     | Siva Satheesh C       | Participated in National Conference on 11 <sup>th</sup> April 2023        | CSE&SE/ NICHE                                                 |
| 6     | Subash Suriya S       | Participated in National Conference on 11 <sup>th</sup> April 2023        | CSE&SE/ NICHE                                                 |
| 7     | Abish S               | Participated in National Conference on 11 <sup>th</sup> April 2023        | CSE&SE/ NICHE                                                 |
| 8     | Baskar R              | Participated in National Conference on 11 <sup>th</sup> April 2023        | CSE&SE/ NICHE                                                 |
| 9     | Suriya R              | Participated in National Conference on 11 <sup>th</sup> April 2023        | CSE&SE/ NICHE                                                 |
| 10    | Nitheesh G            | Participated in National Conference on 11 <sup>th</sup> April 2023        | CSE&SE/ NICHE                                                 |
| 11    | Rejin S V             | Participated in National Conference on 11 <sup>th</sup> April 2023        | CSE&SE/ NICHE                                                 |
| 12    | R. Siva Raja Haementh | Won Championship in GO KART RACING on 2 <sup>nd</sup> May 2023            | TRACK AUTOMOTIVE                                              |

**20. Department Meetings Held :**  
**BOS, Programme Committee, Course Committee etc.**

| S.No | Name                     | Date                                                 |  |
|------|--------------------------|------------------------------------------------------|--|
| 1    | BOS                      | 08.03.2023                                           |  |
| 2    | Programme Committee etc. | 15.7.2022,<br>12.8.2022,<br>19.9.2022,<br>28.11.2022 |  |
| 3    | Class Committee          | 15.7.2022<br>18.07.2022<br>26.8.2022<br>30.9.2022    |  |

**21. Infrastructure and Research facilities available (Please specify equipments more than Two Lakhs Only) :**

| S. No. | Name of the Lab | Name of the Equipments/Computer/Software/Others | Quantity | Purpose Research/Practical |
|--------|-----------------|-------------------------------------------------|----------|----------------------------|
|        | NIL             |                                                 |          |                            |

**22. Extension activities carried out :**

| S. No. | Name of the Activity | Beneficiaries | Date | Venue |
|--------|----------------------|---------------|------|-------|
| 1      |                      |               |      |       |

**23. Department Library/Learning Resources/ Information and Language Lab:**

Name of the Librarian or Faculty in-charge of the Library:

| S. No. | Particulars                                                           | Nos. | S. No. | Particulars                                         | Nos. |
|--------|-----------------------------------------------------------------------|------|--------|-----------------------------------------------------|------|
| 1      | No. of books available                                                | 1073 | 7      | No. of titles available                             | -    |
| 2      | Books added during the year 2022-23                                   | -    | 8      | No. of CDs and Digital Books available              | 10   |
| 3      | No. of Indian Journals/Magazines                                      | -    | 9      | No. of Foreign Magazines/Journals                   | -    |
| 4      | No. of data bases available                                           | -    | 10     | No. of Online Journals                              | -    |
| 5      | Average No. of students visiting the Library per day                  | 2    | 11     | Average No. of books Issued per day                 | 1    |
|        |                                                                       |      | 12     | No. of digital books                                | -    |
| 6      | Availability of Internet (Specify the Capacity) (e.g. – 8 Mbps etc.,) | -    | 13     | Availability of Language Lab                        | -    |
|        |                                                                       |      | 14     | NDL membership<br>1. Faculty members<br>2. Students | -    |

**24. Information and Communication Technology Resources:**

| S. No. | Name of the Equipment | Specifications | Nos. | S. No. | Name of the Equipment | Specifications | Nos. |
|--------|-----------------------|----------------|------|--------|-----------------------|----------------|------|
|        | NIL                   |                |      |        |                       |                |      |

**24.Collaborative Researches : NIL****25.Consultancies : NIL****26.No. of NET/SET/GATE/CSIR Qualified students: NIL****27. MOUs signed :**

| S.No | Date | MoU signed with | Number of Activities | Remarks |
|------|------|-----------------|----------------------|---------|
|      | NIL  |                 |                      |         |

**28. Innovations and Best Practices : NIL****29. Academic Flexibility :**

| S.No | Courses offered | Platform (MOOC, NPTEL, etc.) | No. Students enrolled | No. of Students Passed |
|------|-----------------|------------------------------|-----------------------|------------------------|
|      | NIL             |                              |                       |                        |

## Department of Physical Education

|                    |                   |
|--------------------|-------------------|
| Director           | Dr. R. Dharmaraj  |
| Assistant Director | Mr. M. Raja Paul  |
| Phone No.          | 9486856102        |
| E-mail/ Website    | sports@niuniv.com |

### 1. Activities/ Events Conducted/ Organised : Nil

| Sl.No. | Particulars | Date | Venue | No. of participants |
|--------|-------------|------|-------|---------------------|
|        |             |      |       |                     |

### 2. Activities/ Events Participated :

| Sl. No | Particulars                                                | Date                     | Venue                                                   | No. of Participants |
|--------|------------------------------------------------------------|--------------------------|---------------------------------------------------------|---------------------|
| 1      | South Zone Inter University Kabaddi Tournament for men     | 07/12/2022 to 10/12/2022 | Bengaluru city University, Bengaluru                    | 12                  |
| 2      | South Zone Inter University Kabaddi Tournament for Women   | 21/12/2022 to 24/12/2022 | AMET University, Chennai                                | 12                  |
| 3      | South Zone Inter University Volley Ball Tournament for Men | 23/12/2022 to 27/12/2022 | SRM University, Chennai                                 | 12                  |
| 4      | South Zone Inter University Football Tournament for Men    | 23/12/2022 to 31/12/2022 | University of Calicut                                   | 20                  |
| 5      | South Zone Inter University Basket Ball Tournament for Men | 27/12/2022 to 31/12/2022 | SRM University, Chennai                                 | 12                  |
| 6      | South West Zone Inter University Athletic for Men          | 09/01/2023 to 12/01/2023 | Tamilnadu Physical Education Sports University, Chennai | 23                  |
| 7      | South Zone Inter University Handball Tournament for Men    | 04/02/2023 to 08/02/2023 | Periyar University, Chennai                             | 16                  |
| 8      | All India Inter University Best Physique Men Championship  | 20/02/2023 to 22/02/2023 | Yenepoya Deemed to be University, Mangalore             | 2                   |

### 3. Honors/ Awards/ Prizes won : Nil

| Sl.No. | Participants | Date | Venue | Nature of Award |
|--------|--------------|------|-------|-----------------|
|        |              |      |       |                 |

4. New Sports facilities added : Nil

5. Status of Implementing FIT India Programme : Nil

6. Any other information : Nil

\*\*\*\*\*

## PLACEMENT DETAILS

|                           |                                                                                                                                                            |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of the Director      | -                                                                                                                                                          |
| Name of Placement Officer | <b>Part-time deployment from other departments:</b><br><b>Dr. K.Siva Sankar (Information Technology)</b><br><b>Dr.B.Stanley Jones Retnam ( Automobile)</b> |
| Phone No.                 | <b>9486856114</b>                                                                                                                                          |
| Contact Fax number        | <b>04651-257266, 250266</b>                                                                                                                                |
| e-mail ID/ Website        | <a href="mailto:placement@niuniv.com">placement@niuniv.com</a> / <a href="http://www.niuniv.com">www.niuniv.com</a>                                        |
| Special status if any     | -                                                                                                                                                          |

### 1. Details of the Faculty/Staff members :

| S. No. | Name                       | Qualification                                              | Designation                                  | Experience | E-mail, Phone, Cell No.                                                            |
|--------|----------------------------|------------------------------------------------------------|----------------------------------------------|------------|------------------------------------------------------------------------------------|
| 1      | Dr. K. Siva Sankar         | M.E., Ph.D, MBA                                            | Placement Officer                            | 15.5years  | 9442229791,<br><a href="mailto:sivasankar@niuniv.com">sivasankar@niuniv.com</a>    |
| 2      | Dr. B. Stanly Jones Retnam | M.E., Ph.D, MBA                                            | Additional Placement Officer                 | 14.5years  | 9442291989,<br><a href="mailto:bsjsjr@gmail.com">bsjsjr@gmail.com</a>              |
| 3      | Ms. N.V. Rajeswari         | SSLC, Typewriting & Shorthand English & Tamil Higher Grade | Typist (Till October 2022)                   | 35 years   | 9486516952<br><a href="mailto:nvrajeswari59@gmail.com">nvrajeswari59@gmail.com</a> |
| 4      | Ms.Mary Leela V            | B.Sc.B.Ed., (SDMR), PGDCA                                  | Junior Assistant (From December 2022)        | 12 years   | 8300138737<br><a href="mailto:leelamavi@gmail.com">leelamavi@gmail.com</a>         |
| 5      | Mr.Jebinson                | B.Sc.,                                                     | Junior Assistant (From January to June 2023) | 6 months   | -                                                                                  |

### 2. Details of the Programmes conducted for the Faculty Members

| S.No. | Programme title | Nature of the Programme | Dates | Venues | No. of faculty members Participated |
|-------|-----------------|-------------------------|-------|--------|-------------------------------------|
|       |                 |                         |       |        |                                     |

### 3. Details of the Programmes conducted for the students on Career Development

| S.No. | Programme title              | Nature of the Programme        | Dates      | Venues         | No. of students Participated |
|-------|------------------------------|--------------------------------|------------|----------------|------------------------------|
| 1.    | My Entrepreneurship Journey” | Capacity development programme | 27.07.2022 | Placement cell | 57                           |

| S.No. | Programme title                                                   | Nature of the Programme | Dates      | Venues         | No. of students Participated |
|-------|-------------------------------------------------------------------|-------------------------|------------|----------------|------------------------------|
| 2.    | Overseas prospects In Higher education                            | Career guidance         | 11.08.2022 | Placement cell | 93                           |
| 3.    | Overseas prospects In Higher education                            | Career guidance         | 26.08.2022 | Placement cell | 177                          |
| 4.    | Preplacement Training for HCL (V-Dart Software solutions PVt Ltd. | Training                | 28.09.2022 | Placement cell | 48                           |
| 5.    | Overseas prospects In Higher education                            | Career guidance         | 10.11.2022 | Placement cell | 27                           |
| 6.    | Campus Onboarding                                                 | Training                | 19.12.2022 | Placement cell | 26                           |
| 7.    | Orientation Program                                               | Orientation programme   | 13.03.2023 | Placement cell | 119                          |
| 8.    | Career Guidance                                                   | Career guidance         | 16.03.2023 | Placement cell | 86                           |
| 9.    | Preplacement Training for Kadamba Technologies Pvt Ltd, Chennai   | Training                | 23.01.2023 | Placement cell | 19                           |
| 10.   | Pre Placement training on Corporate onBoarding                    | Training                | 22.02.2023 | Placement cell | 72                           |
| 11.   | Technical Pre-placement training on Programming                   | Training                | 23.02.2023 | Placement cell | 27                           |
| 12.   | Opportunities In Indian Armed Forces                              | Career guidance         | 12.04.2023 | Placement cell | 140                          |

#### 4. Details on Internships obtained

| S.No. | Organisation                                                                                             | No. of Internships obtained | Duration of Internship   |
|-------|----------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------|
| 1     | The Welfare Manager, Kerala Minerals and metals Ltd, Sankaramangam Chavara, Kollam, Kerala-691583        | 8                           | 16.09.2022 To 28.09.2022 |
| 2     | The Welfare Manager, Kerala Minerals and Metals Limited Sankara Mangalam Chavara Kollam, Kerala-69151583 | 3                           | 16.09.2022 To 28.09.2022 |
| 3     | The Superintendent Engineer (Operation ), Tuticorin Thermal Power Station, Tuticorin-628004.             | 5                           | November 2022            |
| 4     | The Superintendent Engineer (Operation ), Tuticorin Thermal Power Station, Tuticorin-628004              | 5                           | November 2022            |

| S.No. | Organisation                                                                                              | No. of Internships obtained | Duration of Internship         |
|-------|-----------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------|
| 5     | The Superintendent Engineer (Operation ),<br>Tuticorin Thermal Power Station,<br>Tuticorin-628004         | 60                          | 4 <sup>th</sup><br>November    |
| 6     | Assistant Manager –HR,<br>Ananthapuri Hospital,<br>Trivandrum-695024.                                     | 3                           | 02.01.2023<br>To<br>02.02.2023 |
| 7     | Director –HR<br>Pushpagiri Medical College Hospital,<br>Thiruvalla,<br>Kerala-689101                      | 4                           | 02.01.2023<br>To<br>02.02.2023 |
| 8     | THE HR MANAGER,<br>PRS Hospital,<br>Thiruvananthapuram,<br>Kerala-695002.                                 | 3                           | 02.01.2023<br>To<br>02.02.2023 |
| 9     | THE HR MANAGER,<br>NIMS Medicity,<br>Aralumoodu,<br>Neyyattinkara-695123.                                 | 1                           | 07.12.2022<br>To<br>20.12.2022 |
| 10    | THE HR MANAGER,<br>NIMS Medicity,<br>Aralumoodu,Neyyattinkara-695123. <sup>i</sup>                        | 1                           | 07.12.2022<br>To<br>15.12.2022 |
| 11    | THE HR MANAGER,<br>Sree Gokulam Medical College,<br>Thiruvananthapuram, Kerala-6956007.                   | 6                           | 02.01.2023<br>To<br>02.02.2023 |
| 12    | THE HR MANAGER,<br>Sree Uthradam Thirunal (SUT)Hospital,<br>Pattom, Thiruvananthapuram,<br>Kerala-695004. | 4                           | 02.01.2023<br>To<br>02.02.2023 |
| 13    | The Superintendent Engineer (Operation ),<br>Tuticorin Thermal Power Station,<br>Tuticorin-628004.        | 5                           | 03.01.2023<br>To<br>09.01.2023 |
| 14    | THE GENERL MANAGER<br>Kallinga Automobile,<br>Nedumangudu, Kerala.                                        | 3                           | 07.12.2022<br>To<br>17.12.2022 |
| 15    | THE SERVICE MANAGER,<br>Muthooth Motors,<br>JLR Division,NH Bypass,<br>Kundaloor, Kochi-682304.           | 1                           | 12.12.2022<br>To<br>23.12.2022 |
| 16    | THE MEDICAL ADMINISTRATOR,<br>Meitra Hospital,<br>Calicut-673004.                                         | 1                           | 10.12.2022<br>To<br>10.02.2023 |
| 17    | THE MEDICAL ADMINISTRATOR,<br>Meitria Hospital,<br>Calicut-673004.                                        | 1                           | 10.12.2022<br>To<br>10.02.2023 |
| 18    | THE MEDICAL ADMINISTRATOR,<br>Meitria Hospital,<br>Calicut-673004.                                        | 1                           | 10.01.2023<br>To<br>10.02.2023 |
| 19    | THE MANAGING DIRECTOR,<br>Stria Constructions,                                                            | 5                           | 02.01.2023<br>To               |

| S.No. | Organisation                                                                                                                                | No. of Internships obtained | Duration of Internship          |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------|
|       | Nettoor,<br>Maradu,<br>Ernakulam, Kerala-682040.                                                                                            |                             | 27.01.2023                      |
| 20    | THE HR MANAGER,<br>NS Hospital,<br>Kollam,<br>Kerala-691020.                                                                                | 2                           | 02.01.2023<br>To<br>02.02.2023  |
| 21    | THE MANAGING DIRECTOR,<br>Stria Constructions,<br>Nettoor,<br>Maradu,<br>Ernakulam, Kerala-682040                                           | 1                           | 02.01.2023<br>To<br>27.01.2023  |
| 22    | THE SUPERINTENDENT,<br>Taluk Headquarters Hospital,<br>Kottarakkara,<br>Kollam,<br>Kerala-691506.                                           | 1                           | 02.01.2023<br>To<br>02.02.2023  |
| 23    | THE SUPERINTENDENT,<br>Government Medical College Hospital                                                                                  | 2                           | 02.01.2023<br>To<br>02.02.2023  |
| 24    | THE MANAGER,<br>Airports Authority of India,<br>Trivandrum International Airport,<br>Chackai Side,<br>Thiruvananthapuram,<br>Kerala-695008. | 5                           | January 2 <sup>nd</sup><br>week |
| 25    | THE HR MANAGER,<br>NIMS Medicity,<br>Aralumoodu,<br>Neyyatinkara-695123.                                                                    | 1                           | 02.01.2023<br>To<br>02.02.2023  |
| 26    | Dr.Deepa Abraham Joseph,<br>Specialist Learning,<br>Trivandrum DC,<br>Infosys.                                                              |                             | 17.12.2022                      |
| 27    | THE HR MANAGER,<br>PRS Hospital,<br>Killipalam Karamana,<br>Thiruvananthapuram-695002.                                                      | 2                           | 02.01.2023<br>To<br>02.02.2023  |
| 28    | THE HR MANAGER,<br>NIMS Medicity,<br>Aralumoodu,<br>Neyyatinkara-695123.                                                                    | 6                           | 02.01.2023<br>To<br>02.02.2023  |
| 29    | THE HR MANAGER,<br>Larsen &Toubro Limited,<br>Chennai-600089.                                                                               | 1                           | 06.01.2023<br>To<br>06.02.2023  |
| 30    | The Head Of The Department,<br>Technical Training Institute,<br>Visakhapatnam steel Plant-RINL,                                             | 1                           | 06.01.2023<br>To<br>(4 Weeks)   |

| S.No. | Organisation                                                                                                                              | No. of Internships obtained | Duration of Internship         |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------|
|       | Visakhapatnam-530031<br>Andhra Pradesh,India.                                                                                             |                             |                                |
| 31    | THE DEPUTY GENERAL MANAGER,<br>Harishree Garden,<br>Sobha Vendure,<br>Thondamuttur Road,Vedapattai,<br>Coimbatore-641007.                 | 5                           | 02.01.2023<br>To<br>31.01.2023 |
| 32    | THE HR MANAGER,<br>Travancore Cochin Chemicals Ltd,<br>Udayogamandal PO,<br>Kochi-683501,                                                 | 5                           | 16.01.2023<br>on Wards         |
| 33    | THE HR MANAGER,<br>V Sathiyamoorthy & Co,<br>Savidhaanu Building,Egmore,<br>Chennai-600008.                                               | 5                           | 09.01.2023<br>on Wards         |
| 34    | The Superintendent Engineer (Operation ),<br>Tuticorin Thermal Power Station,<br>Tuticorin-628004.                                        | 63                          | 10.02.2023                     |
| 35    | The Head Of The Department,<br>Training and Development,<br>Hindustan Shipyard Limited,<br>Visakhapatnam-530005,<br>Andhra Pradesh,India. | 1                           | 12.01 2023                     |
| 36    | The Director,<br>IPRC,(ISRO Propulsion Complex),<br>Mahendragiri,<br>Tirunelveli District,<br>Tamil Nadu-627109                           | 8                           | 18.01.2023<br>To<br>04.02.2023 |
| 37    | The Chairman,<br>Bosch Authorized Car Service Center,<br>Nagercoil-629001.                                                                | 4                           | 23.01.2023<br>To<br>27.01.2023 |
| 38    | GGM & Head,<br>IREL (India) Ltd,<br>Manavalakurichi Unit.                                                                                 |                             | 17.03.2023                     |
| 39    | THE PRODUCTION MANAGER,<br>SM Marine Private Ltd,<br>Therakalputhoor,<br>Nagercoil                                                        | 15                          | 27.03.2023<br>To<br>31.03.2023 |
| 40    | THE MANAGER,<br>JAS Nets,<br>K.P.Road,<br>Nagercoil.                                                                                      | 5                           | 29.03.2023<br>To<br>05.04.2023 |
| 41    | THE MANAGER,<br>Derik Tata,<br>Parvathipuram,<br>Nagercoil.                                                                               | 10                          | 10.04.2023<br>To<br>17.04.2023 |
| 42    | The Superintendent Engineer (Operation ),<br>Tuticorin Thermal Power Station,<br>Tuticorin-628004.                                        | 6                           | 25.04.2023<br>To<br>29.04.2023 |

| S.No. | Organisation                                                                                                                                            | No. of Internships obtained | Duration of Internship         |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------|
| 43    | The Superintendent Engineer (Operation ),<br>Tuticorin Thermal Power Station,<br>Tuticorin-628004.                                                      | 6                           | 25.04.2023<br>To<br>29.04.2023 |
| 44    | THE PRODUCTION MANAGER,<br>SM Marains,<br>EI-Block,<br>Therakalputhooor,<br>Nagercoil-629901                                                            | 1                           | 11.04.2023<br>To<br>17.04.2023 |
| 45    | THE MANAGER,<br>SURYA METAL WORKS,<br>Meenakshipuram,<br>Nagercoil-2.                                                                                   | 2                           | 11.04.2023<br>To<br>17.04.2023 |
| 46    | THE MANAGER,<br>Surya Metal Works,<br>Meenakshipuram,<br>Nagercoil-2<br>Pin:629002<br>Kanyakumari District.                                             | 2                           | 17.04.2023<br>To<br>24.04.2023 |
| 47    | THE MANAGING DIRECTOR,<br>ASPIRE PRECISION TECH,<br>Plot No,14,Survey No.960,<br>Kongu Layout ,Rayakotta Road,<br>Chennathur Village,<br>Hosure-635109. | 9                           | 17.04.2023<br>To<br>26.04.2023 |
| 48    | THE MANAGER,<br>Jeppior Harbour,<br>Muttam,Kanyakumari,                                                                                                 | 4                           | 18.04.2023<br>To<br>22.04.2023 |
| 49    | THE MANAGER,<br>Madura Coats Private Limited,<br>Papanasam Mill Road<br>Tirunelveli,<br>Tamil Nadu,<br>Pin:627422.                                      | 2                           | 18.04.2023<br>To<br>22.04.2023 |
| 50    | THE MANAGER,<br>Jaminisa Nets,<br>2/183,A1,Puthutheru,<br>Thiruvithancode,<br>Kanyakumari,<br>Tamilnadu,<br>Pin:629174.                                 | 1                           | 18.04.2023<br>To<br>22.04.2023 |
| 51    | THE PRODUCTION MANAGER,<br>SM Marains,<br>EI-Block,<br>Therakalputhooor, Nagercoil-629901                                                               | 4                           | 18.04.2023<br>To<br>21.04.2023 |
| 52    | THE ASSISTANT GENERAL<br>MANAGER-HR,<br>Tata Projects,<br>Hiranandani Business Park,Powal,<br>Mumbai-400076                                             | 1                           | 01.06.2023<br>To<br>31.07.2023 |

| S.No. | Organisation                                                                                                            | No. of Internships obtained | Duration of Internship         |
|-------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------|
| 53    | The Academic Department,<br>PRS Hospital Pvt Ltd,<br>NH 47,Killipala,Karamana,<br>Thiruvananthapuram,<br>Kerala-695002. | 1                           | 06.06.2023<br>To<br>13.06.2023 |
| 54    | The Academic Department,<br>PRS Hospital Pvt Ltd,<br>NH 47,Killipala,Karamana,<br>Thiruvananthapuram,<br>Kerala-695002  | 1                           | 06.06.2023<br>To<br>13.06.2023 |
| 55    | The Junior manager HR,<br>Pallipalayam,<br>Cauvery,R.S.P.O<br>Erode,<br>Namakkal District,<br>Tamil Nadu,Pin:638007     | 2                           | 10.06.2023<br>To<br>24.06.2023 |
| 56    | The Deputy Director<br>The Kerala minerals and metals Limited,<br>Manavalakurichi Unit,<br>Kerala-691583                | 1                           | 09.06.2023                     |

#### 5. Details of the Placement interviews organised

| S. No. | Title of the Interview                             | Prospective Employer Name | Dates             | Venue          | No. of students participated |
|--------|----------------------------------------------------|---------------------------|-------------------|----------------|------------------------------|
| 1      | HCL (V-Dart Software Solutions Pvt Ltd)            | Ms.Sumathi                | 29.09.22          | Placement cell | 205                          |
| 2      | Cognizant Technology Solutions Corp (CTS), Chennai | Off-Campus                | Off-Campus        | Placement cell | 08                           |
| 3      | TVS Sundaram Fasteners Ltd, Chennai                | Mr.Athinarayanan          | 20.12.22          | Placement cell | 26                           |
| 4      | Kadamba Technologies Private Limited, Chennai      | Mr.S.Siva                 | 24.01.23          | Placement cell | 14                           |
| 5      | Tech Mahindra Ltd, Chennai                         | Mr.F.SaeedSalman          | 21.02.23          | Placement cell | 149                          |
| 6      | Pollucare Engineering India Pvt Ltd. Chennai       | Mr.Rajesh Kumar.K         | 23.02.23          | Placement cell | 56                           |
| 7      | JM-ORIGIN Techno soft Private Limited, Nagercoil.  | Mr.Basil Chandran         | 24..02.23         | Placement cell | 36                           |
| 8      | JBM Auto Ltd, Chennai.                             | Mr.P.Purushothamn         | 27.02.23          | Placement cell | 66                           |
| 9      | Dinesh Engineering Industries, Chennai             | Mr.P.Marimuthu            | 06.03.23 (Online) | Placement cell | 8                            |
| 10     | Finsurge Private Limited                           | Mr.Suba Sandhiya Murugan  | 11.03.23          | Placement cell | 6                            |

| S. No. | Title of the Interview                            | Prospective Employer Name | Dates    | Venue          | No. of students participated |
|--------|---------------------------------------------------|---------------------------|----------|----------------|------------------------------|
| 11     | Cloudq IT Solutions, Technopark, TVM              | Mrs.Reshama               | 12.03.23 | Placement cell | 4                            |
| 12     | PRAN CARE, TVM                                    | Mr.Pran Nath              | 22.06.23 | Placement cell | 16                           |
| 13     | Rays of Belief Pvt Ltd (Mom's Belief Pvt Ltd)     | Mr.M.S.Rajesh             | 23.06.23 | Placement cell | 16                           |
| 14     | Pranaah holistic Health Care Pvt Ltd              | Mr.Mohanlal               | 24.06.23 | Placement cell | 8                            |
| 15     | Ashok Leyland Limited, Foundry Division, Chennai  | Mr.J.David Jaison         | 09.06.23 | Placement cell | 156                          |
| 16     | Sakura Autoparts India Pvt. Ltd.. Chennai         | Mr.P.Kathirsan            | 09.06.23 | Placement cell | 46                           |
| 17     | Luker Electric Technologies Pvt. Ltd., Coimbatore | Mr.T.Thirumaran           | 09.06.23 | Placement cell | 58                           |
| 18     | Shriram Finance Ltd.                              | Mr.Balvinayagam           | 09.06.23 | Placement cell | 40                           |
| 19     | Ascender Technologies Ltd. Coimbatore             | Mr.Deepak<br>Mr.Babu      | 09.06.23 | Placement cell | 84                           |
| 20     | Sharda Motor Industries, Chennai                  | Mr.N.Thigarajan           | 09.06.23 | Placement cell | 132                          |
| 21     | TVS Sundaram Fasteners Ltd, Chennai               | Mr.Athinarayanan          | 09.06.23 | Placement cell | 147                          |
| 22     | HCL (V-Dart Software Solutions Pvt Ltd)           | Mr.Ms.Sumathi             | 29.09.22 | Placement cell | 34 (Arts College)            |
| 23     | Tech Mahindra Ltd, Chennai                        | Mr.F.SaeedSalman          | 21.02.23 | Placement cell | 36 (Arts College)            |

#### 6. Details of MOUs signed

| Sl.No. | Company Name                                                      | MOU Signed on |
|--------|-------------------------------------------------------------------|---------------|
| 1.     | Luker Electric Technologies Private Limited<br>Kochi-682024       | 15.05.2023    |
| 2.     | Pranaah Holistic Health Care Pvt Ltd.<br>Kollam,<br>Kerala-691013 | 24.06.2023    |

#### 7. Details of the Finishing School/ Certificate course conducted

| S.No. | Name of the Programme | No. of Students Participated | No.of Students Passed |
|-------|-----------------------|------------------------------|-----------------------|
| 1     | Finishing School      | All B.E/B.Tech & MCA         | All B.E/B.Tech & MCA  |

## 8. Summery Statistics on placement during 2022-23

| S.No. | Particulars                                       |                   |
|-------|---------------------------------------------------|-------------------|
| 1     | Placement Interview<br>On Campus<br>Off Campus    | 13<br>01          |
| 2     | No. of companies visited                          | 14                |
| 3.    | No. of students attended the placement interviews | 602               |
| 4.    | No. of eligible students                          | 97                |
| 5.    | Eligible students ratio                           | 1:5               |
| 6.    | Job offers received                               | 150               |
| 7.    | Offer per eligible student                        | 1.55              |
| 8.    | Salary Range (Rs. in lakhs)                       | Rs.1.6 to 5.6 LPA |
| 9.    | Mean salary offered                               | Rs.2.56 LPA       |
| 10    | Job offers obtained for outside students          | 180               |

## 9.Details of the Steve Jobs scholar ship awarded:

| S.No. | Name of the Department | Boys | Girls | Remarks |
|-------|------------------------|------|-------|---------|
| 1     | CSE                    | 10   | -     |         |
| 2     | IT                     | 7    | 3     |         |
| 3     | EEE                    | 4    | -     |         |
| 4     | ECE                    | 7    | -     |         |
| 5     | EIE                    | 3    | -     |         |
| 6     | MCA                    | 10   | 10    |         |

## 10.Other Information :

\*\*\*\*\*

### GRIEVANCE CELL

1. Name of the Cell : Grievance Cell
2. Director/ Convener/ Nodal Officer/ Faculty Incharge : Dr. R. Subramania Pillai
3. E-mail , Phone no : [rspillai06@gmail.com](mailto:rspillai06@gmail.com), 99527 34060
4. Details of other members

| S.No. | Name                          | Designation                        | Department | Qualification |
|-------|-------------------------------|------------------------------------|------------|---------------|
| 1     | Dr. R. Subramania Pillai      | Professor/ Nodal Officer/ Director | English    |               |
| 2     | Dr. M. Sankaranarayana Pillai | Professor/ Dean AHS                | Chemistry  |               |

| S.No. | Name                   | Designation                                              | Department             | Qualification |
|-------|------------------------|----------------------------------------------------------|------------------------|---------------|
| 3     | Dr. J. Charles         | Associate Professor                                      | Software Engineering   |               |
| 4     | Dr. R. Dharmaraj       | Physical Director/<br>Deputy Warden<br>(Boys Hostel)     | Physical Education     |               |
| 5     | Dr. R. S. Vinod Kumar  | Professor/ Dean<br>EEE                                   | ECE                    |               |
| 6     | Dr. M. Murugan         | Professor/ HoD/<br>Dean Technology/<br>Director Projects | Biomedical Engineering |               |
| 7     | Dr. S. John Leon       | Associate Professor/<br>HoD/ Warden (<br>Marine Hostel)  | Marine Engineering     |               |
| 8     | Mr. A. Khaleel Rahuman | Associate Professor/<br>HoD                              | English                |               |
| 9     | Dr. B. Bindhu          | Professor/ HoD/<br>Director Student<br>Affairs           | Physics                |               |
| 10    | Dr. Y. Stalin Jose     | Associate Professor/<br>HoD                              | Civil Engineering      |               |
| 12    | Dr. R. Rajesh          | Associate Professor/<br>HoD                              | Mechanical             |               |
| 13    | Dr. V.G. Ranjith       | Assistant Professor/<br>HoD i/c                          | CSE                    |               |

5. No. of Complaints Received : 05

6. No. of Complaints Disposed : 05

7. No. of Complaints Pending : Nil

8. Details of Meetings held

| S.No. | Date/ Day / Time                     | Venue | Out come                      |
|-------|--------------------------------------|-------|-------------------------------|
| 1     | 17-08-2022/<br>Wednesday/11.00 a.m.  | A111  | Report submitted              |
| 2     | 17-08-2022/ Wednesday/<br>11.00 a.m. | A111  | Report submitted              |
| 3     | 18-08-2022/ Thursday/<br>11.00 a.m.  | A111  | Report submitted              |
| 4     | 25-08-2022/ Thursday/<br>11.00 a.m.  | A111  | Smooth discussions held       |
| 5     | 14-09-2022/ Wednesday/<br>11.00 a.m. | A111  | Report submitted              |
| 6     | 19-09-2022/ Monday/<br>11.00 a.m.    | A111  | Report submitted              |
| 7     | 15-11-2022/ Tuesday/<br>11.00 a.m.   | A111  | No specific points discussed  |
| 8     | 10-02-2023/ Friday/<br>11.00 a.m..   | A111  | No special resolutions passed |

9. Other Information (if any): Nil

## INTERNAL QUALITY ASSURING CELL

1. Name of the Cell : **Internal Quality Assuring Cell**
2. Director/ Convener/ Nodal Officer/ Faculty Incharge : **Dr. J. P. Jayan / Dr. S. Felix Stephen**
3. E-mail , Phone no : [igac@niuniv.com](mailto:igac@niuniv.com) / 9486856112
4. Details of other members: **List enclosed**

| S.No. | Name | Designation | Department | Qualification |
|-------|------|-------------|------------|---------------|
|       |      |             |            |               |

5. Details of the Programmes conducted :

| S. No. | Programme                                          | Date       | No. of Participants | Remarks                                                                        |
|--------|----------------------------------------------------|------------|---------------------|--------------------------------------------------------------------------------|
| 1      | Seminar on Applying Copyrights, Design and Patents | 17-03-2023 | 40                  | It is an intractive meeting for all the Directors, Deans, HoD, and Professors. |
| 2      | Seminar on Funding for Research Project            | 14-06-2023 | 36                  | It is an intractive meeting for all the teaching staff                         |

6. Details of Meetings held

| S.No. | Date/ Day / Time               | Venue              | Out come                                                                                                                                                                                                                                                         |
|-------|--------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | 11/01/2023, Wednesday, 11.00am | VC Conference Hall | <ul style="list-style-type: none"><li>Resolved to strengthen the Academic Course</li><li>Resolved to motivate Students to apply for Scholarships</li><li>Resolved to standardize the Library</li><li>Resolved to motivate and increase Funded Projects</li></ul> |
| 2     | 23/05/2023, Tuesday, 11.00am   | VC Conference Hall | <ul style="list-style-type: none"><li>Resolved to conduct value-added courses</li><li>Resolved to motivate the Research areas</li></ul>                                                                                                                          |

## 7. Details of Academic and Administrative Audits conducted

| S.No. | Date/ Day / Time           | Out come                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | 15.12.2022 –<br>05.01.2023 | <ul style="list-style-type: none"> <li>The Board of Research, Development and Consultancy (BRDC) is the statutory and apex body to provide activities by encouraging and regulating the research activities.</li> <li>Library policy is strengthened by providing the framework for library operations and services which helps to ensure high-quality library service for community needs, wise use of library resources, and fair treatment of library staff and library users</li> <li>The functioning of the Examination Cell (Invigilation duty, Hall and Seating arrangements, Absentee statement, Malpractices, Packing of Answer scripts) is good.</li> <li>Placement training programs to help students in for developing specific skills related to their preferred subject or domain to stay ahead in the competition is maintained</li> <li>Budgetary provisions for academic and administrative activities (including maintenance) were carried out</li> </ul> |

## 8. Other Information (if any)

\*\*\*\*\*

### OBC CELL

- Name of the Cell : OBC Cell
- Director/ Convener/ Nodal Officer/ Faculty Incharge : Dr. A. Anitha
- E-mail , Phone no : [anithadathi@gmail.com](mailto:anithadathi@gmail.com),  
9486473593
- Details of other members

| S.No. | Name                | Designation         | Department                                  | Qualification    |
|-------|---------------------|---------------------|---------------------------------------------|------------------|
| 1.    | Dr. A. Anitha       | Associate Professor | Computer Science and Engineering            | B.E., M.E., Ph.D |
| 2.    | Dr. Felix Stephen S | Assistant Professor | Electronics and Instrumentation Engineering | B.E., M.E., Ph.D |

| S.No. | Name                            | Designation            | Department                | Qualification |
|-------|---------------------------------|------------------------|---------------------------|---------------|
| 3.    | Ms. Anusha Linda<br>Kostka J. E | Assistant<br>Professor | Biomedical<br>Engineering | B.E, M.E      |

5. No. of Complaints Received : Nil

6. No. of Complaints Disposed : Nil

7. No. of Complaints Pending : Nil

8. Details of Meetings held

| S.No. | Date/ Day / Time     | Venue               | Out come                                           |
|-------|----------------------|---------------------|----------------------------------------------------|
| 1     | 26/07/2022, 02:00 PM | CSE SmartClass Room | Awareness of<br>OBC<br>reservation and<br>benefits |

9. Other Information (if any)

\*\*\*\*\*

### SC/ ST CELL

10. Name of the Cell :SC/ ST Cell

11. Director/ Convener/ Nodal Officer/ Faculty Incharge : Dr. V. P. VELMURUGAN., Convener

12. E-mail , Phone no : [vpvharini@gmail.com](mailto:vpvharini@gmail.com). 98942 77753

13. Details of other members

| S.No. | Name              | Designation         | Department  | Qualification            |
|-------|-------------------|---------------------|-------------|--------------------------|
| 1     | Mr. Anu kuttan. A | Assistant Professor | Auronatical | M.E. (Ph. D.)            |
| 2     | Mr. Muniasamy.M   | Assistant Professor | Marine      | Auro<br>B.E. Marine Engg |

14. No. of Complaints Received : NIL

15. No. of Complaints Disposed :NIL

16. No. of Complaints Pending :NIL

17. Details of Meetings held

| S.No. | Date/ Day / Time     | Venue                             | Out come                                                                    |
|-------|----------------------|-----------------------------------|-----------------------------------------------------------------------------|
| 1     | 29/09/2022 at 1.00pm | Marine Engineering (Lab) Workshop | Decided to prevent any caste based discrimination or harassment             |
| 2     | 07/06/2023 at 1.00pm | Marine Engineering (Lab) Workshop | Decided to circulate UGC' s decisions regarding various scholarship schemes |

18. Other Information (if any)

\*\*\*\*\*

### SEXUAL HARASSMENT CELL

1. Name of the Cell : Sexual Harassment Cell
2. Director/ Convener/ Nodal Officer/ Faculty Incharge : Dr. B. Bindhu
3. E-mail , Phone no : [bindhub@niuniv.com](mailto:bindhub@niuniv.com),  
9500427092
4. Details of other members

| S.No. | Name                   | Designation                                                                   | Department             | Qualification                                       |
|-------|------------------------|-------------------------------------------------------------------------------|------------------------|-----------------------------------------------------|
| 1     | Dr. B. Bindhu          | Professor & Head, Physics, Dean, Faculty of S & H, Director, Students Affairs | Physics                | M.Sc., M.Phil., Ph.D                                |
| 2     | Dr. J. R. Jeba         | Associate Prof. & Head,                                                       | Computer Applications  | MCA, Ph.D                                           |
| 3     | Ms. R. Ramani Kannan   | NGO                                                                           | External Expert        | MA (Psy), MBA, PG Diploma in Guidance & Counselling |
| 4     | Mr. P. Reghu Kumar     | Advocate                                                                      | External Expert        |                                                     |
| 5     | Dr. M. Murugan         | Professor & Head, Dean, Faculty of Technology                                 | Biomedical Engineering | M.Sc., Ph.D                                         |
| 6     | Dr. M. Immaculate Mary | Professor & Head                                                              | Mathematics            | M.Sc., Ph.D                                         |
| 7     | Ms. P.B. Sarasija      | Professor                                                                     | Mathematics            | M.Sc., Ph.D                                         |
| 8     | Dr. P. K. Praseetha    | Professor & Head                                                              | Nanotechnology         | M.Sc., Ph.D                                         |

| S.No. | Name                 | Designation            | Department                             | Qualification |
|-------|----------------------|------------------------|----------------------------------------|---------------|
| 9     | Dr. H. Vennila       | Associate Professor    | Electrical and Electronics Engineering | M.E., Ph.D    |
| 10    | Ms. R. Sree Lekha    | Administrative Office  | Students Affairs                       |               |
| 11    | Ms. V. Shyamala      | Peon                   | Management Studies                     |               |
| 12    | Gopika PR            | Student Representative | S7 BME                                 |               |
| 13    | Ms. Suhith Mithra SS | Student Representative | S5 .BSc. HGMB                          |               |
| 13    | Ms. Arunima          | Student Representative | S7 CSE                                 |               |
| 14    | Ms. Praveena         | Student Representative | S3, MCA                                |               |
| 15    | Neeraja              | Research Scholar       | Physics                                |               |

5. No. of Complaints Received : Nil

6. No. of Complaints Disposed : Nil

7. No. of Complaints Pending : Nil

8. Details of Meetings held

| S.No. | Date/ Day / Time                  | Venue | Out come                                                                                                                                                                                                                                                                                                                                                         |
|-------|-----------------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | 14.11.2022,<br>Monday, 02.30 PM   | A 306 | <p>To conduct sensitization workshops for the NICHE students and employees to make them aware about the provisions of the Act.</p> <p>To observe the 25th of November as the International Day for the Elimination of Violence against Women.</p> <p>To observe Discrimination against Women Pakhwada from 25.11.2022 to 10.12.2022.</p> <p>No pending cases</p> |
| 2     | 20.05.2023,<br>Saturday, 11.30 AM | A306  | <p>To conduct sensitization workshops for the NICHE students and employees to make them aware about the provisions of the Act.</p> <p>No pending cases/complaints</p>                                                                                                                                                                                            |

9. Other Information (if any):

- (i) Organized a Sensitization workshop on Sexual Harassment of Women at workplace (Prevention, Prohibition and Redressal) Act 2013 on 6<sup>th</sup> Dec 2022 to disseminate awareness among Faculty, Ph.D scholars, students, non-teaching staff and office bearers about the right, entitlement and responsibilities in the act under the regulations of the act.
- (ii) An awareness program on gender sensitization was conducted by the Internal Complaints Committee of NICHE on 23<sup>rd</sup> May 2023 at 10.30 am in the AC Auditorium.

\*\*\*\*\*

### SWAYAM Cell

- 1.Name of the Cell : SWAYAM Cell
- 2.Director/ Convener/ Nodal Officer/ Faculty Incharge : Dr.M.Dev Anand
3. E-mail, Phone No : [niucisetm@gmail.com](mailto:niucisetm@gmail.com),  
+(91)9486856122
4. Details of Other Members

| Sl. No. | Name                   | Designation        | Department             | Qualification      |
|---------|------------------------|--------------------|------------------------|--------------------|
| 1.      | Dr. R. Ramesh Palappan | Assistant Pofessor | Mechanical Engineering | B.E., M.E., Ph.D., |

5. Details of the SWAYAM Course Registered by the Students: 51+46=97

| Sl. No. | Name of the Students | Course ID  | Name of the Subject           | Degree | Department               | Timeline     |
|---------|----------------------|------------|-------------------------------|--------|--------------------------|--------------|
| 1       | Ameena Fathima.s     | NOC22-CE75 | Strength of Materials         | BE     | Aeronautical Engineering | Jul-Dec 2022 |
| 2       | Abhijit Geo Ajo      | NOC22-MG97 | Industrial Safety Engineering | BTECH  | Mechanical Engineering   | Jul-Dec 2022 |
| 3       | aibin Sam Roy        | NOC22-MG97 | Industrial Safety Engineering | BTECH  | Mechanical Engineering   | Jul-Dec 2022 |
| 4       | Alfin s              | NOC22-MG97 | Industrial Safety Engineering | BTECH  | Mechanical Engineering   | Jul-Dec 2022 |
| 5       | S S Aravind          | NOC22-MG97 | Industrial Safety Engineering | BTECH  | Mechanical Engineering   | Jul-Dec 2022 |
| 6       | Arun Kumar s         | NOC22-MG97 | Industrial Safety Engineering | BTECH  | Mechanical Engineering   | Jul-Dec 2022 |

| Sl. No. | Name of the Students                | Course ID   | Name of the Subject                                          | Degree | Department                                | Timeline     |
|---------|-------------------------------------|-------------|--------------------------------------------------------------|--------|-------------------------------------------|--------------|
| 7       | Naidu Deepu<br>Asish Durga<br>Mohan | NOC22-AE10  | Aircraft Stability and Control                               | BE     | Aeronautical Engineering                  | Jul-Dec 2022 |
| 8       | Naidu Deepu<br>Asish Durga<br>Mohan | NOC22-AE11  | Introduction to Airplane Performance                         | BE     | Aeronautical Engineering                  | Jul-Dec 2022 |
| 9       | Naidu Deepu<br>Asish Durga<br>Mohan | NOC22-AE13  | Introduction to Aerospace Engineering-Flight                 | BE     | Aeronautical Engineering                  | Jul-Dec 2022 |
| 10      | Naidu Deepu<br>Asish Durga<br>Mohan | NOC22-AE14  | Introduction to Aircraft Design                              | BE     | Aeronautical Engineering                  | Jul-Dec 2022 |
| 11      | Athul u                             | NOC22-MG97  | Industrial Safety Engineering                                | BTECH  | Mechanical Engineering                    | Jul-Dec 2022 |
| 12      | D.Divyadharshini                    | NOC22-MG97  | Industrial Safety Engineering                                | BTECH  | Mechanical Engineering                    | Jul-Dec 2022 |
| 13      | A.Dava Sahaya Dickson               | NOC22-EE127 | Advance Power Electronics and Control                        | BE     | Instrumentation Engineering               | Jul-Dec 2022 |
| 14      | Harikrishnan V                      | NOC22-MG97  | Industrial Safety Engineering                                | BTECH  | Mechatronics Engineering                  | Jul-Dec 2022 |
| 15      | Jaya Priya J.B.                     | NOC22-CS67  | Artificial Intelligence : Search Methods for Problem Solving | BE     | Electronics and Communication Engineering | Jul-Dec 2022 |
| 16      | Kailas Krishna B                    | NOC22-MG97  | Industrial Safety Engineering                                | BTECH  | Mechanical Engineering                    | Jul-Dec 2022 |
| 17      | C J Kisho Jeffrin                   | NOC22-ME128 | Design of Mechatronic Systems                                | BE     | Instrumentation Engineering               | Jul-Dec 2022 |
| 18      | Lakshmikrishna BS                   | NOC22-CS74  | Python for Data Science                                      | BE     | Electronics and Communication Engineering | Jul-Dec 2022 |
| 19      | Manoj Kumar M                       | NOC22-MG97  | Industrial Safety Engineering                                | BTECH  | Mechanical Engineering                    | Jul-Dec 2022 |
| 20      | Meenakshy S Kumar                   | NOC22-EE122 | Cognition and its Computation                                | BTECH  | Information Technology                    | Jul-Dec 2022 |
| 21      | Moahmmed Ijaz                       | NOC22-EE83  | Control engineering                                          | BE     | Instrumentation Engineering               | Jul-Dec 2022 |
| 22      | Ram kumar                           | NOC22-MG97  | Industrial Safety Engineering                                | BTECH  | Mechanical Engineering                    | Jul-Dec 2022 |
| 23      | Ravichandran I                      | NOC22-MG97  | Industrial Safety Engineering                                | BTECH  | Mechanical Engineering                    | Jul-Dec 2022 |
| 24      | Nabila                              | NOC22-CE75  | Strength of Materials                                        | BE     | Aeronautical Engineering                  | Jul-Dec 2022 |
| 25      | Sairam.S                            | NOC22-MG97  | Industrial Safety Engineering                                | BTECH  | Mechanical Engineering                    | Jul-Dec 2022 |
| 26      | Sai Madhav                          | NOC22-MG97  | Industrial Safety Engineering                                | BTECH  | Mechanical Engineering                    | Jul-Dec 2022 |
| 27      | Md Shahnawaz Alam                   | NOC22-CS111 | Computer Graphics                                            | BE     | Computer Science and Engineering          | Jul-Dec 2022 |

| Sl. No. | Name of the Students  | Course ID  | Name of the Subject                                          | Degree              | Department                       | Timeline     |
|---------|-----------------------|------------|--------------------------------------------------------------|---------------------|----------------------------------|--------------|
| 28      | Md Shahnawaz Alam     | NOC22-CS61 | Software Testing                                             | BE                  | Computer Science and Engineering | Jul-Dec 2022 |
| 29      | Md Shahnawaz Alam     | NOC22-CS63 | Theory of Computation                                        | BE                  | Computer Science and Engineering | Jul-Dec 2022 |
| 30      | Md Shahnawaz Alam     | NOC22-CS67 | Artificial Intelligence : Search Methods for Problem Solving | BE                  | Computer Science and Engineering | Jul-Dec 2022 |
| 31      | Md Shahnawaz Alam     | NOC22-CS83 | Applied Accelerated Artificial Intelligence                  | BE                  | Computer Science and Engineering | Jul-Dec 2022 |
| 32      | Md Shahnawaz Alam     | NOC22-CS87 | Cloud Computing                                              | BE                  | Computer Science and Engineering | Jul-Dec 2022 |
| 33      | Siva Prakash S        | NOC22-MG97 | Industrial Safety Engineering                                | B.TECH              | Mechanical Engineering           | Jul-Dec 2022 |
| 34      | Parvathy K.S          | NOC22-HS77 | Developing Soft Skills and Personality                       | BE                  | Electrical Engineering           | Jul-Dec 2022 |
| 35      | Stanic T              | NOC22-MG74 | Operations and supply chain management                       | COMMERCE-Management | Business Administration          | Jul-Dec 2022 |
| 36      | Stebin Anto a         | NOC22-MG97 | Industrial Safety Engineering                                | BTECH               | Mechanical Engineering           | Jul-Dec 2022 |
| 37      | Vishnu Ravindran      | NOC22-MG97 | Industrial Safety Engineering                                | BTECH               | Mechanical Engineering           | Jul-Dec 2022 |
| 38      | Vrinda Girish         | NOC22-CE75 | Strength of Materials                                        | BE                  | Aeronautical Engineering         | Jul-Dec 2022 |
| 39      | Vysakh B Vijayan      | NOC22-MG97 | Industrial Safety Engineering                                | BTECH               | Mechanical Engineering           | Jul-Dec 2022 |
| 40      | Abtab Ahmed Chowdhury | NOC22-AE10 | Aircraft Stability and Control                               | BE                  | Aeronautical Engineering         | Jul-Dec 2022 |
| 41      | Abtab Ahmed Chowdhury | NOC22-AE11 | Introduction to Airplane Performance                         | BE                  | Aeronautical Engineering         | Jul-Dec 2022 |
| 42      | Abtab Ahmed Chowdhury | NOC22-AE12 | Introduction to Airbreathing Propulsion                      | BE                  | Aeronautical Engineering         | Jul-Dec 2022 |
| 43      | Abtab Ahmed Chowdhury | NOC22-AE13 | Introduction to Aerospace Engineering-Flight                 | BE                  | Aeronautical Engineering         | Jul-Dec 2022 |
| 44      | Abtab Ahmed Chowdhury | NOC22-AE14 | Introduction to Aircraft Design                              | BE                  | Aeronautical Engineering         | Jul-Dec 2022 |
| 45      | Abtab Ahmed Chowdhury | NOC22-AE15 | Design of Fixed Wing Unmanned Aerial Vehicles                | BE                  | Aeronautical Engineering         | Jul-Dec 2022 |
| 46      | Abtab Ahmed Chowdhury | NOC22-AE16 | UAV Design - Part II                                         | BE                  | Aeronautical Engineering         | Jul-Dec 2022 |
| 47      | Abtab Ahmed Chowdhury | NOC22-AE17 | Engineering Thermodynamics                                   | BE                  | Aeronautical Engineering         | Jul-Dec 2022 |

| Sl. No. | Name of the Students  | Course ID   | Name of the Subject                                 | Degree | Department               | Timeline     |
|---------|-----------------------|-------------|-----------------------------------------------------|--------|--------------------------|--------------|
| 48      | Abtab Ahmed Chowdhury | NOC22-AE18  | Aerodynamic Design of Axial Flow Compressors & Fans | BE     | Aeronautical Engineering | Jul-Dec 2022 |
| 49      | Abtab Ahmed Chowdhury | NOC22-AE19  | Aircraft Structures - I                             | BE     | Aeronautical Engineering | Jul-Dec 2022 |
| 50      | Abtab Ahmed Chowdhury | NOC22-AE21  | Space Flight Mechanics                              | BE     | Aeronautical Engineering | Jul-Dec 2022 |
| 51      | Abtab Ahmed Chowdhury | NOC22-ME125 | Aircraft Propulsion                                 | BE     | Aeronautical Engineering | Jul-Dec 2022 |

|     |                   |            |                                                          |                 |                                  |              |
|-----|-------------------|------------|----------------------------------------------------------|-----------------|----------------------------------|--------------|
| 1.  | Aashin V          | NOC23-CE44 | Engineering Hydrology                                    | BE              | Civil Engineering                | Jan-Apr 2023 |
| 2.  | Abhishek Dhiman   | NOC23-AE01 | Aircraft Design                                          | BE              | Aeronautical Engineering         | Jan-Apr 2023 |
| 3.  | S.Abi Britto      | NOC23-AE01 | Aircraft Design                                          | BE              | Aeronautical Engineering         | Jan-Apr 2023 |
| 4.  | Thabith Ahamed. T | NOC23-CE44 | Engineering Hydrology                                    | BE              | Civil Engineering                | Jan-Apr 2023 |
| 5.  | Alan John Koshy   | NOC23-CS05 | An Introduction to Artificial Intelligence               | BE              | Mechanical Engineering           | Jan-Apr 2023 |
| 6.  | Alan John Koshy   | NOC23-CS07 | Advanced computer architecture                           | BE              | Mechanical Engineering           | Jan-Apr 2023 |
| 7.  | Alan John Koshy   | NOC23-CS08 | Data Analytics with Python                               | BE              | Mechanical Engineering           | Jan-Apr 2023 |
| 8.  | Alan John Koshy   | NOC23-CS10 | Information Security - 5 - Secure Systems Engineering    | BE              | Mechanical Engineering           | Jan-Apr 2023 |
| 9.  | Alan John Koshy   | NOC23-CS11 | Machine Learning, ML                                     | BE              | Mechanical Engineering           | Jan-Apr 2023 |
| 10. | Alan John Koshy   | NOC23-CS47 | Blockchain and its Applications                          | BE              | Mechanical Engineering           | Jan-Apr 2023 |
| 11. | Alan John Koshy   | NOC23-CS48 | Computer Networks and Internet Protocol                  | BE              | Mechanical Engineering           | Jan-Apr 2023 |
| 12. | Alan John Koshy   | NOC23-CS51 | Introduction to Internet of Things                       | BE              | Mechanical Engineering           | Jan-Apr 2023 |
| 13. | Anu. R            | NOC23-HS51 | Introduction to Cultural Studies                         | Arts_Humanities | English                          | Jan-Apr 2023 |
| 14. | Ashigha           | NOC23-CS08 | Data Analytics with Python                               | OTHERS          | Others                           | Jan-Apr 2023 |
| 15. | Ashigha           | NOC23-CS21 | Python for Data Science                                  | OTHERS          | Others                           | Jan-Apr 2023 |
| 16. | Ashigha           | NOC23-CS65 | Foundation of Cloud IoT Edge ML                          | OTHERS          | Others                           | Jan-Apr 2023 |
| 17. | Faaiza Suhara I S | NOC23-BT01 | Maternal Infant Young Child Nutrition                    | SCIENCE         | Microbiology                     | Jan-Apr 2023 |
| 18. | S.Faheema Joohi   | NOC23-CS15 | Programming, Data Structures And Algorithms Using Python | BE              | Computer Science and Engineering | Jan-Apr 2023 |
| 19. | Jeyani Shalu      | NOC23-BT30 | Nanotechnology In Agriculture                            | others          | Others                           | Jan-Apr 2023 |

|     |                        |            |                                                                                   |         |                                  |              |
|-----|------------------------|------------|-----------------------------------------------------------------------------------|---------|----------------------------------|--------------|
| 20. | T Mohammed Jihās       | NOC23-CS08 | Data Analytics with Python                                                        | BE      | Mechanical Engineering           | Jan-Apr 2023 |
| 21. | T Mohammed Jihās       | NOC23-ME15 | Automatic Control                                                                 | BE      | Mechanical Engineering           | Jan-Apr 2023 |
| 22. | Josi Babu              | NOC23-ME15 | Automatic Control                                                                 | BE      | Mechanical Engineering           | Jan-Apr 2023 |
| 23. | Sooraj Kumar s         | NOC23-CE44 | Engineering Hydrology                                                             | BE      | Civil Engineering                | Jan-Apr 2023 |
| 24. | Mehek                  | NOC23-CS22 | Discrete Mathematics                                                              | BE      | Computer Science and Engineering | Jan-Apr 2023 |
| 25. | Messiah Fatim R        | NOC23-CE44 | Engineering Hydrology                                                             | BE      | Civil Engineering                | Jan-Apr 2023 |
| 26. | Mohammed Aadil S       | NOC23-CE44 | Engineering Hydrology                                                             | BE      | Civil Engineering                | Jan-Apr 2023 |
| 27. | Vijay Krishnan M S     | NOC23-AR06 | Engineering/Architectural Graphics - part II - Isometric and Axonometric Drawings | others  | Multimedia and Communication     | Jan-Apr 2023 |
| 28. | Nithisa Devi J         | NOC23-CS03 | Foundations of Cryptography                                                       | BTECH   | Information Technology           | Jan-Apr 2023 |
| 29. | Muhammed Noufal        | NOC23-CE44 | Engineering Hydrology                                                             | BE      | Civil Engineering                | Jan-Apr 2023 |
| 30. | Nowfal Riffan          | NOC23-CE44 | Engineering Hydrology                                                             | Diploma | Civil Engineering                | Jan-Apr 2023 |
| 31. | Pavithra A             | NOC23-CS03 | Foundations of Cryptography                                                       | BTECH   | Information Technology           | Jan-Apr 2023 |
| 32. | Pratheesh.K            | NOC23-CE44 | Engineering Hydrology                                                             | BE      | Civil Engineering                | Jan-Apr 2023 |
| 33. | Prawin D               | NOC23-MG16 | Supply Chain Analytics                                                            | science | Computer Science                 | Jan-Apr 2023 |
| 34. | Prawin D               | NOC23-MG62 | Investment Management                                                             | science | Computer Science                 | Jan-Apr 2023 |
| 35. | Shahanas S             | NOC23-CS15 | Programming, Data Structures and Algorithms Using Python                          | BE      | Computer Science and Engineering | Jan-Apr 2023 |
| 36. | Shiras.S               | NOC23-CE44 | Engineering Hydrology                                                             | BE      | Civil Engineering                | Jan-Apr 2023 |
| 37. | E soorya Vanchi Simhan | NOC23-CE44 | Engineering Hydrology                                                             | BE      | Civil Engineering                | Jan-Apr 2023 |
| 38. | Sree Hari R            | NOC23-CE44 | Engineering Hydrology                                                             | BE      | Civil Engineering                | Jan-Apr 2023 |
| 39. | Sreeresmi.S            | NOC23-CE44 | Engineering Hydrology                                                             | BE      | Civil Engineering                | Jan-Apr 2023 |
| 40. | M.sreesabarish         | NOC23-CE44 | Engineering Hydrology                                                             | BE      | Civil Engineering                | Jan-Apr 2023 |
| 41. | Shino Abraham          | NOC23-CE44 | Engineering Hydrology                                                             | BE      | Civil Engineering                | Jan-Apr 2023 |
| 42. | Muhammed Thoyyib T     | NOC23-CE44 | Engineering Hydrology                                                             | BE      | Civil Engineering                | Jan-Apr 2023 |
| 43. | Udhish s chander       | NOC23-CE44 | Engineering Hydrology                                                             | BE      | Civil Engineering                | Jan-Apr 2023 |
| 44. | Vaishnavi S            | NOC23-CS15 | Programming, Data Structures And Algorithms Using Python                          | BE      | Computer Science and Engineering | Jan-Apr 2023 |

|     |           |            |                                  |                 |                   |              |
|-----|-----------|------------|----------------------------------|-----------------|-------------------|--------------|
| 45. | Vimal A   | NOC23-HS51 | Introduction to Cultural Studies | Arts_Humanities | English           | Jan-Apr 2023 |
| 46. | Y.Abinash | NOC23-CE44 | Engineering Hydrology            | BE              | Civil Engineering | Jan-Apr 2023 |

47. Details of the SWAYAM Course Registered by the Faculty Members: 41+42=83

| Sl. No. | Name of the Faculty     | Course ID   | Course Name                                                     | Profession | Department                       | Timeline     |
|---------|-------------------------|-------------|-----------------------------------------------------------------|------------|----------------------------------|--------------|
| 1.      | Beulah S                | NOC22-CS65  | Big Data Computing                                              | Faculty    | Computer Science                 | Jul-Dec 2022 |
| 2.      | Bindhu B                | NOC22-CE77  | Environmental Modeling and Simulation                           | Faculty    | Physics                          | Jul-Dec 2022 |
| 3.      | Bindhu B                | NOC22-CH66  | Hydrogen Energy: Production, Storage, Transportation and Safety | Faculty    | Physics                          | Jul-Dec 2022 |
| 4.      | Bindhu B                | NOC22-DE14  | Innovation by Design                                            | Faculty    | Physics                          | Jul-Dec 2022 |
| 5.      | Bindhu B                | NOC22-HS86  | Appreciating Carnatic Music                                     | Faculty    | Physics                          | Jul-Dec 2022 |
| 6.      | Bindhu B                | NOC22-MG81  | Entrepreneurship                                                | Faculty    | Physics                          | Jul-Dec 2022 |
| 7.      | Bindhu B                | NOC22-MM37  | Techniques of Materials Characterization                        | Faculty    | Physics                          | Jul-Dec 2022 |
| 8.      | Bindhu B                | NOC22-PH26  | Computational Physics                                           | Faculty    | Physics                          | Jul-Dec 2022 |
| 9.      | Bindhu B                | NOC22-PH35  | Experimental Physics - I                                        | Faculty    | Physics                          | Jul-Dec 2022 |
| 10.     | S Maria Celestin Vigila | NOC22-CS124 | Deep Learning                                                   | Faculty    | Information Technology           | Jul-Dec 2022 |
| 11.     | S Maria Celestin Vigila | NOC22-CS74  | Python for Data Science                                         | Faculty    | Information Technology           | Jul-Dec 2022 |
| 12.     | C.R.Jothy               | NOC22-CS96  | Introduction To Internet Of Things                              | Faculty    | Computer Science and Engineering | Jul-Dec 2022 |
| 13.     | Afna.A.S                | NOC22-MG104 | Principles of Management                                        | Faculty    | Business Administration          | Jul-Dec 2022 |
| 14.     | Ganapathi Raman         | NOC22-GE27  | Accreditation and Outcome Based Learning                        | Faculty    | Physics                          | Jul-Dec 2022 |
| 15.     | Ganapathi Raman         | NOC22-PH41  | Nuclear and Particle Physics                                    | Faculty    | Physics                          | Jul-Dec 2022 |
| 16.     | Asha                    | NOC22-MG67  | Business Analytics & Data Mining Modeling Using R Part II       | Faculty    | Business Administration          | Jul-Dec 2022 |
| 17.     | Jebin Bose S            | NOC22-CS124 | Deep Learning                                                   | Faculty    | Computer Science and Engineering | Jul-Dec 2022 |
| 18.     | Jebin Bose S            | NOC22-CS73  | Introduction to Machine Learning                                | Faculty    | Computer Science and Engineering | Jul-Dec 2022 |

| Sl. No. | Name of the Faculty           | Course ID   | Course Name                                       | Profession | Department                       | Timeline     |
|---------|-------------------------------|-------------|---------------------------------------------------|------------|----------------------------------|--------------|
| 19.     | Jebin Bose S                  | NOC22-CS74  | Python for Data Science                           | Faculty    | Computer Science and Engineering | Jul-Dec 2022 |
| 20.     | J.E.JUDITH                    | NOC22-CS65  | Big Data Computing                                | Faculty    | Computer Science and Engineering | Jul-Dec 2022 |
| 21.     | J.E.JUDITH                    | NOC22-CS72  | Data Science for Engineers                        | Faculty    | Computer Science and Engineering | Jul-Dec 2022 |
| 22.     | J.E.JUDITH                    | NOC22-GE29  | Fundamentals Of Artificial Intelligence           | Faculty    | Computer Science and Engineering | Jul-Dec 2022 |
| 23.     | Dr. S. BINU SATHIYA           | NOC22-MG104 | Principles of Management                          | Faculty    | Instrumentation Engineering      | Jul-Dec 2022 |
| 24.     | Lisha Daniel                  | NOC22-BT61  | Organ Printing                                    | Faculty    | Electronics Engineering          | Jul-Dec 2022 |
| 25.     | Lisha Daniel                  | NOC22-EE87  | Introductory Neuroscience & Neuro-Instrumentation | Faculty    | Electronics Engineering          | Jul-Dec 2022 |
| 26.     | Mago Stalany V                | NOC22-MG97  | Industrial Safety Engineering                     | Faculty    | Mechanical Engineering           | Jul-Dec 2022 |
| 27.     | Dr.V.Mago Stalany             | NOC22-MG97  | Industrial Safety Engineering                     | Faculty    | Mechanical Engineering           | Jul-Dec 2022 |
| 28.     | V. Mary Amala Bai             | NOC22-CS117 | Social Network Analysis                           | Faculty    | Information Technology           | Jul-Dec 2022 |
| 29.     | V. Mary Amala Bai             | NOC22-CS124 | Deep Learning                                     | Faculty    | Information Technology           | Jul-Dec 2022 |
| 30.     | V. Mary Amala Bai             | NOC22-CS84  | Introduction to Machine Learning (Tamil)          | Faculty    | Information Technology           | Jul-Dec 2022 |
| 31.     | Manju.R                       | NOC22-EE83  | Control Engineering                               | Faculty    | Instrumentation Engineering      | Jul-Dec 2022 |
| 32.     | V.G RANJITH                   | NOC22-CS75  | Reinforcement Learning                            | Faculty    | Computer Science and Engineering | Jul-Dec 2022 |
| 33.     | Mary Synthia Regis Prabha D M | NOC22-EE81  | Dc Microgrid and control systems                  | Faculty    | Electrical Engineering           | Jul-Dec 2022 |
| 34.     | Mary Synthia Regis Prabha D M | NOC22-GE27  | Accreditation and Outcome Based Learning          | Faculty    | Electrical Engineering           | Jul-Dec 2022 |
| 35.     | Mary Synthia Regis Prabha D M | NOC22-HS86  | Appreciating Carnatic Music                       | Faculty    | Electrical Engineering           | Jul-Dec 2022 |
| 36.     | R.SUJI PRAMILA                | NOC22-CS72  | Data Science for Engineers                        | Faculty    | Computer Science and Engineering | Jul-Dec 2022 |
| 37.     | R.SUJI PRAMILA                | NOC22-GE29  | Fundamentals of Artificial Intelligence           | Faculty    | Computer Science and Engineering | Jul-Dec 2022 |
| 38.     | Mr. G. Victor Jeyachandra     | NOC22-MA41  | Mathematical Methods and its Applications         | Faculty    | Mathematics                      | Jul-Dec 2022 |
| 39.     | Mr. G. Victor                 | NOC22-      | Complex Analysis                                  | Faculty    | Mathematics                      | Jul-Dec      |

| Sl. No. | Name of the Faculty       | Course ID   | Course Name                                       | Profession | Department                       | Timeline     |
|---------|---------------------------|-------------|---------------------------------------------------|------------|----------------------------------|--------------|
|         | Jeyachandra               | MA57        |                                                   |            |                                  | 2022         |
| 40.     | Mr. G. Victor Jeyachandra | NOC22-MA81  | Introduction to Probability Theory and Statistics | Faculty    | Mathematics                      | Jul-Dec 2022 |
| 41.     | Dr. V. P. Velmurugan      | NOC22-MG113 | Security Analysis & Portfolio Management          | Faculty    | Business Administration          | Jul-Dec 2022 |
| 42.     | Anusha Linda Kostka J E   | NOC23-CS05  | An Introduction to Artificial Intelligence        | Faculty    | Computer Science and Engineering | Jan-Apr 2023 |
| 43.     | Anusha Linda Kostka J E   | NOC23-CS08  | Data Analytics with Python                        | Faculty    | Computer Science and Engineering | Jan-Apr 2023 |
| 44.     | Anusha Linda Kostka J E   | NOC23-CS18  | Introduction to Machine Learning                  | Faculty    | Computer Science and Engineering | Jan-Apr 2023 |
| 45.     | Anusha Linda Kostka J E   | NOC23-CS24  | Deep Learning - IIT Ropar                         | Faculty    | Computer Science and Engineering | Jan-Apr 2023 |
| 46.     | Anusha Linda Kostka J E   | NOC23-CS45  | Natural Language Processing                       | Faculty    | Computer Science and Engineering | Jan-Apr 2023 |
| 47.     | Anusha Linda Kostka J E   | NOC23-CS56  | Deep Learning                                     | Faculty    | Computer Science and Engineering | Jan-Apr 2023 |
| 48.     | Anusha Linda Kostka J E   | NOC23-HS27  | German - I                                        | Faculty    | Computer Science and Engineering | Jan-Apr 2023 |
| 49.     | S Maria Celestin Vigila   | NOC23-CS02  | Introduction To Programming In C                  | Faculty    | Information Technology           | Jan-Apr 2023 |
| 50.     | S Maria Celestin Vigila   | NOC23-CS53  | Problem Solving Through Programming In C          | Faculty    | Information Technology           | Jan-Apr 2023 |
| 51.     | C.R.Jothy                 | NOC23-CS33  | Introduction to Machine Learning (Tamil)          | Faculty    | Computer Science and Engineering | Jan-Apr 2023 |
| 52.     | Eqbert.K                  | NOC23-ME28  | Oil Hydraulics and Pneumatics                     | Faculty    | Mechanical Engineering           | Jan-Apr 2023 |
| 53.     | Eqbert.K                  | NOC23-ME58  | Finite element modeling of welding processes      | Faculty    | Mechanical Engineering           | Jan-Apr 2023 |
| 54.     | Eqbert.K                  | NOC23-MG11  | Design Thinking - A Primer                        | Faculty    | Mechanical Engineering           | Jan-Apr 2023 |
| 55.     | Muthuvel K                | NOC23-CS33  | Introduction to Machine Learning (Tamil)          | Faculty    | Electrical Engineering           | Jan-Apr 2023 |
| 56.     | Harivelayutham            | NOC23-EE11  | Digital IC Design                                 | Faculty    | Electrical Engineering           | Jan-Apr 2023 |
| 57.     | Harivelayutham            | NOC23-EE17  | Fundamentals of semiconductor devices             | Faculty    | Electrical Engineering           | Jan-Apr 2023 |
| 58.     | Harivelayutham            | NOC23-EE40  | Design and Analysis of VLSI Subsystems            | Faculty    | Electrical Engineering           | Jan-Apr 2023 |
| 59.     | Harivelayutham            | NOC23-EE50  | Digital Electronic Circuits                       | Faculty    | Electrical Engineering           | Jan-Apr 2023 |

| Sl. No. | Name of the Faculty        | Course ID  | Course Name                                                       | Profession | Department                       | Timeline     |
|---------|----------------------------|------------|-------------------------------------------------------------------|------------|----------------------------------|--------------|
| 60.     | Asha                       | NOC23-MG05 | Data Analysis and Decision Making - I                             | Faculty    | Business Administration          | Jan-Apr 2023 |
| 61.     | Joseph                     | NOC23-GE22 | Roadmap for patent creation                                       | Faculty    | Chemistry                        | Jan-Apr 2023 |
| 62.     | J.E.Judith                 | NOC23-CS21 | Python for Data Science                                           | Faculty    | Computer Science and Engineering | Jan-Apr 2023 |
| 63.     | J.E.Judith                 | NOC23-CS33 | Introduction to Machine Learning (Tamil)                          | Faculty    | Computer Science and Engineering | Jan-Apr 2023 |
| 64.     | Lisha Daniel               | NOC22-MD01 | Basic course in Biomedical Research                               | Faculty    | Electronics Engineering          | Jan-Apr 2023 |
| 65.     | Lisha Daniel               | NOC23-BT04 | Biomechanics                                                      | Faculty    | Electronics Engineering          | Jan-Apr 2023 |
| 66.     | Lisha Daniel               | NOC23-BT15 | Demystifying The Brain                                            | Faculty    | Electronics Engineering          | Jan-Apr 2023 |
| 67.     | Lisha Daniel               | NOC23-EE41 | Advanced Neural Science for Engineers                             | Faculty    | Electronics Engineering          | Jan-Apr 2023 |
| 68.     | Dr.V.G Ranjith             | NOC23-CS65 | Foundation of Cloud IoT Edge ML                                   | Faculty    | Computer Science and Engineering | Jan-Apr 2023 |
| 69.     | R.ROSELIN                  | NOC23-CE44 | Engineering Hydrology                                             | Faculty    | Civil Engineering                | Jan-Apr 2023 |
| 70.     | Samuel Blessed Nayagam P.V | NOC23-GE01 | NBA Accreditation and Teaching and learning in Engineering (NATE) | Faculty    | Computer Science                 | Jan-Apr 2023 |
| 71.     | Gobalakrishnan             | NOC23-CS20 | The Joy of Computing using Python                                 | Faculty    | Physics                          | Jan-Apr 2023 |
| 72.     | Gobalakrishnan             | NOC23-ME52 | Product Engineering and Design Thinking                           | Faculty    | Physics                          | Jan-Apr 2023 |
| 73.     | Gobalakrishnan             | NOC23-MG11 | Design Thinking - A Primer                                        | Faculty    | Physics                          | Jan-Apr 2023 |
| 74.     | Gobalakrishnan             | NOC23-MM16 | Crystals, Symmetry and Tensors                                    | Faculty    | Physics                          | Jan-Apr 2023 |
| 75.     | Gobalakrishnan             | NOC23-PH01 | Mathematical Methods in Physics 1                                 | Faculty    | Physics                          | Jan-Apr 2023 |
| 76.     | Gobalakrishnan             | NOC23-PH15 | Thermal physics                                                   | Faculty    | Physics                          | Jan-Apr 2023 |
| 77.     | Gobalakrishnan             | NOC23-PH16 | Atomic and Molecular Physics                                      | Faculty    | Physics                          | Jan-Apr 2023 |
| 78.     | Allwin D                   | NOC23-CE44 | Engineering Hydrology                                             | Faculty    | Civil Engineering                | Jan-Apr 2023 |

48. Details of Meetings Held

| Sl. No. | Date/ Day / Time | Venue | Out Come |
|---------|------------------|-------|----------|
| Nil     |                  |       |          |

49. Other Information (If Any): Circular(s)

\*\*\*\*\*

## WOMEN EMPOWERMENT CELL

1. Name of the Cell : Women Empowerment Cell
2. Director/ Convener/ Nodal Officer/ Faculty Incharge : Dr. M. Immaculate Mary
3. E-mail , Phone no : imma\_arul@yahoo.com  
9486856123
4. Details of other members

| S.No. | Name                              | Designation              | Department              | Qualification         |
|-------|-----------------------------------|--------------------------|-------------------------|-----------------------|
| 1     | Dr. K.Uma Samundesvari            | Associate Professor      | Mathematics             | M.Sc., M.Phil., Ph.D. |
| 2     | Dr. J. R. Jeba                    | Associate Professor/ HoD | Computer Applications   | M.Sc., M.Phil., Ph.D. |
| 3     | Dr. B. Bindhu                     | Professor/ HoD           | Physics                 | M.Sc., M.Phil., Ph.D. |
| 4     | Dr. G. Arockia Selva Saroja       | Associate Professor/ HoD | Allied Health Sciences  | M.E., Ph.D.           |
| 5     | Dr. T.V. Sindia                   | Associate Professor      | IT                      | M.E., Ph.D.           |
| 6     | Dr. H. Vennila                    | Associate Professor      | EEE                     | M.E., Ph.D.           |
| 7     | Dr. Asha                          | Assistant Professor      | Business Administration | M.B.A., Ph.D.         |
| 8     | Mrs. Sree Lekha                   | Junior Assistant         | Office                  |                       |
| 9     | Ms. Ashika S.A Student Member     | Student M.Tech. (Nano)   | M. Tech.(Nano)          |                       |
| 10    | Sowmya Chakraborty Student Member | Student                  | S7 B.E. (AME)           |                       |

5. No. of Complaints Received : Nil
6. No. of Complaints Disposed : Nil
7. No. of Complaints Pending : Nil
8. Details of Meetings held

| S.No. | Date/ Day / Time | Venue - NICHE     | Chief Guest                              | Out come                                               |
|-------|------------------|-------------------|------------------------------------------|--------------------------------------------------------|
| 1     | 06-12-2022       | Workshop          | Mrs. Rekha Prasad, Advocate, Trissur.    | Prevention of Sexual Harassment of Women at Workplaces |
| 2     | 24-01-2023       | Motivational Talk | Mrs. Rtn. Major Donar Jacintha Dharma, , | Celebration of International Girl Child                |

| S.No. | Date/ Day / Time | Venue - NICHE                 | Chief Guest                                                             | Out come                                                      |
|-------|------------------|-------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------|
|       |                  |                               | Past Rotary District Governor, Rotary Club of Nagercoil                 | Day                                                           |
| 3     | 08-03-2023       | Invited Talk                  | Mrs. Savitha, AP/ English, Sree Ayyappa College, Chunkankada, Nagercoil | Celebration of Womens' Day                                    |
| 4     | 26-05-2023       | Awareness Talk on Health Care | Mrs. Bismi N Asst. Prof. AHS/NICHE                                      | Celebration of International Day of Action for Women's Health |
| 5     | 19-07-2023       | Training Programme            | Kyo-shi- Noushad A. & Kyo-shi- Shahina Mol H. Neyyatinkara.             | Self Defense Training for Hostel Girls                        |

9. Other Information (if any): Nil

\*\*\*\*\*

#### INTERNAL COMPLAINTS COMMITTEE

1. Name of the Cell : Internal Complaints Committee
2. Director/ Convener/ Nodal Officer/ Faculty Incharge : Dr. B. Bindhu
3. E-mail , Phone no : [bindhub@niuniv.com](mailto:bindhub@niuniv.com), 9500427092
4. Details of other members

| S.No. | Name                 | Designation                                                                   | Department             | Qualification                                       |
|-------|----------------------|-------------------------------------------------------------------------------|------------------------|-----------------------------------------------------|
| 1     | Dr. B. Bindhu        | Professor & Head, Physics, Dean, Faculty of S & H, Director, Students Affairs | Physics                | M.Sc., M.Phil., Ph.D                                |
| 2     | Dr. J. R. Jeba       | Associate Prof. & Head,                                                       | Computer Applications  | MCA, Ph.D                                           |
| 3     | Ms. R. Ramani Kannan | NGO                                                                           | External Expert        | MA (Psy), MBA, PG Diploma in Guidance & Counselling |
| 4     | Mr. P. Reghu Kumar   | Advocate                                                                      | External Expert        |                                                     |
| 5     | Dr. M. Murugan       | Professor & Head, Dean, Faculty of Technology                                 | Biomedical Engineering | M.Sc., Ph.D                                         |

| S.No. | Name                   | Designation            | Department                             | Qualification |
|-------|------------------------|------------------------|----------------------------------------|---------------|
| 6     | Dr. M. Immaculate Mary | Professor & Head       | Mathematics                            | M.Sc., Ph.D   |
| 7     | Ms. P.B. Sarasija      | Professor              | Mathematics                            | M.Sc., Ph.D   |
| 8     | Dr. P. K. Praseetha    | Professor & Head       | Nanotechnology                         | M.Sc., Ph.D   |
| 9     | Dr. H. Vennila         | Associate Professor    | Electrical and Electronics Engineering | M.E., Ph.D    |
| 10    | Ms. R. Sree Lekha      | Administrative Office  | Students Affairs                       |               |
| 11    | Ms. V. Shyamala        | Peon                   | Management Studies                     |               |
| 12    | Gopika PR              | Student Representative | S7 BME                                 |               |
| 13    | Ms. Suhith Mithra SS   | Student Representative | S5 .BSc. HGMB                          |               |
| 13    | Ms. Arunima            | Student Representative | S7 CSE                                 |               |
| 14    | Ms. Praveena           | Student Representative | S3, MCA                                |               |
| 15    | Neeraja                | Research Scholar       | Physics                                |               |

10. No. of Complaints Received : Nil

11. No. of Complaints Disposed : Nil

12. No. of Complaints Pending : Nil

13. Details of Meetings held

| S.No. | Date/ Day / Time             | Venue | Out come                                                                                                                                                                                                                                                                                                                                                         |
|-------|------------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | 14.11.2022, Monday, 02.30 PM | A 306 | <p>To conduct sensitization workshops for the NICHE students and employees to make them aware about the provisions of the Act.</p> <p>To observe the 25th of November as the International Day for the Elimination of Violence against Women.</p> <p>To observe Discrimination against Women Pakhwada from 25.11.2022 to 10.12.2022.</p> <p>No pending cases</p> |

| S.No. | Date/ Day / Time                  | Venue | Out come                                                                                                                                                       |
|-------|-----------------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2     | 20.05.2023, Saturday,<br>11.30 AM | A306  | To conduct sensitization workshops for the NICHE students and employees to make them aware about the provisions of the Act.<br><br>No pending cases/complaints |

14. Other Information (if any):

15.

- (iii) Organized a Sensitization workshop on Sexual Harassment of Women at workplace (Prevention, Prohibition and Redressal) Act 2013 on 6<sup>th</sup> Dec 2022 to disseminate awareness among Faculty, Ph.D scholars, students, non-teaching staff and office bearers about the right, entitlement and responsibilities in the act under the regulations of the act.
- (iv) An awareness program on gender sensitization was conducted by the Internal Complaints Committee of NICHE on 23<sup>rd</sup> May 2023 at 10.30 am in the AC Auditorium.

\*\*\*\*\*

### INSTITUTION INNOVATION COUNCIL

- 1. Name of the Cell : Institution's Innovation Council
- 2. Director/ Convener/ Nodal Officer/ Faculty Incharge : Dr. A. Shajin Nargunam, President
- 3. E-mail , Phone no : [innovationcell@niuniv.com](mailto:innovationcell@niuniv.com)  
9443314203

4. Details of other members

| S.No. | Name                  | Designation                     | Department             | Qualification |
|-------|-----------------------|---------------------------------|------------------------|---------------|
| 1     | Dr. Kinslin D         | Vice President                  | Management Studies     | Ph.D          |
| 2     | Dr. R. S. Rimal Isaac | Convenor                        | Nanotechnology         | Ph.D          |
| 3     | Mr. Mathan Kumar S    | Innovation Activity Coordinator | Civil Engineering      | M.E           |
| 4     | Mr. Dinesh R          | Start-up Activity coordinator   | Mechanical Engineering | M.E           |
| 5     | Dr. Sindia T V        | Internship Coordinator          | Information Technology | Ph.D          |
| 6     | Dr. Albert Jerome S   | IPR Activity Coordinator        | Biomedical Engineering | Ph.D          |

| S.No. | Name                | Designation              | Department             | Qualification |
|-------|---------------------|--------------------------|------------------------|---------------|
| 7     | Dr. Unni Krishnan A | Social Media Coordinator | Mechanical Engineering | Ph.D          |

16. Details of the Programmes conducted :

| Sl. No | Programmes                                                                                                          | Date                    | No. of Participants | Remarks |
|--------|---------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------|---------|
| 1.     | Launch of 5G Services                                                                                               | 01.10. 22               | 15                  |         |
| 2.     | Inauguration of IIC 5.0                                                                                             | 14.10.2022              | 25                  |         |
| 3.     | Motivational session by a Successful Entrepreneur                                                                   | 14.10.2022              | 45                  |         |
| 4.     | Internal Hackathon                                                                                                  | 14.10.2022              | 45                  |         |
| 5.     | National Innovation Day Celebration                                                                                 | 15.10.2022              | 25                  |         |
| 6.     | Intellectual Property Rights and IP Management                                                                      | 20.10. 22               | 45                  |         |
| 7.     | Innovation – An Overview                                                                                            | 27.10. 22               | 25                  |         |
| 8.     | Awareness Workshop on Intellectual Property Rights                                                                  | 03.11. 22               | 33                  |         |
| 9.     | Motivational session by s Successful Innovator                                                                      | 4.11.22                 | 45                  |         |
| 10.    | Webinar on Innovative Materials in Construction                                                                     | 09.11. 22               | 56                  |         |
| 11.    | National Education Day 2022                                                                                         | 11.11.22                | 55                  |         |
| 12.    | ATL Tinkering Day                                                                                                   | 14.11.22                | 35                  |         |
| 13.    | Entrepreneurship and Innovation as a Career Opportunity                                                             | 29.11.22                | 24                  |         |
| 14.    | National Energy Conservation Day Celebration                                                                        | 14.12.2023              | 55                  |         |
| 15.    | Two days workshop on Design Thinking                                                                                | 09.01.2023 & 10.01.2023 | 35                  |         |
| 16.    | Orientation session on IIC 5.0 and its Features                                                                     | 11.01.23                | 45                  |         |
| 17.    | National Youth day Celebration                                                                                      | 18.01.2023              | 22                  |         |
| 18.    | Awareness workshop on How to win TNSI 2022 Award                                                                    | 20.01.2023              | 56                  |         |
| 19.    | Startup Day Celebration                                                                                             | 27.01.2023              | 44                  |         |
| 20.    | Leadership Talk                                                                                                     | 30.01.2023              | 22                  |         |
| 21.    | <b>Field Visit - VILAVUR</b> Panchayat                                                                              | 08.02. 23               | <b>25</b>           |         |
| 22.    | Problem-solving session                                                                                             | 09.02.23                | 36                  |         |
| 23.    | Design Thinking workshop – Creating user Experienced Product                                                        | 10.02.2023 & 11.02.2023 | 46                  |         |
| 24.    | Workshop on Entrepreneurship Development for outgoing students                                                      | 16.02.2023              | 45                  |         |
| 25.    | Technology Readiness Level                                                                                          | 21.02.2023              | 55                  |         |
| 26.    | Innovation and Entrepreneurship Outreach program in schools. St. Stella Matric Higher secondary school - Angugramam | 27.02.23                | 46                  |         |
| 27.    | National Science Day celebration                                                                                    | 28.02.23                | 33                  |         |

## 17. Details of Meetings held

| S.No. | Date/ Day / Time | Venue       | Out come                            |
|-------|------------------|-------------|-------------------------------------|
| 1.    | 31-March-2023    | Robotic Lab | Discussion of April 2023 Activities |
| 2.    | 17-March-2023    | Robotic Lab | IIC Activities                      |
| 3.    | 7-February-2023  | Robotic Lab | IIC Activities                      |
| 4.    | 22 January 2023  | Robotic Lab | IIC Activities                      |
| 5.    | 14 December 2023 | Robotic Lab | IIC Activities                      |
| 6.    | 24 November 2023 | Robotic Lab | IIC Activities                      |
| 7.    | 5 October 2023   | Robotic Lab | IIC Activities                      |

## 18. Other Information (if any)

\*\*\*\*\*

### CAREER COUNSELING CENTRE

1. Name of the Cell : Career Counseling Centre
2. Director/ Convener/ Nodal Officer/ Faculty Incharge : Dr. K. Siva Sankar
3. E-mail , Phone no : [placement@niuniv.com](mailto:placement@niuniv.com),  
9486856114
4. Details of other members

| S.No. | Name                       | Designation                  | Department | Qualification             |
|-------|----------------------------|------------------------------|------------|---------------------------|
| 1     | Dr. B. Stanly Jones Retnam | Additional Placement Officer | Automobile | M.E., Ph.D, MBA           |
| 2     | Ms.Mary Leela V            | Junior Assistant             | Placement  | B.Sc.B.Ed., (SDMR), PGDCA |

## 19. Details of the Counseling conducted :

| S.No. | Programme                              | Date       | No. of Participants | Remarks |
|-------|----------------------------------------|------------|---------------------|---------|
| 1     | My Entrepreneurship Journey            | 27.07.2022 | 57                  | -       |
| 2     | Overseas prospects In Higher education | 11.08.2022 | 93                  | -       |
| 3     | Campus Onboarding                      | 19.12.2022 | 26                  | -       |
| 4     | Orientation Program                    | 13.03.2023 | 119                 | -       |

| S.No. | Programme                            | Date       | No. of Participants | Remarks |
|-------|--------------------------------------|------------|---------------------|---------|
| 5     | Career Guidance                      | 16.03.2023 | 86                  | -       |
| 6     | Opportunities In Indian Armed Forces | 12.04.2023 | 140                 | -       |

## 20. Details of Meetings held

| S.No. | Date/ Day / Time | Venue | Out come |
|-------|------------------|-------|----------|
|       |                  |       |          |
|       |                  |       |          |

Other Information (if any)

\*\*\*\*\*

## CENTRE FOR ADVANCED MATERIALS SCIENCE & TECHNOLOGY

### 1. Centre Details:

|                 |                                                                                       |
|-----------------|---------------------------------------------------------------------------------------|
| Name            | Centre for Advanced Materials Science & Technology                                    |
| Director's Name | Dr. M. Dev Anand                                                                      |
| Phone Number    | +(91) 9486856122, +(91) 4651 250 462                                                  |
| E-mail          | dir-research@niuniv.com                                                               |
| Website         | <a href="http://www.niuniv.com/research.html">http://www.niuniv.com/research.html</a> |

### 2. Research Facilities Available 2022-23:

#### (a) Material Properties, Characterization and Manufacturing Research Facilities

| Sl. No. | Name of the Instrument, Model & Manufacture      |
|---------|--------------------------------------------------|
| 1.      | CNC Machine                                      |
| 2.      | Universal Testing Machine                        |
| 3.      | Micro Hardness Tester and Wear Testing Machine   |
| 4.      | Hydraulic Press                                  |
| 5.      | 3D Printed Technology                            |
| 6.      | Computational Fluid Dynamics Research Facilities |
| 7.      | Electronic Balance                               |
| 8.      | pH Meter                                         |
| 9.      | Muffle Furnace                                   |
| 10.     | Constant Temperature Bath                        |
| 11.     | Distilled Water Plant                            |
| 12.     | Hot Plates                                       |
| 13.     | Magnetic Stirrers                                |
| 14.     | Electrochemical Analyzer CHI 604 D               |
| 15.     | UV-Visible Spectrophotometer Systronics          |
| 16.     | FT IR Affinity-1 Shimadzu                        |
| 17.     | Gel Documentation System Genei Merck             |
| 18.     | Rotovap Superfit                                 |

19. Incubator Technico
20. Deep Freezer Blue Star
21. 3D Printing

**(b) Nano Characterization Laboratory Instruments**

| Sl. No. | Name of the Instrument, Model & Manufacture               |
|---------|-----------------------------------------------------------|
| 1.      | Atomic Force Microscope, XE-70, Park System, Korea        |
| 2.      | Electro Chemical Work Station, CHI Instruments 604 D, USA |
| 3.      | Particle Size Analyser, CPS Instruments DC 12000, USA     |
| 4.      | FTIR, Bruker, Alpha T, Germany                            |
| 5.      | TG/DTA, SIINT 6300, Japan                                 |
| 6.      | Ball Mill, PM 100, Germany                                |
| 7.      | Elga Ultra-Pure Water, Pure Lab Q7, UK                    |
| 8.      | UV-Vis Spectrophotometer, Systronics, 2202, India         |
| 9.      | Surface Area Analyzer, Smart Instruments SS-9, India      |
| 10.     | BH Curve Tracer, BHCT-CRO, India                          |
| 11.     | UPS for AFM, MU 300, Matrix India                         |
| 12.     | XRD, D2 Phaser, Bruker Germany                            |
| 13.     | UPS for XRD, Power One Micro Systems India                |
| 14.     | Raman Spectrometer, EZ Raman Enwave Optronics, USA        |

**(c) Nano Synthesis Instruments**

| Sl. No. | Name of the Instrument, Model & Manufacture                                                        |
|---------|----------------------------------------------------------------------------------------------------|
| 1.      | Digital Electronic Balance, D432813364, Japan.                                                     |
| 2.      | Electric Water Bath Double Walled, NLWB 6, New Lab Equipment, India.                               |
| 3.      | Hot Air Oven, Type: AVSO4A, Eltek Equipment Private Ltd, Mumbai.                                   |
| 4.      | Heating Mantel, 2486, Guna Enterprises, India.                                                     |
| 5.      | Mechanical Stirrer Remi Make, FOL 1756, Rajendra Electrical Instruments Limited, India.            |
| 6.      | Magnetic Stirrer, Rajendra Electrical Industry Limited, India. (2Nos)                              |
| 7.      | Vacuum Pump, Ambika Enterprises, India.                                                            |
| 8.      | UV Lamp with Fitting Long Ware, United Scientific                                                  |
| 9.      | Double Distilled Water Plant, United Scientific                                                    |
| 10.     | Hair Drier, Salon Compact 1000w, Philips.                                                          |
| 11.     | Vacuum Oven, Technico.                                                                             |
| 12.     | Muffle Furnace, United Scientific                                                                  |
| 13.     | Spin Coater, Spectrospin Instrument Inc. India.                                                    |
| 14.     | Magnetic Stirrer, Remi Electro technic Limited, Vasai-India.                                       |
| 15.     | Centrifuge Model (R-8C), Remi, Electro Technic Limited, India.                                     |
| 16.     | Ultrasonic Cleaner, United Scientific                                                              |
| 17.     | Gun For Liq Spray, Type 59, pilot spray gun, Manic Machinery Manufactures Private Limited, Mumbai. |
| 18.     | Air Compressor, Indian Make Gajendra.                                                              |
| 19.     | Ultrasonic Probe Sonicator, PS-3182                                                                |

**(d) Nano Applications & Research Instruments**

| Sl. No. | Name of the Instrument, Model & Manufacture   |
|---------|-----------------------------------------------|
| 1.      | Autoclave, Sujha Surgical                     |
| 2.      | Laminar Flow Combiner, B8C Industries, India. |

3. Peristaltic Pump, Mumbai, India.
4. Heating Mantel, Rotex Instruments, B&C Industries, India.(2Nos)
5. Incubator, Rotek, India.
6. Magnetic Stirrer, Guna Enterprises, India
7. Hot Plat Ceramic Top, Tarson.
8. pH meter, Pen Type, Sujha Surgical
9. Orbital Shaking Incubator, LAB Line Industries, Cochin India.

**(e) Advanced Nano Material Research Instruments**

| Sl. No. | Available Major/Minor Equipment's/Apparatus       |
|---------|---------------------------------------------------|
| 1.      | Fluorescence Spectrophotometer (SL174, ELICO)     |
| 2.      | NIR Spectrophotometer (SL153, ELICO)              |
| 3.      | Planetary High Energy Ball Mill                   |
| 4.      | High-Temperature Tubular Furnace (1600°C)         |
| 5.      | Groove Rolled Box Furnace (1000°C)                |
| 6.      | Muffle Furnace (900°C)                            |
| 7.      | Glove Box                                         |
| 8.      | Electronic Balance (Shimadzu, Japan)              |
| 9.      | Electronic Balance (Anamed, India)                |
| 10.     | Hot Air Oven                                      |
| 11.     | Hydraulic Press                                   |
| 12.     | Air Compressor                                    |
| 13.     | Vacuum Pump                                       |
| 14.     | Heating Mantles                                   |
| 15.     | Ultra Sonicator                                   |
| 16.     | Mechanical Stirrers                               |
| 17.     | Water Bath                                        |
| 18.     | Laboratory Centrifuge REMI - 8C (5400 rpm)        |
| 19.     | Bench Top Centrifuge Model R- 24 REMI (17300 rpm) |
| 20.     | Autoclaves (for Hydrothermal Synthesis)           |
| 21.     | Water Distillation Plant                          |
| 22.     | pH Meter                                          |
| 23.     | Microwave Oven                                    |
| 24.     | IR Lamp                                           |
| 25.     | UV Lamp                                           |
| 26.     | Oxygen Cylinder with Regulator                    |
| 27.     | Nitrogen Cylinder with Regulator                  |
| 28.     | Argon Cylinder with Regulator                     |

**3. Activities of the Centre for Advanced Materials Science & Technology:**

| Sl.No. | Particulars                | Dates    |
|--------|----------------------------|----------|
| 1      | Workshops                  | Informed |
| 2      | Seminar / Conferences, Etc | Informed |

**4. Details of the Steering Committee Members:**

**(a) Steering Committee**

The members of the Steering Committee will be responsible for addressing all technical, managerial and financial issues relating to the development of the Centre.

The external examiners of the Steering Committee are nominated based on their expertise, experience, interest and willingness. This Steering Committee shall also function as a Peer Review Committee for all its activities.

**(b) Research Area**

- ✓ Biomaterials & Devices
- ✓ Ceramics and Glasses
- ✓ Corrosion Protection
- ✓ Electronic Materials and Devices
- ✓ Energy Materials and Devices
- ✓ Iron and Steel
- ✓ Materials and Process Modelling
- ✓ Mechanical Behaviour
- ✓ Nanomaterials and Structures
- ✓ Non-Ferrous Materials and Alloys
- ✓ Phase Transformations
- ✓ Physical Metallurgy
- ✓ Polymers
- ✓ Surface Engineering
- ✓ Synthesis and Processing
- ✓ Thin Films and Coatings
- ✓ Welding and Manufacturing

**(c) Research Activities**

- Intelligent design of traditional materials based on fundamental concepts and using tools such as modelling and simulation
- The development of new classes of materials such as Graphene, Quantum Materials and Nano-composites
- The development of materials for the biomedical sector
- Optimization of traditional manufacturing processes in terms of their efficiency and respect for the environment
- The development of new manufacturing processes such as additive manufacturing and hybrid manufacturing
- 3D printing
- The integration of materials and manufacturing processes development within the general approach to product development

**(d) Research Team (Faculty)**

1. Dr. R. C. Mehta
2. Dr. V. Narayanan Nair
3. Dr. N. Nalanth
4. Dr. M. Dev Anand
5. Dr. J. Edwin Raja Dhas
6. Dr. G. M. Joseline Herbert
7. Dr. M. Sankaranarayana Pillai
8. Dr. J. Joseph
9. Dr. B. Bindhu
10. Dr. P. K. Praseetha
11. Dr. S. Balamurugan

**(e) Research Scholars**

1. Abisha Y.
2. Remya J.
3. Berlin Push P.
4. ParvathyChandran R.

5. Abisha M. R.
6. Dharsana M.
7. Shajan V.C.
8. Prem Narayanan
9. Neeraja S M.
10. AswathyChandran Y.C.
11. Akash V. S.
12. Jari Litany R. I.
13. Parvathy P.

**5. List of Ongoing Projects 2023-22:**

| Sl.No. | Name of Principal Investigator | Department      | Title of the Project                                                                             | Name of the Funding Agency | Year        | Sanctioned Order No.        | Sanctioned Date | Amount Rs. |
|--------|--------------------------------|-----------------|--------------------------------------------------------------------------------------------------|----------------------------|-------------|-----------------------------|-----------------|------------|
| 1.     | Dr. P.K. Praseetha             | Nano Technology | FIST-Program                                                                                     | DST                        | 2018 - 2022 | SR/FST/ET-1/2017/87         | 16/01/2018      | 77 Lakhs   |
| 2.     | Dr. P.K. Praseetha             | Nano Technology | Microwave Assisted One Step Green Synthesis of Carbon Quantum Dots for Wound Healing Application | TNSCST                     | 2019 - 2021 | TNSCST/STP-PRG/AR/2018-2019 | 14/11/2019      | 3.31 Lakhs |

**6. Details of the Project Applied 2022-23:**

|    |                     |                            |                                                                                                                           |            |            |           |
|----|---------------------|----------------------------|---------------------------------------------------------------------------------------------------------------------------|------------|------------|-----------|
| 1. | Dr. P. K. Praseetha | Prof & HOD, Nanotechnology | Carbon Quantum Dot Supported Hydrophobic Silica Nano-Coating against Bio-film formation in Urinary Catheters and Implants | SERB-POWER | 21-12-2020 | 28,00,000 |
| 2. | Dr. P. K. Praseetha | Prof & HOD, Nanotechnology | Bioactive molecule based therapeutic Nanozymes for healing chronic diabetic wounds                                        | SERB-POWER | 11-10-2023 | 29,00,000 |
| 3. | Dr. P. K. Praseetha | Prof & HOD, Nanotechnology | Advanced Nano-Characterization Techniques as Complementary tools for bio-molecular applications                           | DST        | 16-12-2023 | 25,00,000 |

|     |                               |                                         |                                                                                                                                                                                                                                               |             |            |             |
|-----|-------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------|-------------|
| 4.  | Dr. P. K. Praseetha           | Prof & HOD, Nanotechnology              | Micro-Nanoplastics: Their Identification, Removal and Toxicity Impact on Living Systems                                                                                                                                                       | SERB        | 24-01-2022 | N.A.        |
| 5.  | Dr. B. Bindhu                 | Prof.&HOD/Physics                       | Preparation, Physical Properties and applications of biodegradable polymer composite material                                                                                                                                                 | SERB-POWER  | 27-01-2023 | 25,89,202   |
| 6.  | Dr. J. Joseph                 | Professor, Chemistry                    | Green Hydrogen to Combat against Climate Change as Zero Carbon Free Fuel: Synthesis, Characterization of Copper Complexes with 1,10-Phenanthroline derivatives as Electro catalyst / Photo catalyst for the Generation of Hydrogen from Water | SERB        | 11-12-2023 | 29,80,000   |
| 7.  | Dr. M. Sankaranarayana Pillai | Professor & HOD, Chemistry              | FIST PROJECT (LEVEL-1)                                                                                                                                                                                                                        | FIST        | 21-09-2023 | 3,00,00,000 |
| 8.  | Dr. N. Nalanth                | Professor, Civil Engineering            | Manufacturing of light weight aerated concrete elements" Submitted to Division :Technology Development Transfer Programme                                                                                                                     | DST - PURSE | 28-01-2022 | 4,42,00,000 |
| 9.  | Dr. S. Balamurugan            | Professor, Department of Nanotechnology | Exploration of Scheelite Type Nanostructured Inorganic Materials For Novel NIR Reflective Pigmentation Applications – An Excellent Alternative For Toxic Pigments                                                                             | SERB        | 19-04-2022 | 35,00,000   |
| 10. | Dr.P. Jerald Jose             | Asst.Prof./Mech. Dept.                  | Development of Welding Procedure for Super alloy using Statistical approach                                                                                                                                                                   | TNSCST      | 03-03-2022 | 4,45,000    |

|     |                                        |                            |                                                                                                                |        |            |          |
|-----|----------------------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------|--------|------------|----------|
| 11. | Mr. S. Raja                            | Asst.Prof./Mech. Dept.     | Development of Low Cost Polymer Composite Panels from Agro-Industrial Waste                                    | TNSCST | 03-03-2022 | 4,20,000 |
| 12. | Dr. P. K. Praseetha                    | Prof & HOD, Nanotechnology | Fabrication of nanocomposite drug loaded fibrous scaffold as an artificial skin graft                          | TNSCST | 03-03-2022 | 4,81,000 |
| 13. | Mr. D. Allwin                          | Asst.Prof., Civil          | Delineation of Permeable Zone for Desilting of Irrigation Pond to enhance the Recharge Capacity                | TNSCST | 03-03-2022 | 3,44,000 |
| 14. | Mr.V.Sureshbabu & Mr. B. V. Subhanandh | Asst.Prof., Mech.          | Plastic Wastes Recycling Process by Shredding Techniques                                                       | TNSCST | 03-03-2022 | 5,00,000 |
| 15. | Dr. T. Judson Durai                    | Asst.Prof., Mech.          | Study of Magnesium Metal Matrix Composites by Powder Metallurgy Method for Bio-medical Applications            | TNSCST | 03-03-2022 | 5,00,000 |
| 16. | Dr. Ramesh Palappan                    | Asst.Prof., Mech.          | Heat Transfer Enhancement of PCM Based Heat Pipe for Thermal Energy Storage in Electronic Cooling Applications | TNSCST | 03-03-2022 | 4,60,000 |
| 17. | Dr. Selvan Nambi                       | Asst.Prof., Mech.          | Performance Study of Wind Turbine blade airfoil                                                                | TNSCST | 03-03-2022 | 5,00,000 |
| 18. | Dr. A. Unnikrishnan                    | Asst.Prof., Mech.          | Utilization of Bio Gas Production From Food and Animal Waste for Kitchen Application                           | TNSCST | 03-03-2022 | 5,00,000 |
| 19. | Dr. R. Rajesh                          | ASP & HOD, Mech.           | Additive Manufacturing for Orthotics and Prosthetic Devices Development                                        | TNSCST | 03-03-2022 | 5,00,000 |
| 20. | Dr. B. Bindhu                          | Prof & HoD / Physics       | Banana Pseudostem Fibre Reinforced Biodegradable Polymer Composites With Tailored Properties                   | TNSCST | 07-03-2022 | 5,00,000 |

|     |                            |                       |                                                                                                                                 |        |            |          |
|-----|----------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------|--------|------------|----------|
| 21. | Dr. V. N. Meena Devi       | ASP / Physics         | Ecofriendly Biofuel From Calophyllum Innophyllum And Utilization Of Oil Cake For Bioremediation Through Activated Carbon        | TNSCST | 07-03-2022 | 4,95,000 |
| 22. | Dr. J. Joseph              | Prof./Chemistry       | Efficient Conversion of CO <sub>2</sub> to Formate Using Inexpensive and Easily Prepared transition metal complexes as Catalyst | TNSCST | 07-03-2022 | 5,00,000 |
| 23. | Ms. Edinsha Gladis         | Asst.Prof./Chemistry  | Highly Effective, Low Cost And Sustainable Catalyst For Sea Water Splitting Into Hydrogen As Fuel                               | TNSCST | 07-03-2022 | 5,00,000 |
| 24. | Mr. K. Eqbert              | Asst.Prof./Mech.      | Production and Characterization of Solid Biofuel From Banana And Plant Leaves                                                   | TNSCST | 07-03-2022 | 4,32,000 |
| 25. | Mr. P. Albert              | Asst.Prof./FTSE       | Characterization Of Hybrid Polymeric Composites For Marine Applications                                                         | TNSCST | 09-03-2022 | 4,20,000 |
| 26. | Dr. B. Bavanish            | ASP/FTSE              | Performance Evaluation of Vertical Flow Helical Turbine for Rural Electrification.                                              | TNSCST | 09-03-2022 | 3,00,607 |
| 27. | Dr. A. K. Darwins          | AP/Automobile         | Monitoring System For Battery Powered Electric Vehicles                                                                         | TNSCST | 09-03-2022 | 3,53,000 |
| 28. | Dr. J. Edwin Raja Dhas     | Prof./HOD/ Automobile | An automated online monitoring system for welding                                                                               | TNSCST | 09-03-2022 | 4,20,000 |
| 29. | Dr. B. Stanly Jones Retnam | ASP/Automobile        | Characterization Of Natural Hybrid Composites For Automobile Applications                                                       | TNSCST | 09-03-2022 | 4,49,000 |
| 30. | Dr. M. Edwin Sahayaraj     | ASP/Automobile        | Surface Modification Through Metal Coating On The Polymer Matrix Composites                                                     | TNSCST | 09-03-2022 | 4,00,000 |
| 31. | Dr. R. Binthiya            | AP/Mathematics        | Applications of Spectra of Graphs in Group theory                                                                               | TNSCST | 09-03-2022 | 4,60,000 |

|     |                                          |                |                                                                                                                                                                 |        |            |          |
|-----|------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------|----------|
| 32. | Dr. J. John Arul Singh                   | AP/Mathematics | Directed hypergraph modeled chemical reaction network analysis to track chain chemical reactions which cause side effects in medicine and food intake of humans | TNSCST | 09-03-2022 | 4,50,000 |
| 33. | Dr. D. Sheeba Singh                      | AP/Mathematics | Bayesian Method in Predicting the Tuberculosis Infection in Tamilnadu                                                                                           | TNSCST | 09-03-2022 | 4,50,000 |
| 34. | Dr. D. Sheeba Singh                      | AP/Mathematics | Prediction of Rainfall in Heavy Rainfall Zone of Tamilnadu                                                                                                      | TNSCST | 09-03-2022 | 4,50,000 |
| 35. | Dr. R. S. Ganesh                         | ASP/FTSE       | Development of IoT based Smoke Extractor cum Rescue Assister for Early Fire Accidents in Confined Buildings                                                     | TNSCST | 09-03-2022 | 5,00,000 |
| 36. | Dr. R. Rajesh                            | AP/FTSE        | Automated Fire Suit                                                                                                                                             | TNSCST | 09-03-2022 | 5,00,000 |
| 37. | Dr. R. Ganapathi raman & Dr. K. Muthuvel | ASP/Physics    | Covid-19 Smart Security System                                                                                                                                  | TNSCST | 09-03-2022 | 4,95,000 |

**7. Details of the Projects Sponsored by the Management) 2022-23:**

| Sl. No. | Name of the Incharge | Nature of the Project | Funds Sanctioned | Date of Commissioning | Short Description |
|---------|----------------------|-----------------------|------------------|-----------------------|-------------------|
| NIL     |                      |                       |                  |                       |                   |

**8. Research Papers Publications in the SCOPUS / SCI and UGC approved Journals Data Base in Year 2022-23:**

**(a) SCOPUS:**

| Publication Year | Paper Title                                                                                                                                         | Authors                                                    | Journal Title                               |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------|
| 2022             | Calibration of flush air data sensing systems for a satellite launch vehicle                                                                        | Mehta R.C.                                                 | Advances in Aircraft and Spacecraft Science |
| 2023             | Comparative investigation of RSM and ANN for multi-response modeling and optimization studies of derived chitosan from Archachatina marginata shell | Surendran V.S., Bindhu B., Indulal C.R., Krishnakumar T.S. | Alexandria Engineering Journal              |

| Publication Year | Paper Title                                                                                                                                             | Authors                                                                                                   | Journal Title                               |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------|
| 2022             | Supplier selection in closed loop pharma supply chain: a novel BWMâ€“GAIA framework                                                                     | Khan H.M., Venkadesh P.                                                                                   | Annals of Operations Research               |
| 2022             | Exploring Phytochemicals from Himalayan Medicinal Plants as Novel Therapeutic Agents                                                                    | Haripriya M.P., Venkadesh P.                                                                              | Anti-Cancer Agents in Medicinal Chemistry   |
| 2022             | Synthetic aperture radar image despeckling based on modified convolution neural network                                                                 | Ponraj T.E., Balan R.V.S., Vignesh K.                                                                     | Applied Geomatics                           |
| 2022             | Image Enhancement Using Color Space Components for Effective Tuberculosis Detection                                                                     | Kumar S., Barua M.K.                                                                                      | Arabian Journal for Science and Engineering |
| 2022             | Recast Layer Thickness and Residual Stress Analysis for EDD AA8011/h-BN/B4C Composites Using Cryogenically Treated SiC andÂ CFRPÂ Powder-Added Kerosene | M A., S Kumar S., E Nithila E., M B.                                                                      | Arabian Journal for Science and Engineering |
| 2022             | Highly Stable ZrO <sub>2</sub> /Silicone Oil Nanofluid for Cutting Fluid Applications                                                                   |                                                                                                           | Arabian Journal for Science and Engineering |
| 2022             | Fingerprint Denoising Using Iterative Rule-Based Filter                                                                                                 | Benifa J.V.B., Mini G.V., Krishnan S.                                                                     | Arabian Journal for Science and Engineering |
| 2023             | Homomorphic Naccacheâ€“Stern Tanimoto Key Matching Cryptosystem-Based Authentication for Secure 5G Cellular Networks Communication with IoT             | Aswani K., Menaka D.                                                                                      | Arabian Journal for Science and Engineering |
| 2023             | Analysis and Prediction of Adverse Reaction of Drugs with Machine Learning Models for Tracking the Severity                                             | Kong Y.-L., Anis-Syakira J., Jawahir S., R'ong Tan Y., Rahman N.H.A., Tan E.H.                            | Arabian Journal for Science and Engineering |
| 2022             | Sustainability of operations through disruptive technologies in the petroleum supply chain                                                              | Danemayer J., Boggs D., Ramos V.D., Smith E., Kular A., Bhot W., Ramos-Barajas F., Polack S., Holloway C. | Benchmarking                                |

| Publication Year | Paper Title                                                                                                                                     | Authors                                                                                                      | Journal Title                               |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| 2023             | A novel melanoma detection model: Adapted K-means clustering-based segmentation process                                                         | Ahmadi T., Shabani L., Sabzalian M.R.                                                                        | Bio-Algorithms and Med-Systems              |
| 2023             | Injury classification and level detection of the spinal cord based on the optimized recurrent neural network                                    | Jeejamol D.J., Raj A.M.E., Aultrin K.S.J.                                                                    | Bio-Algorithms and Med-Systems              |
| 2023             | An integrated review on machine learning approaches for heart disease prediction: Direction towards future research gaps                        | Fernandez J., Bindhu B., Prabu M., Sandhya K.Y.                                                              | Bio-Algorithms and Med-Systems              |
| 2023             | Potential eco-friendly Zinc Oxide nanomaterials through Phyco-nanotechnology –A review                                                          | Ravichandran K., Vasanthi D.S., Kavitha P., Shalini R., Suvathi S., Praseetha P.K.                           | Biocatalysis and Agricultural Biotechnology |
| 2023             | Monte Carlo calculated detector-specific correction factors for Elekta radiosurgery cones                                                       | Md Hanafiah R., Zainon N.S., Karim N.H., Abdul Rahman N.S.F., Behforouzi M., Soltani H.R.                    | Biomedical Physics and Engineering Express  |
| 2023             | An efficient classification framework for breast cancer using hyper parameter tuned Random Decision Forest Classifier and Bayesian Optimization | Ravichandran K., Siva Jyothi N., Thirumurugan K., Chidhambaram N., Dineshbabu N., Shalini R., Praseetha P.K. | Biomedical Signal Processing and Control    |
| 2023             | Detection of Fetal Cardiac Anomaly from Composite Abdominal Electrocardiogram                                                                   | Subitha M., Bindhu B.                                                                                        | Biomedical Signal Processing and Control    |
| 2023             | Spinal cord segmentation and injury detection using a Crow Search-Rider optimization algorithm                                                  | Surendran V.S., Bindhu B., Indulal C.R., Krishnakumar T.S.                                                   | Biomedizinische Technik                     |
| 2023             | Blockchain-based health care monitoring for privacy preservation of COVID-19 medical records                                                    | Amjith L.R., Bavanish B.                                                                                     | Blockchain for Smart Cities                 |
| 2023             | A dual autoencoder and singular value decomposition based feature optimization for the segmentation of brain tumor from MRI images              | Prabhu S., Vijayakumar S., Praseetha P.                                                                      | BMC Medical Imaging                         |

| Publication Year | Paper Title                                                                                                                                                                                              | Authors                                                                                                    | Journal Title                    |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------|
| 2023             | Factors associated with informal caregiving and its effects on health, work, and social activities of adult informal caregivers in Malaysia: findings from the National Health and Morbidity Survey 2019 | Ribu D.C., Rajesh R., Thirumalaikumarasamy D., Ramachandran C.S., Saleel C.A., Aabid A., Baig M., Saleh B. | BMC Public Health                |
| 2022             | Estimating need and coverage for five priority assistive products: A systematic review of global population-based research                                                                               | Suresh Babu L., Janarthanan Pillai D.M., Janardhanan D.K.A.                                                | BMJ Global Health                |
| 2023             | LED light sources improved the essential oil components and antioxidant activity of two genotypes of lemon balm ( <i>Melissa officinalis</i> L.)                                                         | Khan M.S., Tafshir N., Alam K.N., Dhruva A.R., Khan M.M., Albraikan A.A., Almalki F.A.                     | Botanical Studies                |
| 2023             | Alteration of CdO Lattice Structure By Cu <sup>2+</sup> Doping for Enhanced Photocatalytic Application                                                                                                   | Vinolin V., Sucharitha M.                                                                                  | Brazilian Journal of Physics     |
| 2022             | Structural and optical analyses of sol-gel synthesized hafnium-doped barium calcium titanate                                                                                                             | Reshma V.K., Vinod Kumar R.S.                                                                              | Bulletin of Materials Science    |
| 2022             | Cost-effective and eco-friendly dye degradation by enzyme-powered ZnO nanomaterial: effect of process temperature                                                                                        | Aliyar Vellameeran F., Brindha T.                                                                          | Bulletin of Materials Science    |
| 2022             | A new evaluation approach to control maritime transportation accidents: A study case at the Straits of Malacca                                                                                           | Jasim M., Brindha T.                                                                                       | Case Studies on Transport Policy |
| 2022             | Synergistic effect of La+Mo addition and optimum pH on the photocatalytic dye decomposition efficiency of spray pyrolyzed ZnO thin films                                                                 | Sunitha T.O., Rajalakshmi R.                                                                               | Ceramics International           |
| 2023             | Effect of surface modification and exfoliation of molybdenum disulfide for application in batteries and supercapacitors                                                                                  | Thangam T., Muthuvel M.K.                                                                                  | Chalcogenide Letters             |

| Publication Year | Paper Title                                                                                                                                 | Authors                                                                                                                                  | Journal Title                                                                          |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 2022             | Surface Modification of Boron Nitride Nanosheets for Effective Heat Transfer Applications                                                   | Daniel N., Anitha A.                                                                                                                     | Chemistry Africa                                                                       |
| 2022             | A review on biomass and wind as renewable energy for sustainable environment                                                                | Jeslin T., Arul Linsely J.                                                                                                               | Chemosphere                                                                            |
| 2022             | Cyanobacterial metabolites as novel drug candidates in corona viral therapies: A review                                                     | Raghavan Nair Lalitha P., Jinny S.V.                                                                                                     | Chronic Diseases and Translational Medicine                                            |
| 2022             | Investigating the Water Jet Erosion Performance of HVOF-Sprayed WC-10Co Coatings on 35CrMo Steel Utilizing Design of Experiments            | Murugan Suganthi S., Ramaswamy Shunmugavel G.                                                                                            | Coatings                                                                               |
| 2023             | Prevalence Of Perceived Stress, Due To COVID-19 Among Faculties Of Government Dental Colleges In Kerala, India                              | George A.S., Nargunam A.S.                                                                                                               | Cogent Psychology                                                                      |
| 2022             | Deep Learning for Ocular Disease Recognition: An Inner-Class Balance                                                                        | Shanid M., Anitha A.                                                                                                                     | Computational Intelligence and Neuroscience                                            |
| 2023             | Hierarchical Categorization and Review of Recent Techniques on Image Forgery Detection                                                      | Irine T.M., Rathika A., Gobalakrishnan S., Isaac R.S.R., Sanjith S., Chidhambaram N.                                                     | Computer Journal                                                                       |
| 2023             | Pixel prediction-based image steganography by support vector neural network                                                                 | Patel M., Patel D., Shah U., Patel A., Solanki N., Patel S., Patel S.-P., Patel B.                                                       | Computer Journal                                                                       |
| 2022             | A new variant of deep belief network assisted with optimal feature selection for heart disease diagnosis using IoT wearable medical devices | Sethuraman V., Janakiraman K., Krishnaswami V., Kandasamy R.                                                                             | Computer Methods in Biomechanics and Biomedical Engineering                            |
| 2022             | TaylorCSROA-based Deep Residual Network: An Optimization driven Deep Network for the multilevel spinal cord disease classification          | Sajin J.B., Christu Paul R., Binoj J.S., Brailson Mansingh B., Gerald Arul Selvan M., Goh K.L., Rimal Isaac R.S., Senthil Saravanan M.S. | Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization |

| Publication Year | Paper Title                                                                                                                                         | Authors                                                                      | Journal Title                                                                          |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 2023             | Multi-modal image fusion technique for enhancing image quality with multi-scale decomposition algorithm                                             | Gam S., Deka D., Das B., Sarma D., Kumar S., Kushari S., Saikia A., Sarma H. | Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization |
| 2022             | Passive Fractional-order Proportional-Integral-Derivative control design of a Grid-connected Photovoltaic inverter for Maximum Power Point Tracking | Al-Dabbas M., Alahmer A., Mamkagh A., Gomaa M.R.                             | Computers and Electrical Engineering                                                   |
| 2023             | Texture and quality analysis for face spoofing detection                                                                                            | Maria Regila Baby J., Uma Samundesvari K.                                    | Computers and Electrical Engineering                                                   |
| 2022             | Agwo-cnn classification for computer-assisted diagnosis of brain tumors                                                                             | Anusha P., Balan R.V.S.                                                      | Computers, Materials and Continua                                                      |
| 2022             | Internet of medical things-based multitiered and hybrid architectural framework for effective heart disease prediction model                        | Pradeep A., Joseph X.F., Sreeja K.A.                                         | Concurrency and Computation: Practice and Experience                                   |
| 2022             | Improved hard fusion methods for enhancing detection and energy efficiency in cognitive radio networks                                              | Ashika S.A., Balamurugan S., Fathima T.K.S., Shri K.M., Palanisami N.        | Concurrency and Computation: Practice and Experience                                   |
| 2023             | Improved multi-party verification protocol with reduced computational overhead in cloud storage system                                              | Kiruba D.G., Benita J.                                                       | Concurrency and Computation: Practice and Experience                                   |
| 2023             | EHMO-Based Deep ResNet for Survival Timeline Prediction of Adenocarcinoma Cancer                                                                    | Gladis E.H.E., Nagashri K., Joseph J.                                        | Critical Reviews in Biomedical Engineering                                             |
| 2022             | Leveraging the Photocatalytic Degradation Efficiency of Solution Combustion Derived ZnO Photocatalyst through Palladium Doping                      | Ashika S.A., Balamurugan S., Fathima T.K.S.                                  | Crystal Research and Technology                                                        |

| Publication Year | Paper Title                                                                                                                                             | Authors                                                                                              | Journal Title                                           |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| 2022             | Piperine: Medicinal, Analytical and Therapeutics Perspective                                                                                            | Baby O.M., Balamurugan S., Ashika S.A., Fathima T.K.S.                                               | Current Bioactive Compounds                             |
| 2023             | Recent progress in stimuli-responsive intelligent nano scale drug delivery systems: A special focus towards PH-sensitive systems                        | Selvamani S., Balamurugan S., Ashika S.A., Fathima T.K.S.                                            | Current Drug Targets                                    |
| 2022             | Impact of fiber length on mechanical, morphological and thermal analysis of chemical treated jute fiber polymer composites for sustainable applications | Shri K.M., Balamurugan S., Ashika S.A., Sana Fathima T.K., Palanisami N.                             | Current Research in Green and Sustainable Chemistry     |
| 2023             | Ethnobotanical Review of Medicinal Plants Used Against Diarrhea and Dysentery in Northeast India (Assam)                                                | Ashika S.A., Balamurugan S., Palanisami N.                                                           | Current Traditional Medicine                            |
| 2023             | Productivity enhancement of the solar still by using water cooled finned condensing pipe                                                                | Sumesh J.M.J., Chella Perumal M.                                                                     | Desalination and Water Treatment                        |
| 2022             | Bounds for complete cototal domination number of Cartesian product graphs and complement graphs                                                         | Giji Kiruba, Benita                                                                                  | Discrete Mathematics, Algorithms and Applications       |
| 2022             | Efficient Power Management in Mobile Computing with Edge Server Offloading Using Multi-Objective Optimization                                           | Lal S R S., Herbert G M J., Arjunan P., Suryan A.                                                    | EAI Endorsed Transactions on Energy Web                 |
| 2023             | Retinal Image Enhancement by Intensity Index Based Histogram Equalization for Diabetic Retinopathy Screening                                            | Ahmad M., Al-Dala'ien R.N.S., Beddu S., Itam Z.B.                                                    | EAI/Springer Innovations in Communication and Computing |
| 2023             | Combustion synthesis of cuo nanomaterials: Effect of different fuels on the structural, thermal, and optical properties                                 | Munoz-Torres M.J., Fernandez-Izquierdo M.A., Rivera-Lirio J.M., Ferrero-Ferrero I., Escrig-Olmedo E. | ECS Journal of Solid State Science and Technology       |
| 2022             | A Survey of Secured Cluster Head: SCH based Routing Scheme for IOT based Mobile Wireless Sensor Network                                                 | Khaled J.M., Alyahya S.A., Govindan R., Chelliah C.K., Maruthupandy M.,                              | ECS Transactions                                        |

| Publication Year | Paper Title                                                                                                                                                   | Authors                                                                                                                                      | Journal Title                 |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
|                  |                                                                                                                                                               | Alharbi N.S., Kadaikunnan S., Issac R., Murugan S., Li W.-J.                                                                                 |                               |
| 2022             | Synthesis, Structural Elucidation, DNA Binding, Cleavage, AChE and BuChE Cholinesterase Efficiencies of Metal Complexes with 1,10- Phenanthroline Scaffold    | Rajivgandhi G., Gnanamangai B.M., Ramachandran G., Chackaravarthy G., Chelliah C.K., Maruthupandy M., Alharbi N.S., Kadaikunnan S., Li W.-J. | ECS Transactions              |
| 2022             | Room temperature single-step synthesis of cubic Sb <sub>2</sub> O <sub>3</sub> phase and its characterization studies                                         | Thankachy G.D.K.N.S., Raj S.T.P.                                                                                                             | Emergent Materials            |
| 2022             | Synthesis and characterization of high NIR reflecting eco-friendly BaMoO <sub>4</sub> pigments in scheelite family                                            | Ghonam H.E.-B., Abu Yousef M.A., Gohar Y.M., Almeer R., Barakat K.M.                                                                         | Emergent Materials            |
| 2023             | The remarkable enhancement in the solubility of Bi in the ZnO phase, Zn <sub>1-x</sub> Bi <sub>x</sub> O (0 ≤ x ≤ 0.1), by high energy ball milling technique | Rajivgandhi G., Ramachandran G., Chelliah C.K., Maruthupandy M., Quero F., S V., AL-Mekhlafi F.A., Wadaan M.A., Ranjitha J., Li W.-J.        | Emergent Materials            |
| 2023             | Oxalic acid-derived combustion synthesis of multifunctional nanostructured copper oxide materials                                                             | Deepak V.K., Sarath R.                                                                                                                       | Emergent Materials            |
| 2023             | Investigation on multifunctional binary oxides for near-infrared (NIR) reflective pigment applications                                                        | Sathyaraj S., Dhas J.E.R., Balakrishnan H.K.                                                                                                 | Emergent Materials            |
| 2022             | Multi-level energy efficient cooperative scheme for ring based clustering in wireless sensor network                                                          | Praseetha P.K., Chandran P., Devi V.A., Alexander P., Vijayakumar S.                                                                         | Energy Harvesting and Systems |
| 2023             | Energy capable clustering method for extend the duration of IoT based mobile wireless sensor network with remote nodes                                        | Vanitha V., Vijayakumar S., Prabhu S., Nilavukkarasi M., Punitha V.N., Vidhya E., Praseetha P.K.                                             | Energy Harvesting and Systems |

| Publication Year | Paper Title                                                                                                                                                                                                          | Authors                                                         | Journal Title                                                           |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------|
| 2022             | Advancements in renewable energy transition in India: A review                                                                                                                                                       | L P.R., Jinny S.V., Mate Y.V.                                   | Energy Sources, Part A: Recovery, Utilization and Environmental Effects |
| 2022             | Thermo-physical Properties of Graphite Powder and Polyethylene Modified Asphalt Concrete                                                                                                                             | George A.S., Nargunam A.S.                                      | Engineered Science                                                      |
| 2023             | Sustainable supply chain management in a global context: a consistency analysis in the textile industry between environmental management practices at company level and sectoral and global environmental challenges | Raji N.R., Siva Balan R.V., Biji C.L.                           | Environment, Development and Sustainability                             |
| 2022             | Laccase producing bacteria influenced the high decolorization of textile azo dyes with advanced study                                                                                                                | Kumaresan S., Aultrin K.S.J., Kumar S.S., Anand M.D.            | Environmental Research                                                  |
| 2022             | Effective removal of heavy metals in industrial wastewater with novel bioactive catalyst enabling hybrid approach                                                                                                    | Albert Jerome S., Vijila Rani K., Mithra K.S., Eugene Prince M. | Environmental Research                                                  |
| 2022             | Design of optimized PI controller for 7-level inverter: a new control strategy                                                                                                                                       | Sundaresan V., Amala Shanthi S.                                 | Environmental Science and Pollution Research                            |
| 2023             | A new antidiabetic foot bacteria formula from marine chitosan nanosilver-metal complex                                                                                                                               | Guru Prasad L., Ganapathi Raman R.                              | Environmental Science and Pollution Research                            |
| 2022             | Green microalgal strain Chlorella vulgaris isolated from industrial wastewater with remediation capacity                                                                                                             | Meena Z.N.                                                      | Environmental Technology and Innovation                                 |
| 2022             | Classification of brain tumours in MRI images using convolutional neural network through Cat Swarm Optimization                                                                                                      | Kusumorini N., Nugroho A.K., Pramono S., Martien R.             | Expert Systems                                                          |
| 2023             | Recent developments of fiber-reinforced polymer composites in automotive                                                                                                                                             | P.K P., A N.M., B.V V., K S., S V.                              | Fiber-Reinforced Polymer: Processes and Applications                    |

| <b>Publication Year</b> | <b>Paper Title</b>                                                                                                                         | <b>Authors</b>                                                           | <b>Journal Title</b>                                         |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------|
| 2022                    | Biocompatible and nuclear penetrating carbon quantum dots for photoresistive bioimaging applications in animal cell lines                  | Keerthana P., Vijayakumar S., Vidhya E., V.N P., Nilavukkarasi M., PK P. | Gene Reports                                                 |
| 2023                    | In vitro and in silico protocols for the assessment of microbicidal compounds from <i>Plumbago zeylanica</i> L                             | Fahad M., B B.                                                           | Gene Reports                                                 |
| 2023                    | Early prediction model for coronary heart disease using genetic algorithms, hyper-parameter optimization and machine learning techniques   | Fahad M., B B.                                                           | Health and Technology                                        |
| 2023                    | Transfer Learning with CNN for Classification of Weld Defect                                                                               | Haripriya M.P., Venkadesh P.                                             | IEEE Access                                                  |
| 2023                    | Watershed Segmentation with CAFIS and RCNN Classification for Pulmonary Nodule Detection                                                   | Ahila Jeyanthi D., Selvarajan T.M.                                       | IETE Journal of Research                                     |
| 2023                    | Monozygotic twin face recognition: An in-depth analysis and plausible improvements                                                         | Dickson J., Lincely A., Nineta A.                                        | Image and Vision Computing                                   |
| 2023                    | Physicochemical properties of p-hydroazobenzene: A nonlinear optical crystal                                                               | Sathiyadhas S.S., Soosai Antony M.C.V.                                   | Indian Journal of Pure and Applied Physics                   |
| 2022                    | A Novel Framework to Investigate the Impact of Social Media Advertising Features on Customer Purchase Intention Using Bwo-Dann             | Vishnu S., Satheesh M., Dhas E.R., Ramanan G.                            | Indonesian Journal of Electrical Engineering and Informatics |
| 2023                    | Development of new isolation and quantification method of piperine from white pepper seeds ( <i>Piper Nigrum</i> L) using a validated HPLC | Arun M.P., Satheesh M., Dhas J.E.R.                                      | Indonesian Journal of Pharmacy                               |
| 2023                    | Aloe-vera conjugated natural Carbon Quantum dots as Bio-enhancers to accelerate the repair of chronic wounds                               | Jebasingh V.K., Divya Johns J., Arunkumar T.                             | Industrial Crops and Products                                |

| Publication Year | Paper Title                                                                                                                                                             | Authors                                                                 | Journal Title                                                                                               |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 2023             | Biogenesis of ZnO nanoparticles for revolutionizing agriculture: A step towards anti -infection and growth promotion in plants                                          | Jebasingh V.K., Divya Johns J., Arunkumar T.                            | Industrial Crops and Products                                                                               |
| 2023             | Tribological behavior of AZ91D magnesium alloy composite: effect of hybrid WC & SiO <sub>2</sub> nanoparticles                                                          | Neela Rajan R.R., Ramanan G., Rajesh R.                                 | Industrial Lubrication and Tribology                                                                        |
| 2023             | Tribological and ageing behavior of Az91D magnesium alloy fortified with nano lanthanum and nanoceria by stir casting for aviation application                          | Mahesh A., Rajesh S.                                                    | Industrial Lubrication and Tribology                                                                        |
| 2022             | A Dual Channel Multiscale Convolution U-Net Method for Liver Tumor Segmentation from Abdomen CT Images                                                                  | Shanila N., Vinod Kumar R.S., Ramya Ravi R.                             | International Conference on Sustainable Computing and Data Communication Systems, ICSCDS 2022 - Proceedings |
| 2022             | A network intrusion detection system in cloud computing environment using dragonfly improved invasive weed optimization integrated Shepard convolutional neural network | Jeba Shiney O., Amar Pratap Singh J., Priestly Shan B.                  | International Journal of Adaptive Control and Signal Processing                                             |
| 2023             | Optimization of responses in electron beam welding of inconel-718 alloy using genetic algorithm approach                                                                | Jamwal A., Towhidul Islam Nayim S.M., Shukla R.K., Agrawal R., Gupta S. | International Journal of Advanced Technology and Engineering Exploration                                    |
| 2023             | Designing and modelling of delta wing genetic-based prediction model                                                                                                    | Raj S.S., Pradeep P., Dhas J.E.R.                                       | International Journal of Ambient Computing and Intelligence                                                 |
| 2022             | Performance study on eutectic molten salt as a high temperature working fluid in the parabolic trough collector                                                         | Hamza F., Vigila S.M.C.                                                 | International Journal of Ambient Energy                                                                     |

| <b>Publication Year</b> | <b>Paper Title</b>                                                                                                                                                                                          | <b>Authors</b>                                                 | <b>Journal Title</b>                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| 2022                    | Assessment of circular and elliptical absorber tube in solar parabolic trough collector                                                                                                                     | Nandan N.V.D., Sulaipher M.                                    | International Journal of Ambient Energy                        |
| 2023                    | Multi-objective optimisation of transesterified Jatropha curcas oil using response surface methodology and grey relational analysis                                                                         | Abdulla S.M., Jayakumari J.                                    | International Journal of Ambient Energy                        |
| 2023                    | A study of greater palatine foramen and its importance in the application of maxillary nerve block in south indian population                                                                               | Jose M.R., Singh J.A.P.                                        | International Journal of Anatomy and Research                  |
| 2023                    | Low power pulsed flip-flop with clock gating and conditional pulse enhancement                                                                                                                              | RajeshKumar G., Therese P.S.                                   | International Journal of Automation and Control                |
| 2023                    | Adaptive optimisation driven deep belief networks for lung cancer detection and severity level classification                                                                                               | Arjunan P., Gnana Muthu J.H., Somanasari Radha S.L., Suryan A. | International Journal of Bio-Inspired Computation              |
| 2023                    | Ensemble learning-based classification on local patches from magnetic resonance images to detect iron depositions in the brain                                                                              | Ajai A.K., Anitha A.                                           | International Journal of Bio-Inspired Computation              |
| 2023                    | An artificial intelligence approach based on hybrid CNN-XGB model to achieve high prediction accuracy through feature extraction, classification and regression for enhancing drug discovery in biomedicine | Hamza F., Celestin Vigila S.M.                                 | International Journal of Biology and Biomedical Engineering    |
| 2023                    | Performance analysis of pre-processing filters using computed tomography images for liver lesion diagnosis                                                                                                  | Hari Narayanan A.G., Singh J.A.P.                              | International Journal of Biomedical Engineering and Technology |
| 2023                    | An improved speckle noise reduction scheme using switching and flagging of noisy data for pre-processing of ultrasonograms in detection of down syndrome during first and second trimesters                 | Selvalakshmi M., Jeyakumar M.K.                                | International Journal of Biomedical Engineering and Technology |

| <b>Publication Year</b> | <b>Paper Title</b>                                                                                                                       | <b>Authors</b>                                               | <b>Journal Title</b>                                                    |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------------------|
| 2023                    | Assessment of barriers in lead time improvement: An exploratory study of electronics manufacturing companies in Himachal Pradesh (India) | Ajai A.K., Anitha A.                                         | International Journal of Business and Systems Research                  |
| 2023                    | Parameter optimisation of a fibre reinforced polymer composite by rsm design matrix                                                      | Sanders R., Gascoyne B., Appleby P., Rashida S.A., Jolley E. | International Journal of Computer Aided Engineering and Technology      |
| 2023                    | Cluster head selection algorithm for manets using hybrid particle swarm optimization-genetic algorithm                                   | Gladis E.H.E., Nagashri K., Anisha M., Joseph J.             | International Journal of Computer Networks and Applications             |
| 2023                    | An Empirical Study on Motivation to School Teachers in the Maldives during the COVID 19 Pandemic                                         | Gladis E.H.E., Nagashri K., Joseph J.                        | International Journal of Early Childhood Special Education              |
| 2023                    | High clarity speech separation using synchroextracting transform                                                                         | Varghese P., Saroja G.A.S.                                   | International Journal of Electrical and Computer Engineering            |
| 2023                    | Security challenges for routing protocols in mobile ad hoc network: A systematic review and open research issues                         | Devi B., Preetha M.M.S.J.                                    | International Journal of Electronic Security and Digital Forensics      |
| 2022                    | Hybrid optimization approach for optimal switching loss reduction in three-phase VSI                                                     | Salim S., Sarath R.                                          | International Journal of Electronics                                    |
| 2022                    | Selection of working fluids for solar organic Rankine cycle—A review                                                                     | Rani K.V., Dayana C.T., Therese P.S., Prince M.E.            | International Journal of Energy Research                                |
| 2022                    | A comprehensive survey on charge scheduling of electric vehicles in smart grids in the 2010s                                             | Haripriya M.P., Venkadesh P.                                 | International Journal of Modeling, Simulation, and Scientific Computing |
| 2022                    | Optimal prediction of user mobility based on spatio-Temporal matching                                                                    | Unnikrishnan M.A., Edwin Raja Dhas J.                        | International Journal of Modeling, Simulation, and Scientific Computing |

| <b>Publication Year</b> | <b>Paper Title</b>                                                                                                                            | <b>Authors</b>                                                                | <b>Journal Title</b>                                                    |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| 2022                    | Survey on the investigation of forensic crime scene evidence                                                                                  | Unnikrishnan M.A., Edwin Raja Dhas J.                                         | International Journal of Modeling, Simulation, and Scientific Computing |
| 2023                    | Feedback deer hunting optimization algorithm for intrusion detection in cloud based deep residual network                                     | Deepak V.K., Sarath R.                                                        | International Journal of Modeling, Simulation, and Scientific Computing |
| 2023                    | Optimization algorithms and intelligent techniques on electrical discharge machining process                                                  | Shyn C.S., Rajesh R., Dev Anand M.                                            | International Journal of Modeling, Simulation, and Scientific Computing |
| 2023                    | Deterministic functions for measuring human protein structural variations with merit based ensemble learning scheme for native classification | Gladis E.H.E., Nagashri K., Anisha M., Joseph J.                              | International Journal of Systems Assurance Engineering and Management   |
| 2023                    | Trust aware IoT enhanced B-tree node authentication for secured 5G wireless communication                                                     | Sakthivel A., Thangagiri B., Raman N., Joseph J., Guda R., Kasula M., Mitu L. | International Journal of Ultra Wideband Communications and Systems      |
| 2023                    | Multi response optimization of process parameters using taguchi based grey relational method in fsw of az91b magnesium alloy                  | Gayathri Devi K.S., Sujatha Therese P.                                        | International Journal of Vehicle Structures and Systems                 |
| 2023                    | Microstructural, thermal and corrosion characterization of friction stir welded magnesium alloys                                              | Rakesh S., Grace K.S.V.                                                       | International Journal of Vehicle Structures and Systems                 |
| 2023                    | Automated Early Detection of Astrocytomas Tumor Based on Optimized Adaptive Cluster with Super Pixel Model                                    | MahmoumGonbadi A., Genovese A., Sgalambro A.                                  | International Journal on Artificial Intelligence Tools                  |
| 2023                    | Elderly healthcare system for chronic ailments using machine learning techniques - A review                                                   | Balamurugan S., Ragasree R., Brightlin B.C., Raja T.S.G.                      | Iraqi Journal of Science                                                |

| Publication Year | Paper Title                                                                                                                                                        | Authors                                                                                                                                              | Journal Title                                  |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| 2023             | Closed-loop supply chain design for the transition towards a circular economy: A systematic literature review of methods, applications and current gaps            | Govindan R., Chackaravarthi G., Ramachandran G., Chelliah C.K., Muthuchamy M., Quero F., Mothana R.A., Noman O.M., Siddiqui N.A., Li W.-J.           | Journal of Cleaner Production                  |
| 2023             | A fuzzy multi-objective optimization model for a sustainable reverse logistics network design of municipal waste-collecting considering the reduction of emissions | Zhao H., Maruthupandy M., Al-mekhlafi F.A., Chackaravarthi G., Ramachandran G., Chelliah C.K.                                                        | Journal of Cleaner Production                  |
| 2022             | Magnetic Properties of Mechano-Thermally Processed Nanocrystalline MgFe <sub>2</sub> O <sub>4</sub> Spinel Materials                                               | Kalaiarasi J., Balakrishnan D., Al-Keridis L.A., Al-mekhlafi F.A., Farrag M.A., Kanisha C.C., Murugan M., Pragathiswaran C.                          | Journal of Cluster Science                     |
| 2023             | Application of optimization methods in the closed-loop supply chain: a literature review                                                                           | Nadar Rajivgandhi G., Chackaravarthi G., Ramachandran G., Kanisha Chelliah C., Maruthupandy M., Alharbi M.S., Alharbi N.S., Khaled J.M., Li W.-J.    | Journal of Combinatorial Optimization          |
| 2022             | Improving time-frequency sparsity for enhanced audio source separation in degenerate unmixing estimation technique algorithm                                       | Murugan M., Rani K.R.B., Wins J.A., Ramachandran G., Guo F., Mothana R.A., Noman O.M., Nasr F.A., Siddiqui M.Z.                                      | Journal of Control and Decision                |
| 2022             | Pearson Autocovariance Distinct Patterns and Attention-Based Deep Learning for Wind Power Prediction                                                               | Almaary K.S., Alharbi N.S., Kadaikunnan S., Khaled J.M., Rajivgandhi G., Ramachandran G., Chenthis Kanisha C., Murugan M., Alanzi K.F., Manoharan N. | Journal of Electrical and Computer Engineering |

| Publication Year | Paper Title                                                                                                                                                   | Authors                                                                                                                                                       | Journal Title                                                  |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| 2023             | Fabrication of Cost-Effective Nebulizer Sprayed In <sub>2</sub> S <sub>3</sub> Thin Films for Photodetector Applications                                      | Almanaa T.N., Alharbi N.S., Ramachandran G., Kanisha Chelliah C., Rajivgandhi G., Manoharan N., Kadaikunnan S., Khaled J.M., Alanzi K.F.                      | Journal of Electronic Materials                                |
| 2022             | Ordeal mechanisms, information, and the cost-effectiveness of strategies to provide subsidized eyeglasses                                                     | Ma D., Kanisha Chelliah C., Alharbi N.S., Kadaikunna S., Khaled J.M., Alanzi K.F., Manoharan N., Rajivgandhi G.                                               | Journal of Health Economics                                    |
| 2023             | Isolation and molecular identification of extended spectrum beta-lactamase producing bacteria from urinary tract infection                                    | Ribu D.C., Rajesh R., Thirumalaikumarasamy D., Kaladgi A.R., Saleel C.A., Nisar K.S., Shaik S., Afzal A.                                                      | Journal of Infection and Public Health                         |
| 2023             | Piperacillin/tazobactam and cefotaxime decrease the effect of beta lactamase production in multi-drug resistant K. pneumoniae                                 | Raj I.L.P., Valanarasu S., Asuntha A., Rimal Isaac R.S., Shkir M., Algarni H., AlFaify S.                                                                     | Journal of Infection and Public Health                         |
| 2023             | Enhanced anti-biofilm activity of facile synthesized silver oxide nanoparticles against K. pneumoniae                                                         | Vinoth S., Arulanantham A.M.S., Saravanakumar S., Rimal Isaac R.S., Soundaram N., Chidhambaram N., Alagarasan D., Varadharajaperumal S., Shkir M., AlFaify S. | Journal of Inorganic and Organometallic Polymers and Materials |
| 2022             | Experimental investigation of erosion corrosion performance and slurry erosion mechanism of HVOF sprayed WC-10Co coatings using design of experiment approach | Soumya S., Gaffoor M., Samuel A., Gopakumar R., Girish C., Sajeena N.                                                                                         | Journal of Materials Research and Technology                   |

| Publication Year | Paper Title                                                                                                                                               | Authors                                                                       | Journal Title                                          |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------|
| 2022             | Development of a highly sensitive UV sensor using Al, Ga, and In-doped NiO thin films via nebulizer spray pyrolysis method for photodetector applications | Balakrishnan R., Jeri S., Rekha V., Singh G., Deepak P., Nair A.              | Journal of Materials Science: Materials in Electronics |
| 2023             | Enriched optoelectronic properties of cobalt-doped ZnO thin films for photodetector applications                                                          | Gopakumar R., Mahesh J., Alexander B., Arya K., John S., Kumbla S.            | Journal of Materials Science: Materials in Electronics |
| 2023             | Growth and characterization of organic material 3,4-dimethoxybenzaldehyde-2,4-dinitroaniline single crystal                                               | Hariprasad R., Anoop V., Raj P., Obulareddy V., Kunjumon R., Sadula K.        | Journal of Materials Science: Materials in Electronics |
| 2023             | TAYLOR-MONARCH BUTTERFLY OPTIMIZATION-BASED SUPPORT VECTOR MACHINE for ACUTE LYMPHOBLASTIC LEUKEMIA CLASSIFICATION with BLOOD SMEAR MICROSCOPIC IMAGES    | Thomas A., Nair B., Oommen S., Syamkumar V., Raman R.                         | Journal of Mechanics in Medicine and Biology           |
| 2023             | AUTOMATED SCREENING of DIABETIC RETINOPATHY with OPTIMIZED DEEP CONVOLUTIONAL NEURAL NETWORK: ENHANCED MOTH FLAME MODEL                                   | Athira S., Vallabhan C., Sivarajan S., Dithi C., Swathy Anand P., Chandran T. | Journal of Mechanics in Medicine and Biology           |
| 2023             | An analysis of barriers affecting implementation of sustainable supply chain management in electronics industry: a Grey-DEMATEL approach                  | Chandran A., Gaffoor F., Gopakumar R., Girish S., Soumya S., Nair M.          | Journal of Modelling in Management                     |
| 2023             | The cardiac methylome: A hidden layer of RNA modifications to regulate gene expression                                                                    | Aravind A., Nair S., Aparna T., Thomas A., Oommen S., Vijayan A.              | Journal of Molecular and Cellular Cardiology           |
| 2023             | Nanomedicinary evaluation of calotropis procera mediated silver nanoparticle on skin cancer cell line for microbes-front line analysis                    | Syamkumar V., Thomas A., Oommen S., Aswin S., Swathy Anand P., Mathew V.      | Journal of Molecular Structure                         |

| Publication Year | Paper Title                                                                                                                                                                      | Authors                                                                                                 | Journal Title                              |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------------------------------|
| 2023             | Superb catalytic activity of as-green synthesized copper ferrite's thermal decomposition of ammonium perchlorate                                                                 | Subhanandh B.V.,<br>Abilash N.,<br>Raveendran P.S.                                                      | Journal of Molecular Structure             |
| 2023             | Synthesis, structural elucidation, pharmacological and molecular docking studies of terpolymer transition metal complexes                                                        | Majumder D.,<br>Mohan Kumar S.,<br>Ashoka D.V., Shajin Naragunam A.                                     | Journal of Molecular Structure             |
| 2023             | Comprehensive Characterization of Industrially Discarded Cymbopogon Flexuosus Stem Fiber Reinforced Unsaturated Polyester Composites: Effect of Fiber Length and Weight Fraction | Mohan Kumar S.,<br>Majumder D., Shajin Naragunam A.,<br>Ashoka D.V.                                     | Journal of Natural Fibers                  |
| 2023             | Investigation on the physicochemical properties and antibacterial activity of pure and Zn doped CuO nanoparticles                                                                | Nair A.T., Muthuvel D.K., Haritha K.S.                                                                  | Journal of Ovonic Research                 |
| 2023             | Assessment of growth factors with three different platelet preparations, namely platelet-rich fibrin, platelet-rich plasma, and lyophilized platelet: An in vitro study          | Prakashraj R.,<br>Vijayakumar S.,<br>Punitha V.N.,<br>Vidhya E.,<br>Nilavukkarasi M.,<br>Praseetha P.K. | Journal of Pharmacy and Bioallied Sciences |
| 2023             | Comparative evaluation of antibacterial property of bioactive glass alone and its combination with chlorhexidine against Enterococcus faecalis-An in vitro study                 | Raj S.S.R., Dhas J.E.R., Jesuthanam C.P.                                                                | Journal of Pharmacy and Bioallied Sciences |
| 2023             | Evaluation of the effect of different types of fluoride on tensile properties and surface roughness of different titanium-based archwires: An in vivo study                      | Anu Kuttan A.,<br>Rajesh R., Dev Anand M.                                                               | Journal of Pharmacy and Bioallied Sciences |
| 2023             | Acceptance of COVID-19 vaccine among dental professionals: A cross-sectional study among practitioners, residents, and students                                                  | Anton Savio Lewise K., J E.R.D.,<br>Pandiyarajan R.                                                     | Journal of Pharmacy and Bioallied Sciences |

| Publication Year | Paper Title                                                                                                                                                                                                                                    | Authors                                         | Journal Title                              |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------|
| 2023             | Evaluation of crack propagation after root canal preparation with continuous and reciprocating files and final finishing with XP Endo Finisher - An in vitro study                                                                             | Zahariah J., Pon Symon V.A.T.                   | Journal of Pharmacy and Bioallied Sciences |
| 2023             | Comparative evaluation of genotoxicity in tobacco users versus nontobacco users                                                                                                                                                                | Chandran S., Rajesh R., Anand M.D.              | Journal of Pharmacy and Bioallied Sciences |
| 2023             | Association of dental neglect scale and severity of dental caries among nursing students: A cross-sectional study                                                                                                                              | Mehta R.C.                                      | Journal of Pharmacy and Bioallied Sciences |
| 2023             | Comparison of the efficacy of K-File, canal brush technique, and sonic irrigation technique in the retrievability of calcium hydroxide and metapex intracanal medicaments from root canals: An in vitro cone-beam computed tomography analysis | Fernandez J., Bindhu B., Prabu M., Sandhya K.Y. | Journal of Pharmacy and Bioallied Sciences |
| 2023             | Attention to COVID-19 pandemic among dental experts of Kerala State, India: A knowledge, attitude, and practice study                                                                                                                          | Flindon W.G., Divya S.V.                        | Journal of Pharmacy and Bioallied Sciences |
| 2023             | Relationship between body mass index and dental caries in 13-15-year-old school children of government and private schools in Bengaluru City                                                                                                   | Jency W.G., Judith J.E.                         | Journal of Pharmacy and Bioallied Sciences |
| 2023             | Investigation of emission and performance analysis of honne oil in VCR diesel engine                                                                                                                                                           | Moizuddin M.D., Jose M.V.                       | Journal of Physics: Conference Series      |
| 2023             | Edge Computer-Enabled Internet of Vehicle Applications with Secure Computing and Load Balancing                                                                                                                                                | Abirami A., Palanikumar S.                      | Journal of Physics: Conference Series      |
| 2023             | A Symmetrically Diminished Interconnected Database Segmentation Framework Using Data Mining                                                                                                                                                    | Pratheep Kumar P., Mary Amala Bai V., Nair G.G. | Journal of Physics: Conference Series      |

| Publication Year | Paper Title                                                                                                                                   | Authors                                                    | Journal Title                                                                                               |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 2023             | Blood vessel segmentation for diabetic retinopathy                                                                                            | Jayalakshmi S.L., Jothilakshmi S.L., Ranjith V.G., Jain S. | Journal of Physics: Conference Series                                                                       |
| 2023             | Fabricated TiO <sub>2</sub> Nanofertilizers for Foliar Assimilation to Enhance Yield and Disease Resistance in Capsicum annuum L              | Bindu M.V., Joseline Herbert G.M.                          | Journal of Plant Growth Regulation                                                                          |
| 2023             | Challenges on machining characteristics of natural fiber-reinforced composites – A review                                                     | Sreekanth S., Felix Joseph X.                              | Journal of Reinforced Plastics and Composites                                                               |
| 2023             | Abrasive water jet machining techniques and parameters: a state of the art, open issue challenges and research directions                     | Chandran S., Rajesh R., Dev Anand M.                       | Journal of the Brazilian Society of Mechanical Sciences and Engineering                                     |
| 2022             | Microstructure and mechanical properties of friction stir spot welded dissimilar aluminum alloys                                              | Varghese P., Saroja G.A.S.                                 | Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A |
| 2022             | Harmonic Mitigation in Grid-Connected Distributed Energy Systems using PI and Fuzzy Logic Controller                                          | Varghese P., Arockia Selva Saroja G.                       | Journal of The Institution of Engineers (India): Series B                                                   |
| 2023             | Investigation on Post-Weld Heat Treated Titanium-Aluminum Dissimilar Laser Welded Joint                                                       | Roy V.I., Janardhanan K.A.                                 | Journal of The Institution of Engineers (India): Series C                                                   |
| 2023             | Numerical Simulation of Shock Wave Turbulent Boundary Layer Interaction over Flat Plate at Mach 6                                             | Sarath D., Sucharitha M.                                   | Journal of The Institution of Engineers (India): Series C                                                   |
| 2022             | Effects of hafnium on the structural, optical and ferroelectric properties of sol-gel synthesized barium titanate ceramics                    | Nair A.T., Muthuvel K., Haritha K.S.                       | Journal of the Korean Ceramic Society                                                                       |
| 2023             | IOT based Ruzicka index two-step authenticative Matyas-Meyer message digest for secured cloud data storage with industrial internet of things | Sobin Soniya S., Maria Celestin Vigila S.                  | Journal of Theoretical and Applied Information Technology                                                   |

| Publication Year | Paper Title                                                                                                                                                  | Authors                                                                                                                             | Journal Title                                                         |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| 2023             | A czekanowski's quantitative indexed fuzzy brown boost data clustering for wind power prediction in smart grid                                               | George J., Jeyakumar M.K.                                                                                                           | Journal of Theoretical and Applied Information Technology             |
| 2022             | A bio-inspired hybrid deep learning model for network intrusion detection                                                                                    | Careena P., Mary Synthuja Jain Preetha M., Arun P.                                                                                  | Knowledge-Based Systems                                               |
| 2023             | Professional development of teachers through reflective practice and curriculum transaction                                                                  | Mary Jasmin N., Anil Reddy Y., Anu Kuttan A., Nikhil A., Venkata Suresh J., Sampath Reddy S., Subbiah R.                            | Linguistica Antverpiensia, New Series – Themes in Translation Studies |
| 2022             | [STABILITY STUDIES OF COHESIVE SOIL WITH NANO MAGNESIUM AND ZINC OXIDE, Å TUDIJ STABILNOSTI KOHEZIVNE ZEMLJINE Z DODATKOM NANO-MAGNEZJA IN CINKOVEGA OKSIDA] | Ramanan G., Dhas J.E.R., Rajan R.R.N., Lewis K.A.S., Vishnu S.                                                                      | Materiali in Tehnologije                                              |
| 2022             | [ADSORPTION OF LEAD FROM CONTAMINATED WATER USING BIOSORBENT, UPORABA BIOABSORBENTA ZA ABSORPCIJO SVINCA IZ ONEÄŒISÄŒENE VODE]                               | Haribalaji V., Boopathi S., Asif M.M., Jeyakumar M., Subbiah R., Lewis K.A.S.                                                       | Materiali in Tehnologije                                              |
| 2023             | Nanocarrier-mediated topical insulin delivery for wound healing                                                                                              | Jasmin N.M., Lewis K.A.S., Raguraman D., Murugan M., Aditya S.S.V.S., Reddy T.S.A., Krishna S.H., Subbiah R.                        | Materials                                                             |
| 2023             | Non-linear Sorenson – Dice Exemplar Image Inpainting Based Bayes Probability for Occlusion Removal in Remote Traffic Control                                 | Chandrakasan G., Ayala M.T., Garcia Trejo J.F., Marcus G., Maruthupandy M., Kanisha C.C., Murugan M., AL-mekhlafi F.A., Wadaan M.A. | Multimedia Tools and Applications                                     |
| 2022             | Multithreshold Image Segmentation Technique Using Remora Optimization Algorithm for Diabetic Retinopathy Detection from Fundus Images                        | Darsan R.S., Retnam B.S.J.                                                                                                          | Neural Processing Letters                                             |

| Publication Year | Paper Title                                                                                                                                               | Authors                                                                                           | Journal Title                                           |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| 2022             | Synthesis, structural elucidation, DNA binding, cleavage, AChE and BuChE cholinesterase efficiencies of metal complexes with 1,10-phenanthroline scaffold | Nair R.M., Bindhu B., Manikandanath N.T., Rimal Isaac R.S.                                        | Nucleosides, Nucleotides and Nucleic Acids              |
| 2022             | Mesoporous aluminum impregnated rubber seed shell waste enriched with calcium as adsorbent material for the removal of microbial DNA in aqueous solution  | Soma Sundaram Pillai R., Rajamoni R., Suyambulingam I., Rajamony Suthies Goldy I., Divakaran D.   | Nucleosides, Nucleotides and Nucleic Acids              |
| 2022             | A structural equation modeling examining the influence of body mass index on the lipid profile of type II diabetes patients                               | Somasundaram R., Rajamoni R., Suyambulingam I., Divakaran D., Mavinkere Rangappa S., Siengchin S. | Nutrition and Health                                    |
| 2022             | Exploration of CdO properties favoring superior photocatalytic degradation of methylene blue dye by Al <sup>3+</sup> doping                               | Sreekumar K., Bindhu B., Veluraja K.                                                              | Optical and Quantum Electronics                         |
| 2023             | Student Performance Prediction Using Atom Search Optimization Based Deep Belief Neural Network                                                            | Muthulakshmi S., Chitra R.                                                                        | Optical Memory and Neural Networks (Information Optics) |
| 2022             | The role of silver doping in tuning the optical absorption, energy gap, photoluminescence properties of NiO thin films for UV photosensor applications    | Bearly E.M., Chitra R.                                                                            | Optik                                                   |
| 2023             | Orthogonal learning-based Gray Wolf Optimizer for identifying the uncertain parameters of various photovoltaic models                                     | Jalaney J., Ganesh R.S.                                                                           | Optik                                                   |
| 2023             | An experimental interpretation of high-performance fibre-reinforced polymer concrete with fnn paradigms                                                   | Dinu A.J., Manju R.                                                                               | Oxidation Communications                                |

| Publication Year | Paper Title                                                                                                                                                                               | Authors                                             | Journal Title                               |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------|
| 2023             | Thermal performance of building components insulating by polystyrene material via optimal machine learning                                                                                | George A.S., Nargunam A.S.                          | Oxidation Communications                    |
| 2023             | High energy efficient lifetime management system and trust management framework for manet using self-configurable cluster mechanism                                                       | Salvin G.L., Arul Linsely J., Kathir I.             | Peer-to-Peer Networking and Applications    |
| 2022             | ZnO@Sn@Graphene nanopowders: Integrative impact of tin and graphene on the microstructure, surface morphology, and optical properties                                                     | Valsan A V., Mathai P.P., Babu I.                   | Physica B: Condensed Matter                 |
| 2023             | Improved ammonia vapor sensing properties of Al-doped ZnO nanoparticles prepared by sol-gel process                                                                                       | Warrier G.S., Viji K.S.A.                           | Physica Scripta                             |
| 2022             | Bio controlled efficacy of Bacillus thuringiensis cry protein protection against tomato fruit borer Helicoverpa armigera in a laboratory environment                                      | Majumder D., Kumar S.M., Ashoka D.V., Nargunam A.S. | Physiological and Molecular Plant Pathology |
| 2023             | Effect of maleic anhydride (MA) and glycerol triacetate (GTA) compatibilisers on the properties of compression moulded pineapple leaf fibre reinforced polylactic acid green composite    | Vinolin V., Sucharitha M.                           | Plastics, Rubber and Composites             |
| 2022             | An eco-friendly green biopolymer blend for copper corrosion inhibition                                                                                                                    | Daphni S., Vijula Grace K.S.                        | Polymer Bulletin                            |
| 2023             | Synthesis and characterization of cost-effective industrial discarded natural ceramic particulates from Cymbopogon flexuosus plant shoot for potential polymer/metal matrix reinforcement | Jeme V. J., Jerome S. A.                            | Polymer Bulletin                            |

| <b>Publication Year</b> | <b>Paper Title</b>                                                                                                                                     | <b>Authors</b>                                                           | <b>Journal Title</b>                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------|
| 2022                    | Utilization of discarded Cymbopogon flexuosus root waste as a novel lignocellulosic fiber for lightweight polymer composite application                | Zahariah J., Tibbie Pon Symon V.A.                                       | Polymer Composites                                    |
| 2023                    | Perspectives of polylactic acid from structure to applications                                                                                         | Christabel G.J., Subhajini A.C.                                          | Polymers from Renewable Resources                     |
| 2023                    | Effect of Ti and Cu doping on the structural, optical, morphological and anti-bacterial properties of nickel ferrite nanoparticles                     | Vennila H., Rajesh R.                                                    | Results in Physics                                    |
| 2023                    | Energy conserving relay assistance for reporting users in cognitive radio networks                                                                     | Gopalakrishnan R., Ramakrishnan N.R.R., Dennis B.P.R., Kuzhanthai A.S.L. | Sadhana - Academy Proceedings in Engineering Sciences |
| 2022                    | An Efficient Blockchain Based Data Access with Modified Hierarchical Attribute Access Structure with CP-ABE Using ECC Scheme for Patient Health Record | Chitra B., Kumar S.S.                                                    | Security and Communication Networks                   |
| 2023                    | Impact of terbium inclusion on the photodetection performance of ZnO thin films                                                                        | Gangadhar L., Praseetha P.K.                                             | Semiconductor Science and Technology                  |
| 2022                    | Secured Secret Sharing of QR Codes Based on Nonnegative Matrix Factorization and Regularized Super Resolution Convolutional Neural Network             | Sammy F., Celestin Vigila S.M.                                           | Sensors                                               |
| 2022                    | Highly sensitive ultraviolet photodetectors fabricated from rare earth metal ions doped NiO thin films via nebulizer spray pyrolysis method            | Anjali C., Dhas J.P.M., Singh J.A.P.                                     | Sensors and Actuators A: Physical                     |
| 2022                    | Tribological, Thermal and Corrosive Behaviour of Aluminium Alloy 2219 Reinforced by Si <sub>3</sub> N <sub>4</sub> Nanosized Powder                    | Thanga Subha Devi M., Suji Pramila R.                                    | Silicon                                               |

| Publication Year | Paper Title                                                                                                            | Authors                                                                                                                                  | Journal Title                              |
|------------------|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| 2022             | Emerging Trends in Nano Structured Silicon Detectors for Neutron Spectroscopy                                          | Nair L.M., Mary Synthia Regis Prabha D.M.                                                                                                | Silicon                                    |
| 2022             | Effects of Epithermal Neutron Irradiation on the Characteristics of the Porous Silicon                                 | Vinayaki V.D., Kalaiselvi R.                                                                                                             | Silicon                                    |
| 2022             | A Peer-to-Peer Approach for Extending Wireless Network Base for Managing IoT Edge Devices Off-Gateway Range            | Abirami A., Palanikumar S.                                                                                                               | Smart Innovation, Systems and Technologies |
| 2022             | Ant Lion Optimization for Solving Combined Economic and Emission Dispatch Problems                                     | Raghavendrarao B., Sivaprakash C., Gireeshan M.G., Shajahan A., Prasanth S.                                                              | Smart Innovation, Systems and Technologies |
| 2022             | Performance Study and Analysis of an UAV Airfoil at Low Reynolds Number                                                | Leena Silvoster M., Kumar R.M.S.                                                                                                         | Smart Innovation, Systems and Technologies |
| 2023             | Multi-response Optimization of FSW Process Parameters of ZE42 Alloy Using RSM-Based Grey Relational Analysis           | Sarath babu R., Narasimha murthy Y., Vinoth S., Isaac R.S.R., Mohanraj P., Ganesh V., Algarni H., AlFaify S.                             | Smart Innovation, Systems and Technologies |
| 2023             | Automated Detection of Retinal Hemorrhage Based on Supervised Classifiers and Implementation in Hardware               | Haridas S., Nagendra Prasad M.D.V.K., Jacob V., Sivaraman S.K.                                                                           | Smart Innovation, Systems and Technologies |
| 2023             | Phytochemical mediated synthesis of silver nanoparticles and their antibacterial activity                              | Rajivgandhi G., Stalin A., Kanisha C.C., Ramachandran G., Manoharan N., Alharbi N.S., Kadaikunnan S., Khaled J.M., Alanzi K.F., Li W.-J. | SN Applied Sciences                        |
| 2022             | A developed framework for multi-document summarization using softmax regression and spider monkey optimization methods | Bindu M.V., Herbert G.M.J.                                                                                                               | Soft Computing                             |

| Publication Year | Paper Title                                                                                                                                                                         | Authors                                                                                | Journal Title                                                    |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------|
| 2023             | An optimized deep learning model using Mutation-based Atom Search Optimization algorithm for cervical cancer detection                                                              | Awawdeh M., Ibrahim T.F., Bashir A., Queen F.M.                                        | Soft Computing                                                   |
| 2023             | Proactive Network Packet Classification Using Artificial Intelligence                                                                                                               | Shanmugavel N., Rajendran R.                                                           | Studies in Computational Intelligence                            |
| 2023             | Deep Belief Network Based Healthcare Monitoring System in IoMT                                                                                                                      | Ganesh Kumar R., Toomula S., Paulraj D., Jebin Bose S., Bikku T., Sivabalaselvamani D. | Studies in Systems, Decision and Control                         |
| 2023             | Segmentation of Images Using Watershed and MSER: A State-of-the-Art Review                                                                                                          | Devi B., Preetha M.M.S.J.                                                              | Studies in Systems, Decision and Control                         |
| 2022             | Enhancement in optoelectronic properties of lanthanum co-doped CdO: Zn thin films for TCO applications                                                                              | Shiny K.V., Sugitha N.                                                                 | Superlattices and Microstructures                                |
| 2022             | A COMPARATIVE STUDY OF ORTHOGONAL PLANES FOR DIFERENTIAL DIAGNOSIS OF BRAIN TUMOR LESIONS THROUGH MRI                                                                               | Chandrachoodan G., Radhika R., Palappan R.R.                                           | Suranaree Journal of Science and Technology                      |
| 2023             | Physiochemical characterization and anti-carbapenemase activity of chitosan nanoparticles loaded Aegle marmelos essential oil against K. pneumoniae through DNA fragmentation assay | Shahi D., Vinod Kumar R.S.V., Reshma V.K.                                              | Surfaces and Interfaces                                          |
| 2022             | Experimental investigation of stability, optical property and thermal conductivity of water based MWCNT- Al <sub>2</sub> O <sub>3</sub> -ZnO mono, binary and ternary nanofluid     | Gini A.P., Queen M.P.F.                                                                | Synthetic Metals                                                 |
| 2022             | Study of positioning estimation with user position affected by outlier: a case study of moving-horizon estimation filter                                                            | Lija P., Radhika D.R.                                                                  | Telkomnika (Telecommunication Computing Electronics and Control) |

| <b>Publication Year</b> | <b>Paper Title</b>                                                                                                                                                                                                   | <b>Authors</b>                                                                                      | <b>Journal Title</b>                                                                                           |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| 2023                    | Causes of blindness and vision impairment in 2020 and trends over 30 years, and prevalence of avoidable blindness in relation to VISION 2020: The Right to Sight: An analysis for the Global Burden of Disease Study | Ajinu A.,<br>Maheswaran C.P.                                                                        | The Lancet<br>Global Health                                                                                    |
| 2022                    | Modeling the Surface Integrity of Ball Burnished Biocompatible Magnesium Alloy by Soft Computing Techniques                                                                                                          | Sujithra M.S.,<br>Sugitha N.                                                                        | Transactions of<br>the Indian<br>Institute of Metals                                                           |
| 2023                    | Challenges and Future Prospective of Alternative Materials to Silica Sand for Green Sand Mould Casting: A Review                                                                                                     | Shibu K.R.,<br>Sujipramila R.                                                                       | Transactions of<br>the Indian<br>Institute of Metals                                                           |
| 2023                    | Fabrication and Characterization of Hybrid Natural Fibre-Reinforced Sandwich Composite Radar Wave Absorbing Structure for Stealth Radomes                                                                            | Krishnan C.G.,<br>Robinson Y.H., Julie<br>E.G., Bamini A.M.A.,<br>Kumar R., Thong<br>P.H., Son L.H. | Transactions on<br>Electrical and<br>Electronic<br>Materials                                                   |
| 2023                    | Synthesis of MgO nanoparticles through green method and evaluation of its antimicrobial activities                                                                                                                   | Reegan A.S., Kabila<br>V.                                                                           | Vegetos                                                                                                        |
| 2023                    | Dual adaptive deep convolutional neural network for video forgery detection in 3D lighting environment                                                                                                               | Thebiga M., Pramila<br>S.R.                                                                         | Visual Computer                                                                                                |
| 2022                    | Adoption of Rainwater Harvesting: a Dual-factor Approach by Integrating Theory of Planned Behaviour and Norm Activation Model                                                                                        | Rajkumar K.,<br>Jeyakumar M.K.                                                                      | Water Resources<br>Management                                                                                  |
| 2023                    | IoT and wearables for detection of COVID-19 diagnosis using fusion-based feature extraction with multikernel extreme learning machine                                                                                | Shibu K.R., Suji<br>Pramila R.                                                                      | Wearable<br>Telemedicine<br>Technology for<br>the Healthcare<br>Industry: Product<br>Design and<br>Development |

| Publication Year | Paper Title                                                                                                                                                                 | Authors                                                                                              | Journal Title              |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------|
| 2023             | Effective Brain Tumor Classification on MRI Using Deep Belief-convolutional Neural Network with Pixel Change Detection based on Pixel Mapping Technique                     | Jalaluddin M., Shivakumar S., Arora S.S., Kumari D., Jayachandran M., Gopakumar R., Vinothkumar T.S. | Webology                   |
| 2023             | Adoption of Project Management Methodology and Challenges Faced: A Comparative Analysis between Government IT Sector and IT Organisations in the Corporate Sector in Kerala |                                                                                                      | Webology                   |
| 2023             | High Capacity Reversible Steganography on CMY and HSI Color Images Using Image Interpolation                                                                                |                                                                                                      | Webology                   |
| 2023             | An Improved Optimization Algorithm for Epileptic Seizure Detection in EEG Signals Using Random Forest Classifier                                                            |                                                                                                      | Webology                   |
| 2023             | Reason to Expatriation of Construction Company Workers in UAE                                                                                                               |                                                                                                      | Webology                   |
| 2022             | A novel prediction model for mobility tracing of users with hybrid metaheuristic concept                                                                                    |                                                                                                      | Wireless Networks          |
| 2022             | Clinical Assessment of the Effectiveness of Three Different Controlled-release Drugs in the Management of Chronic Periodontitis: An In vivo Study                           |                                                                                                      | World Journal of Dentistry |

**(b) Conference Proceedings:**

| Authors                                       | Title                                                                               | Year | Source Title                                             |
|-----------------------------------------------|-------------------------------------------------------------------------------------|------|----------------------------------------------------------|
| Vijayan L.V., Jose J.P.A.                     | A research on strength improvement of clay with mine tailing                        | 2023 | Journal of Physics: Conference Series                    |
| Sheela Shiney T.S., Albert Jerome S., Rose J. | Segmentation of cervix using minimum spanning superpixel tree detector              | 2023 | IOP Conference Series: Materials Science and Engineering |
| Mary A.V., Jerine S.                          | Wireless body area network transmissions for iot-based healthcare network: A review | 2023 | IOP Conference Series: Materials Science and Engineering |
| Nair R.M., Bindhu B., Thomas S.A.             | Hydroxylation of boron nitride nanosheets                                           | 2023 | AIP Conference Proceedings                               |
| Thomas R., Judith J.E.                        | Hybrid Outlier Detection in Healthcare Datasets                                     | 2023 | Proceedings of the 4th International Conference on       |

| Authors                                       | Title                                                                                                                                                  | Year | Source Title                                                                                                                                                                                                 |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                               | using DNN and One Class-SVM                                                                                                                            |      | Electronics, Communication and Aerospace Technology, ICECA 2020                                                                                                                                              |
| Haripriya H.,<br>Rimal Isaac R.S.             | One step synthesis of polyvinylpyrrolidone coated silver nanoparticles for the detection of hydrogen peroxide                                          | 2023 | AIP Conference Proceedings                                                                                                                                                                                   |
| Tharakan S.S.,<br>Sivapragash M.              | Improved hardness characteristics of Mg-3Zn-1Cu-0.7Mn alloy composites reinforced with Al <sub>2</sub> O <sub>3</sub> synthesized by powder metallurgy | 2023 | IOP Conference Series: Materials Science and Engineering                                                                                                                                                     |
| Devi B., Jain<br>Preetha M.M.S.               | Algorithmic Study on Facial Emotion Recognition model with Optimal Feature Selection via Firefly Plus Jaya Algorithm                                   | 2023 | Proceedings of the 4th International Conference on Trends in Electronics and Informatics, ICOEI 2020<br>Proceedings of the 4th International Conference on Trends in Electronics and Informatics, ICOEI 2020 |
| Thangam T.,<br>Muthuvel K.                    | Parametric Analysis on Optimized PFOPID control design of a Grid-connected PV inverter for MPPT                                                        | 2023 |                                                                                                                                                                                                              |
| Mathews A.B.,<br>Glan Devadhas G.             | Modified Optimization in 5G Optical Wireless Systems                                                                                                   | 2023 | Proceedings of the International Conference on Intelligent Computing and Control Systems, ICICCS 2020                                                                                                        |
| Mathews A.B.,<br>Jeyakumar M.K.               | Automatic Detection of Segmentation and Advanced Classification Algorithm                                                                              | 2023 | Proceedings of the 4th International Conference on Computing Methodologies and Communication, ICCMC 2020                                                                                                     |
| Mehta R.C.                                    | Computation of base pressure based on to fill-up the growing space applied to reentry capsules                                                         | 2023 | AIAA AVIATION 2020 FORUM                                                                                                                                                                                     |
| Aslam Y., Santhi N.,<br>Ramasamy N., Ramar K. | A Review on Various Clustering Approaches for Image Segmentation                                                                                       | 2023 | Proceedings of the 4th International Conference on Inventive Systems and Control, ICISC 2020                                                                                                                 |
| Ramanan G.,<br>Bino Prince Raja D., Samuel K. | Intelligent particle swarm optimization for quality machining in advanced manufacturing process                                                        | 2023 | Materials Today: Proceedings                                                                                                                                                                                 |
| Raja A.,                                      | Visible active TiO <sub>2</sub> -                                                                                                                      | 2023 | Materials Today: Proceedings                                                                                                                                                                                 |

| Authors                                                                       | Title                                                                                                                      | Year | Source Title                                                                                                                         |
|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------|
| Rajasekaran P.,<br>Selvakumar K.,<br>Ganapathi<br>Raman R.,<br>Swaminathan M. | CdS-rGO ternary<br>nanocomposite for<br>enhanced<br>photodecomposition of<br>methylene blue                                |      |                                                                                                                                      |
| Manju C.C.,<br>Victor Jose M.                                                 | Highly accurate HEp-2<br>specimen image<br>segmentation and<br>classification using LBP<br>and HoG using CNN<br>classifier | 2023 | Proceedings of the 2019 9th<br>International Conference on<br>Advances in Computing and<br>Communication, ICACC 2019                 |
| Tom T., Usha<br>Nandini D.,<br>Princemary S.,<br>Ankayarkanni B.              | An Improved Forgery<br>Detection Method for<br>Images                                                                      | 2023 | IOP Conference Series:<br>Materials Science and<br>Engineering                                                                       |
| Mancy L.,<br>Celestin Vigila<br>S.M.                                          | Consent based Access<br>Control Mechanism for<br>Encrypted Medical<br>Image                                                | 2020 | 2019 2nd International<br>Conference on Intelligent<br>Computing, Instrumentation<br>and Control Technologies,<br>ICICICT 2019       |
| Jayakumari J.,<br>Jalin A.F.                                                  | An Improved Text to<br>Speech Technique for<br>Tamil Language Using<br>Hidden Markov Model                                 | 2020 | 2019 7th International<br>Conference on Smart<br>Computing and<br>Communications, ICSCC<br>2019                                      |
| Shailaja Rani<br>P.B., Kumar A.                                               | Digital Image Forgery<br>Detection Techniques:<br>A Comprehensive<br>Review                                                | 2020 | Proceedings of the 3rd<br>International Conference on<br>Electronics and<br>Communication and<br>Aerospace Technology,<br>ICECA 2019 |
| Rajesh K.R.,<br>Musthafa M.M.,<br>Midhun C.V.,<br>Naiby J., Raman<br>R.G.     | Photo-neutron detection<br>using Cr-39 solid state<br>nuclear track detector                                               | 2020 | AIP Conference Proceedings                                                                                                           |
| Lilly C.S., Bindhu<br>B., Midhun C.V.,<br>Musthafa M.M.,<br>Ganapathi R.R.    | The estimation of<br>radiation induced<br>damages on nano-<br>structured nuclear<br>radiation detectors                    | 2020 | AIP Conference Proceedings                                                                                                           |
| Nair R.M.,<br>Surendran V.S.,<br>Bindhu B.                                    | Efficient mixed solvent<br>strategy for boron<br>nitride exfoliation                                                       | 2020 | AIP Conference Proceedings                                                                                                           |
| Subitha M.,<br>Sasikanth S.M.,<br>Bindhu B.                                   | Ionic liquid assisted<br>exfoliation and<br>dispersion of<br>molybdenum<br>disulphide: Synthesis<br>and characterization   | 2020 | AIP Conference Proceedings                                                                                                           |

| Authors                                                                                                  | Title                                                                                                                                    | Year | Source Title                                                                     |
|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------|
| Raj S.S.,<br>Pradeep P.,<br>Edwin Raja D.J.,<br>Gladson D.                                               | Optimization of<br>Fabrication Parameters<br>on Hybrid Fibre<br>Reinforced Polymer<br>Composite by ANN<br>Design                         | 2020 | 2019 Innovations in Power<br>and Advanced Computing<br>Technologies, i-PACT 2019 |
| Jose C., Vijula<br>Grace K.S.                                                                            | A New Approach for<br>Accurate Path<br>Prediction Using<br>Multiple Prediction<br>System                                                 | 2020 | Materials Today: Proceedings                                                     |
| Baby S.J.,<br>Kalaiselvi R.                                                                              | Hot News Detection<br>System Using Rule-<br>Based Technique                                                                              | 2020 | Materials Today: Proceedings                                                     |
| Aslam Y., Santhi<br>N.                                                                                   | A Comprehensive<br>Survey on Optimization<br>Techniques in Image<br>Processing                                                           | 2020 | Materials Today: Proceedings                                                     |
| Rakesh S.,<br>Grace K.S.V.                                                                               | A comprehensive<br>review on the VLSI<br>design performance of<br>different Parallel Prefix<br>Adders                                    | 2020 | Materials Today: Proceedings                                                     |
| Albert Seldon P.,<br>Abilash N.                                                                          | Appraisal on Varied<br>Natural and Artificial<br>Fiber Reinforced<br>Polymeric Composites                                                | 2020 | Materials Today: Proceedings                                                     |
| Vijayakumar S.,<br>Arulmozhi P.,<br>Kumar N.,<br>Sakthivel B.,<br>Prathip Kumar<br>S., Praseetha<br>P.K. | Acalypha fruticosa L.<br>Leaf extract mediated<br>synthesis of ZnO<br>nanoparticles:<br>Characterization and<br>antimicrobial activities | 2020 | Materials Today: Proceedings                                                     |

#### 9. Consultancy:

| Name of the<br>Consultant | Name of<br>Consultancy<br>Project | Consulting/Sponsoring Agency<br>with Contact Details                                                                                                    | Year           | Revenue<br>Generated<br>(INR in<br>Lakhs) |
|---------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------|
| Dr. R. Rajesh             | Students<br>Project               | Rohini College of Engineering<br>and Technology<br>Near Anjugramam JN,<br>Kanyakumari Main Road,<br>Palkulam, K.K.Dist,Tamil Nadu,<br>PinCode - 629401. | 27-03-<br>2023 | 0.02                                      |
| Dr. R. S. Rimal<br>Isaac  | Testing and<br>Evaluation         | Various Colleges                                                                                                                                        | 2022-<br>2023  | 3.8                                       |

|                                                            |                                                              |                                                                                                                                             |             |                                             |
|------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------|
| Department of Information Technology                       | Website Revamping                                            | Rubix Crew Pvt Ltd,<br>Address: Rubix Crew Pvt Ltd,<br>Capital Towers, Statue,<br>Thiruvananthapuram – 695001<br>Contact Number: 9746570333 | 2023        | 0.05                                        |
| Department of Civil Engineering                            | Pentarch the Designers and Builders                          | Cube Test                                                                                                                                   | 21/03/2023  | 0.012                                       |
| Dr. J. Arul Linsely                                        | Waste to Energy                                              | NIMS Medicity                                                                                                                               | 2023        | 3                                           |
| Revenue Generated From Corporate Training During the Year  |                                                              |                                                                                                                                             |             |                                             |
| <b>Names of the Teacher-Consultants/Corporate Trainers</b> | <b>Title of the Corporate Training Program</b>               | <b>Agency Seeking Training with Contact Details</b>                                                                                         | <b>Year</b> | <b>Revenue Generated (Amount in Rupees)</b> |
| Dr. R. Rajesh                                              | Students Training in Various Mechanical Base Design Software | J J Arcade, Near New Bus Stand, Marthandam, TamilNadu 629165                                                                                | 05-04-2023  | 0.025                                       |

#### 10. Collaboration:

| Sl. No. | Name of Institution/Organisation/University/Industry | Date |
|---------|------------------------------------------------------|------|
| -       | -                                                    | -    |

#### 11. Any Other Information:

##### (a) Research Work (Academic)

| Sl. No. | Name of the Scholar    | Title                                                                                    | Supervisor                |
|---------|------------------------|------------------------------------------------------------------------------------------|---------------------------|
| 1.      | Arthi D.               | Physio Chemical Studies on Assignment of Ground Water Quality in the Thamirabarani River | Dr. J. Joseph             |
| 2.      | Michael Ahitha Jose J. | Assignment of Physio Chemical Quality parameters in the Industry Sewage                  | Dr. J. Joseph             |
| 3.      | Abisha M. R.           | Soil Stabilization Using Different Nano Structured Material                              | Dr. J. Prakash Arul Jose  |
| 4.      | Dharsana M.            | Water Purification Using Different Nano Materials                                        | Dr. J. Prakash Arul Jose  |
| 5       | Sobha P                | Transit Oriented Development Approach for Trivandrum City                                | Dr. J. Prakash Arul Jose  |
| 6.      | Shajan V. C.           | Development of Engineered Wood with Intention to Replace Current Wood Products           | Dr. N. Nalanth, Professor |
| 7.      | Veena Vijayan L.       | Enhancing the Strength Characteristics of Clayey Soil                                    | Dr. J. Prakash Arul Jose  |

| Sl. No. | Name of the Scholar    | Title                                                                                                                                                                                     | Supervisor                 |
|---------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
|         |                        | Stabilized with Nano Materials                                                                                                                                                            |                            |
| 8.      | Nisha N. P.            | Prediction of Leakage Through Geo Synthetic Clay Liner                                                                                                                                    | Dr. J. Prakash Arul Jose   |
| 9.      | Rajalekshmi P.         | Experimental Behaviour of High Performance Concrete (HPC)                                                                                                                                 | Dr. J. Prakash Arul Jose   |
| 10.     | Sankaranarayanan R.V.  | Development and Performance Evaluation of High Performance Concrete                                                                                                                       | Dr. N. Nalanth             |
| 11.     | Sreeja M. D.           | Behaviour of Steel Fibre Reinforced Concrete Beam-Column Joints under Cyclic Loading                                                                                                      | Dr. N. Nalanth             |
| 12.     | Lathika P.             | Bayesian Methods in Increasing Agricultural Yield Based on Efficient Weather Forecasting                                                                                                  | Dr. D. Sheeba Singh        |
| 13.     | Sheena K. P.           | Fuzzy Algebra                                                                                                                                                                             | Dr. Uma Devi               |
| 14.     | Prem Narayan           | Application of Artificial intelligence & Augmentation Reality in Additive manufacturing Process                                                                                           | Dr. Rajesh R               |
| 15.     | Christin Raj C. P.     | Synthesis and Characteristic Study of Materials Used in Rocket Engine Nozzle                                                                                                              | Dr. B. Bavanish            |
| 16.     | Prasanth P. V.         | Investigations on Nano Enhanced Hybrid Honey Comb Sandwich Panels                                                                                                                         | Dr. M. Edwin Sahayaraj     |
| 17.     | Sharath Krishnan C. K. | Drilling of Multi-Directional E-Glass Fibre Reinforced Composite (MD-E-GPRC) analysing Optimizing the Parameters by Digital Image Processing Techniques Minitab Software (Taguchi Method) | Dr. J. Edwin Raja Dhas     |
| 18.     | Thinagar A.            | Synthesis, Characterization and Analysis of Natural Fibre Reinforced Polymer Composite                                                                                                    | Dr. B. Stanly Jones Retnam |
| 19.     | Aswathy Chandran Y. C. | Fabrication and Characterization of DSSC natural Pigments                                                                                                                                 | Dr. B. Bindu               |
| 20.     | Neeraja S. M.          | Fe <sub>2</sub> O <sub>3</sub> Polymer Composite                                                                                                                                          | Dr. B. Bindu,              |
| 21.     | Anjana P. T.           | Modelling Aspects of Charge Particles Dosimetry.                                                                                                                                          | Dr. R. Ganapathi Raman     |

| Sl. No. | Name of the Scholar  | Title                                                                                                                                                          | Supervisor             |
|---------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 22.     | Vel Murugan G.       | Studies on Nano Materials of Tungsten and European Based Component                                                                                             | Dr. R. Ganapathi Raman |
| 23.     | Muhammed Shameem. M. | Preparation and Characterization of Potential Metal Oxide Components                                                                                           | Dr. R. Ganapathi Raman |
| 24.     | Sneha S. Nair        | Advantages of Helical Tomotherapy Over Volumetric Modulated Arc Therapy for cAncer Treatment. An Evaluation Based on Dosimetric and Radio Biological Indicates | Dr. V. N. Meena Devi   |

**(b) Research Patents:**

| Sl. No. | Name of the Patenter                                                              | Title of the Patent                                                                       | Patent Application Number            | Date of Publication | Patent Number & Year of Award | Status                           |
|---------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------|---------------------|-------------------------------|----------------------------------|
| 1.      | Dr. G. Ramadas, Deputy Librarian, NICHE                                           | Manless Smart Library Management System Using AGVS and Robot                              | E-2/2943/2018<br>CHE201841<br>036627 | 22/02/2019          | -                             | Application Awaiting Examination |
| 2.      | Rimal Isaac R S Assistant Professor, Department of Nanotechnology, NICHE          | Bio Synthesized Gold Nano formUlation                                                     | 2019410547<br>05                     | 10/01/2020          | -                             | Application Awaiting Examination |
| 3.      | Dr. J.P. Jayan                                                                    | Vehicle Information Sharing system uSing Artificial Intelligence                          | 2018410304<br>44                     | 14/02/2020          | -                             | Application Awaiting Examination |
| 4.      | Dr. R. V. Siva Balan Assistant Professor, Department of Management Studies, NICHE | An Automated Methodology and System to Manage the Student Related Information Efficiently | 2020410214<br>80                     | 05/06/2020          | -                             | Awaiting Request for Examination |
| 5.      | Dr.M.Mary Synthuja Jain Preetha, Assistant                                        | Maximum Power Extraction of Photovoltaic                                                  | 2020410101<br>91                     | 28/08/2020          | -                             | Awaiting Request for Examination |

| Sl. No. | Name of the Patenter                                                                           | Title of the Patent                                                                                                          | Patent Application Number                     | Date of Publication | Patent Number & Year of Award | Status                              |
|---------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------------|-------------------------------|-------------------------------------|
|         | Professor,<br>Department<br>of ECE,<br>NICHE                                                   | System Using<br>a Novel Cross<br>Diagonal View<br>Method                                                                     |                                               |                     |                               |                                     |
| 6.      | Dr. P. K. Praseetha,<br>Professor and<br>Head.<br>Department<br>of<br>Nanotechnology,<br>NICHE | Carbon<br>Quantum Dots<br>can ACT as<br>the Powerful<br>Wound<br>Healant                                                     | 2019410256<br>09E-<br>3/18311/201<br>9CHE     | -                   | -                             | Application<br>Not Yet<br>Published |
| 7.      | Dr. P. K. Praseetha,<br>Professor and<br>Head,<br>Department<br>of<br>Nanotechnology,<br>NICHE | Ficus Bengalen<br>sis Derived<br>Eisosane<br>Loaded Iron<br>Oxide<br>Nanoparticles<br>to Combat<br>Melanoma                  | 2019410256<br>19E-<br>2/18315/201<br>9CHE     | -                   | -                             | Application<br>Not Yet<br>Published |
| 8.      | Dr. R. Mathusootha<br>na S. Kumar,<br>Prpfessor &<br>Head,<br>Department<br>of IT, NICHE       | Internal<br>Intrusion<br>Detection and<br>Prevention<br>System by<br>Using Data<br>Mining and<br>Cryptographic<br>Technoques | E-<br>3/18309/201<br>9CHE<br>2019410256<br>05 | -                   | -                             | Application<br>Not Yet<br>Published |
| 9.      | Dr. B. Bindhu,<br>Professor and<br>Head, Depart<br>ment of<br>Physics, NICH<br>E               | Sol Gel<br>Synthesis of<br>PB0.98B10.02<br>ZRO.52T10.48<br>O3<br>Nanoceramics                                                | 2019410255<br>95E-<br>3/18301/201<br>9CHE     | -                   | -                             | Application<br>Not Yet<br>Published |
| 10.     | Dr. G. ArockiaSelva<br>Saroja,<br>Associate<br>Professor,<br>Department<br>of EIE,<br>NICHE    | Automatic<br>Speed Control<br>System in<br>Automobiles<br>using RF<br>Signal                                                 | E-<br>3/18308/201<br>9CHE<br>2019410256<br>04 | -                   | -                             | Application<br>Not Yet<br>Published |
| 11.     | Dr. S. Maria<br>Celestin<br>Vigila,                                                            | Fusion of DNA<br>Sequence and<br>Hyper Chaotic                                                                               | E-<br>3/18303/201<br>9CHE                     | -                   | -                             | Application<br>Not Yet<br>Published |

| Sl. No. | Name of the Patenter                                                                              | Title of the Patent                                                                                 | Patent Application Number       | Date of Publication | Patent Number & Year of Award | Status                        |
|---------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------|---------------------|-------------------------------|-------------------------------|
|         | Associate Professor,<br>Department IT, NICHE                                                      | Technique for Securing Medical Image Applications                                                   | 201941025600                    |                     |                               |                               |
| 12.     | Dr. J. Edwin Raja Dhas,<br>Professor and Head, Department of Automobile Engineering, NICHE        | Design and Development of Inbuilt Hydraulic Jack for Automobiles                                    | 201941025620 E-3/18318/2019CHE  | -                   | -                             | Application Not Yet Published |
| 13.     | Shanila N. Ph.D. Research Scholar, Department of Electronics and Communication Engineering, NICHE | Artificial Intelligence Based Liver Cancer Detection System (Livernet)                              | 201941025614 E-3/18313/2019CHE  | -                   | -                             | Application Not Yet Published |
| 14.     | Sujeesh S.U.,EEE Student, NICHE                                                                   | Maximum Energy Conservation Using 3 Port Converter in Hybrid Energy System                          | 201941025623 E-3/18321/2019-CHE | -                   | -                             | Application not yet published |
| 15.     | Dr. S. Palanikumar, Associate Professor, Department of IT, NICHE                                  | Fack Image Detection using Color Model                                                              | 201941025594E-3/18300/2019CHE   | -                   | -                             | Application Not Yet Published |
| 16.     | Mr. I. Shunmugam M.E (C&I) Student, Department of Electronics & Instrumentation Engineering       | An Algorithmic Approach Based FO-PID Tuning of a Real Time Conical Tank Process Used in Waste Water | 201941025603E-3/18305/2019CHE   | -                   | -                             | Application Not Yet Published |

| Sl. No. | Name of the Patenter                                                | Title of the Patent                                                                           | Patent Application Number              | Date of Publication | Patent Number & Year of Award | Status                           |
|---------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------|---------------------|-------------------------------|----------------------------------|
|         | NICHE                                                               |                                                                                               |                                        |                     |                               |                                  |
| 17.     | Dr. Brindha T., Assistant Professor, Department of IT, NICHE        | A Secured Access Control Technique Based on RFID Using 8051 Microcontroller                   | 2019410256<br>22E-<br>3/18313/2019CHE  | -                   | -                             | Application Not Yet Published    |
| 18.     | Dr. Bindhu B., Professor, Department of Physics, NICHE              | Low Temperature Synthesis of Calcium and Hafnium Co-Doped Barium Titanate Nano Ceramics       | 2019410256<br>11E-<br>3/18312/2019CHE  | -                   | -                             | Application Not Yet Published    |
| 19.     | Sumi M. S., Research Scholar, NICHE                                 | An Energy Efficient Cluster Based Cooperative Spectrum Sensing with Minimum Distance Criteria | 2019410255<br>99 E-<br>3/18303/2019CHE | -                   | -                             | Application Not Yet Published    |
| 20.     | J. Nancy Mary P.G. Scholar Department of Software Engineering NICHE | Treatment Advisor Machine Enhanced with AI                                                    | E-<br>2/3211/2019CHE<br>201941041409   | -                   | -                             | Application Not Yet Published    |
| 21.     | Dr. R.Kalaiselvi, Associate Professor, Department of CSE, NICHE     | Secure Data Outsourcing in Cloud Environment and a method thereof                             | 202041019790                           | 22/05/2020          | -                             | Application Awaiting Examination |
| 22.     | Dr. Siva Sankar, Associate Professor, Department of IT, NICHE       | Design of Multidimension al Cartesian Gantry Robotic Systems for Building Construction        | 202041021483                           | 05/06/2020          | -                             | Application Awaiting Examination |

## News

- ❖ The academicians are associated with patents, technical papers and books.
- ❖ Visits by eminent personalities in diverse fields such as engineering and technology inspire the scholars and faculties of the NICHE.
- ❖ Conferences, Symposia, Workshops and Seminars on focus themes are important academic activities to stimulate discussions on different areas of importance. Many of these activities invite and receive participation from other organizations, which bring the additional benefit of increasing the Institute's visibility to the outside world.
- ❖ The invited lectures were delivered by experts invited to the NICHE –BRDC to share their insights in their respective fields and to kindle scholarly interest in the students in a diverse range of topics. These lectures, attended by the scholars, faculty and staff, are delivered at a level that is easily understood by even the uninitiated.
- ❖ Some of the scholars defended their Ph.D. theses successfully.

\*\*\*\*\*

## LIBRARY

|                  |   |                     |
|------------------|---|---------------------|
| Name             | : | LRC – LIBRARY       |
| Librarian's Name | : | Dr.S.Lawyed Stephen |
| Phone No         | : | 9442302772          |
| E-mail/ Website  | : | library@niuniv.com  |

### 1. Resources Available :

|                    |   |             |
|--------------------|---|-------------|
| 1. Building        | : | 1654.7 sq.m |
| 2. No. of Volumes  | : | 83142       |
| 3. No. of Titles   | : | 49251       |
| 4. Reference Books | : | 2352        |
| 5. News Papers     | : | 11          |
| 6. Journals        | : | 69          |
| 7. Theses          | : | 418         |
| 8. Online Journals | : | 202         |
| 9. E Books         | : | 769         |
| 10. Back Volumes   | : | 3045        |
| 11. CDs/ DVDs      | : | 1792        |

12. Book Bank : 939
13. Additions made during 22-23 : 349
14. Online Data Bases : Nil
15. Digital Books : Nil

2. Staff Details :

1. Assistant Librarians : Nil
2. Assistants : 05
3. Helpers : 02

3. LRC LIBRARY USAGE DATA

1. No. of Faculty Members visited per day : 15 to 20
2. Average No. of Students Visited per day : 45 to 55

3. Usage of

| IEEE      | EBSCO | EMERALD | DELNET | INFLIBNET | NDL    | NIMBUS |
|-----------|-------|---------|--------|-----------|--------|--------|
| Available |       |         | Member | Member    | Member |        |

4. Average number of borrowers per day : 15
5. Resource sharing with other Universities : Yes, through DELNET we are providing inter library loan to our students and faculty members
6. Digitalisation efforts made during 2022-23
7. Membership details in National Digital Library (NDL)

| S.No |                                        | Male | Female | Total |
|------|----------------------------------------|------|--------|-------|
| 1    | No. of Faculty Members                 |      |        |       |
| 2    | No. of Students Members                |      |        |       |
| 3    | No. of Administrative/ Technical Staff |      |        |       |

8. No. of Books discarded during 2022-23 : 06

---

## CONTROLLER OF EXAMINATIONS

1.

|                            |                                                                     |
|----------------------------|---------------------------------------------------------------------|
| Name of the Office         | Controller of Examinations                                          |
| Name of the Additional COE | Dr.M.K.Jeyakumar                                                    |
| Phone No.                  | 9486856115                                                          |
| Website/ E-mail            | <a href="http://www.niuniv.com">www.niuniv.com</a> / coe@niuniv.com |

## 2. Convocation Details

a. Convocation :

b. Chief Guest

:Dr.M.Somanath

Chairman, ISRO,

Secoratory, Dept. of Space & Chairman-

Space Commission.

c. Number of Convocation

:30<sup>th</sup>

d. Held on

:20-11-2023

## 3. Candidates Admitted for the 30<sup>th</sup> Convocation: -

| S.No. | Department                                        | UG         | PG         | M.Phil.   | Ph.D.     | Total      |
|-------|---------------------------------------------------|------------|------------|-----------|-----------|------------|
| 1.    | Faculty of Aeronautical and Space Technology      | 54         | 05         | -         | 2         | 61         |
| 2.    | Faculty of Civil Engineering                      | 43         | 31         | -         | 4         | 78         |
| 3.    | Faculty of Computer Science                       | 0          | 09         | -         | -         | 09         |
| 4.    | Faculty of Electrical and Electronics Engineering | 34         | 14         | -         | 15        | 63         |
| 5.    | Faculty of Information and Computer Engineering   | 47         | 37         | -         | 18        | 102        |
| 6.    | Faculty of Management Studies                     | 17         | 62         | 2         | 08        | 89         |
| 7.    | Faculty of Mechanical Engineering                 | 105        | 25         | -         | 03        | 133        |
| 8.    | Faculty of Science and Humanities                 | -          | 41         | 11        | 02        | 54         |
| 9.    | Faculty of Technology                             | 51         | 08         | -         | 01        | 60         |
| 10.   | Faculty of Marine Engineering                     | 12         | -          | -         | -         | 12         |
| 11.   | Faculty of Allied Health Sciences                 | 93         | 4          | -         | -         | 97         |
|       | <b>Total</b>                                      | <b>456</b> | <b>236</b> | <b>13</b> | <b>53</b> | <b>758</b> |

#### 4. Examination Results December 2022:

| S. No | Course                         | S1       |     |      |        | S3       |     |      |        | S5       |     |      |        | S7       |     |      |        |
|-------|--------------------------------|----------|-----|------|--------|----------|-----|------|--------|----------|-----|------|--------|----------|-----|------|--------|
|       |                                | Strength | App | Pass | Pass % | Strength | App | Pass | Pass % | Strength | App | Pass | Pass % | Strength | App | Pass | Pass % |
| 1     | B.E./B.Tech./BBA/B.Com/B.Sc    | 313      | 313 | 46   | 15     | 366      | 366 | 122  | 33     | 355      | 355 | 133  | 37     | 346      | 346 | 181  | 52     |
| 2     | M.E./M.Tech./MBA/MCA/M.A./M.Sc | 196      | 196 | 47   | 24     | 242      | 242 | 102  | 42     | -        | -   | -    | -      | -        | -   | -    | -      |

#### 5. Examination Results May 2023:

| S. No | Course                         | S2       |     |      |        | S4       |     |      |        | S6       |     |      |        | S8       |     |      |        |
|-------|--------------------------------|----------|-----|------|--------|----------|-----|------|--------|----------|-----|------|--------|----------|-----|------|--------|
|       |                                | Strength | App | Pass | Pass % | Strength | App | Pass | Pass % | Strength | App | Pass | Pass % | Strength | App | Pass | Pass % |
| 1     | B.E./B.Tech./BBA/B.Com/B.Sc    | 255      | 255 | 71   | 28     | 342      | 342 | 120  | 35     | 358      | 358 | 169  | 47     | 356      | 356 | 316  | 89     |
| 2     | M.E./M.Tech./MBA/MCA/M.A./M.Sc | 148      | 148 | 58   | 39     | 242      | 242 | 146  | 60     | -        | -   | -    | -      | -        | -   | -    | -      |

#### 6. List of Rank Holders in May 2023 Examinations

|                                                |                                |
|------------------------------------------------|--------------------------------|
| Degree & Branch: B.E. Aeronautical Engineering | Month & Year of Pass: May-2023 |
|------------------------------------------------|--------------------------------|

| S.No. | Reg. No.   | Name      | CGPA | Classification               | Total | Rank           |
|-------|------------|-----------|------|------------------------------|-------|----------------|
| 1.    | 1119201004 | Benisha K | 9.03 | First Class with Distinction | 4085  | 1 (Gold Medal) |

|                                                              |                                |
|--------------------------------------------------------------|--------------------------------|
| Degree & Branch: B.E. Electrical and Electronics Engineering | Month & Year of Pass: May-2023 |
|--------------------------------------------------------------|--------------------------------|

| S.No. | Reg. No.   | Name              | CGPA | Classification               | Total | Rank           |
|-------|------------|-------------------|------|------------------------------|-------|----------------|
| 1.    | 1119209006 | Arun Ahilesh K S  | 9.47 | First Class with Distinction | 4267  | 1 (Gold Medal) |
| 2.    | 1120309004 | John Shijesh J. S | 8.48 | First Class                  | 3780  | 2              |

|                                                                             |                                           |
|-----------------------------------------------------------------------------|-------------------------------------------|
| <b>Degree&amp; Branch: B.E. Electronics and Instrumentation Engineering</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|-----------------------------------------------------------------------------|-------------------------------------------|

| S.No. | Reg. No.   | Name                  | CGPA | Classification               | Total | Rank              |
|-------|------------|-----------------------|------|------------------------------|-------|-------------------|
| 1.    | 1119211004 | Mohammed Ijaz S       | 9.77 | First Class with Distinction | 4442  | 1<br>(Gold Medal) |
| 2.    | 1120311001 | Deva Sahaya Dickson A | 8.44 | First Class                  | 3819  | 2                 |

|                                                    |                                           |
|----------------------------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: B.E. Civil Engineering</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|----------------------------------------------------|-------------------------------------------|

| S.No. | Reg. No.   | Name           | CGPA | Classification               | Total | Rank              |
|-------|------------|----------------|------|------------------------------|-------|-------------------|
| 1.    | 1120306001 | Aakash R       | 8.64 | First Class with Distinction | 3873  | 1<br>(Gold Medal) |
| 2.    | 1120306007 | Jebersilin H L | 8.27 | First Class                  | 3771  | 2                 |

|                                                                   |                                           |
|-------------------------------------------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: B.E. Computer Science and Engineering</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|-------------------------------------------------------------------|-------------------------------------------|

| S.No. | Reg. No.   | Name                   | CGPA | Classification               | Total | Rank              |
|-------|------------|------------------------|------|------------------------------|-------|-------------------|
| 1.    | 1119208011 | Mohasin K Rahumathulla | 8.63 | First Class with Distinction | 3794  | 1<br>(Gold Medal) |
| 2.    | 1119208018 | Aswin B                | 7.52 | First Class                  | 3312  | 2                 |
| 3.    | 1119208003 | Arvind K               | 7.37 | First Class                  | 3276  | 3                 |

|                                                         |                                           |
|---------------------------------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: B.E. Mechanical Engineering</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|---------------------------------------------------------|-------------------------------------------|

| S.No. | Reg. No.   | Name            | CGPA | Classification | Total | Rank              |
|-------|------------|-----------------|------|----------------|-------|-------------------|
| 1.    | 1120317001 | Ajin J          | 8.23 | First Class    | 4004  | 1<br>(Gold Medal) |
| 2.    | 1120317014 | Vasanth V S     | 8.35 | First Class    | 4002  | 2                 |
| 3.    | 1120317030 | Vasim Akram S S | 8.28 | First Class    | 3940  | 3                 |
| 4.    | 1120317034 | Livin Anto M A  | 8.14 | First Class    | 3939  | 4                 |
| 5.    | 1120317009 | Raja Serin R    | 8.14 | First Class    | 3920  | 5                 |
| 6.    | 1120317019 | Jenish J        | 7.96 | First Class    | 3901  | 6                 |

|                                                     |                                           |
|-----------------------------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: B.E. Marine Engineering</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|-----------------------------------------------------|-------------------------------------------|

| S.No. | Reg. No.   | Name                | CGPA | Classification               | Total | Rank              |
|-------|------------|---------------------|------|------------------------------|-------|-------------------|
| 1.    | 1119215005 | Gharshom F          | 8.70 | First Class with Distinction | 4245  | 1<br>(Gold Medal) |
| 2.    | 1119215007 | Muhammed Riyas. M A | 8.09 | First Class                  | 4037  | 2                 |
| 3.    | 1119215006 | Karthik R Unni      | 7.85 | First Class                  | 3939  | 3                 |

|                                                         |                                           |
|---------------------------------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: B.E. Automobile Engineering</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|---------------------------------------------------------|-------------------------------------------|

| S.No. | Reg. No.   | Name                | CGPA | Classification               | Total | Rank              |
|-------|------------|---------------------|------|------------------------------|-------|-------------------|
| 1.    | 1119203004 | Johnson Rohan Peter | 8.90 | First Class with Distinction | 3949  | 1<br>(Gold Medal) |

|                                                            |                                           |
|------------------------------------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: B.Tech. Information Technology</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|------------------------------------------------------------|-------------------------------------------|

| S.No. | Reg. No.   | Name          | CGPA | Classification               | Total | Rank              |
|-------|------------|---------------|------|------------------------------|-------|-------------------|
| 1.    | 1119213008 | Jenifa J      | 9.21 | First Class with Distinction | 4019  | 1<br>(Gold Medal) |
| 2.    | 1119213016 | Sivamy A S    | 8.94 | First Class with Distinction | 3967  | 2                 |
| 3.    | 1119213003 | Anu Priya S S | 8.60 | First Class with Distinction | 3720  | 3                 |

|                                                         |                                           |
|---------------------------------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: B.E. Biomedical Engineering</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|---------------------------------------------------------|-------------------------------------------|

| S.No. | Reg. No.   | Name            | CGPA | Classification               | Total | Rank              |
|-------|------------|-----------------|------|------------------------------|-------|-------------------|
| 1.    | 1119204014 | Henna B         | 9.77 | First Class with Distinction | 4363  | 1<br>(Gold Medal) |
| 2.    | 1119204012 | Fathima Jasra M | 9.55 | First Class with Distinction | 4218  | 2                 |
| 3.    | 1120304002 | Muhammed Safir  | 9.24 | First Class with Distinction | 4161  | 3                 |
| 4.    | 1119204008 | Asspy M         | 9.26 | First Class with Distinction | 4129  | 4                 |

|                                                                            |                                           |
|----------------------------------------------------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: B.Tech. Fire Technology and Safety Engineering</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|----------------------------------------------------------------------------|-------------------------------------------|

| S.No. | Reg. No.   | Name       | CGPA | Classification               | Total | Rank          |
|-------|------------|------------|------|------------------------------|-------|---------------|
| 1.    | 1119225020 | Sai Madhav | 9.40 | First Class with Distinction | 4108  | 1(Gold Medal) |
| 2.    | 1119225005 | Alfin S    | 8.86 | First Class with Distinction | 3852  | 2             |
| 3.    | 1119225012 | Athul U    | 8.88 | First Class with Distinction | 3836  | 3             |

|                                                                   |                                           |
|-------------------------------------------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: B.E. Aircraft Maintenance Engineering</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|-------------------------------------------------------------------|-------------------------------------------|

| S.No. | Reg. No.   | Name               | CGPA | Classification               | Total | Rank           |
|-------|------------|--------------------|------|------------------------------|-------|----------------|
| 1.    | 1119228061 | Yogendra Singh     | 9.49 | First Class with Distinction | 3668  | 1 (Gold Medal) |
| 2.    | 1119228045 | Prakhar Awasthi    | 9.28 | First Class with Distinction | 3543  | 2              |
| 3.    | 1119228054 | Shreya Mahato      | 9.23 | First Class with Distinction | 3524  | 3              |
| 4.    | 1119228050 | Sakshi Chaubey     | 9.08 | First Class with Distinction | 3472  | 4              |
| 5.    | 1119228018 | Eravelli Bhavagni  | 9.02 | First Class with Distinction | 3463  | 5              |
| 6.    | 1119228007 | Anil Kumar Gorrela | 9.10 | First Class with Distinction | 3447  | 6              |

|                                                                 |                                           |
|-----------------------------------------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: Bachelor of Business Administration</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|-----------------------------------------------------------------|-------------------------------------------|

| S.No. | Reg. No.   | Name                  | CGPA | Classification | Total | Rank              |
|-------|------------|-----------------------|------|----------------|-------|-------------------|
| 1.    | 1120614031 | Sarishka Bharathy M P | 8.02 | First Class    | 2641  | 1<br>(Gold Medal) |

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: B.Sc. Cyber Forensic</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|--------------------------------------------------|-------------------------------------------|

| S.No. | Reg. No.   | Name                | CGPA | Classification | Total | Rank |
|-------|------------|---------------------|------|----------------|-------|------|
| 1.    | 1120613001 | Jamaludeen Ashraf S | 8.28 | First Class    | 2862  | 1    |

|                                                    |                                           |
|----------------------------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: B.Sc. Forensic Science</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|----------------------------------------------------|-------------------------------------------|

| S.No. | Reg. No.   | Name                | CGPA | Classification               | Total | Rank              |
|-------|------------|---------------------|------|------------------------------|-------|-------------------|
| 1.    | 1120635015 | Varsha V Raj        | 9.46 | First Class with Distinction | 4235  | 1<br>(Gold Medal) |
| 2.    | 1120635006 | Devu S. Santhosh    | 9.29 | First Class with Distinction | 4190  | 2                 |
| 3.    | 1120635005 | Avendika Anil Kumar | 9.27 | First Class with Distinction | 4153  | 3                 |

|                                                                        |                                           |
|------------------------------------------------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: B.Sc. Human Genetics and Molecular Biology</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|------------------------------------------------------------------------|-------------------------------------------|

| S.No. | Reg. No.   | Name                  | CGPA | Classification               | Total | Rank |
|-------|------------|-----------------------|------|------------------------------|-------|------|
| 1.    | 1120604005 | Suhith Mithra S S     | 9.55 | First Class with Distinction | 4326  | 1    |
| 2.    | 1120604003 | Jeni Susan J Varghese | 9.21 | First Class with Distinction | 4161  | 2    |

|                                                           |                                           |
|-----------------------------------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: B.Sc. Cardiac Care Technology</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|-----------------------------------------------------------|-------------------------------------------|

| S.No. | Reg. No.   | Name                | CGPA | Classification               | Total | Rank              |
|-------|------------|---------------------|------|------------------------------|-------|-------------------|
| 3.    | 1119633015 | Sameera Nazeemudeen | 9.04 | First Class with Distinction | 4106  | 1<br>(Gold Medal) |
| 4.    | 1119633019 | Varsha.J            | 8.57 | First Class with Distinction | 3949  | 2                 |
| 5.    | 1119633010 | Fathima L           | 8.63 | First Class with Distinction | 3935  | 3                 |

|                                                             |                                           |
|-------------------------------------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: B.Sc. Renal dialysis Technology</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|-------------------------------------------------------------|-------------------------------------------|

| Sl. No. | Reg. No.   | Name      | CGPA | Classification               | Total | Rank |
|---------|------------|-----------|------|------------------------------|-------|------|
| 1.      | 1119634003 | Liju .J.L | 9.56 | First Class with Distinction | 4346  | 1    |

|                                                        |                                           |
|--------------------------------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: B.Sc. Perfusion Technology</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|--------------------------------------------------------|-------------------------------------------|

| Sl. No. | Reg. No.   | Name              | CGPA | Classification               | Total | Rank              |
|---------|------------|-------------------|------|------------------------------|-------|-------------------|
| 1.      | 1119632006 | Assuaja S Grace   | 9.75 | First Class with Distinction | 4439  | 1<br>(Gold Medal) |
| 2.      | 1119632011 | Meenakshi Jayan S | 8.81 | First Class with Distinction | 3997  | 2                 |
| 3.      | 1119632005 | Anvar Sithara     | 8.49 | First Class with Distinction | 3997  | 2                 |

|                                   |                                           |
|-----------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: BASLP</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|-----------------------------------|-------------------------------------------|

| S.No. | Reg. No.   | Name          | CGPA | Classification               | Total | Rank              |
|-------|------------|---------------|------|------------------------------|-------|-------------------|
| 1.    | 1119636020 | Sany Sunil    | 8.88 | First Class with Distinction | 3178  | 1<br>(Gold Medal) |
| 2.    | 1119636013 | Malavika Lal  | 8.77 | First Class with Distinction | 3130  | 2                 |
| 3.    | 1119636009 | Geethu S Nair | 8.66 | First Class with Distinction | 3088  | 3                 |

|                                                       |                                           |
|-------------------------------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: M.E Communication Systems</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|-------------------------------------------------------|-------------------------------------------|

| S.No. | Reg. No.   | Name                       | CGPA | Classification               | Total | Rank |
|-------|------------|----------------------------|------|------------------------------|-------|------|
| 1.    | 1121510004 | Primrosetina Michaelgeorge | 9.67 | First Class with Distinction | 1655  | 1    |
| 2.    | 1121510003 | Janani S                   | 9.39 | First Class with Distinction | 1573  | 2    |

|                                                      |                                           |
|------------------------------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: M.E. Applied Electronics</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|------------------------------------------------------|-------------------------------------------|

| S.No. | Reg. No.   | Name      | CGPA | Classification | Total | Rank |
|-------|------------|-----------|------|----------------|-------|------|
| 1.    | 1121509001 | Joel Saju | 8.43 | First Class    | 1384  | 1    |

|                                                                         |                                           |
|-------------------------------------------------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: M.E Control and Instrumentation Engineering</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|-------------------------------------------------------------------------|-------------------------------------------|

| S.No. | Reg. No.   | Name                  | CGPA | Classification               | Total | Rank |
|-------|------------|-----------------------|------|------------------------------|-------|------|
| 1.    | 1121511002 | Shameer P R           | 9.30 | First Class with Distinction | 1549  | 1    |
| 2.    | 1121511001 | Periyaswamy Pandian L | 9.11 | First Class with Distinction | 1532  | 2    |

|                                                         |                                           |
|---------------------------------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: M.E. Structural Engineering</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|---------------------------------------------------------|-------------------------------------------|

| S.No. | Reg. No.   | Name               | CGPA | Classification               | Total | Rank              |
|-------|------------|--------------------|------|------------------------------|-------|-------------------|
| 1.    | 1121506004 | Benifha Sherin S R | 9.44 | First Class with Distinction | 1720  | 1<br>(Gold Medal) |
| 2.    | 1121506025 | Sibi M S           | 9.07 | First Class with Distinction | 1624  | 2                 |
| 3.    | 1121506022 | Sarika Krishna K R | 9.01 | First Class with Distinction | 1617  | 3                 |

|                                                    |                                           |
|----------------------------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: M.Tech. Nanotechnology</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|----------------------------------------------------|-------------------------------------------|

| S.No. | Reg. No.   | Name        | CGPA | Classification               | Total | Rank              |
|-------|------------|-------------|------|------------------------------|-------|-------------------|
| 1.    | 1121518003 | Ashika S A  | 10.0 | First Class with Distinction | 1763  | 1<br>(Gold Medal) |
| 2.    | 1121518005 | Hareesh M   | 8.34 | First Class                  | 1426  | 2                 |
| 3.    | 1121518002 | Aravind S K | 7.87 | First Class                  | 1332  | 3                 |

|                                                                    |                                           |
|--------------------------------------------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: M.E. Computer Integrated Manufacturing</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|--------------------------------------------------------------------|-------------------------------------------|

| S.No. | Reg. No.   | Name           | CGPA | Classification               | Total | Rank              |
|-------|------------|----------------|------|------------------------------|-------|-------------------|
| 1.    | 1121523003 | Aravind Asok   | 8.90 | First Class with Distinction | 1529  | 1<br>(Gold Medal) |
| 2.    | 1121523006 | Gowsick R A    | 8.67 | First Class with Distinction | 1480  | 2                 |
| 3.    | 1121523005 | Aswin Nath M G | 8.58 | First Class with Distinction | 1464  | 3                 |

|                                                      |                                           |
|------------------------------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: M.E. Thermal Engineering</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|------------------------------------------------------|-------------------------------------------|

| S.No. | Reg. No.   | Name                 | CGP A | Classification               | Total | Rank              |
|-------|------------|----------------------|-------|------------------------------|-------|-------------------|
| 1.    | 1121522005 | Haja Rasheed Anvar A | 9.12  | First Class with Distinction | 1524  | 1<br>(Gold Medal) |
| 2.    | 1121522003 | Durai Abdul Gani N   | 8.76  | First Class with Distinction | 1503  | 2                 |
| 3.    | 1121522009 | Muhammed Shaifan S   | 8.25  | First Class                  | 1394  | 3                 |

|                                                                    |                                           |
|--------------------------------------------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: M.E Computer Science &amp; Engineering</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|--------------------------------------------------------------------|-------------------------------------------|

| S.No. | Reg. No.   | Name           | CGPA | Classification               | Total | Rank              |
|-------|------------|----------------|------|------------------------------|-------|-------------------|
| 1.    | 1121508003 | Binu Stalin S  | 9.19 | First Class with Distinction | 1818  | 1<br>(Gold Medal) |
| 2.    | 1121508007 | Sneha Pradeep  | 9.10 | First Class with Distinction | 1805  | 2                 |
| 3.    | 1121508001 | Abinеш D Ray R | 8.71 | First Class with Distinction | 1697  | 3                 |

|                                                        |                                           |
|--------------------------------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: M.E Automobile Engineering</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|--------------------------------------------------------|-------------------------------------------|

| S.No. | Reg. No.   | Name            | CGP A | Classification               | Total | Rank              |
|-------|------------|-----------------|-------|------------------------------|-------|-------------------|
| 1.    | 1121503003 | Akhil Prasad    | 9.36  | First Class with Distinction | 1746  | 1<br>(Gold Medal) |
| 2.    | 1121503005 | John C Varghese | 9.01  | First Class with Distinction | 1708  | 2                 |
| 3.    | 1121503002 | Akhil P. M      | 9.11  | First Class with Distinction | 1698  | 3                 |

|                                                               |                                           |
|---------------------------------------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: Master of Business Administration</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|---------------------------------------------------------------|-------------------------------------------|

| S.No. | Reg. No.   | Name                   | CGP A | Classification               | Total | Rank              |
|-------|------------|------------------------|-------|------------------------------|-------|-------------------|
| 1.    | 1121514027 | Amala Aishwarya A      | 8.66  | First Class with Distinction | 2378  | 1<br>(Gold Medal) |
| 2.    | 1121514026 | Alin Probangel R P     | 8.51  | First Class with Distinction | 2334  | 2                 |
| 3.    | 1121514034 | Bala Murugan M         | 8.46  | First Class                  | 2304  | 3                 |
| 4.    | 1121514056 | Jose Aarlin Fernando P | 8.52  | First Class with Distinction | 2302  | 4                 |
| 5.    | 1121514057 | Jose Snega U           | 8.45  | First Class                  | 2280  | 5                 |
| 6.    | 1121514012 | Adlin Shiny T          | 8.73  | First Class with Distinction | 2276  | 6                 |
| 7.    | 1121514002 | Abhilash A S           | 8.24  | First Class                  | 2276  | 7                 |
| 8.    | 1121514019 | Ajmal Sherif           | 8.30  | First Class                  | 2259  | 8                 |

|                                             |                                           |
|---------------------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: M.Sc. Chemistry</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|---------------------------------------------|-------------------------------------------|

| S.No. | Reg. No.   | Name            | CGP A | Classification | Total | Rank              |
|-------|------------|-----------------|-------|----------------|-------|-------------------|
| 1.    | 1121705005 | Shalini S       | 8.39  | First Class    | 1434  | 1<br>(Gold Medal) |
| 2.    | 1121705006 | Subashini X     | 8.36  | First Class    | 1409  | 2                 |
| 3.    | 1121705001 | Ahmed Shafeek M | 8.24  | First Class    | 1399  | 3                 |

|                                           |                                           |
|-------------------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: M.Sc. Physics</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|-------------------------------------------|-------------------------------------------|

| S.No. | Reg. No.   | Name             | CGP A | Classification               | Total | Rank              |
|-------|------------|------------------|-------|------------------------------|-------|-------------------|
| 1.    | 1121720009 | Vidhyakrishna DV | 9.37  | First Class with Distinction | 2031  | 1<br>(Gold Medal) |
| 2.    | 1121720003 | Ani M            | 9.26  | First Class with Distinction | 2021  | 2                 |
| 3.    | 1121720001 | Aiswarya M       | 8.63  | First Class with Distinction | 1890  | 3                 |

|                                               |                                           |
|-----------------------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: M.Sc. Mathematics</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|-----------------------------------------------|-------------------------------------------|

| S.No. | Reg. No.   | Name          | CGPA | Classification               | Total | Rank |
|-------|------------|---------------|------|------------------------------|-------|------|
| 1.    | 1121716002 | Meharunisha M | 8.84 | First Class with Distinction | 1766  | 1    |
| 2.    | 1121716003 | Shyjni K J    | 8.37 | First Class                  | 1673  | 2    |

|                                         |                                           |
|-----------------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: M.A English</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|-----------------------------------------|-------------------------------------------|

| S.No. | Reg. No.   | Name         | CGPA | Classification               | Total | Rank              |
|-------|------------|--------------|------|------------------------------|-------|-------------------|
| 1.    | 1121712007 | Monisha M    | 8.63 | First Class with Distinction | 1628  | 1<br>(Gold Medal) |
| 2.    | 1121712011 | Ummukulusu S | 8.07 | First Class                  | 1495  | 2                 |
| 3.    | 1121712009 | Ramya R      | 7.20 | First Class                  | 1349  | 3                 |

|                                                                        |                                           |
|------------------------------------------------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: M.Sc. Human Genetics and Molecular Biology</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|------------------------------------------------------------------------|-------------------------------------------|

| S.No. | Reg. No.   | Name             | CGPA | Classification               | Total | Rank |
|-------|------------|------------------|------|------------------------------|-------|------|
| 1.    | 1121704001 | JahufarHussain M | 8.57 | First Class with Distinction | 2205  | 1    |

|                                                             |                                           |
|-------------------------------------------------------------|-------------------------------------------|
| <b>Degree &amp; Branch: Master of Computer Applications</b> | <b>Month &amp; Year of Pass: May-2023</b> |
|-------------------------------------------------------------|-------------------------------------------|

| S.No. | Reg. No.   | Name              | CGPA | Classification               | Total | Rank              |
|-------|------------|-------------------|------|------------------------------|-------|-------------------|
| 1.    | 1121507014 | Ashigha J         | 9.41 | First Class with Distinction | 2026  | 1<br>(Gold Medal) |
| 2.    | 1121507028 | Jhonika J         | 9.34 | First Class with Distinction | 2014  | 2                 |
| 3.    | 1121507047 | Siva Bharathi J S | 9.24 | First Class with Distinction | 2008  | 3                 |

## 7. Schedule of Exams / Results : Dec-2022

| Semester |                                                                          | Exams held from ..... to .... | Results Published on |
|----------|--------------------------------------------------------------------------|-------------------------------|----------------------|
| S1       | BE/B.Tech./BBA/B.Sc.-<br>(HG, FS, CS)<br>ME/M.Tech./MBA/MCA/<br>MA/M.Sc. | 20-02-2023 to 27-02-2023      | 08-03-2023           |
| S1       | B.Sc. – CT, PT, RD,<br>BASLP                                             | 15-03-2023 to 21-03-2023      | 30-03-2023           |
| S3       | BE/B.Tech./BBA/B.Com/<br>B.Sc.(HG,FS)/MBA/MCA/<br>M.Sc./MA               | 22-11-2022 to 19-12-2023      | 30-12-2022           |
| S3       | B.Sc. – CT, PT, RD,<br>BASLP                                             | 19-01-2023 to 27-01-2023      | 03-02-2023           |
| S5       | B.Sc. – CT, PT, RD,<br>BASLP                                             | 19-01-2023 to 27-01-2023      | 03-02-2023           |
| S5       | BE/B.Tech./BBA/B.Com/<br>B.Sc.(HG,FS)                                    | 22-11-2022 to 19-12-2023      | 30-12-2022           |
| S7       | BE/B.Tech.                                                               | 22-11-2022 to 19-12-2023      | 30-12-2022           |

---

## 8. Schedule of Exams / Results : May-2023

| Semester |                                                                        | Exams held from ..... to .... | Results Published on |
|----------|------------------------------------------------------------------------|-------------------------------|----------------------|
| S2       | BE,B.Tech,BBA,B.Sc.- CS) ,BBA, BCA,B.Com.ME,M.Tech.,MBA,MCA, M.Sc.,MA, | 07-07-2023 to 19-07-2023      | 28-07-2023           |
| S2       | B.Sc. -( CT, PT, RD,FS, BASLP)                                         | 25-07-2023 to 11-08-2023      | 18-08-3023           |
| S4       | B.E, B.Tech, B.Sc.- (FS, HG, CS), BBA,B.Com,MBA,MCA,M.Sc,MA, ME,M.Tech | 12-05-2023 to 09-06-2023      | 17-06-2023           |
| S4       | B.Sc. – (CT, PT, RD, BASLP)                                            | 25-07-2023 to 11-08-2023      | 18-08-3023           |
| S6       | BASLP                                                                  | 25-07-2023 to 11-08-2023      | 18-08-3023           |
| S6       | B.Sc. – CT, PT, RD                                                     | 14-08-2023 to 25-08-2023      | 02-09-2023           |
| S6       | B.E, B.Tech, B.Sc.-(FS,HG)                                             | 12-05-2023 to 09-06-2023      | 17-06-2023           |
| S8       | BE/B.Tech.                                                             | 28-04-2023 to 09-06-2023      | 17-06-2023           |
| S8       | B.E Marine Engineering                                                 | 14-08-2023 to 25-08-2023      | 02-09-2023           |

## 9. Supplementary Examinations held

| S.No | Dates of holding Examinations | Date of Publication of results |
|------|-------------------------------|--------------------------------|
| 1    | 14-08-2023 to 25-08-2023      | 02-09-2023                     |

## 9, Status on National Academic Depository (NAD)

Uploaded the degree Certificate of the students for the year 2016-2017, 2017-2018, 2018-2019, 2019-2020, 2020-2021, 2021-2022, 2022-2023 in DigiLocker and it is on live to access.

## 10. Any other Information : Nil

**List of Faculty who Attended seminar,webinar,FDP,PDP etc during 2022-23**

| Name of the Faculty                  | Type of Program<br>(FDP/ PDP,<br>Orientation/<br>Induction<br>Programmes,<br>Refresher Course,<br>Short Term<br>Course) | Date                            | Name of the<br>Organising<br>Institution                  |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------------------|
| Prof. I James<br>Dhinakaran Williams | Training                                                                                                                | 12 - 8 -2023.                   | Heka Healthy                                              |
| Prof.P.S.Sherlin Paul                | Training                                                                                                                | 13 - 8 -2023.                   | Heka Healthy                                              |
| Prof.P.S.Sherlin Paul                | Training                                                                                                                | 21.06.2023                      | Knight academy, UK                                        |
| Prof.P.S.Sherlin Paul                | Training                                                                                                                | 16-2-2023                       | NICHE                                                     |
| Prof.P.S.Sherlin Paul                | FDP                                                                                                                     | 19 -12- 2022 to<br>23- 12- 2022 | NICHE                                                     |
| Prof.P.S.Sherlin Paul                | FDP                                                                                                                     | 23.05.2023                      | NICHE                                                     |
| Mary synthya regis<br>prabha         | FDP                                                                                                                     | 14-12- 2022 TO-<br>22 12 2022   | AMET UNIVERSITY                                           |
| Mary synthya regis<br>prabha         | FDP                                                                                                                     | 12-12- 2022 TO-<br>16 12 2022   | INDIAN INSTITUTE<br>OF SCIENCE AND<br>SPACE<br>TECHNOLOGY |
| J Divya Johns                        | FDP                                                                                                                     | 08-05-2023 - 13-<br>05-2023     |                                                           |
| S. Mathan Kumar                      | FDP                                                                                                                     | 19 -12- 2022 to<br>23- 12- 2022 | NICHE                                                     |
| S. Mathan Kumar                      | FDP                                                                                                                     | 28-12-2022 to 3-<br>1--2023     | THEIVANAI AMMAL<br>COLLEGE OF<br>WOMEN                    |
| Karthikeyan L M                      | PDP                                                                                                                     | 30-01-2023 to 03-<br>02-2023    | NITTTRC                                                   |
| Anitta W k                           | FDP                                                                                                                     | 19-12-2022 to 23-<br>12-1022    | NICHE                                                     |
| Dr. J. P. Jayan                      | Training                                                                                                                | 27-03-2023 to 31-<br>03-2023    | ICT Academy                                               |
| Dr. S. Jerine                        | Training                                                                                                                | 27-03-2023 to 31-<br>03-2023    | ICT Academy                                               |
| Dr. V. Alan<br>GowriPhivin           | Training                                                                                                                | 27-03-2023 to 31-<br>03-2023    | ICT Academy                                               |
| Dr. R. I. Heaven Rose                | Training                                                                                                                | 27-03-2023 to 31-<br>03-2023    | ICT Academy                                               |

|                    |          |                          |                                                                      |
|--------------------|----------|--------------------------|----------------------------------------------------------------------|
| Mr. S. Jebin Bose  | Training | 19-08-2022 to 25-08-2022 | Research Foundation of India, RFI-CARE & Arena Animation             |
| Mr. S. Jebin Bose  | FDP      | 4-10-2022 to 8-10-2022   | Dr B R Ambedkar National Institute of Technology, Jalandhar          |
| Dr. J. E. Judith   | FDP      | 1-11-2022 to 5-11-2022   | Shri Vishnu Engineering College for Women (A), Bhimavaram.           |
| Ms. C. R. Jothy    | FDP      | 1-11-2022 to 5-11-2022   | Shri Vishnu Engineering College for Women (A), Bhimavaram.           |
| Dr. J. E. Judith   | FDP      | 28-12-2022 to 2-12-2022  | Dr. M. G.R. Educational and Research Institute, Chennai              |
| Ms. C. R. Jothy    | FDP      | 28-12-2022 to 2-12-2022  | Dr. M. G.R. Educational and Research Institute, Chennai              |
| Mr. G. Jelin Taric | FDP      | 19-12-2022-23-12-2022    | IIC, NICHE                                                           |
| Ms. C. R. Jothy    | FDP      | 19-12-2022-23-12-2022    | IIC, NICHE                                                           |
| Dr. A. Anitha      | FDP      | 20-02-2022 to 24-02-2023 | TechSaksham Program                                                  |
| Dr. J. E. Judith   | FDP      | 1-03-2023 to 5-03-2023   | Shri Vishnu Engineering College for Women (A), Bhimavaram.           |
| Ms. C. R. Jothy    | FDP      | 1-03-2023 to 5-03-2023   | Shri Vishnu Engineering College for Women (A), Bhimavaram.           |
| Dr. J. E. Judith   | FDP      | 27-03-2023 to 2-04-2023  | E & ICT Academy, IIT Kanpur                                          |
| Dr. J. E. Judith   | FDP      | 8-05-2023 to 12-05-2023  | Dr. M. G.R. Educational and Research Institute, Maduravoyal, Chennai |
| Ms. C. R. Jothy    | FDP      | 8-05-2023 to 12-05-2023  | Dr. M. G.R. Educational and Research Institute, Chennai              |

|                    |          |                          |                                                                                                                                                                                 |
|--------------------|----------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dr. J. E. Judith   | FDP      | 15-05-2023 to 19-05-2023 | Dr. M. G.R. Educational and Research Institute, Chennai                                                                                                                         |
| Mr. S. Jebin Bose  | FDP      | 15-05-2023 to 19-05-2024 | Dr. M. G.R. Educational and Research Institute, Chennai                                                                                                                         |
| Ms. C. R. Jothy    | FDP      | 15-05-2023 to 19-05-2025 | Dr. M. G.R. Educational and Research Institute, Chennai                                                                                                                         |
| Dr. J. E. Judith   | FDP      | 22-05-2023 to 26-05-2023 | Dr. M. G.R. Educational and Research Institute, Chennai                                                                                                                         |
| Dr. G. Venifa Mini | FDP      | 22-05-2023 to 26-05-2024 | Dr. M. G.R. Educational and Research Institute, Chennai                                                                                                                         |
| Ms. S. Safrin      | FDP      | 22-05-2023 to 26-05-2023 | Dr. M. G.R. Educational and Research Institute, Chennai                                                                                                                         |
| Ms. C. R. Jothy    | FDP      | 22-05-2023 to 26-05-2023 | Dr. M. G.R. Educational and Research Institute, Chennai                                                                                                                         |
| Dr. G. Venifa Mini | FDP      | 27-03-2023 to 31-03-2023 | ICT Academy                                                                                                                                                                     |
| Dr.M.Murugan       | FDP      | 06-03-2023 to 11-03-2023 | IET Kanyakumari Local Network                                                                                                                                                   |
| Dr.M.Murugan       | Workshop | 18-10-2022 to 22-10-2022 | Centre for Advanced Research on Platelet Signaling and Thrombosis Biology (ICMR), Department of Biochemistry, Institute of Medical Sciences, Banaras Hindu University, Varanasi |
| Dr.M.Murugan       | FDP      | 18-07-2022 to 22-07-2022 | Centre for Biomaterials, Cellular & Molecular Theranostics (CBCMT) at Vellore Institute of Technology (VIT), Vellore                                                            |

|                                  |                  |                          |                                                                                                                        |
|----------------------------------|------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------|
| Mrs.Lisha Daniel                 | FDP              | 12-12-2022 to 17-12-2022 | Department of Biomedical Engineering, Karpagam Academy of Higher Education, Coimbatore                                 |
| Mrs.Lisha Daniel                 | FDP              | 19-12-2022 to 23-12-2022 | IIC, NICHE                                                                                                             |
| Mrs.Lisha Daniel                 | FDP              | 18-01-2023 to 24-01-2023 | Department of Biomedical Engineering, Easwari Engineering College                                                      |
| Mrs.Lisha Daniel                 | FDP              | 17-04-2023 to 26-04-2023 | g.tech medical engineering, Austria                                                                                    |
| Mrs.Lisha Daniel                 | Refresher Course | 1-3-2023 to 15-3-2023    | UGC, HRDC, NEHU, Shillong                                                                                              |
| Mrs.Lisha Daniel                 | FDP              | 26-12-2022 to 31-12-2022 | International fovea-Z Biomedical Association Under the leadership of ATHEENAPANDIA N PRIVATE LIMITED                   |
| Mrs.Lisha Daniel                 | PDP              | 20-11-2023 to 25-11-2023 | Karpagam Academy of Higher Education                                                                                   |
| Mr.Suresh Jeya Singh.C           | FDP              | 27-2-2023 to 4-3-2023    | ICT&IIT KANPUR                                                                                                         |
| Dr. K S Vijula Grace             | FDP              | 14-12-2022 to 22-12-2022 | Association of Indian Universities & AMET university                                                                   |
| Dr. M Mary Synthuja Jain Preetha | FDP              | 19-12-2022 to 23-12-2022 | Institution Innovation Council- NICHE                                                                                  |
| Dr. K. S Vijula Grace            | FDP              | 19-12-2022 to 23-12-2022 | Institution Innovation Council- NICHE                                                                                  |
| Dr. M Mary Synthuja Jain Preetha | FDP              | 06-03-2023 to 11-03-2023 | IET Kanyakumari                                                                                                        |
| Dr. S Amala Shanthi              | FDP              | 10-03-2023 to 10-04-2023 | one-month Internship cum Training program                                                                              |
| Dr. B. Bindhu                    | PDP              | 16-05-2023 to 15-06-2023 | Indira Gandhi National Open University, Staff Training and Research Institute of Distance Education, New Delhi-110068. |

|                             |          |                            |                                                               |
|-----------------------------|----------|----------------------------|---------------------------------------------------------------|
| Dr. B. Bindhu               | FDP      | 24-03-2023 to 04-04-2023   | School of Science and Humanities, Department of Physics,      |
| Dr.V.N. Meena Devi          | FDP      | 24-03-2023 to 04-04-2023   | School of Science and Humanities, Department of Physics,      |
| Dr.C.Sagi Rani              | FDP      | 24-03-2023 to 04-04-2023   | School of Science and Humanities, Department of Physics,      |
| Dr.N.Y.Sugirtha Suni        | FDP      | 12-06-2023 to 16-06-2023   | All India Council for Technical Education (AICTE), New Delhi. |
| Dr.N.Y.Sugirtha Suni        | FDP      | 24-03-2023 to 04-04-2023   | School of Science and Humanities, Department of Physics,      |
| Dr.N.Y.Sugirtha Suni        | FDP      | 19-12-2022 to 23-12-2022   | Institution's Innovation Council, NICHE.                      |
| Ms. P. Asha                 | FDP      | 24-03-2023 to 04-04-2023   | School of Science and Humanities, Department of Physics,      |
| Ms. P. Asha                 | FDP      | 19-12-2022 to 23-12-2022   | Institution's Innovation Council, NICHE.                      |
| Dr.R.Mathusoothana.S .Kumar | FDP      | 27-03-2023 to 31-03-2023   | ICT Academy                                                   |
| Dr.S.Maria Celestin Vigila  | Training | 27-03-2023 to 31-03-2023   | ICT Academy                                                   |
| Dr.M.B.Jayalekshmi          | FDP      | 12-06-2023 to 16-06-2023   | ICT Academy                                                   |
| Dr.T.V.Sindia               | FDP      | 19-12-2022 to 23-12-2022   | NICHE                                                         |
| Dr. R. S. Rimal Isaac       | PDP      | 19-12-2022 to 23-12-2022   | Noorul Islam Centre for Higher Education, Kanyakumari         |
| Dr. R. S. Rimal Isaac       | PDP      | 06-03-2023 to 11-03-2023   | IET Kanyakumari Local Network                                 |
| Mrs.S.Aneesha               | FDP      | 19- 12- 2023 to 23-12-2022 | NICHE                                                         |
| Dr. Anu Kuttan              | FDP      | 19-6- 2023 to 24 - 6-2023  | Lakireddy Balireddy College of Engineering                    |
| Dr.R.Radhika                | FDP      | 17-05-2023 to 24-05-2023   | IQAC of Guhathi University, Assam                             |

|                        |     |                          |                                                                                    |
|------------------------|-----|--------------------------|------------------------------------------------------------------------------------|
| Dr. K. Asha            | FDP | 27-03-2023to 31-03-2023  | Noorul Islam Centre for Higher Education, Kumaracoil, Thuckalay.                   |
| Dr. K. Asha            | FDP | 22-03-2023to 26-03-2023  | School of Management Studies of National Institute of Technology, Calicut, Kerala. |
| Dr. M. Immaculate Mary | FDP | 04-07-2022 to16-07-2022  | Sathyabama Institute of Science and Technology,Chennai                             |
| Dr.K.Uma Samundesvari  | FDP | 26-06-2023 to 30-06-2023 | KG College of Arts and Science,Coimbatore                                          |
| Dr. P. Nageswari       | FDP | 04-07-2022 to 16-07-2022 | Sathyabama Institute of Science and Technology,Chennai                             |
| Dr. P. Nageswari       | FDP | 19-12-2022 to 23-12-2022 | NICHE                                                                              |
| Dr. K. Uma Devi        | FDP | 04-07-2022 to 16-07-2022 | Sathyabama Institute of Science and Technology,Chennai                             |
| Dr. K. Uma Devi        | FDP | 26-06-2023 to 30-06-2023 | KG College of Arts and Science,Coimbatore                                          |
| Dr. D. Sheeba Singh    | FDP | 04-07-2022 to 16-07-2022 | Sathyabama Institute of Science and Technology,Chennai                             |
| Dr. D. Sheeba Singh    | FDP | 09-01-2023 to 13-01-2023 | KG College of Arts and Science,Coimbatore                                          |
| Dr. D. Sheeba Singh    | FDP | 26-06-2023 to 30-06-2023 | KG College of Arts and Science,Coimbatore                                          |
| Dr. M. Sudha           | FDP | 04-07-2022 to 16-07-2022 | Sathyabama Institute of Science and Technology,Chennai                             |

|                       |     |                          |                                                                |
|-----------------------|-----|--------------------------|----------------------------------------------------------------|
| Dr. M. Sudha          | FDP | 26-06-2023 to 30-06-2023 | KG College of Arts and Science, Coimbatore                     |
| G.Victor Jeya Chandra | FDP | 04-07-2022 to 16-07-2022 | Sathyabama Institute of Science and Technology, Chennai        |
| Dr. P.Jeba Sheeja     | FDP | 04-07-2022 to 16-07-2022 | Sathyabama Institute of Science and Technology, Chennai        |
| Dr. P.Jeba Sheeja     | FDP | 26-06-2023 to 30-06-2023 | KG College of Arts and Science, Coimbatore                     |
| C. Saranya            | FDP | 04-07-2022 to 16-07-2022 | Sathyabama Institute of Science and Technology, Chennai        |
| C. Saranya            | FDP | 19-12-2022 to 23-12-2022 | NICHE                                                          |
| C. Saranya            | FDP | 26-06-2023 to 30-06-2023 | KG College of Arts and Science, Coimbatore                     |
| Mr R.Rabin            | FDP | 19-12-2022 to 23-12-2022 | NICHE                                                          |
| Dr T Judson Durai     | FDP | 19-12-2022 to 23-12-2022 | NICHE                                                          |
| Mr P Berlin Push      | FDP | 19-12-2022 to 23-12-2022 | NICHE                                                          |
| Mr Raja S             | FDP | 07-11-2022 to 11-11-2022 | Srinivasa Ramanujan Institute of Technology - Ananthapuramu    |
| Mr Raja S             | FDP | 11-02-2023 to 17-02-2023 | Sri Krishna College of Engineering and Technology - Coimbatore |
| Dr N Ramasamy         | FDP | 27-02-2023 to 04-03-2023 | IIT Kanpur                                                     |
| Mr Raja S             | FDP | 15-05-2023 to 19-05-2023 | Dr. MGR Educational and Research Institute                     |
| Dr N Ramasamy         | FDP | 22-05-2023 to 26-05-2023 | Dr. MGR Educational and Research Institute                     |
| Mr Raja S             | FDP | 08-08-2022 to 13-08-2022 | SRM Ramapuram                                                  |

|                    |                   |                                         |                                                               |
|--------------------|-------------------|-----------------------------------------|---------------------------------------------------------------|
| Dr N Ramasamy      | FDP               | 21-08-2023 to 26-08-2023                | Vignan's Nirula Institute of Technology and Science for Women |
| Dr A Unni Krishnan | FDP               | 21-08-2023 to 26-08-2023                | Madras University Chennai                                     |
| Mr Raja S          | FDP               | 21-08-2023 to 25-08-2023                | H indhusthan College of Arts and Science Coimbatore           |
| Dr. S. S. Kumar    | fdp               | 27-02-2023 to 03-03-2023                | Sri krishna college of technology,coimbatore                  |
| Dr. S. S. Kumar    | fdp               | July 2022 to August 2022                | IBM                                                           |
| Dr. S. S. Kumar    | fdp               | 27-3-2023 to 31-3-2023                  | ICT Academy                                                   |
| Dr. S. S. Kumar    | fdp               | 6-6-2023 to 10-6-2023                   | MVJ College,banglore                                          |
| Dr. S. S. Kumar    | short term course | 4 weeks, Completed on Feb 2 2023        | university of pennsylvania                                    |
| Dr. S. S. Kumar    | short term course | 4 weeks, Completed on June 2 2023       | university of pennsylvania                                    |
| Dr. S. S. Kumar    | short term course | 4 weeks, Completed on March 3 2023      | IBM                                                           |
| Dr. S. S. Kumar    | short term course | 4 weeks, Completed on July 10, 2022     | IBM                                                           |
| Dr. S. S. Kumar    | short term course | 4 weeks, Completed on July 24, 2022     | IBM                                                           |
| Dr. S. S. Kumar    | short term course | 4 weeks, Completed on July 11, 2022     | Deep learning AI                                              |
| Dr. S. S. Kumar    | short term course | 4 weeks, Completed on May 7, 2023       | Deep learning AI                                              |
| Dr. S. S. Kumar    | short term course | 4 weeks, Completed on September 9, 2022 | Deep learning AI                                              |
| Dr. S. S. Kumar    | short term course | 4 weeks, Completed on March 5, 2023     | Deep learning AI                                              |
| Dr. V. Amsaveni    | workshop          | 9-3-2023 to 10-3-2023                   | NICHE                                                         |
| Dr. V. Amsaveni    | FDP               | 27-02-2023 to 03-03-2023                | Greater Kolkata college                                       |

|                      |                   |                            |                                                                |
|----------------------|-------------------|----------------------------|----------------------------------------------------------------|
| Dr. V. Amsaveni      | FDP               | 16-01-2023 to 20-01-2023   | Greater Kolkata college                                        |
| Dr. D. Menaka        | PDP               | 17- 12- 2022               | NICHE                                                          |
| Dr. D. Menaka        | FDP               | 27-02-2023 to 03-03-2023   | Sri krishna college of technology                              |
| Dr. D. Menaka        | workshop          | 9-3-2023 to 10-3-2023      | NICHE                                                          |
| Dr. D. Menaka        | workshop          | 23- 5- 2023                | NICHE                                                          |
| Dr. R. Manju         | short term course | 19-12-2022 to 23-12- 2022  | NICHE                                                          |
| Dr. R. Manju         | workshop          | 9-3-2023 to 10-3-2023      | NICHE                                                          |
| Dr. R. Manju         | PDP               | 17 - 12 -2022              |                                                                |
| Dr. R. Manju         | PDP               | 4 -5 -2023.                | SRM TRP Engineering College                                    |
| Dr. R. Sarath        | workshop          | 9-3-2023 to 10-3-2023      | NICHE                                                          |
| Dr. S. Felix Stephen | FDP               | 22 -7-22 to 24-7-2022      | Vimal Jyothi Engineering College                               |
| Dr. S. Felix Stephen | FDP               | 19-12-22 to 23-12-2022     | NICHE                                                          |
| Dr. S. Felix Stephen | PDP               | 21- 12- 2022.              | Intellectual Property office                                   |
| Dr. S. Felix Stephen | FDP               | 9-3-2023 to 10-3-2023      | NICHE                                                          |
| Dr. S. Binu Sathya   | short term course | 02 -8- 2022 to 04 -8- 2022 | National                                                       |
| Dr. S. Binu Sathya   | short term course | 18-7- 2022 to 20-7- 2022   | National Institute of Disaster Management                      |
| Dr. S. Binu Sathya   | FDP               | 16-7-23 to 20-7 - 2022     | National Institute of Disaster Management and Amity University |
| Dr. S. Binu Sathya   | webinar           | 05.04.2023                 |                                                                |
| Dr. S. Binu Sathya   | FDP               | 4-7-2022 to 8-7-2022       | Greater Kolkata college                                        |
| Dr. S. Binu Sathya   | FDP               | 16-1-23 to 20-1-2023       |                                                                |
| Dr. S. Binu Sathya   | PDP               | 23- 5- 2023.               | NICHE                                                          |
| Dr. S. Binu Sathya   | PDP               | 17-12- 2022.               | NICHE                                                          |
| Dr. S. Binu Sathya   | FDP               | 23-5-23 to 27-5-2023       | Andhra Loyola Institute of Engineering and Technology          |
| Dr. S. Binu Sathya   | FDP               | 27-02-2023 to 03-03-2023   | Sri krishna college of technology                              |

|                    |                   |                          |                                                    |
|--------------------|-------------------|--------------------------|----------------------------------------------------|
| Dr. S. Binu Sathya | workshop          | 9-3-2023 to 10-3-2023    | NICHE                                              |
| Dr. S. Binu Sathya | webinar           | 05.04.2023               | SRM TRP Engineering College                        |
| Dr. S. Binu Sathya | webinar           | 23.06.2023               | SRM Madurai College for Engineering and Technology |
| Dr. S. Binu Sathya | webinar           | 12.04.2023               | SRM Madurai College for Engineering and Technology |
| Dr. S. Binu Sathya | webinar           | 24.01.2023.              | SRM TRP Engineering College                        |
| Dr. S. Binu Sathya | workshop          | 5.12.2023.               | nirmala Memorial Foundation College                |
| Dr. S. Binu Sathya | short term course | 13-12-2022 to 15-12-2022 | National Institute of Disaster Management          |
| Dr. John Leon      | FDP               | 26-06-2023 to 02-07-2023 | PSN College of Engineering and Technology          |
| Dr.K.S.Jai Aultrin | FDP               | 26-06-2023 to 02-07-2023 | PSN College of Engineering and Technology          |
| Mr.Muniaswamy M    | FDP               | 26-06-2023 to 02-07-2023 | PSN College of Engineering and Technology          |
| Dr.V.K.Jebasingh   | FDP               | 26-06-2023 to 30-06-2023 | Kalalam Haranadhareddy Institute of Technology     |
| Dr.V.K.Jebasingh   | FDP               | 25-04-2022 to 27-04-2023 | IIMT College of Polytechnic NOIDA                  |
| Mr.D.PrayGift      | FDP               | 27-03-2023 to 31-03-2023 | PSN Engineering College                            |
| Mr.A.Ramesh        | FDP               | 27-03-2023 to 31-03-2023 | PSN Engineering College                            |
| Dr.V.K.Jebasingh   | FDP               | 06-03-2023 to 17-03-2023 | Massa Maritime Academy                             |
| D,Sudhakar         | FDP               | 19-12-2022 to 23-12-2022 | Institution's Innovation Council- NICHE            |

|                        |     |                           |                                                 |
|------------------------|-----|---------------------------|-------------------------------------------------|
| S.Ninishanela          | FDP | 19-12-2022 to 23-12-2022  | Institution's Innovation Council- NICHE         |
| Dr.T.M.Sharmila        | FDP | 24-03-2023-04-04-2023     | Sathyabama Institute of Science and Technology. |
| Dr.T.M.Sharmila        | FDP | 25-07-2022-30-07-2022     | Eswari Engineering College.                     |
| J. Michael Ahitha Jose | FDP | 24-03-2023-04-04-2023     | Sathyabama Institute of Science and Technology. |
| E.H.Edinsha Gladis     | FDP | 28-02-2023-09-03-2023     | SRM TRP Engineering College Triuchirappai       |
| E.H.Edinsha Gladis     | FDP | 24-03-2023-04-04-2023     | Sathyabama Institute of Science and Technology. |
| D.Arthi                | FDP | 24-03-2023-04-04-2023     | Sathyabama Institute of Science and Technology. |
| Dr. J.R. Jeba          | PDP | 12/17/2022                | Noorul Islam Centre For Higher Education        |
| Dr. J.R. Jeba          | FDP | 27-03-2023 to 31-03-2023  | ICT ACADEMY                                     |
| Dr. S. Beulah          | FDP | 12/17/2022                | Noorul Islam Centre For Higher Education        |
| Dr. S. Beulah          | FDP | 27-03-2023 to 31-03-2023  | ICT ACADEMY                                     |
| Ms. C.R. Sheela Kumari | FDP | 27-03-2023 to 31-03-2023  | ICT ACADEMY                                     |
| Ms. M. Merlin johnsy   | FDP | 27-03-2023 to 31-03-2023  | ICT ACADEMY                                     |
| Ms. M. Merlin johnsy   | FDP | 19-12-2022 to 23-12-2022  | Noorul Islam Centre For Higher Education        |
| Ms. M. Tharanya        | FDP | 27-03-2023 to 31-03-2023  | ICT ACADEMY                                     |
| Dr.J.Raja Brindha      | FDP | 09-12-2022 to 14-12-2022- | Internal quality assurance cell                 |
| Dr.J.Raja Brindha      | FDP | 03-02-2023 to 09-02-2023  | Department of microbiology SH college tamilnadu |

|                         |     |                                             |                                                 |
|-------------------------|-----|---------------------------------------------|-------------------------------------------------|
| Dr.J.Raja Brindha       | FDP | 03-03-2023 to 09-03-2023                    | Internal quality assurance cell                 |
| Dr.J.Raja Brindha       | FDP | 31-03-2023 to 04-05-2023<br>(weekdays only) | NICHE                                           |
| Mrs.T.Subha             | FDP | 09-12-2022 to 14-12-2022-                   | Fathima college tamilnadu                       |
| Dr.N.C.J.Packia Lekshmi | FDP | 09-12-2022 to 14-12-2022-                   | Internal quality assurance cell                 |
| Dr.N.C.J.Packia Lekshmi | FDP | 14-12-2022 to 22-12-22                      | Department of microbiology SH college tamilnadu |
| Dr.N.C.J.Packia Lekshmi | FDP | 03-02-2023 to 09-02-2023                    | Internal quality assurance cell                 |
| Dr.N.C.J.Packia Lekshmi | FDP | 03-03-2023 to 09-03-2023                    | NICHE                                           |

\*\*\*\*\*

  
**Dr. P. THIRUMALVALAVAN,**  
 Registrar,  
 Noorul Islam Center For Higher Education,  
 Kumaracoil- 629 180, Thuckalay,  
 Kanyakumari District

