

Noorul Islam Centre for Higher Education

(Deemed-to-be-University Under Section 3 of the UGC Act, 1956)

Accredited by NAAC with 'A' Grade



The Annual Quality Assurance Report

2018-2019

The Annual Quality Assurance Report (AQAR) of the IQAC
(For Universities)

Part – A

Data of the Institution

(data may be captured from IIQA)

1. Name of the Institution Noorul Islam Centre for Higher Education

- Name of the Head of the institution: Dr. S. Manickam
- Designation: Vice Chancellor
- Does the institution function from own campus: Yes
- Phone no./Alternate phone no. 04651-250467
- Mobile no. 09488249170
- Registered Email info@niuniv.com
- Alternate Email vc@niuniv.com
- Address : Noorul Islam Centre for Higher Education
- City/Town : Kumaracoil, Thuckalay
- State/UT : Tamilnadu
- Pin Code : 629180

2. Institutional status:

- University: State/Central/Deemed/Private: Deemed
(Tick appropriate)
- Type of Institution: Co-education/Men/Women: Co-education
- Location : Rural/Semi-urban/Urban: Rural
- Financial Status: Centrally funded/state funded/Private: Private
(please specify)
- Name of the IQAC Co-ordinator/Director: Dr. R. Mathusoothana S Kumar
- Phone no. /Alternate phone no. : 04651-250566

- Mobile: 9486856119, 9894333510
- IQAC e-mail address: iqac@niuniv.com
- Alternate Email address:rmssk@niuniv.com

3. Website address: www.niuniv.com

Web-link of the AQAR: (Previous Academic Year): www.niuniv.com/iqac

4. Whether Academic Calendar prepared during the year?

Yes/No....., if yes, whether it is uploaded in the Institutional website: Yes

Weblink: <http://www.niuniv.com/files/academic-schedule.pdf>

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1 st	A	3.06	2015	from:Nov.162015to: Nov. 15 2020
2 nd				from:to:
3 rd				from:to:
4 th				from: to:
5 th				from: to:

6. Date of Establishment of IQAC: DD/MM/YYYY: 22-08-2012

7. Internal Quality Assurance System

7.1Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & duration	Number of participants/beneficiaries
Academic & Administrative Audit by IQAC	20-05-2019,14 days	20
Regular meeting of Internal Quality AssuranceCell (IQAC)	05-10-2018	18
Regular meeting of Internal Quality Assurance Cell (IQAC)	24-01-2019	18
Regular meeting of Internal Quality Assurance Cell (IQAC)	13-05-2019	18
NIRF Participation	19/09/2018, 3 months	20

Note: Some Quality Assurance initiatives of the institution are:

(Indicative list)

- Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback from all stakeholders collected, analysed and used for improvements
- Academic Administrative Audit (AAA) conducted and its follow up action
- Participation in NIRF
- ISO Certification
- NBA etc.
- Any other Quality Audit

8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/ Department/Faculty	Scheme	Funding agency	Year of award with duration	Amount
Institution Innovation Council	MIC Govt. of India	MHRD	2018	-
NICHE/Nanotechnology	FIST	DST	2017 (2017-2022)	77,00,000/-

9. Whether composition of IQAC as per latest NAAC guidelines: Yes

*upload latest notification of formation of IQAC

10. No. of IQAC meetings held during the year:3

The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website.....

Yes/No Yes

(Please upload, minutes of meetings and action taken report)

11. Whether IQAC received funding from any of the funding agency to support its activities during the year? No

If yes, mention the amount: Year:

12. Significant contributions made by IQAC during the current year (maximum five bullets)

*Motivating the staff to participate in seminars, NPTEL workshops and to apply projects

*Motivating students to participate in seminars, workshops, various cultural activities, games & sports.

*Strengthening the laboratories

*Motivating the staff members to conduct International Conferences

*Conducting regular internal academic audit

13. Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year

Plan of Action	Achievements/Outcomes
Academic & Administrative audit	The Academic & Administrative Audit, helped to improve the quality of teaching-learning process, and other activities also improved
MOOC and SWAYAM Courses	The participation of faculty and students in online courses significantly increased.
Improvement in Research	Number of Publications and Quality of Publications increased.
Target set for research publications per faculty	Individual faculty members are motivated to contribute with more publications.
Outcome Based Education	Outcome Based Education is implemented with PEO, PSO, PO, CO and Course attainment
Formation of Innovation Cell	Innovation cell is formed and activities were carried out.

14. Whether the AQAR was placed before statutory body? Yes /No: Yes

Name of the statutory body: Board of Management Date of meeting(s): 24-07-2019

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to Assess the functioning?

Yes/No: No

Date: -

16. Whether institutional data submitted to AISHE: Yes/No: Yes

Year: 2019

Date of Submission: 09-03-2019

17. Does the Institution have Management Information System?

Yes

If yes, give a brief description and a list of modules currently operational. (Maximum 500 words)

The scope of the Management Information System is to manage:

a) The complete life cycle of admission process at NICHE

b) The information related to students, their attendance, performance, marks both (internal & External) their extracurricular activities, etc.

c) The information related to curriculum and teaching activities by the faculties including the selection of faculty for a subject, setting up timetable schedules for various subjects, creating a subject covering plan, updating the subject covered plan.

d) The various examinations held by the Controller of Examinations (Here after this will be called as CoE) and the respective departments for their serial tests and allocation of marks according to attendance.

- e) The generation of journals for student payables(fees and fines) and collecting thesepayables.
 - f) Capturing various purchase details and posting them into their respective accountheads like fixed assets and consumables.
 - g) Fixed assets, creating depreciation books, attaching service journals to these assets, writing off unusable assets.
 - h) The complete life cycle of Purchases, right from capturing the requisition from the department, identifying the vendors, demanding RFP/Quote, selecting the vendor, negotiating and releasing the PO and finally managing the vendor payment journal.
 - i) Banks, their transaction and making BRS at various intervals
 - j) Creation of various documents like income & expense statement, balance sheet and year end closure process.
 - k) Integration of financial details to the centralized server from the existing Library software in place (this will be done in consultation with the vendor of the library management software).
- The general project scope comprises of
- Creation of various levels of users with different level of access system though a system generated global admin user
 - The interface should be simple, clean and web based, intuitive to use, light weight and provides for less network traffic
 - Parallel to the existing system, a document management system will be installed to store, manage versions of document and metadata, setting access rights and setting up a well-defined workflow process control
 - The server technologies should be scalable to handle large volume of data in the Future

Part-B

CRITERION I – CURRICULAR ASPECTS			
1.1 Curriculum Design and Development			
1.1.1 Programmes for which syllabus revision was carried out during the Academic year			
Name of programme		Programme Code	Dates of revision
BE Aeronautical Engineering		AE22	17-05-2019
BE Aircraft Maintenance Engineering		AC22	24-05-2019
BE Civil Engineering		CV22	10-05-2019
B.E Computer Science and Engineering		CS22	07-05-2019
BE Electrical and Electronics Engineering		EE22	27.04.2019
BE Electronics and Instrumentation Engineering		EI22	04.05.2019
B.E. Mechanical Engineering		ME22	11-05-2019
B.Tech Information Technology		IF22	29-04-2019
B.Tech Nano Technology		NT22	04-05-2019
B.E. Biomedical Engineering		BM22	17-5-2019
M.A. English		EG26	06-05-2019
M.Phil. English		EG27	06-05-019
1.1.2 Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year			
Programme with Code	Date of Introduction	Course with Code	Date of Introduction
BE - Aerospace Engineering ASE22	4-7-2018	AS2208 – High Speed Aerodynamics	11-5-2019
	4-7-2018	AS2207 – Aerospace Propulsion I	
	4-7-2018	AS2210 – Aerospace Production Techniques	
	4-7-2018	AS2209 – Flight Dynamics	
	2-1-2019	AS2211 – Aerospace Propulsion II	
	2-1-2019	AS2212 – Heat Transfer in Space plications	
	2-1-2019	AS22A2 – Applied Orbital Mechanics	
B.E. Biomedical Engineering BM22	4-7-2018	BM220 - Biomedical Instrumentation	17-5-2019
	4-7-2018	BM2276 - Microprocessor & Microcontroller Laboratory.	
	4-7-2018	BM2209 - Microprocessor and Microcontroller in Medical Applications .	
	2-1-2019	BM2213 - Bio Signal Processing	
	2-1-2019	BM2211 - Medical Imaging Equipment.	
M.E. Civil Engineering CV25	4-7-2018	CV25E19 – Computer Aided Design of Structures	10-5-2019
	4-7-2018	CV2520 – Steel Structures	
	4-7-2018	CV25E21 – Advanced Concrete Technology	
BE - Aeronautical Engineering AE22	4-7-2018	AE2207 – Aerodynamics II	17-05-2019
	4-7-2018	AE2208 – Propulsion I	
	4-7-2018	AE2210 – Aircraft Design	
	2-1-2019	AE22A1 – Aero Engines Maintenance & Repair	
B.E Computer Science and Engineering CS22	4-7-2018	CS22B3 – Machine Learning Techniques	7-5-2019
	4-7-2018	CS22B2 – Cyber Forensics	
	2-1-2019	CS22B4 – Internet of Things	
	2-1-2019	CS22C1 – Deep Learning	

	2-1-2019	CS22B5 – Big Data Analysis	
BE Electrical and Electronics Engineering EE2	2-1-2019	EE22B1 – Smart Grid	02-02-2019
	4-7-2018	EE22B3 – Special Electrical MICS	
	4-7-2018	EE22B2 – Renewable Energy Sources	
	2-1-2019	EE22A4 – Principles of Robotics	
BE Electronics and Instrumentation Engineering EI22	4-7-2018	EI2207 – Virtual Instrumentation	04-05-2019
	2-1-2019	EI22A1 – Robotics and Automation	
	4-7-2018	EI22A4 – Machine Vision	
	4-7-2018	EI22A7 – Artificial Intelligence for Robotics	
	2-1-2019	EI22B5 – Instrumentation in Petrochemical Industries	
BE Mechanical Engineering ME22	4-7-2018	EI22B6 – Industrial Automation	11-5-2019
	4-7-2018	ME22A9 - Artificial Intelligence and Robotics	
	4-7-2018	ME22B1 - Cloud Computing	
	4-7-2018	ME2214 - Design of Machine Elements	
	2-1-2019	ME2220 - Mechatronics	
	4-7-2018	ME2218 - Mechanical Measurements and Metrology	

1.2 Academic Flexibility

1.2.1 New programmes/courses introduced during the Academic year

Programme	Course	Date of introduction
BE - Aerospace Engineering	AS22A2 - Applied Orbital mechanics AS22A3 - Theory of Vibration AS22A1 – Industrial Aerodynamics	11-05-2019
BE - Aircraft Maintenance Engineering	SEMESTER II EG2102Technical English – II MA2102Engineering Mathematics – II BS2103Environmental Science ME2201Engineering Graphics ME2205Engineering Mechanics AC2201Aircraft General Engineering and Maintenance Practices PRACTICALS AC2271Aircraft Component Drawing AC2272Airframe Repair and Maintenance Laboratory SEMESTER III MA2201Engineering Mathematics - III AC2204Maintenance Practices-I AC2205Basic Aerodynamics AC2206Human Factors AC2207Aviation Legislation – I AC2208Aviation Legislation – II SEMESTER IV MA2203Numerical Methods AC2209Electrical Fundamentals-I AC2210Materials and Hardware-I AC2211Aviation Legislation - III AC2212Turbine Aeroplane Aerodynamics, Structures and Systems-I SEMESTER V	24-05-2019

	MS2202 Professional and Business Ethics AC2214 Electrical Fundamentals-II AC2215 Materials and Hardware-II AC2216 Turbine Aeroplane Aerodynamics, Structures and Systems-II SEMESTER VI IT2216 Cyber Security AC2218 Electronic Fundamentals AC2219 Dynamics of Aircraft Flights AC2219 Maintenance Practices – III AC2220 Gas Turbine Engine-II SEMESTER VII MS2203 Principles of Management AC2222 Propeller AC2223 Piston Engine Maintenance AC2224 Digital Techniques AC2225 Electronic Instrument Systems AC2226 Turbine Aeroplane Avionic Systems	
B.E – Computer Science Engineering	Big Data Analytics-CS25B4 Internet Of Things-CS25B5 Deep Learning-CS25B7 Security Principles & Practices-CS25B8 Nano Computing-CS25A9 Information Retrieval Techniques-CS25B1 Soft Computing-CS25B2	25-5-2018
	Fundamentals of Embedded Systems-CS22A4 Graph Theory and Applications- CS22A5	7-5-2019
BE - Electronics and Instrumentation Engineering	EI2202 Electronic Devices and Circuits EE2220 Electrical Machines EI2216 Circuit Theory EI2203 Measurements and Instrumentation	04-07-2018
	IT2204 Data Structures ME2227 Thermodynamics and Fluid Mechanics EI2204 Transducer Engineering EI2205 Linear Integrated Circuits EI2206 Digital Logic Circuits	02-01-2019
BE – Mechanical Engineering	ME22D8 - Rapid Manufacturing Technology, ME22D9 - Instrumentation and control, ME22E1 - Design of Jigs Fixture and Press Tools	11-05-2019
B.Tech- Information Technology	IT2211-Cyber security Fundamentals IT2219-Embedded Systems IT2281-Cyber Security Laboratory IT2282- Embedded Systems Laboratory IT22C1-Cyber Forensics and Incident Response IT22C2-Access control Infrastructure IT22C3-Cyber Security and Forensic Tools IT22C4-Cyber Law and Cyber Crime Investigation IT22C5-Ethical Hacking IT22C6- Intrusion Detection and Prevention Systems. IT22C7-Big Data Analytics and Data Security IT22C8-Digital Watermarking and	29-04-2019

		Steganography. IT22C9-Risk assessment and Security Audit IT22C0-Biometric Image Processing.		
1.2.2 Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the University level during the Academic year.				
Name of Programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS / Elective Course System	UG	PG
B.E	Aeronautical Engineering	04/07/2018	-	-
B.E	Aerospace Engineering	04/07/2018		
B.E	Aircraft Maintenance Engineering	04/07/2018		
BE	Automobile Engineering	04/07/2018		
B.E	Biomedical Engineering	04/07/2018		
BE	Civil Engineering	04/07/2018		
B.E	Computer Science and Engineering	04/07/2018		
B.E	Electrical and ElectronicsEngineering	04/07/2018		
B.E	Electronics and Communication Engineering	04/07/2018		
B.E	Electronics and Instrumentation Engineering	04/07/2018		
B.E	Marine Engineering	04/07/2018		
B.E.	Mechanical Engineering	04/07/2018		
B.Tech	Fire Technology and Safety Engineering	04/07/2018		
B.Tech	Information Technology	04/07/2018		
B.Tech	NanoTechnology	04/07/2018		
BBA	Bachelor of BusinessAdministration	04/07/2018		
B. Com	Bachelor ofCommerce	04/07/2018		
M.E	Aeronautical Engineering	04/07/2018		
M.E	Communication Systems	04/07/2018		
M.E	Computer IntegratedManufacturin g	04/07/2018		
M.E	Computer Science andEngineering	04/07/2018		
M.E.	Cyber Security	04/07/2018		
ME	Structural Engineering	04/07/2018		
M.E.	Thermal Engineering	04/07/2018		
M.E.	Automobile	04/07/2018		

	Engineering			
M.Tech.	Nanotechnology	04/07/2018		
MCA	Master of Computer Applications	04/07/2018		
MBA	Master of Business Administration	04/07/2018		
M.A.	English	04/07/2018		
M.Sc.	Physics	04/07/2018		
M.Sc.	Chemistry	04/07/2018		
M.Sc.	Mathematics	04/07/2018		
M.Sc.	Human Genetics and Molecular Biology	04/07/2018		
M.Phil	Physics	04/07/2018		
M.Phil.	Chemistry	04/07/2018		
M.Phil.	Mathematics	04/07/2018		
M.Phil.	English	04/07/2018		
M.Phil.	Management Studies	04/07/2018		
M.Phil.	Computer Science	04/07/2018		
M.Phil.	Biotechnology	04/07/2018		
B.Sc.	Perfusion Technology	04/07/2018		
B.Sc.	Cardiac care Technology	04/07/2018		
B.Sc.	Renal Dialysis Technology	04/07/2018		
B.Sc.	Forensic science	04/07/2018		
B.Sc.	Human genetics and Molecular Biology	04/07/2018		

1.3 Curriculum Enrichment

1.3.1 Value-added courses imparting transferable and life skills offered during the year

Value added courses	Date of introduction	Number of students enrolled
Aeromodeling	2/5/2019	20
Catia V5	11/3/2019	30
Solidworks	21-10-2019	30
Robotics and Automobile Applications	3/10/2018	68
Automobile Technology and advanced Diagnostics By Tech savio	29-10-2019	68
Emergency Life Support Training Program at NIMS MEDICITY	14-09-2018	49
Robots application in Safety Field” Organized by AGAPE Techno Solution	11-10-2018.	49
Fire Fighting and Field training	11/12/2018	65
Industrial Safety and First aid Training Program by Saadhana Health & safety ,Chennai	19-02- 2019,20-02-2019	74

Fire Fighting & Rescue Methods Training by Fire & Rescue Service, TamilNadu	27-03- 2019	50
PAS2201- Aptitude Skill Phase I	11-02-2019	98
PAS2202- Aptitude Skill Phase II	08-08-2018	103
PAS2203- Aptitude Skill Phase III	08-08-2018	75
PAS2204- Aptitude Skill Phase IV	11-02-2019	67
PRS2201- Reasoning Skill Phase I	08-08-2018	98
PRS2202- Reasoning Skill Phase II	11-02-2019	104
PRS2203- Reasoning Skill Phase III	08-08-2018	67
PSS2201- Soft Skills Phase I	08-08-2018	98
PSS2202- Soft Skills Phase II	11-02-2019	103
PSS2201- Soft Skills Phase III	08-08-2018	67
PSK2201- Software Skill Phase I	08-08-2018	74
PSK2202- Software Skill Phase II	11-02-2019	92
PFL201 – French Language Phase I	08-08-2018	98
PFL202– French Language Phase II	11-02-2019	104
PFL203 – French Language Phase III	08-08-2018	78
PFL204 – French Language Phase IV	11-02-2019	67

1.3.2 Field Projects / Internships under taken during the year

Project/Program me Title	Program Specialization	No. of students enrolled for Field Projects / Internships
B.E	Aeronautical Engineering	12
B.E	Automobile Engineering	15
B.E	Bio-Medical Engineering	30
B.E	Computer Science and Engineering	10
B.E	Electrical and Electronics Engineering	3
B.E	Electrical and Instrumentation	8
B.Tech	Fire Technolgy and Safety Engineering	28
B.Tech	Information Technology	2
B.Tech	Nano Technology	2
B.Sc	Forensic Science	21
MCA	Computer Application	21
M.Sc	Software Engineering	15
M.Sc	Chemistry	16
MBA	Master of Business Admistration	36

1.4 Feedback System

1.4.1 Whether structured feedback received from all the stakeholders.

1) Students	2) Teachers	3) Employers	4) Alumni	5) Parents
Yes	Yes	Yes	Yes	Yes

1.4.2 How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

The feedback from students is obtained by distributing structured questionnaires to students by the coordinator in each class. For each semester, two feedbacks were received from the students and the

performance of the teaching staffs were analyzed and compared. The student feedback questionnaire consists of 14 different questions to effectively measure the teachers' performance inside the class. The following parameters are measured using the questionnaire: knowledge of teacher in the subject, clarity and understand ability of teachers explanations, teachers willingness to help, regularity in engaging classes, whether the teacher dictates notes only without explanation, teachers ability to organize lectures, speed of presentation, does the teacher encourage questioning, behaviour of the teacher, use of black board, sincerity of the teacher, norms of valuation of test and assignments, promptness in valuing test and assignments, overall teaching effectiveness of the teacher. After analyzing all these parameters, staffs with poor feedback were called and corrective measures will be discussed with the concerned staff to improve the teaching methods effectively.

The constructive measures are taken to implement for the enrichment of curriculum and syllabus. Staff members are being given the privilege to express their own ideas, technical information regarding recent advancement in the field of Engineering to constitute quality syllabus and curriculum in a nutshell. The inclusion of Experts from Industries and other Academic bodies helps in the form of course development and its orientation. Very often we conduct alumni meeting. Based on the input received from the alumni we tune the course contents in such a way to full fill the Industry requirements.

The feedback obtained from the parents mainly concerns about the results and employability. To improve the results, extra coaching for poor students was arranged. A general timetable will be done for these poor students and they can approach the concerned teachers.

After collecting the feedback from the stakeholders it will be analysed and the suggestions will be discussed in the upcoming BoS and appropriate corrections and additions will be implemented in the syllabus as per the recommendations of the BoS members.

CRITERION II -TEACHING-LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

2.1. 1 Demand Ratio during the year

Name of the Programme	Number of seats available	Number of applications received	Students Enrolled
BE Aeronautical Engineering	60	28	20
BE Aerospace Engineering	60	16	12
B.E Aircraft Maintenance Engineering	60	39	30
BE Automobile Engineering	60	16	11
B.E Biomedical Engineering	60	70	53
BE Civil Engineering	60	43	35
B.E-Computer Science andEngineering	60	27	22
BE Electrical and ElectronicsEngineering	60	18	14
BE Electronics andCommunication Engineering	90	15	12
BE Electronics andInstrumentation Engineering	60	17	11
BE Marine Engineering	60	10	11
B.E.Mechanical Engineering	60	83	63
B.Tech Fire Technology andSafety Engineering	60	36	27
B.Tech Information Technology	60	26	22
B.Tech NanoTechnology	60	6	03
BBA (Bachelor of BusinessAdministration)	40	53	47
B. Com (Bachelor ofCommerce)	40	21	15
M.E Aeronautical Engineering	18	5	03
M.E Communication Systems	25	7	04
M.E Computer IntegratedManufacturing	18	8	03
M.E Computer Science andEngineering	25	10	07

M.E. Cyber Security	18	3	02
ME Structural Engineering	18	24	19
M.E. Thermal Engineering	18	5	02
M.E. Automobile Engineering	18	4	01
M.Tech. Nanotechnology	18	4	02
MCA - Master of Computer Applications	60	31	27
MBA - Master of Business Administration	60	52	40
M.A. English	30	14	08
M.Sc. Physics	30	27	21
M.Sc. Chemistry	30	12	07
M.Sc. Mathematics	30	06	04
M.Sc. Human Genetics and Molecular Biology	30	07	04
M.Phil Physics	7	10	06
M.Phil. Chemistry	6	08	05
M.Phil. Mathematics	20	09	06
M.Phil. English	7	14	08
M.Phil. Management Studies	12	08	04
M.Phil. Computer Science	47	15	10
M.Phil. Biotechnology	4	3	01
B.Sc. Perfusion Technology	40	70	42
B.Sc. Cardiac care Technology	40	50	34
B.Sc. Renal Dialysis Technology	40	55	44
B.Sc. Forensic science	40	72	51
B.Sc. Human genetics and Molecular Biology	40	17	10
M.sc. Software Engineering	18	03	01

2.2 Catering to Student Diversity

2.2.1. Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of full time teachers available in the institution teaching only UG courses	Number of full time teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018-2019	589	195	-	18	252

2.3 Teaching - Learning Process

2.3.1 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of teachers on roll	Number of teachers using ICT (LMS, e-Resources)	ICT tools and resources available	Number of ICT enabled classrooms	Number of smart classrooms	E-resources and techniques used
270	200	Data Projector Recording hardware/software for podcasting	33	22	Database of journal and book chapter sites, Online course and data sources, NPTEL, National

					Digital Library, ppt, pdf, Videos, e- journals, e-articles, E- Books
2.3.2 Students mentoring system available in the institution? Give details. (maximum 500 words)					
Teaching-learning process includes mentoring system, in which, around 20 students are assigned to a faculty. The faculty closely monitors the students and meets their academic, personal and psychological needs. The students who are at the risk of failure and dropout are given motherly guidance by the Mentor System. The roles and responsibilities of mentor are					
- The mentor keeps track of the student's attendance, academic performance, behavior and personal problems. - The mentors contact parents if any student is on long leave without proper information. - They keenly monitor the Internal Assessment Test marks and end-semester examination marks and guide them to score good marks in the end-semester examinations. - Mentors meet the students periodically; they identify their problems and help the students to solve the problems. - Students who are at the risk of dropout are counseled by the mentors by one to one meeting. - Parents/Guardian of such students is consulted and together with the faculty, the problems of such students are analysed. - If the problem is not solved, then it is brought to the Department Head and to the Head of the Institution.					
Number of students enrolled in the institution		Number of fulltime teachers		Mentor: Mentee Ratio	
2391		270		1:19	

2.4 Teacher Profile and Quality				
2.4.1 Number of full time teachers appointed during the year				
No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
270	232	38	38	13
2.4.2 Honours and recognitions received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)				
Year of award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies	
2019	Dr. S. Vinila Jinny	Associate Professor	Outstanding Staff Achiever	
2019	Dr. R. Chitra	Associate Professor	Outstanding Staff Achiever	
2019	Dr. A.M. Anusha Bamini	Assistant Professor	Outstanding Staff Achiever	
2018	Dr.S.S.Kumar, ,International level	Associate Professor	Outstanding Contribution in Reviewer of Elsevier Journals	
2019	Dr.N.Santhi	Associate Professor	RULA AWARDS- Best Researcher in Satellite Image Processing	
2019	Mrs.C.P.Dalmiya	DST-INSPIRE-Full Time Research scholar	RULA AWARDS- Best Researcher in Satellite Image Processing	
2019	Dr.M.P.Flower Queen	Associate Professor	Elite certificate of award for the successfully completing the NPTEL online course on the Signals and system	

2019	Dr. K. Uma Samundesvari	Associate Professor	Outstanding Academic Achiever award NIMS Medicity.
2018	Dr. K. Uma Samundesvari	Associate Professor	SET for Associate Professor conducted by Mother Teresa University, Government of Tamilnadu.
2019	Dr. D. Sheeba Singh	Assistant Professor	NPTEL-Elite- Funded by the Ministry of HRD, Govt. of India
2019	Mr. G. Victor Jeya Chandra	Assistant Professor	NPTEL-Elite- Funded by the Ministry of HRD, Govt. of India
2019	Dr. R. Binthiya	Assistant Professor	Elite-Gold Medal(NPTEL) – Funded by the Ministry of HRD, Govt. of India
2019	Dr. M. Sudha	Assistant Professor	NPTEL-Elite- Funded by the Ministry of HRD, Govt. of India
2019	Dr. K. Uma Samundesvari	Associate Professor	Elite-Silver Medal(NPTEL) – Funded by the Ministry of HRD, Govt. of India
2019	Dr. R. Binthiya	Assistant Professor	Outstanding Academic Achiever award NIMS Medicity.
2019	Dr. D. Sheeba Singh	Assistant Professor	Outstanding Academic Achiever award NIMS Medicity.
2019	Dr. M. Sudha	Assistant Professor	Outstanding Academic Achiever award NIMS Medicity.
2019	Mr. G. Victor Jeya Chandra	Assistant Professor	Outstanding Academic Achiever award NIMS Medicity.
2019	Mrs. P. Jeba Sheeja	Assistant Professor	Outstanding Academic Achiever award NIMS Medicity.
2018	Dr.S. Balamurugan	Professor	Outstanding Reviewer by the Elsevier publisher
2018	Dr.R.Ganapathi Raman	Assistant Professor	Elsevier Reviewer Recognition for VACUUM (outstanding contribution in reviewing)
2018	Dr.R.Ganapathi Raman	Assistant Professor	Elsevier Reviewer Recognition for VACUUM (outstanding contribution in reviewing)
2018	Dr.R.Ganapathi Raman	Assistant Professor	Elsevier Reviewer Recognition for CHINESE JOURNAL OF PHYSICS(outstanding contribution in reviewing)
2019	Dr.N.Abilash	Associate Professor	Certificate of excellence and honour for outstanding staff achiever.
2019	Dr.R.Mathusoothana.S.Kumar	Professor & Head	Elite-Gold Medal (NPTEL)NPTEL – AICTE FDP Funded by the Ministry of HRD, Govt. of India
2019	Dr.S.Maria Celestin Vigila	Associate Professor	Elite-Silver Medal(NPTEL)NPTEL – AICTE FDP Funded by the Ministry of HRD, Govt. of India
2019	Dr.S.Palanikumar	Associate Professor	Elite-Gold Medal(NPTEL)NPTEL – AICTE FDP Funded by the Ministry of HRD, Govt. of India
2019	Dr.R.Mathusoothana.S.Kumar	Professor & Head	Outstanding Staff Achiever award NIMS Medicity.
2019	Dr.S.Maria Celestin Vigila	Associate Professor	Outstanding Staff Achiever award NIMS Medicity.
2019	Dr.S.Palanikumar	Associate Professor	Outstanding Staff Achiever award NIMS Medicity.
2019	Dr.G.M.Joselin herbert	Professor	Best Reviewer by the journal PLOS one
2019	Dr.G.M.Joselin herbert	Professor	Reviewer certificate from the journal of Energy institute
2019	Dr.G.M.Joselin herbert	Professor	Best track paper award from IEEE advance technology for humanity for the significant contribution to track on energy and power system for the paper titled energy analysis and projected attributes of sustainable retrofits:a case study at saintgits

2019	Dr.G.M.Joselin herbert	Professor	Elite certificate of award for the successfully completing the NPTEL online course on the steam and gas power systems.
2019	Dr.G.M.Joselin herbert	Professor	Elite certificate of award for the successfully completing the NPTEL online course on 'Selection of Nanomaterials for Energy Harvesting and Storage Application'.

2.5 Evaluation Process and Reforms

2.5.1 Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year- end examination	Date of declaration of results of semester-end/ year- end examination
B.E (Aeronautical)	AE22	03/02	21-01-2019	15-03-2019
	AE12	05/03	14-12-2018	15-03-2019
	AE12	07/04	12-12-2018	26-02-2019
	AE22	02/01	01-7-2019	04-09-2019
	AE22	04/02	25-05-2019	04-09-2019
	AE12	06/03	24-05-2019	04-09-2019
	AE12	08/04	29-04-2019	21-08-2019
BE (Aerospace)	AS22	03/02	21-01-2019	15-03-2019
	AS12	05/03	13-12-2018	15-03-2019
	AS12	07/04	07-12-2018	26-02-2019
	AS22	02/01	01-07-2019	04-09-2019
	AS22	04/02	27-05-2019	04-09-2019
	AS12	06/03	24-05-2019	04-09-2019
	AS12	08/04	29-04-2019	21-08-2019
BE (Automobile)	AM22	03/02	20-12-2018	15-03-2019
	AM12	05/03	13-12-2018	15-03-2019
	AM12	07/04	07-12-2018	26-02-2019
	AM22	02/01	01-07-2019	04-09-2019
	AM22	04/02	27-05-2019	04-09-2019
	AM12	06/03	24-05-2019	04-09-2019
	AM12	08/04	30-04-2019	21-08-2019
B.E (Biomedical)	BM22	03/02	20-12-2018	15-03-2019
	BM12	05/03	13-12-2018	15-03-2019
	BM12	07/04	12-12-2018	26-02-2019
	BM22	02/01	01-07-2019	04-09-2019
	BM22	04/02	25-05-2019	04-09-2019
	BM12	06/03	24-05-2019	04-09-2019
	BM12	08/04	29-04-2019	21-08-2019
BE (Civil)	CV22	03/02	20-12-2018	15-03-2019
	CV12	05/03	13-12-2018	15-03-2019
	CV12	07/04	12-12-2018	26-02-2019
	CV22	02/01	01-07-2019	04-09-2019
	CV22	04/02	25-05-2019	04-09-2019
	CV12	06/03	24-05-2019	04-09-2019
	CV12	08/04	29-04-2019	21-08-2019
B.E-(Computer Science)	CS22	03/02	21-01-2019	15-03-2019
	CS12	05/03	13-12-2018	15-03-2019
	CS12	07/04	07-12-2018	26-02-2019
	CS22	02/01	01-07-2019	04-09-2019
	CS22	04/02	23-05-2019	04-09-2019
	CS12	06/03	24-05-2019	04-09-2019

	CS12	08/04	29-04-2019	21-08-2019
BE (Electrical and Electronics)	EE22	03/02	21-01-2019	15-03-2019
	EE12	05/03	13-12-2018	15-03-2019
	EE12	07/04	07-12-2018	26-02-2019
	EE22	02/01	01-07-2019	04-09-2019
	EE22	04/02	23-05-2019	04-09-2019
	EE12	06/03	24-05-2019	04-09-2019
	EE12	08/04	29-04-2019	21-08-2019
BE (Electronics and Instrumentation)	EI22	03/02	20-12-2018	15-03-2019
	EI12	05/03	13-12-2018	15-03-2019
	EI12	07/04	07-12-2018	26-02-2019
	EI22	02/01	01-07-2019	04-09-2019
	EI22	04/02	23-05-2019	04-09-2019
	EI12	06/03	24-05-2019	04-09-2019
	EI12	08/04	05-04-2019	22-05-2019
BE (Marine)	MR22	03/02	20-12-2018	15-03-2019
	MR12	05/03	13-12-2018	15-03-2019
	MR12	07/04	07-12-2018	26-02-2019
	MR22	02/01	02-07-2019	04-09-2019
	MR22	04/02	23-05-2019	04-09-2019
	MR12	06/03	24-05-2019	04-09-2019
	MR12	08/04	27-04-2019	21-08-2019
B.E.(Mechanical)	ME22	03/02	21-01-2019	15-03-2019
	ME12	05/03	14-12-2018	15-03-2019
	ME12	07/04	07-12-2018	26-02-2019
	ME22	02/01	01-07-2019	04-09-2019
	ME22	04/02	27-05-2019	04-09-2019
	ME12	06/03	24-05-2019	04-09-2019
	ME12	08/04	27-04-2019	21-08-2019
B.Tech (Fire Technology and Safety)	FT22	03/02	20-12-2018	15-03-2019
	FT12	05/03	13-12-2018	15-03-2019
	FT12	07/04	07-12-2018	26-02-2019
	FT22	02/01	01-07-2019	04-09-2019
	FT22	04/02	27-05-2019	04-09-2019
	FT12	06/03	24-05-2019	04-09-2019
	FT12	08/04	27-04-2019	21-08-2019
B.Tech (Information Technology)	IT22	03/02	21-01-2019	15-03-2019
	IT12	05/03	14-12-2018	15-03-2019
	IT12	07/04	07-12-2018	26-02-2019
	IT22	02/01	01-07-2019	04-09-2019
	IT22	04/02	25-05-2019	04-09-2019
	IT12	06/03	24-05-2019	04-09-2019
	IT12	08/04	27-04-2019	21-08-2019
B.Tech (Nano technology)	NT22	03/02	20-12-2018	15-03-2019
	NT12	05/03	13-12-2018	15-03-2019
	NT12	07/04	07-12-2018	26-02-2019
	NT22	02/01	01-07-2019	04-09-2019
	NT22	04/02	23-05-2019	04-09-2019
	NT12	06/03	24-05-2019	04-09-2019
	NT12	08/04	27-04-2019	21-08-2019
BBA (Bachelor of Business Administration)	MS26	01/01	18-01-2019	19-03-2019
		03/02	21-01-2019	15-03-2019
		05/03	13-12-2018	15-03-2019
		02/01	01-07-2019	04-09-2019
		04/02	23-05-2019	04-09-2019
		06/03	25-05-2019	04-09-2019
B. Com (Bachelor of Commerce)	CO16	01/01	18-01-2019	19-03-2019
		03/02	21-01-2019	15-03-2019
		05/03	13-12-2018	15-03-2019

		02/01	19-06-2019	04-09-2019
		04/02	23-05-2019	04-09-2019
		06/03	25-05-2019	04-09-2019
B.Sc. (Perfusion Technology)	PT26	01/01	28-01-2019	19-03-2019
		03/02	20-12-2019	19-03-2019
		02/01	01-07-2019	04-10-019
		04/02	30- 04-2019	04-10-2019
B.Sc. (Cardiac care Technology)	CT26	01/01	28-01-2019	19-03-2019
		03/02	20-12-2019	19-03-2019
		02/01	01-07-2019	04-10- 019
		04/02	30- 04-2019	04-10-2019
B.Sc. (Renal Dialysis Technology)	DT26	01/01	28-01-2019	19-03-2019
		03/02	20-12-2019	19-03-2019
		02/01	01-07-2019	04-10- 019
		04/02	30- 04-2019	04-10-2019
B.Sc. (Forensic science)	FS26	01/01	28-01-2019	19-03-2019
		03/02	20-12-2019	19-03-2019
		02/01	01-07-2019	04-10- 019
		04/02	30- 04-2019	04-10-2019
B.Sc. (Human genetics and Molecular Biology)	BM26	01/01	28-01-2019	19-03-2019
		03/02	20-12-2019	19-03-2019
		02/01	01-07-2019	04-10- 019
		04/02	30- 04-2019	04-10-2019
M.E (Aeronautical Engineering)	AE25	01/01	28-01-2019	19-03-2019
	AE15	03/02	26-11-2018	15-03-2019
	AE25	02/01	01-07-2019	04-09-2019
M.E (Applied Electronics)	EE25	01/01	28-01-2019	19-03-2019
	EE15	03/02	26-11-2018	15-03-2019
	EE25	02/01	01-07-2019	04-09-2019
M.E(Communication Systems)	EC25	01/01	28-01-2019	19-03-2019
	EC15	03/02	26-11-2018	15-03-2019
	EC25	02/01	01-07-2019	04-09-2019
M.E (Computer Integrated Manufacturing)	ME25	01/01	28-01-2019	19-03-2019
	ME15	03/02	26-11-2018	15-03-2019
	ME25	02/01	01-07-2019	04-09-2019
M.E (Computer Science and Engineering)	CS25	01/01	28-01-2019	19-03-2019
	CS15	03/02	26-11-2018	15-03-2019
	CS25	02/01	01-07-2019	04-09-2019
M.E(Control and Instrumentation Engineering)	EI25	01/01	28-01-2019	19-03-2019
	EI15	03/02	26-11-2018	15-03-2019
	EI25	02/01	01-07-2019	04-09-2019
M.E. (Cyber Security)	IT25	01/01	28-01-2019	19-03-2019
	IT15	03/02	26-11-2018	15-03-2019
	IT25	02/01	01-07-2019	04-09-2019
ME (Structural Engineering)	CV25	01/01	28-01-2019	19-03-2019
	CV15	03/02	26-11-2018	15-03-2019
	CV25	02/01	01-07-2019	04-09-2019
M.E.(Thermal Engineering)	ME25	01/01	28-01-2019	19-03-2019
	ME15	03/02	26-11-2018	15-03-2019
	ME25	02/01	01-07-2019	04-09-2019
M.E. (Automobile Engineering)	AM25	01/01	28-01-2019	19-03-2019
	AM15	03/02	26-11-2018	15-03-2019
	AM25	02/01	01-07-2019	04-09-2019
M.Tech. (Nanotechnology)	NT25	01/01	28-01-2019	19-03-2019
	NT15	03/02	26-11-2018	15-03-2019
	NT25	02/01	01-07-2019	04-09-2019
MCA (Master of Computer	CA15	03/02	01-12-2018	19-03-2019
	CA25	05/03	01-12-2018	19-03-2019
	CA25	02/02	17-05-2019	04-09-2019

Applications)	CA15	04/02	24-5-2019	04-09-2019
MBA (Master of Business Administration)	MS25	01/01	29-01-2019	19-03-2019
		03/02	10-12-2018	19-03-2019
		02/01	01-07-2019	04-09-2019
		04/02	17-05-2019	10-07-2019
M. Sc (Software Engineering – Integrated Course)	SE8	09/05	10-12-2018	19-03-2019
	SE8	07/04	13-12-2018	19-03-2019
	SE8	05/03	11-12-2018	19-03-2019
	SE28	03/02	15-12-2018	19-03-2019
	SE8	10/05	20-05-2019	28-06-2019
	SE8	08/04	30-5-2019	04-09-2019
	SE8	06/03	31-05-2019	04-09-2019
M.A. (English)	EG27	01/01	25-01-2019	19-03-2019
		03/02	30-11-2018	19-03-2019
		02/01	29-06-2019	23-10-2019
		04/02	15-05-2019	10-07-2019
M.Sc. (Physics)	PH27	01/01	25-01-2019	19-03-2019
		03/02	30-11-2018	19-03-2019
		02/01	29-06-2019	23-10-2019
		04/02	15-05-2019	10-07-2019
M.Sc. (Chemistry)	CH27	01/01	25-01-2019	19-03-2019
		03/02	30-11-2018	19-03-2019
		02/01	29-06-2019	23-10-2019
		04/02	15-05-2019	10-07-2019
M.Sc. (Mathematics)	MA27	01/01	29-12-2018	09-02-2018
		03/02	29-05-2019	30-07-2018
		02/01	09-11-2018	19-03-2019
		04/02	30-04-2019	10-07-2019
M.Sc.(Human Genetics and Molecular Biology)	BM27	01/01	29-12-2018	09-02-2018
		03/02	29-05-2019	30-07-2018
		02/01	09-11-2018	19-03-2019
		04/02	30-04-2019	10-07-2019
M.Phil (Physics)	PH24	01/01	24-01-2019	19-03-2019
		02/01	10-06-2019	23-10-2019
M.Phil. (Chemistry)	CH24	01/01	24-01-2019	19-03-2019
		02/01	10-06-2019	23-10-2019
M.Phil. (Mathematics)	MA24	01/01	24-01-2019	19-03-2019
		02/01	10-06-2019	23-10-2019
M.Phil.(English)	EG24	01/01	24-01-2019	19-03-2019
		02/01	10-06-2019	23-10-2019
M.Phil. (Business Administration)	MS24	01/01	24-01-2019	19.03.2019
		02/01	10-06-2019	23.10.2019
M.Phil. (Computer Science)	SE24	01/01	24-01-2019	19-03-2019
		02/01	10-06-2019	23-10-2019
M.Phil. (Biotechnology)	BT24	01/01	24-01-2019	19-03-2019
		02/01	10-06-2019	23-10-2019

2.5.2 Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

***Do not include re-evaluation/ re-totalling**

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
NIL	NIL	NIL

2.6 Student Performance and Learning Outcomes

2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

Attached-Annexure I: <http://www.niuniv.com/outcomes.html>

2.6.2 Pass percentage of students

Program me Code	Programme name	Number of students appeared in the final year examination	Number of students passed in final Semester /year examination	Pass Percentage
AE12	BE Aeronautical	11	09	81.81
AS12	BE Aerospace	8	5	62.5
AC12	BE Aircraft Maintenance	3	3	100
AM12	BE Automobile	24	17	70.83
BM12	B.E Biomedical	30	30	100
CV12	BE Civil	49	37	75.51
CS12	B.E-Computer Science	15	15	100
EE12	BE Electrical and Electronics	9	8	88.89
EC12	BE Electronics and Communication	9	7	77.78
EI12	BE Electronics and Instrumentation	10	9	90
MR12	BE Marine	21	20	95.23
ME12	B.E.Mechanical	111	53	48
FT12	B.Tech Fire Technology and Safety	15	14	93.33
IT12	B.Tech Information Technology	2	1	50
NT12	B.Tech Nano technology	4	3	75
MS26	BBA (Bachelor of Business Administration)	21	09	42
CO16	B. Com (Bachelor of Commerce)	6	5	83.33
AE15	M.E (Aeronautical Engineering)	01	01	100
EC15	M.E(Communication Systems)	3	3	100
ME15	M.E (Computer Integrated Manufacturing)	5	5	100
CS15	M.E (Computer Science and Engineering)	3	3	100
EI25	M.E(Control and Instrumentation Engineering)	3	3	100
IT15	M.E. (Cyber Security)	4	3	75
CV15	ME (Structural Engineering)	10	10	100
ME15	M.E.(Thermal Engineering)	2	2	100
AM15	M.E. (Automobile Engineering)	4	4	100
NT15	M.Tech. (Nanotechnology)	3	3	100
CA25	MCA (Master of Computer Applications)	21	21	100
MS25	MBA (Master of Business Administration)	40	33	91
SE28	M. Sc (Software Engineering –Integrated Course)	15	15	100
EG27	M.A. (English)	11	11	100
PH27	M.Sc. (Physics)	9	8	88.8
CH27	M.Sc. (Chemistry)	10	7	70
MA27	M.Sc. (Mathematics)	4	4	100
BM27	M.Sc.(Human Genetics and Molecular Biology)	4	4	100
PH24	M.Phil (Physics)	6	6	100
CH24	M.Phil. (Chemistry)	5	5	100
MA24	M.Phil. (Mathematics)	6	6	100
EG24	M.Phil.(English)	7	7	100
MS24	M.Phil. (Business Administration)	4	4	100
SE24	M.Phil. (Computer Science)	8	8	100
BT24	M.Phil. (Biotechnology)	4	4	100

2.7 Student Satisfaction Survey

2.7.1 Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink) <http://www.niuniv.com/igac/SSS-Results-Details.pdf>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 Promotion of Research and Facilities

3.1.1 Teachers awarded National/International fellowship for advanced studies/ research during the year

	Name of the teacher awarded the fellowship	Name of the Award	Date of Award	Awarding Agency
National	-	-	-	-
International	Dr. N Santhi	RULA Innovation and Betterment Excellence Award	26-02-2019	RULAS
	S. Balamurugan	Outstanding Reviewer by the Elsevier publisher	10-2018	Elsevier publisher

3.1.2 Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other fellows in the Institution enrolled during the year

Name of Research fellowship	Duration of fellowship	Funding agency
Senior Research Fellowship	8-10-2018 to 7-10-2021	DST ,New Delhi

3.2 Resource Mobilization for Research

3.2.1 Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding Agency	Total grant sanctioned	Amount received during the year
Major projects	5 years	DST	2108800	421760
	5 years	DST	2850000	309000
Minor Projects	-	-	-	-
Interdisciplinary Projects	-	-	-	-
Industry sponsored Projects	-	-	-	-
Projects sponsored by the University	-	-	-	-
Students Research Projects (other than compulsory by the University)	-	-	-	-
	-	-	-	-
International Projects	-	-	-	-
Any other(Specify)	-	-	-	-
Total	-	-	4958800	730760

3.3 Innovation Ecosystem				
3.3.1 Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year				
Title of Workshop/Seminar		Name of the Dept.		Date(s)
Workshop on Robotics		Mechanical Engineering		25-10-2018
One day seminar on Knowledge for success		Mechanical Engineering		16-03-2019
International Seminar On CFD for Aerospace applications organized by NICHE and “Aeronautical Society of India”		Aeronautical Engineering		19-03-2019
Digital Data Extraction Procedure for Cyber Forensics Application		Department of IT, NICHE		11-04-2019
India’s First Leadership Talk -1 (Webminar)		Institutional Innovoation Council (IIC) ,NICHE		8-1-2019
Smart India Hackathon Awareness Meetingiipc		IIC ,NICHE		18-1-2019
Workshop on IPR for Students and Faculty Members (Topic: Need of IPR for Higher Education Institutions)		IIC ,NICHE		22-1-2019
India’s First Leadership Talk -2 (Webminar)		IIC ,NICHE		22-1-2019
Faculty Development Workshop on Creative Thinking (sponsored by ICT Academy, Chennai)		IIC ,NICHE		11-2-2019& 12-2-2019
Walk With a Scholar (WWS) Programme for Al-Ameen College (Govt. Aided Institution, Affiliated to MG University, Kottayam) Edathala,		IIC ,NICHE		14-2-2019
Smart India Hackathon Awareness Workshop		IIC ,NICHE		8-1-2019
Intellectual property rights and innovation (seminar)		Automobile		13-3-2019
Interior design for automobiles (seminar)		Automobile		11-2-2019
Workshop-robotics and automobile applications		Automobile		3-10-2018
Quality system – NDT (seminar)		Automobile		11-9-2018
Automotive robotics (seminar)		Automobile		3-9-2018
Comprehensive characteristics of bamboo/glass fibre composites for automobile applications		Automobile		23-7-2018
3.3.2 Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year				
Title of the innovation	Name of the Awardee	Awarding Agency	Date of Award	Category
International Design completion	Hasihim Sadik K	CADD Centre Training Services Pvt Ltd.	11/2018	DESIGN
International Design completion	Ajith J R	CADD Centre Training Services Pvt Ltd.	11/2018	DESIGN
International Design completion	Shibin J Y	CADD Centre Training Services Pvt Ltd.	11/2018	DESIGN
International Design completion	Abiram A S	CADD Centre Training Services Pvt Ltd.	11/2018	DESIGN
BMW engine diagnosis	Abdul Irfan R	RIET Attingal Association with IIT Bombay	01-03- 2019, 02-03- 2019	Fault Diagnosis
BMW engine diagnosis	Hari Shankar S	RIET Attingal Association	01-03- 2019, 02-03-	Fault Diagnosis

		with IIT Bombay	2019	
BMW engine diagnosis	Amal B	RIET Attingal Association with IIT Bombay	01-03- 2019, 02-03- 2019	Fault Diagnosis
BMW engine diagnosis	Alfayed Mohammed Salim	RIET Attingal Association with IIT Bombay	01-03- 2019, 02-03- 2019	Fault Diagnosis
BMW engine diagnosis	Mohammed Bilal D	RIET Attingal Association with IIT Bombay	01-03- 2019, 02-03- 2019	Fault Diagnosis
BMW engine diagnosis	Aswin Gillette	RIET Attingal Association with IIT Bombay	01-03- 2019, 02-03- 2019	Fault Diagnosis
BMW engine diagnosis	Abuthahir	RIET Attingal Association with IIT Bombay	01-03- 2019, 02-03- 2019	Fault Diagnosis
BMW engine diagnosis	Govind P Hali	RIET Attingal Association with IIT Bombay	01-03- 2019, 02-03- 2019	Fault Diagnosis
Minimiltia	CHRIS FELIX CJ	NICHE	28-03-2019	Design
Minimiltia	ANWAR BASHA	NICHE	28-03-2019	Design
Minimiltia	ARAVINDH S L	NICHE	28-03-2019	Design
MACE MODEL UNITED NATIONS	SIDHU	MAR ATHANASIOS COLLEGE OF ENGINEERING	01-03-2019,02-03- 2019,03-03-2019	UNSC
MACE MODEL UNITED NATIONS	ASWIN RAJ	MAR ATHANASIOS COLLEGE OF ENGINEERING	01-03-2019,02-03- 2019,03-03-2019	UNSC
MACE MODEL UNITED NATIONS	MUHAMMAD NABEEL	MAR ATHANASIOS COLLEGE OF ENGINEERING	01-03-2019,02-03- 2019,03-03-2019	UNSC
MACE MODEL UNITED NATIONS	SANOJ SABU VARGHESE	MAR ATHANASIOS COLLEGE OF ENGINEERING	01-03-2019,02-03- 2019,03-03-2019	UNSC
MACE MODEL UNITED NATIONS	SHYAM Y S	MAR ATHANASIOS COLLEGE OF ENGINEERING	01-03-2019,02-03- 2019,03-03-2019	UNSC
Averting Automobile Mishaps and Casualty by using high beam sensors with an automatic number plate reporting device associated with speed breaker detector and smart lock mechanism	Paulwin Selvam Manoharan, Student	The Institution of Engineers(India)	4-11-2018	All India Design Competition for Engineering Students- 2018

3.3.3 No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Centre	Name	Sponsored by
NICHE Placement	NICHE - Incubation	NICHE
Name of the Start-up	Nature of Start-up	Date of commencement
Antobel Services Pvt.	Servicing	22'05-2019

3.4 Research Publications and Awards

3.4.1 Ph. Ds awarded during the year

Name of the Department	No. of Ph. Ds Awarded
Electronics and Communication Engineering	2
Electrical and Electronics Engineering	4
Mechanical Engineering	5
Aeronautical Engineering	1
Computer Science and Engineering	9

Civil Engineering	3
Computer Applications	1
Management studies	7
Electronics and Instrumentation Engineering	1
Maths	1
Physics	1
Nano Technology	1
Bio-Medical Engineering	1

3.4.2 Research Publications in the Journals notified on UGC website during the year

	Department	No. of Publication	Average Impact Factor, if any
National	Automobile Engineering	33	-
International	Automobile Engineering	42	-
	Electronics and Communication Engineering	45	2.4
	Electrical and Electronics Engineering	7	-
	Mechanical Engineering	50	-
	Aeronautical Engineering	2	-
	Marine Engineering	19	1
	Computer Science and Engineering	23	0.04
	English	46	5.57
	Civil Engineering	22	-
	Nanotechnology	13	9.52
	Information Technology	21	0.241
	Mathematics	14	-
	Chemistry	01	1.0
	Fire Technology and Safety	02	-
	Computer Applications	34	3.33
	Management studies	17	4.47
	Allied Health Sciences	2	5.04
	Electronics and Instrumentation Engineering	10	2.783
	Biomedical Sciences and Technology	15	-

3.4.3 Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	No. of publication
Electrical and Electronics Engineering	3
Mechanical Engineering	1
Aeronautical Engineering	3
Civil Engineering	1
Physics	1
Chemistry	1
Information Technology	12
Nanotechnology	1

3.4.4 Patents published/awarded during the year

Patent Details	Patent status Published/Filed	Patent Number	Date of Award
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Low Temperature Synthesis of Calcium and Hafnium Co-doped Barium Titanate Nano ceramics	Filed	201941025611	27-06-2019
Sol Gel Synthesis of PB0.98B10.02ZRO.52T10.48O3 Nanoceramics	Filed	E-3/18301/2019-CHE	27-06-2019
Fusion of DNA Sequence and Hyper Chaotic Technique for Securing Medical Image Applications	Filed	201941025600	27-06-2019
Fake Image Detection using Color Model	Filed	201941025594	27-06-2019
A Secure Access Control Technique based on RFID using 8051 Micro Controller	Filed	201941025622	27-06-2019
Internal Intrusion Detection and Prevention System by using Data Mining and Cryptographic Techniques	Filed	201941025605	27-06-2019
Keychain Based Liquid Testing Device	Filed	320650001	27-06-2019
Ficus Bengalensis Derived Eisosane Loaded Iron Oxide Nanoparticles to Combat Melanoma	Filed	E-2/18315/2019-CHE	27-06-2019
Carbon Quantum Dots can ACT as the Powerful Wound Healant	Filed	E-3/18311/2019-CHE	27-06-2019
Maximum Energy Conservation Using 3 Port Converter in Hybrid Energy System	Filed	E-3/18321/2019-CHE	27-06-2019

3.4.5 Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citations
A bioluminescent Pseudomonas aeruginosa wound model reveals increased mortality of type 1diabetic mice to biofilm infection	Agostinho Hunt, A.M., Gibson, J.A., Larrivee, C.L., O'Reilly, S., Navitskaya, S., Needle, D.B., Abramovitch, R.B., Busik, J.V., Waters, C.M.	Journal of Wound Care	July 2017	3	NICHE	3
Corrosion behaviour of magnesium tricalcium phosphate composite in simulated body fluid	Reji Kumar, R., Sivapragash, M.	International Journal of Mechanical Engineering and Technology	July 2017	1	NICHE	1
Effect of fiber volume fraction on the abrasive resistance, compressive strength and hardness of banana fiber-natural rubber composites	Gopakumar, R., Rajesh, R.	International Journal of Mechanical Engineering and Technology	July 2017	1	NICHE	1

Production and microstructure characterization of AA6061 matrix activated carbon particulate reinforced composite by friction stir casting method	Diju Samuel, G., Edwin Raja Dhas, J., Ramanan, G., Ramachandran, M.	Rasayan Journal of Chemistry	July 2017	5	NICHE	5
Biogas yield potential research of the wastes from banana by anaerobic digestion	Unni Krishnan, A., Joselin Herbert, G.M.	International Journal of Mechanical Engineering and Technology	July 2017	3	NICHE	3
Analysis of payload compartment venting of satellite launch vehicle	Mehta, R.C.	Advances in Aircraft and Spacecraft Science	July 2017	1	NICHE	1
Effect of geometrical parameters of reentry capsule over flowfield at high speed flow	Mehta, R.C.	Advances in Aircraft and Spacecraft Science	July 2017	0	NICHE	0
Finite element structural analysis of connecting rod of aa7075-Tic composite using Ansys	Rajesh Prabha, N., Edwin Raja Dhas, J., Ramanan, G.	International Journal of Mechanical Engineering and Technology	July 2017	8	NICHE	8
Performance analysis and comparison of medical image compression techniques	Dinu, A.J., Ganesan, R., Kebede, A.A., Veerasamy, B.	International Conference on Control Instrumentation Communication and Computational Technologies	July 2017	1	NICHE	1
ANFIS modeling of friction stir weld parameters	Shanavas, S., Dhas, J.E.R.	International Conference on Control Instrumentation Communication and Computational Technologies	July 2017	1	NICHE	1
Finite element analysis on tensile property of the developed natural FRP composite	Dhas, J.E.R., Pradeep, P., Gladson, D., Dinesh, R.	International Conference on Control Instrumentation Communication and Computational Technologies	July 2017	0	NICHE	0
Neuro fuzzy modeling and prediction of wear rate in composite manufacturing	Prabha, N.R., Dhas, J.E.R.	International Conference on Control Instrumentation Communication and Computational Technologies	July 2017	0	NICHE	0
Fuzzy logic - A decision making tool for wear rate prediction in aluminum composite	Prabha, R., Dhas, J.E.R.	Proceedings of the International Conference on	July 2017	0	NICHE	0

		Recent Advances in Aerospace Engineering				
Comparison of mechanical properties for alkali treated and untreated palm/glass sandwiched fiber reinforced polymer composite	Dhas, J.E.R., Pradeep, P., Gladson, D., Dinesh, R., Aran, M.	Proceedings of the International Conference on Recent Advances in Aerospace Engineering	July 2017	0	NICHE	0
Design and analysis of demultiplexer based CPG for high speed shifting memory	Roobert, A.A., Praghash, K., Rajavel, S.E., Bridjith, A.A.	Proceedings of the 2017 International Conference on Intelligent Computing and Control System	July 2017	0	NICHE	0
Antimicrobial, antioxidant and SOD activities of copper(II) complexes derived from 2-aminobenzothiazole derivatives	Joseph, J.; Janaki, G. Boomadevi; Nagashri	JOURNAL OF COORDINATION CHEMISTRY	July 2017	3	NICHE	3
Combination of fuzzy c-means clustering and texture pattern matrix for brain MRI segmentation.	Kumar, Shijin P. S.; Dharun, V. S.	BIOMEDICAL RESEARCH-INDIA	July 2017	1	NICHE	1
Effect of geometrical parameters of reentry capsule over flowfield at high speed flow	Mehta, R. C.	ADVANCES IN AIRCRAFT AND SPACECRAFT SCIENCE	July 2017	0	NICHE	0
Analysis of payload compartment venting of satellite launch vehicle	Mehta, R. C.	ADVANCES IN AIRCRAFT AND SPACECRAFT SCIENCE	July 2017	0	NICHE	0
Sequential wavelet-ANN with embedded ANN-PSO hybrid electricity price forecasting model for Indian energy exchange	Peter, S.E., Raglend, I.J.	Neural Computing and Applications	August 2017	8	NICHE	8
Novel Single-Step Combustion Synthesis of Nanocrystalline MgFe ₂ O ₄ Materials Using Hexamethylenetetramine as a Fuel: Properties and Features	Balamurugan, S., Ragasree, R., Sana Fathima, T.K., Brightlin, B.C.	Journal of Superconductivity and Novel Magnetism	August 2017	3	NICHE	3
The effect of different alkali metal chloride fluxes on the phase formation and properties of Sr-based hexaferrite, SrFe ₁₂ O ₁₉ materials	Brightlin, B.C., Balamurugan, S.	Journal of Materials Science: Materials in Electronics	August 2017	0	NICHE	0
Rhamnolipid biosurfactants produced by Pseudomonas sp. MK5 and its efficacy on pharmaceutical application	Murugan, T., Murugan, M., Albino Wins, J.	Research Journal of Pharmacy and Technology	August 2017	0	NICHE	0
Mathematical model development for viscosity of transesterified jatropha oil using box - behnken method	Neela Rajan, R.R., Rajesh, R., Ramanan, G.	International Journal of Mechanical and Production Engineering Research and Development	August 2017	0	NICHE	0

Experimental investigation and multi response optimization of WEDM process of AA7075 metal matrix composites using particle swarm optimization	Gopalakrishnan, R., John, E.R.D.	International Journal of Intelligent Engineering and Systems,	August 2017	5	NICHE	5
Revolutionary passions: Latin America, Middle East and India	Bozarslan, H., Bataillon, G., Jaffrelot, C.	Revolutionary Passions: Latin America, Middle East and India	August 2017	0	NICHE	0
Novel Single-Step Combustion Synthesis of Nanocrystalline MgFe ₂ O ₄ Materials Using Hexamethylenetetramine as a Fuel: Properties and Features	Balamurugan, S.; Ragasree, R.; Fathima, T. K. Sana	JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM	August 2017	2	NICHE	2
Sequential wavelet-ANN with embedded ANN-PSO hybrid electricity price forecasting model for Indian energy exchange	Peter, Smitha Elsa; Raglend, I. Jacob	NEURAL COMPUTING & APPLICATIONS	August 2017	3	NICHE	3
The effect of different alkali metal chloride fluxes on the phase formation and properties of Sr-based hexaferrite, SrFe ₁₂ O ₁₉ materials	Brightlin, B. C.; Balamurugan, S.	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	August 2017	1	NICHE	1
Ocular knowledge and practice among type 2 diabetic patients in a tertiary care hospital in Bangladesh	Ahmed, K.R., Jebunessa, F., Hossain, S., Chowdhury, H.A.	BMC Ophthalmology	September 2017	3	NICHE	3
Evaluation of oxidative stress markers in oral lichen planus	Rekha, V., Sunil, S., Rathy, R.	Journal of Oral and Maxillofacial Pathology	September 2017	6	NICHE	6
Detection of duplicated data with minimum overhead and secure data transmission for sensor big data	Beulah, S., Dhanaseelan, F.R.	Cluster Computing	September 2017	1	NICHE	1
Force decay characteristics of commonly used elastomeric chains on exposure to various mouth rinses with different alcohol concentration: An in vitro study	Ramachandraiah, S., Sridharan, K., Nishad, A., Manjusha, K.K., Abraham, E.A., Ramees, M.M.	Journal of Contemporary Dental Practice	September 2017	0	NICHE	0
Growth and development of dentofacial complex influenced by genetic and environmental factors using monozygotic twins	Manjusha, K.K., Jyothindrakumar, K., Nishad, A., Manoj, K.M.	Journal of Contemporary Dental Practice,	September 2017	2	NICHE	2
Synthesis and characterization of environment friendly silver nanoparticles	Murugan, T., Ravikumar, V., Chitra, B., Murugan,	Journal of Pharmaceutical Sciences and	September 2017	0	NICHE	0

	M.	Research				
Properties of non-reconstructible graphs and digraphs	Ramachandran, S.	Utilitas Mathematica	September 2017	0	NICHE	0
PROPERTIES OF NON-RECONSTRUCTIBLE GRAPHS AND DIGRAPHS	Ramachandran, S.	UTILITAS MATHEMATICA	September 2017	0	NICHE	0
A comparative analysis of various classification trees	Sheela, Y.J., Krishnaveni, S.H.	Proceedings of IEEE International Conference on Circuit, Power and Computing	October 2017	3	NICHE	3
Effect of process parameters on microstructure and mechanical properties of friction stir welded ZE42 magnesium alloy	Darwins, A.K., Satheesh, M.	International Journal of Mechanical Engineering and Technology	October 2017	3	NICHE	3
Merit order dispatch using ant lion optimization algorithm	Faseela, C.K., Vennila	International Journal of Civil Engineering and Technology	October 2017	1	NICHE	1
Enhancement of multimedia security using random permutation with wavelet function	Gouri, M.S., Balan, R.V.S.	Computers and Electrical Engineering	October 2017	3	NICHE	3
Design of flip-OFDM system for optical wireless communication	Rakhi, K.J., Jayakumari, J.	Proceedings of IEEE International Conference on Circuit, Power and Computing	October 2017	1	NICHE	1
Analysis of mechanical properties of hybrid bamboo/jute fibers reinforced & vinyl ester composite material	Bino, P.R.D., Stanly, J.R.B., Shukla, M.	International Journal of Mechanical Engineering and Technology	October 2017	3	NICHE	3
Effect of sintering temperature on mechanical properties of Mg-Zr alloy	Judson Durai, T., Sivapragash, M., Edwin Sahayaraj, M.	International Journal of Mechanical and Production Engineering Research and Development	October 2017	2	NICHE	2
Perspective on quantifying electron localization/delocalization, non-linear optical response and vibrational analysis of 4-(dimethylamino)benzaldehyde-2,4-dinitroaniline	Arun Sasi, B.S., Jebin, R.P., Suthan, T., James, C.	Journal of Molecular Structure	October 2017	0	NICHE	0
Mechanical Property Evaluation of Palm/Glass Sandwiched Fiber Reinforced Polymer Composite in	Dhas, E.R., Pradeep, P.	IOP Conference Series: Materials Science and	October 2017	1	NICHE	1

Comparison with few natural composites		Engineering				
A Survey on Friction Stir Welding of Dissimilar Magnesium Alloys	Unnikrishnan, M.A., Edwin Raja Dhas, J.	IOP Conference Series: Materials Science and Engineering	October 2017	2	NICHE	2
Development of Fuzzy Logic Tool to predict Wear Rate in Aluminum Composite	Prabha, R., Edwin Raja Dhas, J.	IOP Conference Series: Materials Science and Engineering	October 2017	3	NICHE	3
Weldability of AA 5052 H32 aluminium alloy by TIG welding and FSW process - A comparative study	Shanavas, S., Raja Dhas, J.E.	IOP Conference Series: Materials Science and Engineering	October 2017	3	NICHE	3
Influence of tool pin in friction stir welding on activated carbon reinforced aluminium metal matrix composite	Dijusamuel, G., Edwin Raja Dhas, J.	IOP Conference Series: Materials Science and Engineering	October 2017	0	NICHE	0
An analysis of routing protocols in manets and Internet of things	Noorul, T.M., Pramila, R.S., Islam, N.	IEEE International Conference on IoT and its Applications	October 2017	4	NICHE	4
Enhancement of multimedia security using random permutation with wavelet function	Gouri, M. S.; Balan, R. V. Siva	COMPUTERS & ELECTRICAL ENGINEERING	October 2017	2	NICHE	2
Synthesis, spectral characterization and catalytic activity of metal complexes with pyrazoline derivatives	Sharmila, T. M.; Joseph, J.	RESEARCH JOURNAL OF PHARMACEUTICAL BIOLOGICAL AND CHEMICAL SCIENCES	October 2017	1	NICHE	1
Theoretical Spectroscopic and Second Harmonic Generations Studies of 5-Fluoro-2-Methyl Benzonitrile	Kumar, A. Ajay Praveen; Raman, R. Ganapathi	ORIENTAL JOURNAL OF CHEMISTRY	October 2017	0	NICHE	0
Isolation and characterization of biosurfactant - producing marine bacteria, isolated from the Chinna Muttam fishing harbor, Kanyakumari District	Mushrifa, Fathima; Poornima, S.; Saju, K. A.	RESEARCH JOURNAL OF PHARMACEUTICAL BIOLOGICAL AND CHEMICAL SCIENCES	October 2017	0	NICHE	0
localization/delocalization, non-linear optical response and vibrational analysis of 4-(dimethylamino) benzaldehyde-2,4-dinitroaniline	Sasi, B. S. Arun; Jebin, R. P.; Suthan	JOURNAL OF MOLECULAR STRUCTURE	October 2017	0	NICHE	0
Synthesis, Spectral Characterization and Anticancer Studies of Some Metal(II) Complexes Derived from	Joseph, Sonia Mol; Dhanaraj, C. Justin; Joseph	ORIENTAL JOURNAL OF CHEMISTRY	October 2017	0	NICHE	0

Imidazole-2-carboxaldehyde with 2-Amino-3-carboxyethyl-4,5-dimethylthiophene						
Tag based noise removal from web pages	Mayajohn, Jayasudha, J.S.	Journal of Theoretical and Applied Information Technology,	November 2017	1	NICHE	1
Parametric optimization of friction stir welding parameters of marine grade aluminium alloy using response surface methodology	SHANAVAS, S., EDWIN RAJA DHAS, J.	Transactions of Nonferrous Metals Society of China	November 2017	15	NICHE	15
A Novel Algorithm for Load Balancing in Mobile Cloud Networks: Multi-objective Optimization Approach	Arun, E., Reji, A., Mohammed Shameem, P., Shaji, R.S.	Wireless Personal Communications	November 2017	1	NICHE	1
Investigation of aerodynamic coefficients at Mach 6 over conical, hemispherical and flat-face spiked body	Kalimuthu, R., Mehta, R.C., Rathakrishnan, E.	Aeronautical Journal	November 2017	5	NICHE	5
Tensile, flexural and impact properties of glass fibre reinforced polymer matrix composites	Raja, D.B.P., Retnam, B.S.J., Shukla, M., Girijadevi, L.T.	International Journal of Mechanical Engineering and Technology	November 2017	1	NICHE	1
Antimicrobial effect of Ginger, Garlic, Honey, and Lemon extracts on Streptococcus mutans	Mathai, K., Anand, S., Aravind, A., Dinatius, P., Krishnan, A.V., Mathai, M.	Journal of Contemporary Dental Practice	November 2017	1	NICHE	1
Parametric optimization of friction stir welding parameters of marine grade aluminium alloy using response surface methodology	Shanavas, S.; Dhas, J. Edwin Raja	TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA	November 2017	7	NICHE	7
Investigation of aerodynamic coefficients at Mach 6 over conical, hemispherical and flat-face spiked body	Kalimuthu, R.; Mehta, R. C.; Rathakrishnan, E.	AERONAUTICAL JOURNAL	November 2017	2	NICHE	2
Corrosion behaviour of Mg-Zr alloy in stimulated body fluid	Judson Durai, T., Sivapragash, M., Edwin Sahayaraj, M.	International Journal of Mechanical and Production Engineering Research and Development	December 2017	0	Noorul Islam Centre for Higher Education (NICHE)	0
Mining optimized positive and negative association rule using advance ABC algorithm	Jingle, I.B.J., Celin, J.J.A.	Journal of Theoretical and Applied Information Technology	December 2017	0	NICHE	0

Effect of friction stir welding process on mechanical properties and microstructure of ZE42 magnesium alloy	Darwins, A.K., Satheesh, M.	International Journal of Mechanical and Production Engineering Research and Development	December 2017	4	NICHE	4
Outlier detection approaches for wireless sensor networks: A survey	Ayadi, A., Ghorbel, O., Obeid, A.M., Abid, M.	Computer Networks	December 2017	23	NICHE	23
Spousal contribution and fair division of matrimonial assets: A case study of Malaysian muslims	Noorul Huda, S., Najibah, M.Z., Siti Khadijah, A.M.	Pertanika Journal of Social Sciences and Humanities	December 2017	0	NICHE	0
Queue allocation algorithm based on priority of signals to schedule m-health data transfer	Minimol, V.K., Shaji, R.S.	Journal of Computational and Theoretical Nanoscience	December 2017	0	NICHE	0
Impact of mouthwashes on antibacterial activity of subjects with fixed orthodontic appliances: A randomized clinical trial	Nishad, A., Sreesan, N.S., Joy, J., Lakshmanan, L., Thomas, J., Anjali, V.A.	Journal of Contemporary Dental Practice,	December 2017	0	NICHE	0
Strength analysis on concrete with M-sand as a partial replacement of fine Aggregate	Suseela, K., Baskaran, T.	International Journal of Civil Engineering and Technology	December 2017	3	NICHE	3
Assessment of marginal adaptation and sealing ability of root canal sealers: An in vitro study	Remy, V., Krishnan, V., Job, T.V., Ravisankar, M.S., Raj, C.V.R., John, S.	Journal of Contemporary Dental Practice	December 2017	0	NICHE	0
Analysis of new modeled twisted wind turbine blades	Nambi, S.S., Herbert, G.M.J.	International Journal of Mechanical Engineering and Technology	December 2017	2	NICHE	2
An efficient radon mapped discrete wavelet transform-based algorithm for MC-CDMA system	Sowmy, I., Jayakumari, J.	International Journal of Enterprise Network Management	2017	0	NICHE	0
Delineation of permeable zone for effective desilting of Irrigation Tank to enhance the recharge capacity	Allwin, D., Ganesan, M.	Pollution Research	2017	0	NICHE	0
Social media as a multimedia tool for brand popularity: A study on the people of kerala	Joy, J., Sulaipher, M.	International Journal of Applied Business and Economic Research	2017	0	NICHE	0
An exploratory study on the influence of SNS in the brand awareness of rural people	Joy, J., Sulaipher, M.	International Journal of Applied Business	2017	0	NICHE	0

		and Economic Research				
Evaluation through quality function deployment and analytic hierarchy process for selecting the tube material in heat exchangers at nuclear power plants	Anandan, S., Rajesh, R., Ganesh, K.	International Journal of Enterprise Network Management	2017	0	NICHE	0
Implementation of chaotic neural network in joint compression and encryption scheme	Vivek, P.K., Dharun, V.S., Veenus, P.K., Sivasankar, K.	Journal of Advanced Research in Dynamical and Control Systems	2017	0	NICHE	0
An efficient inline data deduplication with data relationship manager for cloud storage	Venish, A., Sivasankar, K.	International Journal of Applied Engineering Research	2017	1	NICHE	1
An eco-feminist outlook in the selected works of Anita Desai	Pranesh Kumar, R., Bindhu, V.S.	Man in India	2017	0	NICHE	0
Consumer behavioral outcome in the context of social media marketing	Joy, J., Sulaipher, M.	International Journal of Applied Business and Economic Research	2017	0	NICHE	0
Mechanical strength prediction of TIG welded stainless steel 304 using grey RSM	Ajith Raj, R., Rohit, I.J., Dev Anand, M.	International Journal of Mechanical Engineering and Technology	2017	2	NICHE	2
Combination of fuzzy c-means clustering and texture pattern matrix for brain MRI segmentation	Shijin Kumar, P.S., Dharun, V.S.	Biomedical Research (India),	2017	2	NICHE	2
Challenges in wireless sensor networks – A signal processing perspective	Vivek, P.K., Dharun, V.S., Veenus, P.K.	Journal of Advanced Research in Dynamical and Control Systems	2017	0	NICHE	0
Industrial sensor networks - signal processing with compressive sensing	Vivek, P.K., Dharun, V.S., Veenus, P.K.	International Journal of Applied Engineering Research	2017	0	NICHE	0
Identification of influencing factors for the selection of RLSP using DEMATEL method	Robin Divahar, S., Sudhahar, C., Karthikeyan, L.M., Edwin Raja Dhas, J.	International Journal of Enterprise Network Management	2017	0	NICHE	0
A novel meta heuristic based query optimization technique on crowdsourcing environment using a-fly algorithm	Cincy, W.C., Jeba, J.R.	Journal of Advanced Research in Dynamical and Control Systems	2017	0	NICHE	0

Parallelizing MAP-ML method in multicore architecture	Sajan, P.P., Kumar, S.S.	Journal of Advanced Research in Dynamical and Control Systems	2017	0	NICHE	0
An enhanced CIA tree using string matching algorithm	Renu, S., Krishna Veni, S.H.	International Journal of Applied Engineering Research	2017	1	NICHE	1
Priority queuing technique promoting deadline sensitive data transfers in router based heterogeneous networks	John, J.K., Siva Balan, R.V.	International Journal of Applied Engineering Research	2017	2	NICHE	2
Spectroscopic and second harmonic generations studies of 5-bromo-2-methoxybenzonitrile by DFT	Ajay Praveen Kumar, A., Ganapathi Raman, R.	Oriental Journal of Chemistry	2017	2	NICHE	2
Maximising energy efficiency using data aggregation in sensor networks	Priya, B.S.D., Enoch, S.	International Journal of Enterprise Network Management	2017	0	NICHE	0
Optimization of material removal rate and surface roughness for wire electric discharge machining of AA7075 composites using grey relational analysis	Ramanan, G., Dhas, J.E.R., Ramachandran, M.	International Journal of Vehicle Structures and Systems	2017	0	NICHE	0
JFIM: A novel filter feature selection approach using joint feature interaction maximization	Omana, S.P., Jesu, J.C.	International Journal of Intelligent Engineering and Systems	2017	0	NICHE	0
Analysis of nutrient index of soil for green environment	Subash, T., Vincent, P., Karuppasamy, S., Kushnappa, B.K.	Asian Journal of Chemistry	2017	0	NICHE	0
A theoretical analysis of wireless localisation scamming attacks using silence mechanism	Jagatheeswari, R., Bilcah Boby, C., Maheswaran, C.P.	International Journal of Enterprise Network Management	2017	0	NICHE	0
Theoretical spectroscopic and second harmonic generations studies of 5-fluoro-2-methyl benzonitrile	Ajay Praveen Kumar, A., Raman, R.G.	Oriental Journal of Chemistry	2017	0	NICHE	0
Multi objective optimization of machining parameters for AA7075 metal matrix composite using grey - Fuzzy technique	Ramanan, G., Edwin Raja Dhas, J., Rajesh Prabha, N., Shanavas, S.	International Journal of Applied Engineering Research	2017	6	NICHE	6
Investigation of temperature distribution on combined pressurevessel column	Senthil Anbazhagan, A.M., Dev Anand, M.	International Journal of Civil Engineering and Technology	2017	6	NICHE	6

A hybrid RBAC and Chaos Access (HRCA) control mechanism for cloud computing environment	Venifa Mini, G., Angel Viji, K.S.	Journal of Engineering and Applied Sciences	2017	0	NICHE	0
Multimodal biometric authentication based on interpolation based steganography	Sasikala, T.S., Sivasankar, K.	Journal of Advanced Research in Dynamical and Control Systems	2017	0	NICHE	0
Prediction and optimization of weld bead geometry of pulsed gas tungsten arc welded inconel 718 alloy using RSM	Jerold Jose, P., Dev Anand, M.	International Journal of Mechanical Engineering and Technology	2017	0	NICHE	0
Design optimization of surface roughness by turning process using response surface methodology and grey relational analysis	Rajesh Prabha, N., Edwin Raja Dhas, J.	International Journal of Mechanical Engineering and Technology	2017	4	NICHE	4
Multiple response characteristics optimization of wedm parameters for aa7075 composites by response surface grey relative analysis	Ramanan, G., Neela Rajan, R.R., Diyu Samuel, G., Edwin Raja Dhas, J., Rajesh Prabha, N., Pradeep, P.	International Journal of Mechanical Engineering and Technology	2017	3	NICHE	3
Effect of TiC and MOS2 reinforced aluminium metal matrix composites on microstructure and thermogravimetric analysis	Rajesh Prabha, N., Edwin Raja Dhas, J.	Rasayan Journal of Chemistry	2017	5	NICHE	5
Multi-objective optimization of friction stir welded dissimilar aluminium composites using grey analysis	Samuel, G.D., Dhas, J.E.R.	International Journal of Applied Engineering Research	2017	1	NICHE	1
M-health frame work- for public health services	Minimol, V.K., Shaji, R.S.	International Journal of Applied Engineering Research,	2017	1	NICHE	1
FPGA implementation of concatenated LT and LDPC coder for deep space applications	Jayakumari, J., Jane Sofia, J.	Far East Journal of Electronics and Communications	2017	0	NICHE	0
ECGCD: A computational approach of the designing and evaluation of energy efficiency and environmental sustainability in green data centres using dynamic VM consolidation	Sajitha, A.V., Subhajini, A.C.	Journal of Advanced Research in Dynamical and Control Systems	2017	3	NICHE	3
A bifold software defined networking based defence mechanism for DDOS attacks in the cloud environment	Sindia, T.V., Dhas, J.P.M.	International Journal of Applied Engineering Research	2017	1	NICHE	1

Pre-processing of dental X-ray images using adaptive histogram equalization method	Saju Simon, S.G., Joseph, X.F.	Journal of Advanced Research in Dynamical and Control Systems	2017	0	NICHE	0
An optimized approach for SVM based segmentation of MR images of brain tumors	Aswathy, S.U., Glan Devadhas, G., Kumar, S.S., Sreevidya, P.	Journal of Advanced Research in Dynamical and Control Systems	2017	0	NICHE	0
Power quality improvement in microgrid using custom power devices	Prabhakar, P., Vennila, H.	International Journal of Enterprise Network Management	2017	3	NICHE	3
Automatic segmentation of chondroblastoma from medical images using SRM & active contour method	Muhammed Anshad, P.Y., Kumar, S.S.	Journal of Advanced Research in Dynamical and Control Systems	2017	0	NICHE	0
Control and stabilization of an inverted pendulum using ga based controller	Suresh, A., Flower Queen, M.P., Tibbie Pon Symon, V.A., Linsely, A.	International Journal of Mechanical Engineering and Technology	2017	0	NICHE	0
Development of reducing boil off losses in LNG transportation using polyamide as supporting material	Eqbert, K., Dev Anand, M.	International Journal of Civil Engineering and Technology	2017	2	NICHE	2
Development of reducing boil off losses in LNG transportation using polyamide as supporting material	Eqbert, K., Dev Anand, M.	International Journal of Civil Engineering and Technology	2017	2	NICHE	2
Multi-objective optimisation of Mahua oil transesterification using response surface methodology and grey relational analysis	Neela Rajan, R.R., Rajesh, R.	International Journal of Enterprise Network Management	2017	1	NICHE	1
Stabilization mechanism for soil by using lime and rice husk ash as binding agents in erosion prone zone - A case study	Subash, T., Vincent, P., Sathya Prabha, K.	International Journal of Civil Engineering and Technology	2017	2	NICHE	2
Shunt feedback method of power consumption measurement for microcontroller based applications	Sreejith, M.V., Tibbie Pon Symon, V.A., Shamila, F., Linsely, A.	International Journal of Mechanical Engineering and Technology	2017	0	NICHE	0
Mission zero fatality in India	Athipathi, G., Nagan, S., Baskaran, T.	International Journal of Civil Engineering and Technology	2017	0	NICHE	0
Hazy video denoising using an enhanced visibility restoration technique	Prakash, A.J., Christopher, A.F.	Man in India	2017	0	NICHE	0
A study on impact of work life balance on retention of women	Dhanya, J.S., Kinslin, D.	International Journal	2017	1	NICHE	1

teachers in management colleges in Kerala		of Applied Business and Economic Research				
Region-threshold detection and KNN classification method for detecting and classifying hemorrhages for real time application in retinal fundus images	Sreeja, K.A., Kumar, S.S.	Journal of Advanced Research in Dynamical and Control Systems	2017	0	NICHE	0
Performance analysis of novel hybrid A-BAT algorithm in crowdsourcing environment	Cincy, W.C., Jeba, J.R.	International Journal of Applied Engineering Research	2017	0	NICHE	0
Comparison between PI, fuzzy & predictive techniques for STATCOM to improve the transient stability of microgrid	Prabhakar, P., Vennila, H.	International Journal of Mechanical Engineering and Technology	2017	1	NICHE	1
Voltage regulation using PI control of STATCOM with firefly algorithm	Felix Stephen, S., Jacob Raglend, I.	International Journal of Mechanical Engineering and Technology	2017	2	NICHE	2
Tensile and SEM behaviour of stir casting AL-2011/TiB ₂ particulate composites	Siva, M.M., Rajesh, R.	International Journal of Mechanical Engineering and Technology	2017	0	NICHE	0
An efficient approach for item set mining using both utility and frequency based methods	Mathai, P.P., Siva Balan, R.V., Babu, I.	International Journal of Applied Engineering Research	2017	2	NICHE	2
A study on the influence of fibre content on the mechanical properties of natural rubber composites reinforced with banana fibres subjected to various surface modifications	Gopakumar, R., Rajesh, R.	International Journal of Civil Engineering and Technology	2017	6	NICHE	6
Application of fixed point turbo decoding algorithm for throughput enhancement of SISO parallel advanced LTE turbo decoders	Madhukumar, P., Ramu, G., Veerasamy, B., Joseph, F.	International Journal of Intelligent Engineering and Systems	2017	0	NICHE	0
Optimized scheduling and resource allocation using evolutionary algorithms in cloud environment	Muthu, A.B.A., Enoch, S.	International Journal of Intelligent Engineering and Systems	2017	9	NICHE	9
Analysis of feature selection measures for text categorisation	Bai, V.M.A., Manimegalai, D.	International Journal of Enterprise Network Management	2017	0	NICHE	0

Quality analysis of various deep learning neural network classifiers for Alzheimer's disease detection	Dinu, A.J., Ganesan, R., Joseph, F., Balaji, V.	Journal of Engineering and Applied Sciences	2017	2	NICHE	2
Process parameters selection for laser welding of 304-stainless steel using AHP method	Balakrishnan, N., Rajesh, R., Ganesh, K.	International Journal of Enterprise Network Management	2017	1	NICHE	1
Geometrical structure, vibrational spectra, NLO, NBO, electronic transitions and thermo dynamical analysis of 5-fluoro-2-methylbenzonitrile by DFT computational method	Ajaypraveenkumar, A., Ganapathi Raman, R., Sebastian, S.	Springer Proceedings in Physics	2017	1	NICHE	1
Enhancing performance of deep learning based text summarizer	John, M., Jayasudha, J.S.	International Journal of Applied Engineering Research, 12 (24), pp. 15986-15993.	2017	1	NICHE	1
A new approach for the reduction of distribution losses in smart grid	Tibbie Pon Symon, V.A., Jacob Raglend, I., Suji Pramila, R.	International Journal of Mechanical Engineering and Technology	2017	1	NICHE	1
Optimization of PID controller for a nonlinear MIMO system and comparative performance analysis	Anitha Janet Mary, S., Padma Suresh, L.	International Journal of Mechanical Engineering and Technology	2017	1	NICHE	1
Compressive and impact responses of magnesium/alumina composites	Suneesh, E., Sivapragash, M., Silan, T.S.	International Journal of Civil Engineering and Technology	2017	1	NICHE	1
In vitro antioxidant activity of various leaf extracts of canthium coromandelicum (Burm.F.) alston	Shabi Ruskin, R., Vasanthakumari, B., Citarasu, T.	Asian Journal of Pharmaceutical and Clinical Research	2017	1	NICHE	1
Fix bad scanned character, line and paragraph of curved document images	Sruthy, S., Suresh Babu, S.	Journal of Advanced Research in Dynamical and Control Systems	2017	0	NICHE	0
A novel adaptive clustering algorithm using validity index in remote sensing data	Dalmiya, C.P., Santhi, N.	International Journal of Applied Engineering Research	2017	2	NICHE	2
Combined economic and emission dispatch with valve point effect using moth flame optimization (MFO) algorithm	Faseela, C.K., Vennila, H.	International Journal of Mechanical Engineering and Technology	2017	0	NICHE	0

Effects of WTP sludge dosage and paddle speed on the removal of suspended particulate matter in municipal waste water	Gopalakrishnan, V., Velkennedy, R.	International Journal of Civil Engineering and Technology	2017	6	NICHE	6
Efficient dissemination of rainfall forecasting to safeguard farmers from crop failure using optimized neural network model	Ananthanarayanan, B., Balan, S., Balamurali, A.M., Balamurali, K.	International Journal of Intelligent Engineering and Systems	2017	0	NICHE	0
Performance analysis of different classification techniques for the prediction of chronic kidney disease	Subhashini, R., Jeyakumar, M.K.	Journal of Advanced Research in Dynamical and Control Systems	2017	2	NICHE	2
Estimation of annual effective dose due to external and internal exposure in the residents of coastal villages of Kanya Kumari district, Tamil Nadu, India	Jayanthi, D.D., Maniyan, C.G., Perumal, S.	International Journal of Low Radiation,	2017	0	NICHE	0
Method to remove the noisy data DROM captured image of iris and identifying the pupil by detecting its centroid	Abhilash, K.S., Dharun, V.S.	International Journal of Applied Engineering Research	2017	0	NICHE	0
A Review on techniques for computer aided diagnosis of soft markers for detection of down syndrome in ultrasound fetal images	Shiney, O.J., Singh, J.A.P., Shan, B.P.	Biomedical and Pharmacology Journal	2017	0	NICHE	0
Automatic detection of solitary pulmonary nodules using swarm intelligence optimized neural networks on CT images	Nithila, E.E., Kumar, S.S.	Engineering Science and Technology, an International Journal	2017	12	NICHE	12
Effect of geometry of tool pin profile on the mechanical and metallographic Shanavas, S., Edwin Raja Dhas, J., Paulo Davim, J.characteristics of friction stir welded AA 5052-H32 aluminium alloy	Shanavas, S., Edwin Raja Dhas, J., Paulo Davim, J.	Journal of Manufacturing Technology Research	2017	2	NICHE	2
An effective resource management in cloud computing	Mohamed Shameem, P., Johnson, N., Shaji, R.S., Arun, E.	International Journal of Communication Networks and Distributed Systems	2017	3	NICHE	3
Work life balance of employees at Hindustan lever limited, Trivandrum	Dhanya, J.S., Kinslin, D.	International Journal of Applied Business and Economic Research	2017	0	NICHE	0
Vector based classification of dermoscopic images using SURF	Thompson, F., Jeyakumar, M.K.	International Journal of Applied Engineering Research	2017	3	NICHE	3

Synthesis, spectral characterization and anticancer studies of some metal(II) complexes derived from imidazole-2-carboxaldehyde with 2-amino-3-carboxyethyl-4,5-dimethylthiophene	Joseph, S.M., Dhanaraj, C.J., Joseph, J., Joseyphus, R.S.	Oriental Journal of Chemistry	2017	0	NICHE	0
Impact of the school outreach tour program of citizens archive of pakistan on students' perceptions and attitudes	Alam, Q.	International Journal of Instruction	2017	1	NICHE	1
Mechanical performance of magnesium composites containing hybrid Al ₂ O ₃ reinforcement			2017	0	NICHE	0
Mechanical performance of magnesium composites containing hybrid Al ₂ O ₃ reinforcement	Suneesh, E., Sivapragash, M., Silan, T.S.	International Journal of Civil Engineering and Technology	2017	1	NICHE	1
FT-IR, NMR, molecular structure, and HOMO-LUMO studies of 3,5-dimethyl-2-pyridylselenium compounds by density functional theory	Sharma, N., Dhau, J.S., Singh, A., Singh, A., Malik, A.K.	Phosphorus, Sulfur and Silicon and the Related Elements	2017	1	NICHE	1
A study on work life balance of women employees at ULCCS Ltd, Kozhikode	Dhanya, J.S., Kinslin, D.	International Journal of Applied Business and Economic Research	2017	1	NICHE	1
Clair model for better work life balance and empowerment of women faculty in professional colleges of Kerala	Dhanya, J.S., Kinslin, D.	International Journal of Applied Business and Economic Research	2017	0	NICHE	0
Experimental performance investigation of tilted solar still with basin and wick for distillate quality and enviro-economic aspects	Sharon, H., Reddy, K.S., Krithika, D., Philip, L.	Desalination	2017	25	NICHE	25
A comprehensive cloud security model with enhanced key management, access control and data anonymization features	Mini, G., Viji, K.S.A.	International Journal of Communication Networks and Information Security	2017	2	NICHE	2
Public Health Eye Care: Modeling Techniques to Translate Evidence Into Effective Action	Murthy, G.V.S., John, N.S.	Handbook of Statistics	2017	0	NICHE	0
Spectroscopic and Second Harmonic Generations Studies of 5-Bromo-2-methoxybenzonitrile by DFT	Kumar, A. Ajay Praveen; Raman, R. Ganapathi	ORIENTAL JOURNAL OF CHEMISTRY	December 2017	0	NICHE	0
An Investigation on the Use of MSER and SIFT for Image Forgery Detection	Sekhar, R.; Shaji, R. S.	JOURNAL OF SCIENTIFIC & INDUSTRIAL RESEARCH	December 2017	0	NICHE	0

An effective resource management in cloud computing	Shameem, P. Mohamed; Johnson, Nimmy; Shaji, R. S.	INTERNATIONAL JOURNAL OF COMMUNICATION NETWORKS AND DISTRIBUTED SYSTEMS	December 2017	1	NICHE	1
A Novel Algorithm for Load Balancing in Mobile Cloud Networks: Multi-objective Optimization Approach	Arun, E.; Reji, Alwin; Shameem, P. Mohammed	WIRELESS PERSONAL COMMUNICATIONS	December 2017	0	NICHE	0
Ocular biometry and determinants of refractive error in a founder population of European ancestry	Hilkert, S.M., Parness-Yossifon, R., Mets-Halgrimson, R., Mets, M.B.	Ophthalmic Genetics	January 2018	2	NICHE	2
Curve fitting and mesh construction in documents	Sruthy, S., Babu, S.S.	Journal of Computational and Theoretical Nanoscience	January 2018	0	NICHE	0
Influence of ball milling on CdO nanoparticles prepared by thermal decomposition	Sagi Rani, C., Thangaraj, G., Suresh, D.M., Joseph John, N.	Oriental Journal of Chemistry	January 2018	1	NICHE	1
An efficient data storage and forwarding mechanism using fragmentation-replication and DADR protocol for enhancing the security in cloud	Divya, S.V., Shaji, R.S., Venkadesh, P.	Journal of Computational and Theoretical Nanoscience	January 2018	1	NICHE	1
The effect of packet redundancy elimination technique in sensor networks	Priya, B.S.D., Enoch, S.	Journal of Computer Science	January 2018	0	NICHE	0
Tourism is a multifaceted industry for generating revenue for the government	Chacko, T., Merlin Thanga Joy, A.	Journal of Advanced Research in Dynamical and Control Systems	January 2018	0	NICHE	0
Multi resolution feature combined with ODBTC technique for robust CBIR system	Ranjith, V.G., Jeyakumar, M.K., Palanikumar, S.	International Journal of Signal and Imaging Systems Engineering	January 2018	3	NICHE	3
Experimental and theoretical spectroscopic investigations of 4-bromo-3-methylbenzonitrile	Kumar, S., Ganapathi Raman, R.	Oriental Journal of Chemistry	January 2018	0	NICHE	0
Automatic segmentation of chondroblastoma from X-ray images using active contour and levelset method	Muhammed Anshad, P.Y., Kumar, S.S.	International Journal of Engineering and Technology(UAE),	January 2018	0	NICHE	0
Modelling and optimization of friction stir welding parameters of Mg-ZE42 alloy using grey relational	Darwins, A.K., Satheesh, M.,	IOP Conference Series: Materials Science and	January 2018	5	NICHE	5

analysis with entropy measurement	Ramanan, G.	Engineering				
Distributed agent based selective forwarding attack detection and response technique for MANET	Cherian, R.K., Nargunam, A.S.	Journal of Advanced Research in Dynamical and Control Systems	January 2018	0	NICHE	0
Prediction and error analysis of tensile strength and micro hardness in electron beam welded copper and stainless steel 304 dissimilar metals joint using intelligent techniques	Ajith Raj, R., Dev Anand, M.	Journal of Advanced Research in Dynamical and Control Systems	January 2018	0	NICHE	0
Design and analysis of compact T shape slotted patch antenna for 4G WiMAX applications	Sreeja, T.K., Jayakumari, J.	International Journal of Enterprise Network Management	January 2018	0	NICHE	0
Total and forcing total edge-to-vertex monophonic number of a graph	John, J., Uma Samundesvari, K.	Journal of Combinatorial Optimization	January 2018	0	NICHE	0
Artifacts removal in Melanoma using various preprocessing filters	Ramya Ravi, R., Vinod Kumar, R.S., Shanila, N.	International Journal of Engineering and Technology(UAE),	January 2018	1	NICHE	1
Modeling and prediction of mechanical strength in Electron Beam Welded dissimilar metal joints of stainless steel 304 and Copper using Grey Relation Analysis	Ajith Raj, R., Dev Anand, M.	International Journal of Engineering and Technology(UAE)	January 2018	1	NICHE	1
Robust breast cancer detection by utilising the multi-resolution features	Gopalakrishnan, T., Rajeesh, J., Palanikumar, S.	International Journal of Signal and Imaging Systems Engineering	January 2018	2	NICHE	2
PSO approach on cutting parameters in awjm process for copper iron alloy	Jai Aultrin, K.S., Dev Anand, M.	Journal of Advanced Research in Dynamical and Control Systems	January 2018	0	NICHE	0
SDN based DDoS attack detection system by exploiting ensemble classification for cloud computing	Vimala, S.T., Dhas, J.P.M.	International Journal of Intelligent Engineering and Systems	January 2018	0	NICHE	0
A varied approach to attribute based access model for secure storage in cloud	Varghese, S., Vigila, S.M.C.	Proceedings of 2017 International Conference on Innovations in Information, Embedded and Communication Systems	January 2018	1	NICHE	1

Antibacterial effect of surface active agent produced by Pseudomonas sp. Isolated from saltpan	Murugan, T., Murugan, M.	Journal of Pharmaceutical Sciences and Research	January 2018	0	NICHE	0
An improved tumor segmentation algorithm from T2 and FLAIR multimodality MRI brain images by support vector machine and genetic algorithm	Sukumaran, A., Glan, D.G., Kumar, S.S.	Cogent Engineering	January 2018	2	NICHE	2
Study on effect of geometric and material parameters on shear loaded notched composite panels	Anoop Kumar, S., Rajesh, R.	International Journal of Civil Engineering and Technology	January 2018	0	NICHE	0
DIGRAPH isomorphism using subdigraph equivalent vertices and degree pair association	Ramachandran, S., Bhanumathy, P.	Ars Combinatoria	January 2018	0	NICHE	0
Viability study of implementing cross flow helical turbine for micropower generation in India	Jayaram, V., Bavanish, B.	International Journal of Renewable Energy Research	January 2018	0	NICHE	0
A meta-heuristic, moth inspired algorithm for combined economic and environmental power dispatch	Mustafa, N., Vennila, H.	International Journal of Enterprise Network Management	January 2018	0	NICHE	0
A novel ASNO segmentation technique for segmenting the JUXTA vascular region	Mathews, A.B., Jeyakumar, M.K.	International Journal of Engineering and Technology(UAE)	January 2018	1	NICHE	1
Optimization-base design of fractional order pi control for multiple tanks ph neutralization process	Rose, P., Scholar, R., Islam, N., Glan Devadhas, G.	Journal of Advanced Research in Dynamical and Control Systems	January 2018	1	NICHE	1
Throughput enhancement of SISO parallel LTE turbo decoders using floating point turbo decoding algorithm	Parvathy, M., Ganesan, R.	International Journal of Wireless and Mobile Computing	January 2018	0	NICHE	0
DIGRAPH ISOMORPHISM USING SUBDIGRAPH EQUIVALENT VERTICES AND DEGREE PAIR ASSOCIATION	Ramachandran, S.; Bhanumathy, P.	ARS COMBINATORIA	January 2018	0	NICHE	0
Experimental and Theoretical Spectroscopic Investigations of 4-Bromo-3-methylbenzonitrile	Shajikumar; Raman, R. Ganapathi	ORIENTAL JOURNAL OF CHEMISTRY	January 2018	0	NICHE	0
Total and forcing total edge-to-vertex monophonic number of a graph	John, J.; Samundesvari, K. Uma	JOURNAL OF COMBINATORIAL OPTIMIZATION	January 2018	0	NICHE	0
Comment on “Microwave dielectric properties of AWO 4 (A = Ca, Ba, Sr) ceramics synthesized via high energy ball milling method” by Lin Cheng, Peng Liu, Shi-Xian Qu, Huai-Wu Zhang, J. Alloys Compd. 581 (2013) 553–557	Balamurugan, S., Sana Fathima, T.K., Veluraja, K.	Journal of Alloys and Compounds	February 2018	0	NICHE	0
Effectiveness of platelet rich plasma and bone graft in the treatment of intrabony defects:	Jalaluddin, M., Mahesh, J., Mahesh,	Open Dentistry	February	2	NICHE	2

A clinico-radiographic study	R., Jayanti, I., Faizuddin, M., Kripal, K., Nazeer, N.	Journal	2018			
Risk reduction using grievance handling mechanism in handloom industry	Auguskani, P.L., Devi, V.S., Raju, A.D.J., Priya, J.M.J., Beno, M.M.	IEEE International Conference on Industrial Engineering and Engineering Management	February 2018	0	NICHE	0
A secure transaction of cloud data using conditional source trust attributes encryption mechanism	Brindha, T., Shaji, R.S.	Soft Computing	February 2018	4	NICHE	4
An approach for rational design and structural analysis of a hexa-copter	Girijadevi, L.T., Bino Prince Raja, D., Prabhu, A.S.	International Journal of Mechanical and Production Engineering Research and Development	February 2018	0	NICHE	0
Experimental analysis of friction stir welding of dissimilar alloys AA7075 and mg ZE42 using butt joint geometry	Darwins, A.K., Satheesh, M., Ramanan, G.	International Journal of Mechanical and Production Engineering Research and Development	February 2018	1	NICHE	1
Strength evaluation of laterite soil stabilized using polymer fibers	Menon, J., Ravikumar, M.S.	International Journal of Civil Engineering and Technology	February 2018	2	NICHE	2
Effect of fibres on the compressive strength of hollow concrete blocks	Sunil, J., Kumar, M.S.R.	International Journal of Civil Engineering and Technology	February 2018	1	NICHE	1
CFD simulation and second law analysis of weir-type cascade solar stills with different number and dimensions of steps	Alipanah, F., Rahbar, N.	Desalination and Water Treatment	February 2018	4	NICHE	4
A secure transaction of cloud data using conditional source trust attributes encryption mechanism	Brindha, Thomas; Shaji, Ramaswamy Swarnammal	SOFT COMPUTING	February 2018	2	NICHE	2
Comment on "Microwave dielectric properties of AWO(4) (A = Ca, Ba, Sr) ceramics synthesized via high energy ball milling method" by Lin Cheng, Peng Liu, Shi-Xian Qu, Huai-Wu Zhang, J. Alloys Compd. 581 (2013) 553-557	Balamurugan, S.; Fathima, T. K. Sana; Veluraja, K	JOURNAL OF ALLOYS AND COMPOUNDS	February 2018	2	NICHE	2
Effect of thermo gravimetric and FT-IR analysis on friction stir processed Mg-ZE42 alloy	Darwins, A.K., Satheesh, M.,	Rasayan Journal of	March	1	NICHE	1

	Ramanan, G.	Chemistry	2018			
Efficient OFDM transceiver design for VLC systems in fading channel	Jayakumari, J., Rakhi, K.J.	International Journal of Engineering and Technology(UAE),	March 2018	0	NICHE	0
Design and analysis of a plate heat exchanger in the view of performance improvement and cost reduction	Jamshak, S.H., Dev Anand, M., Akshay, S.B., Arun, S., Prajeev, J., Prabhakaran, P.	International Journal of Engineering and Technology(UAE)	March 2018	0	NICHE	0
A speed control of DC motor with PWM using microcontroller in hardware in loop	Reeba Rex, S., Praba, M.S.R.	International Journal of Engineering and Technology(UAE)	March 2018	0	NICHE	0
PI control of statcom with BAT algorithm	Felix Stephen, S., Jacob Raglend, I.	Journal of Advanced Research in Dynamical and Control Systems	March 2018	0	NICHE	0
The preparation and mechanical properties of Al metal matrix composites by in-situ method	Mohan, P., Azhagesan, N., Sivapragash, M.	International Journal of Computer Aided Engineering and Technology	March 2018	1	NICHE	1
Design of fractional order PI controller with ABC and BBO algorithm for pH neutralization process using multiple tanks	Pravin Rose, T., Glan Devadhas, G.	Journal of Advanced Research in Dynamical and Control Systems	March 2018	0	NICHE	0
Boron Nitride reinforced polylactic acid composites film for packaging: Preparation and properties	Bindhu, B., Renisha, R., Roberts, L., Varghese, T.O.	Polymer Testing	April 2018	3	NICHE	3
Eco-friendly preparation of zinc oxide nanoparticles using Tabernaemontana divaricata and its photocatalytic and antimicrobial activity	Raja, A., Ashokkumar, S., Pavithra Marthandam, R., Jayachandiran, J., Khatiwada, C.P., Kaviyarasu, K., Ganapathi Raman, R., Swaminathan, M.	Journal of Photochemistry and Photobiology	April 2018	74	NICHE	74
Design and analysis of wind turbine blades	Nambi, S.S., Herbert, G.M.J.	International Journal of Mechanical Engineering and Technology	April 2018	0	NICHE	0
Forecasting of Stock Market by Combining Machine Learning and Big Data Analytics	Joneston Dhas, J.L., Maria Celestin Vigila, S., Ezhil Star, C.	Communications in Computer and Information Science	April 2018	0	NICHE	0
Impact of pulse-triggered flip-flops in low power applications	John, K., Vinod Kumar, R., Kumar, S.	Journal of Advanced Research in	April	8	NICHE	8

		Dynamical and Control Systems	2018			
MQMS - An Improved Priority Scheduling Model for Body Area Network Enabled M-Health Data Transfer	Minimol, V.K., Shaji, R.S.	Communications in Computer and Information Science	April 2018	0	NICHE	0
Dynamic VM consolidation enhancement for designing and evaluation of energy efficiency in green data centers using regression analysis	Sajitha, A.V., Subhajini, A.C.	International Journal of Engineering and Technology(UAE)	April 2018	0	NICHE	0
Vibrational Analysis and Non Linear Optical Activity of 3-fluoro-4-methylbenzonitrile	Sugirtha Suni, N.Y., GURU PRASAd, L., Ganapathi Raman, R.	Oriental Journal of Chemistry	April 2018	0	NICHE	0
Preventing data loss even when the security system compromise	Renu, S., Krishna Veni, S.H.	Journal of Applied Engineering Science,	April 2018	0	NICHE	0
Improvement of power quality in microgrids using predictive controller	Prabhakar, P., Vennila, H.	International Journal of Intelligent Systems Technologies and Applications	April 2018	0	NICHE	0
Tubing material selection for nuclear power plant heat exchangers	Anandan, S., Rajesh, R.	International Journal of Mechanical Engineering and Technology	April 2018	0	NICHE	0
Passengers queue analysis in international airports terminals in Kerala using multiphase queuing system	Aniyeri, R., Nadar, R.	International Journal of Mathematics in Operational Research	April 2018	4	NICHE	4
A new diffusion and substitution based cryptosystem for securing medical image applications	Mancy, L., Vigila, S.M.C.	International Journal of Electronic Security and Digital Forensics	April 2018	6	NICHE	6
Gene selection approaches for classifying disease relevant data sample	Briso Becky Bell, J., Maria Celestin Vigila, S.	International Journal of Engineering and Technology(UAE)	April 2018	0	NICHE	0
A MPPT strategy based on cuckoo search for wind energy conversion system	Centhil Kumar, C., Jacob Raglend, I.	International Journal of Engineering and Technology(UAE),	April 2018	0	NICHE	0
A heuristic fuzzy clustering approach for defect detection on titanium coated metal surface	Aslam, Y., Santhi, N., Ramasamy, N., Ramar, K.	Journal of Advanced Research in Dynamical and Control Systems	April 2018	2	NICHE	2
Action of IMC and pole placement controllers	Kabila, V., Glan Devadhas, G.	Journal of Advanced Research in	April	0	NICHE	0

implemented to Csth process		Dynamical and Control Systems	2018			
Modern optimization based controller design for boost converter using soft computing techniques	Reeba Rex, S., Mary Synthia Regis Praba, D.M.	Journal of Advanced Research in Dynamical and Control Systems	April 2018	1	NICHE	1
Eco-friendly preparation of zinc oxide nanoparticles using Tabernaemontana divaricata and its photocatalytic and antimicrobial activity	Raja, A.; Ashokkumar, S.; Marthandam, R. Pavithra	JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY	April 2018	25	NICHE	25
Comprehensive studies on processing and characterization of hybrid magnesium composites	Suneesh, E.; Sivapragash, M.	MATERIALS AND MANUFACTURING PROCESSES	April 2018	3	NICHE	3
Boron Nitride reinforced polylactic acid composites film for packaging: Preparation and properties	Bindhu, B.; Renisha, R.; Roberts, Libin	POLYMER TESTING	April 2018	0	NICHE	0
Effectiveness of Platelet Rich Plasma and Bone Graft in the Treatment of Intrabony Defects: A Clinicoradiographic Study	Jalaluddin, Mohammad; Mahesh, Jayachandran; Mahesh, Rethi	OPEN DENTISTRY JOURNAL	April 2018	1	NICHE	1
IOT based smart street light management system	Dheena, P.P.F., Raj, G.S., Dutt, G., Jinny, S.V.	IEEE International Conference on Circuits and Systems	March 2018	11	NICHE	11
DUET using automatic peak detection and histogram thresholding	Abdulla, S.M., Jayakumari, J.	IEEE International Conference on Circuits and Systems	March 2018	0	NICHE	0
A survey on the design and performance of various MAC unit architectures	Rakesh, S., Grace, K.S.V.	IEEE International Conference on Circuits and Systems	March 2018	6	NICHE	6
ORBOT - An efficient & intelligent mono copter	Das, M.K., Kumar, P.M., Anitha, A.	IEEE International Conference on Circuits and Systems	March 2018	0	NICHE	0
Margin based feature selection: An algorithmic approach for a set of attributes extrication	Preetha, R., Jinny, S.V.	IEEE International Conference on Circuits and Systems	March 2018	0	NICHE	0
Eye gaze tracking based driver monitoring system	Mavelly, A.G., Judith, J.E., Sahal, P.A., Kuruvilla, S.A.	IEEE International Conference on Circuits and Systems	March 2018	4	NICHE	4

Mechanical characteristics of sandwich palm/glass based polymer composite	Edwin Raja Dhas, J., Pradeep, P., Akhil, S., Daniel King, S.	IEEE International Conference on Circuits and System	March 2018	0	NICHE	0
A review analysis of parallel prefix adders for better performance in VLSI applications	Daphni, S., Grace, K.S.V.	IEEE International Conference on Circuits and Systems	March 2018	3	NICHE	3
Text to speech synthesis system for Tamil using HMM	Jalin, A.F., Jayakumari, J.	IEEE International Conference on Circuits and Systems	March 2018	3	NICHE	3
Survey of data and storage security in cloud computing	Rajeswari, S., Kalaiselvi, R.	IEEE International Conference on Circuits and Systems	March 2018	5	NICHE	5
Performance enhancing techniques in cognitive radio networks	Sumi, M.S., Ganesh, R.S.	IEEE International Conference on Circuits and Systems	March 2018	2	NICHE	2
A state of the art review on copy move forgery detection techniques	Dhanya, R., Selvi, R.K.	IEEE International Conference on Circuits and Systems	March 2018	1	NICHE	1
A survey on future research about electron beam welding for aerospace applications	Ajith Raj, R., Dev Anand, M.	China Welding (English Edition),	March 2018	1	NICHE	1
A survey on future research about electron beam welding for aerospace applications	Ajith Raj, R., Dev Anand, M.	China Welding (English Edition),	March 2018	1	NICHE	1
A scientometric profile of Vikram Sarabhai Space Center (VSSC) based on scopus database	Vijayakumar, M., Stephen, S.L., Mary, A.L.	Innovations in Measuring and Evaluating Scientific Information	March 2018	0	NICHE	0
Prevalence of refractive error, presbyopia, and unmet need of spectacle coverage in a northern district of Bangladesh: Rapid Assessment of Refractive Error study	Muhit, M., Minto, H., Parvin, A., Jadoon, M.Z., Islam, J., Yasmin, S., Khandaker, G.	Ophthalmic Epidemiology	March 2018	1	NICHE	1
Microstructural evaluation and tensile characterization of electron beam welded dissimilar metal joints of copper and Stainless Steel 304	Ajith Raj, R., Dev Anand, M.	International Journal of Mechanical Engineering and Technology	March 2018	3	NICHE	3
IPS packet scheduling scheme for wireless sensor networks	Joy, R.P., Dheeba, J.	Proceedings of IEEE International Conference on Signal Processing	March 2018	2	NICHE	2

		and Communication				
A method of A-BAT algorithm based query optimization for crowd sourcing system	Cincy, W.C., Jeba, J.R.	International Journal of Intelligent Systems and Applications	March 2018	0	NICHE	0
Prediction of angular distortion in the fiber laser keyhole welding process based on a variable-fidelity approximation modeling approach	Zhou, Q., Cao, L., Zhou, H., Huang, X.	Journal of Intelligent Manufacturing	March 2018	2	NICHE	2
Modelling and prediction of machining parameters in composite manufacturing using artificial neural network	Ramanan, G., Samuel, G.D., Sherin, S.M., Samuel, K.	IOP Conference Series: Materials Science and Engineering	March 2018	6	NICHE	6
An investigation of air flow and thermal comfort of modified conventional car cabin using computational fluid dynamics	Ibrahim, S., Mehta, R.C.	Journal of Applied Fluid Mechanics	March 2018	0	NICHE	0
Novel optimization technique to charge E-rickshaw battery using single sensor based MPPT of SPV module	Ansari, A.Q., Hasan, M., Islam, N.	Journal of Intelligent and Fuzzy Systems	March 2018	0	NICHE	0
Low power multiply accumulate unit based on modified hybrid Han Carlson adder	Rakesh, S., Vijula Grace, K.S.	Progress in Color, Colorants and Coatings	March 2018	0	NICHE	0
Microstructural characterizations using SEM/EDAX and X-ray diffraction analysis on tig and electron beam welded dissimilar metal joints of copper and stainless steel 304	Ajith Raj, R., Dev Anand, M.	Journal of Advanced Research in Dynamical and Control Systems	March 2018	0	NICHE	0
Comparative study of de-duplication methods for sensor data in cloud storage	Beulah, S., Dhanaseelan, F.R.	Journal of Computational and Theoretical Nanoscience	March 2018	0	NICHE	0
Soft Computing and Face Recognition: A Survey	Anil, J., Lekshmi Kanthan, P.S., Krishna Veni, S.H.	Communications in Computer and Information Science	April 2018	0	NICHE	0
Analysis of Scheduling Algorithms in Hadoop	Murali, J.A., Brindha, T.	Communications in Computer and Information Science	April 2018	0	NICHE	0
Discrete Time vs Agent Based Techniques for Finding Optimal Radar Scan Rate - A Comparative Analysis	hi, R.V., Chandrashekhar, N.	Communications in Computer and Information Science	April 2018	1	NICHE	1
Fabrication and study of mechanical properties of eco-friendly banana fibre-natural	Gopakumar, R., Rajesh, R.	International Journal of Environment and	April	0	NICHE	0

rubber latex composites		Waste Management	2018			
An optimal method for duplication detection and elimination from air pollution data of wireless sensor network	Beulah, S., Ramesh Dhanaseelan, F.	International Journal of Environment and Waste Management	April 2018	1	NICHE	1
Development and characterisation of eco-friendly 40% v/v Hybrid Banana/Sisal fibers-natural rubber latex composite	Gopakumar, R., Rajesh, R.	Journal of Engineering and Applied Sciences	April 2018	0	NICHE	0
An experimental study on impact of molecular weight of peg on properties of m25 grade self curing concrete	Vaisakh, G., Ravi Kumar, M.S., Siva Bala, P.	International Journal of Civil Engineering and Technology	May 2018	0	NICHE	0
Perceived financial literacy and savings behavior of it professionals in Kerala	Pradeep, S., Chandrachoodan Nair, B.	International Journal of Mechanical Engineering and Technology	May 2018	1	NICHE	1
Isolation and identification of Serratia marcescens NASC 1 and optimization of its chitinase production	Abdhul, K., Sakthinarayanan, K., Murugan, M.	Journal of Pharmaceutical Sciences and Research,	May 2018	0	NICHE	0
An experimental study on properties of M50 concrete cured using PEG 400	Vaisakh, G., Kumar, M.S.R., Bala, P.S.	International Journal of Civil Engineering and Technology	May 2018	0	NICHE	0
Experimental investigation on feasibility of self compacting concrete in the manufacture of prefabricated compression elements	Siva Bala, P., Ravi Kumar, M.S., Vaisakh, G.	International Journal of Civil Engineering and Technology	May 2018	0	NICHE	0
Effect of self-compacting concrete in hollow compression members	Siva Bala, P., Ravi Kumar, M.S., Vaisakh, G.	International Journal of Civil Engineering and Technology	May 2018	0	NICHE	0
Fabrication and analysis of 304 stainless steel boron carbide metal matrix composite	Balakrishnan, N., Rajesh, R.	International Journal of Mechanical Engineering and Technology	May 2018	0	NICHE	0
Manufacturing of proto type wind turbine blades using rapid prototype technology	Selvan Nambi, S., Joselin Herbert, G.M.	International Journal of Mechanical and Production Engineering Research and Development	May 2018	0	NICHE	0
Experimental study of basalt fibre reinforced polymer confined rc driven piles subjected to vertical loads	Arul Jose, J.P., Murugan, M., Prakash, E.F.	International Journal of Civil Engineering and Technology	June 2018	0	NICHE	0

Key drivers & factors influencing organized retail sector in KERALA	Nair, S.K., Chandrachoodan Nair, B.	International Journal of Mechanical Engineering and Technology	June 2018	3	NICHE	3
Impact of social media on consumer buying decision towards financial assets among it professionals at kerala	Pradeep, S., Nair, C.	International Journal of Mechanical Engineering and Technology	June 2018	0	NICHE	0
Optimization of PVD process parameter for coating AZ91D magnesium alloy by Taguchi grey approach	Sivapragash, M., Kumaradhas, P., Vettivel, S.C., Retnam, B.S.J.	Journal of Magnesium and Alloys	June 2018	4	NICHE	4
Experimental investigation on concrete using nanosilica as mineral admixture	Roselin, R., Ravikumar, M.S.	International Journal of Civil Engineering and Technology	June 2018	0	NICHE	0
Experimental investigation on pineapple fibre reinforced cement concrete	Roselin, R., Ravikumar, M.S.	International Journal of Civil Engineering and Technology	June 2018	0	NICHE	0
Experimental investigation on effect of partial replacement of coarse aggregate by plastic aggregate on M 40 grade self compacting concrete	Prasoon, P.P., Kumar, M.S.R., Vaisakh, G.	International Journal of Civil Engineering and Technology	June 2018	0	NICHE	0
Optimization of PVD process parameter for coating AZ91D magnesium alloy by Taguchi grey approach	Sivapragash, M.; Kumaradhas, P.; Vettivel, S. C	JOURNAL OF MAGNESIUM AND ALLOYS	June 2018	1	NICHE	1

3.4.6 h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding self citations	Institutional affiliation as mentioned in the publication
Crystal growth, spectroscopic, DFT computational and third harmonic generation studies of nicotinic acid	Thaya Kumari, C.R., Nageshwari, M., Raman, R.G., Caroline, M.L.	Journal of Molecular Structure	July 2018	89	12	NICHE
Mechanical, morphological and thermal characterization of hybrid bamboo/glass fiber reinforced	Bino Prince Raja, D., Retnam, B.S.J., Antony Samuel Prabu, G., Alagu	Rasayan Journal of Chemistry	July 2018	18	4	NICHE

polyester composites	Sundaram, A.					
Mechanical, morphological and thermal characterization of hybrid bamboo/glass fiber reinforced polyester composites	Bino Prince Raja, D., Retnam, B.S.J., Antony Samuel Prabu, G., Alagu Sundaram, A.	Rasayan Journal of Chemistry	July 2018	18	4	NICHE
Synthesis and characterization of magnesium-based hybrid composites – A review	Eacherath, S., Murugesan, S.	International Journal of Materials Research	July 2018	55	3	NICHE
Synthesis and characterization of magnesium-based hybrid composites - A review	Eacherath, Suneesh; Murugesan, Sivapragash	INTERNATIONAL JOURNAL OF MATERIALS RESEARCH	July 2018	55	1	NICHE
Robust breast cancer detection by utilising the multiresolution features	Gopalakrishnan, T.; Rajeesh, J.; Palanikumar, S.	INTERNATIONAL JOURNAL OF SIGNAL AND IMAGING SYSTEMS ENGINEERING	July 2018	9	0	NICHE
Multi resolution feature combined with ODBTC technique for robust CBIR system	Ranjith, V. G.; Jeyakumar, M. K.; Palanikumar, S	INTERNATIONAL JOURNAL OF SIGNAL AND IMAGING SYSTEMS ENGINEERING	July 2018	9	0	NICHE
Optimization of Multiple Performance Characteristics of Friction Stir Welded Joint with Grey Relational Analysis	Shamsudeen, Shtutavas; Dhas, John Edwin Raja	MATERIALS RESEARCH-IBERO-AMERICAN JOURNAL OF MATERIALS	July 2018	36	0	NICHE
An improved tumor segmentation algorithm from T2 and FLAIR multimodality MRI brain images by support vector machine and genetic algorithm	Sukumaran, Aswathy; Gnan, Devadhas G.; Kumar, S. S.	COGENT ENGINEERING	July 2018	-	0	NICHE
Viability Study of Implementing Cross Flow Helical Turbine for Micropower Generation in India	Jayaram, V; Bavanish, B.	INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH	July 2018	-	0	NICHE
Influence of Ball Milling on CdO Nanoparticles Prepared By Thermal Decomposition	Rani, C. . Sagi; Thangaraj, G.; Suresh, D. M	ORIENTAL JOURNAL OF CHEMISTRY	July 2018	-	0	NICHE
Crystal growth, spectroscopic, DFT computational and third harmonic generation studies of nicotinic acid	Kumari, C. Rathika Thaya; Nageshwari, M.; Raman, R. Ganapathi	JOURNAL OF MOLECULAR STRUCTURE	July 2018	-	1	NICHE
Fluid-structure interaction of cropped delta wing with experimental validation	Arun, M.P., Satheesh, M., Edwin Raja Dhas, J.	International Journal of Mechanical and Production Engineering Research and Development	August 2018	-	1	NICHE
Block Allocation Strategy for Multiple Input Multiple Output (MIMO)–Orthogonal Frequency Division Multiple Access (OFDMA)	Benita, J., Jayaparvathy, R.	Wireless Personal Communications	August 2018	-	0	NICHE

System						
Design and analysis of air flow depression for air-conditioning in small passenger cabin using solid works	Ibrahim, S., Mehta, R.C.	International Journal of Mechanical and Production Engineering Research and Development	August 2018	9	0	NICHE
Mechanical behaviour of processed PP/PVC laminates	Aniber Benin, M., Stanly Jones Retnam, B., Edwin Sahayaraj, M.	International Journal of Mechanical Engineering and Technology	August 2018	13	0	NICHE
Behavior of plastic aggregates in ecofriendly concrete	Shalini, J., Ravikumar, M.S., Nalanth, N., Janardhanan, K.A.	International Journal of Civil Engineering and Technology	August 2018	18	0	NICHE
Green synthesis of zinc oxide nanoparticles using Atalantia monophylla leaf extracts: Characterization and antimicrobial analysis	Vijayakumar, S., Mahadevan, S., Arulmozhi, P., Sriram, S., Praseetha, P.K.	Materials Science in Semiconductor Processing	August 2018	49	14	NICHE
Preparation of an efficient and safe polymeric-magnetic nanoparticle delivery system for sorafenib in hepatocellular carcinoma	Tom, G., Philip, S., Isaac, R., Praseetha, P.K., Jiji, S.G., Asha, V.V.	Life Sciences	August 2018	150	3	NICHE
Monophonic wirelength on Circulant Networks	Uma Samundesvari, K., Michael, S.G.	International Journal of Engineering and Technology(UAE),	August 2018	18	0	NICHE
Green synthesis of zinc oxide nanoparticles using Atalantia monophylla leaf extracts: Characterization and antimicrobial analysis	Vijayakumar, S.; Mahadevan, S.; Arulmozhi, P	MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING	August 2018	49	6	NICHE
Preparation of an efficient and safe polymeric-magnetic nanoparticle delivery system for sorafenib in hepatocellular carcinoma	Tom, Greeshma; Philip, Sheena; Isaac, Rimal	LIFE SCIENCES	August 2018	150	2	NICHE
Block Allocation Strategy for Multiple Input Multiple Output (MIMO)-Orthogonal Frequency Division Multiple Access (OFDMA) System	Benita, J.; Jayaparvathy, R.	WIRELESS PERSONAL COMMUNICATIONS	August 2018	48	0	NICHE
Vibrational Analysis and Non Linear Optical Activity of 3-fluoro-4-methylbenzonitrile	Suni, N. Y. Sugirtha; Prasad, L. Guru; Raman, R. Ganapathi	ORIENTAL JOURNAL OF CHEMISTRY	August 2018	18	0	NICHE
Comprehensive studies on processing and characterization of hybrid magnesium composites	Suneesh, E., Sivapragash, M.	Materials and Manufacturing Processes	September 2018	53	6	NICHE
Throughput Maximization on Efficient Load Balancing in Cloud Task Scheduling Using Enhanced Bee Colony Algorithm	Shameer, A.P., Subhajini, A.C.	International Conference on Current Trends in Computer, Electrical, Electronics and Communication	September 2018	13	0	NICHE
Neighborhood degrees	Ramachandran, S.	Utilitas	September	24	0	NICHE

associated reconstruction of digraphs for Ulam's conjecture		Mathematica	2018			
In vitro analysis of shear bond strength and adhesive remnant index of stainless steel brackets with different adhesive systems to enamel	Vaheed, N.A., Gupta, M., David, S.A., Sam, G., Ramanna, P.K., Bhagvandas, S.C.	Journal of Contemporary Dental Practice	September 2018	38	0	NICHE
NEIGHBORHOOD DEGREES ASSOCIATED RECONSTRUCTION OF DIGRAPHS FOR ULAM'S CONJECTURE	Ramachandran, S.	UTILITAS MATHEMATICA	September 2018	24	0	NICHE
Distributive Politics in Malaysia: Maintaining Authoritarian Party Dominance	Washida, H.	Distributive Politics in Malaysia: Maintaining Authoritarian Party Dominance	October 2018	0	1	NICHE
Optimizing parameters of TIG welding process using grey wolf optimization concerning 15CDV6 steel	Skariya, P.D., Satheesh, M., Dhas, J.E.R.	Evolutionary Intelligence	October 2018	19	0	NICHE
Cuttlefish optimization control of solar PV array fed landsman converter	Gayathri, A.R., Mary Synthia Regis Prabha, D.M.	International Journal of Pharmaceutical Research	October 2018	8	0	NICHE
An efficient mode detection technique of pulmonary nodule in lung cancer	Mathews, A.B., Jeyakumar, M.K.	International Journal of Pharmaceutical Research	October 2018	8	0	NICHE
Measurement noise analysis of marginalized particle filter for target tracking applications	Jayamohan, S., Nagarajan, S., Kadarkaraiyandi, R.	International Journal of Simulation: Systems, Science and Technology	October 2018	18	2	NICHE
Effect of supplementary cementitious materials on the strength of concrete and hollow concrete blocks	Sunil, J., Kumar, M.S.R.	International Journal of Civil Engineering and Technology	October 2018	18	0	NICHE
Identification and isolation of antimicrobial compounds from the flower extract of Hibiscus rosa-sinensis L: In silico and in vitro approaches	Vijayakumar, S., Morvin Yabesh, J.E., Arulmozhi, P., Praseetha, P.K.	Microbial Pathogenesis	October 2018	64	0	NICHE
Optimizing parameters of TIG welding process using grey wolf optimization concerning 15CDV6 steel	Skariya, P. D.; Satheesh, M.; Dhas, J. Edwin Raja	EVOLUTIONARY INTELLIGENCE	October 2018	19	0	NICHE
A new diffusion and substitution based cryptosystem for securing medical image applications	Mancy, L.; Vigila, S. Maria Celestin	INTERNATIONAL JOURNAL OF ELECTRONIC SECURITY AND DIGITAL FORENSICS	October 2018	10	0	NICHE
An Investigation of Air Flow and Thermal Comfort of Modified Conventional Car Cabin using Computational Fluid Dynamics	Ibrahim, S.; Mehta, R. C.	JOURNAL OF APPLIED FLUID MECHANICS	October 2018	21	0	NICHE

Identification and isolation of antimicrobial compounds from the flower extract of Hibiscus rosa-sinensis L: In silico and in vitro approaches	Vijayakumar, S.; Yabesh, J. E. Morvin; Arulmozhi,	MICROBIAL PATHOGENESIS	October 2018	64	0	NICHE
Emerging Access Control Techniques in Cloud Computing: A Survey	Venifa Mini, G., Angel Viji, K.S.	Proceedings of the 2nd International Conference on Trends in Electronics and Informatics	November 2018	-	0	NICHE
Feature extraction and image classification using particle swarm optimization by evolving rotationinvariant image descriptors	Athira Lekshmi, B.A., Flower Queen, M.P., Arul Linsely, J., Babu Aurtherson, P.	International Conference on Emerging Trends and Innovations In Engineering And Technological Research	November 2018	-	0	NICHE
Three dimensional space vector modulation for three phase four leg inverters - A review	Padhmakumar, P.K., Flower Queen, M.P., Babu Aurtherson, P.	International Conference on Emerging Trends and Innovations In Engineering And Technological Research	November 2018	-	0	NICHE
Sufficient conditions for the nda-reconstructibility of all digraphs	Ramachandran, S.	Utilitas Mathematica	November 2018	-	0	NICHE
Mechanical and water absorption of injection moulded pineapple leaf fiber reinforced polylactic acid composites	Darsan, R.S., Jones Retnam, B.S., Sivapragash, M.	International Journal of Mechanical Engineering and Technology	November 2018	-	0	NICHE
SUFFICIENT CONDITIONS FOR THE NDARECONSTRUCTIBILITY OF ALL DIGRAPHS	Ramachandran, S.	UTILITAS MATHEMATICA	November 2018	-	0	NICHE
A novel crow search based strategy for maximum power point tracking of wind turbines driven by doubly fed induction generator	Centhil Kumar, C., Raglend, I.J.	International Journal of Simulation: Systems, Science and Technology	December 2018	-	0	NICHE
A robust image watermarking system based on EDWT and SVD	Thomas, R., Sucharitha, M.	ARNP Journal of Engineering and Applied Sciences	December 2018	-	0	NICHE
Performance analysis of machine learning based classifiers for the diagnosis of lung cancer & comparison	Mathews, A.B., Jeyakumar, M.K.	Indian Journal of Public Health Research and Development	December 2018	-	0	NICHE
An effective surface defect detection method using adaptive thresholding fused with PSO algorithm	Aslam, Y., Santhi, N., Ramasamy, N., Ramar, K.	International Journal of Simulation: Systems, Science and Technology	December 2018	18	0	NICHE
Use of recycled brick aggregates in self compcting concrete	Sivamalar, C., Nalanth, N., Shijumon, V., Shalini, J.	International Journal of Civil Engineering and Technology	December 2018	-	0	NICHE
Network-conscious vm placement for energy efficiency	A.v, S., Subhajini, A.C.	International Journal of	December 2018	-	0	NICHE

in green data centres through dynamic vm consolidation		Engineering and Advanced Technology				
Reliable cbir system for fabric images based on nsct and ldp features	Alan Gowri Phivin, V., Subhajini, A.C.	International Journal of Engineering and Advanced Technology	December 2018	20	0	NICHE
Noise reduction using character density approach	Joseph, J., Jeba, J.R.	International Journal of Engineering and Advanced Technology	December 2018	20	1	NICHE
Wear characteristics of titanium carbides and MOS 2 reinforced aluminium hybrid composites	Rajesh Prabha, N., Ramanan, G., Neela Rajan, R.R., Ponsuthir Sajan, S.	International Journal of Mechanical and Production Engineering Research and Development	December 2018	9	0	NICHE
Review on the current construction and demolition waste management framework	Rema, R., Nalanth, N., Vincent, P., Janardhanan, K.A.	International Journal of Civil Engineering and Technology	December 2018	18	0	NICHE
Semi-supervised change detection method using phase congruency and local binary pattern (PC-LBP)	Dalmiya, C.P., Santhi, N., Sathyabama, B.	International Journal of Simulation: Systems, Science and Technology	December 2018	-	0	NICHE
A novel adaptive marginalized particle filter for mixed linear / nonlinear state-space models	Jayamohan, S., Nagarajan, S., Kadarkaraiyandi, R.	International Journal of Simulation: Systems, Science and Technology	December 2018	18	1	NICHE
Open-labeled randomized controlled trial to evaluate the 1-year clinical outcomes of polymer-free sirolimus-eluting coronary stents as compared with biodegradable polymer-based sirolimus-eluting coronary stents	Viswanathan, S., Gopinath, K., Koshy, G., Gupta, P.N., Velappan, P.	Indian Heart Journal	December 2018	35	0	NICHE
Unimodal biometric based security application by exploiting retina	Sasikala, T.S., Sankar, K.S.	International Journal of Engineering and Advanced Technology	December 2018	20	2	NICHE
Enbase: Energy-conscious sla-oriented dynamic vm consolidation heuristics in green data centres using ant colony system	Sajitha, A.V., Subhajini, A.C.	International Journal of Engineering and Advanced Technology	December 2018	20	0	NICHE
Effective utilization of plastic waste material in the production of environmental friendly concrete	Shalini, J., Ravikumar, M.S., Nalanth, N., Kannan, S.U.	International Journal of Civil Engineering and Technology	December 2018	18	0	NICHE
Segmentation of lung from CT using various active contour models	Nithila, Ezhil E.; Kumar, S. S.	BIOMEDICAL SIGNAL PROCESSING AND CONTROL	January 2019	-	0	NICHE
Effect of short fibre orientation	Raja, D. Bino Prince;	BULLETIN OF	January	63	0	NICHE

on the mechanical characterization of a composite material-hybrid fibre reinforced polymer matrix	Retnam, B. Stanly Jones	MATERIALS SCIENCE	2019			
An insight into the molecular and surface state photoluminescence of carbon dots revealed through solvent-induced modulations in their excitation wavelength dependent emission properties	Gharat, Poojan Milan; Chethodil, Jiddhu M.; Srivastava, Amit P	PHOTOCHEMICAL & PHOTOBIOLOGICAL SCIENCES	January 2019	86	2	NICHE
Process Parameter Correlation in Low Pressure Hydro Forming of 6063-O Aluminium Tubes	Raj, J. Saji Soundara; Christopher, T.; Kalaichelvan, K.	MECHANIKA	January 2019	20	2	NICHE
A Real Time Extreme Learning Machine for Software Development Effort Estimation	Pillai, Kanakasabhapathi; Jeyakumar, Muthayyan	INTERNATIONAL ARAB JOURNAL OF INFORMATION TECHNOLOGY	January 2019	22	0	NICHE
Characterization, wear surface roughness and tensile failure analysis of Al7075-TiC-MoS2 hybrid composites using online acoustic emission	Ramanan, G.; Suresh, S.; Prabha, N. Rajesh	MATERIALS RESEARCH EXPRESS	January 2019	21	0	NICHE
Comparative study of different extraction processes for hemp (Cannabis sativa) seed oil considering physical, chemical and industrial-scale economic aspects	Devi, V., Khanam, S.	Journal of Cleaner Production	January 2019	150	6	NICHE
An insight into the molecular and surface state photoluminescence of carbon dots revealed through solvent-induced modulations in their excitation wavelength dependent emission properties	Gharat, P.M., Chethodil, J.M., Srivastava, A.P., Praseetha, P.K., Pal, H., Dutta Choudhury, S.	Photochemical and Photobiological Sciences	January 2019	86	7	NICHE
Segmentation of lung from CT using various active contour models	Nithila, E.E., Kumar, S.S.	Biomedical Signal Processing and Control	January 2019	51	3	NICHE
Modified Starches as Direct Compression Excipients – Effect of Physical and Chemical Modifications on Tablet Properties: A Review	Lawal, M.V.	Starch/Staerke	January 2019	71	3	NICHE
Comparison of skin lesion segmentation methods	Binu Sathiya, S., Kumar, S.S.	Journal of Advanced Research in Dynamical and Control Systems	January 2019	8	0	NICHE
Konsep keperluan keizinan daripada Wali dalam pernikahan wanita berstatus anak dara menurut fiqh Munakahat	Hussain, M.A.	UUM Journal of Legal Studies	January 2019	54	0	NICHE
A novel method for melanoma classification using fuzzy based	Binu Sathiya, S., Kumar,	Journal of Advanced	2019	8	0	NICHE

HKSVM	S.S., Prabin, A.	Research in Dynamical and Control Systems				
Automatic nucleus level breast cancer detection system	Gopalakrishnan, T., Rajeesh, J., Palanikumar, S.	Journal of Advanced Research in Dynamical and Control Systems	2019	8	0	NICHE
Identification of person or data using modified square blockwise approach	Denslin Braja, D.R., Dharun, V.S.	International Journal of Reasoning-based Intelligent Systems	2019	9	0	NICHE
Computational analysis and detection of diabetic aculopathy in retinal images	<u>Dhivyaa, C.R., Vijayakumar, M.</u>	<u>Journal of Medical Systems</u>	2019	63	0	NICHE
Experimental study on change in mechanical characteristics of E glass fibre reinforced epoxy composite by adding carbon nanotube layers	Albert Allen, D., Ramanan, G., Neela Rajan, R.R., Darwins, A.K.	Asian Journal of Chemistry	2019	31	0	NICHE
Methylene blue adsorption from aqueous solution using activated carbon – A review	Praseetha, P.K., Krishnaveni, M.V.	Research Journal of Chemistry and Environment	2019	14	0	NICHE
Review of machine learning-based intrusion detection techniques for MANETs	Hamza, F., Maria Celestin Vigila, S.	Lecture Notes in Networks and Systems	2019	324	0	NICHE
A review of the medical image segmentation algorithms	Anusha Linda Kostka, J.E.	Lecture Notes in Networks and Systems	2019	8	0	NICHE
AFM-SVM technique for clinical decision making	Subhashini, R., Jeyakumar, M.K.	Journal of Advanced Research in Dynamical and Control Systems	2019	35	0	NICHE
AQ-Routing: mobility-, stability aware adaptive routing protocol for data routing in MANET-IoT systems	Serhani, A., Naja, N., Jamali, A.	Cluster Computing	2019	24	0	NICHE
Experimentation and weld parameter optimisation using grey fuzzy analysis	Satheesh, M., Edwin Raja Dhas, J.	International Journal of Industrial and Systems Engineering	2019	2	0	NICHE
Image clustering and retrieval using L ^T CoP similarity measures	Alan Gowri Phivin, V., Subhajini, A.C.	International Journal of Engineering Research and Technology	2019	20	0	NICHE
Process parameter correlation in low pressure hydro forming of 6063-O aluminium tubes	Raj, J.S.S., Christopher, T., Kalaichelvan, K.	Mechanika	2019	20	0	NICHE
Time conserving CBIR system for fabric images based on color and texture features	Alan Gowri Phivin, V., Subhajini, A.C.	International Journal of Recent Technology and	2019	20	0	NICHE

		Engineering				
Network-conscious VM placementfor energy efficiency in green datacentres through dynamic VMconsolidation	Sajitha, A.V., Subhajini, A.C.	International Journal of Recent Technology and Engineering	2019	2	0	NICHE
A proficient satellite image buildingdetection using fuzzy and neuralnetwork techniques	Kala, S., Jeyakumar, M.K.	International Journal of Engineering Research and Technology	2019	2	0	NICHE
Optimal design and analysis of various shapes micro-strip antenna'susing evolutionary algorithms	Subramanian, P., Therese, P.S.	International Journal of Engineering Research and Technology	2019	7	0	NICHE
Reconstruction of infra orbital rimwith rib cartilage	Hussain, M., Nair, A., Kumar, G., Shahid, M.	Indian Journal of Dental Research	2019	20	0	NICHE
Analysis of fractional order pi controller with cuckoo optimizationfor multi tank process	Pravin Rose, T., Glan Devadhas, G.	International Journal of Recent Technology and Engineering	2019	0	0	NICHE
Sheilding effectiveness of aluminiumsheet for radiation hazard from celltowers	Thulasi, D.V., Shanthi, S.A.	International Journal of Innovative Technology and Exploring Engineering	2019	9	0	NICHE
Computer aided diagnosis of lungtumor using various classificationtechniques	Mathews, A.B., Jeyakumar, M.K.	International Journal of Mechanical and Production Engineering Research and Development	2019	20	0	NICHE
Design of a noval controller to maintain DC level of PV system forlow voltage applications	Bibin Raj, V.S., Glan Devadhas, G.	International Journal of Recent Technology and Engineering	2019	12	0	NICHE
Biofilm forming abilities of microorganisms associated withdiabetic wound infection: A studyfrom a tertiary care hospital	Premanath, R., Suresh, S., Alva, P.P., Akash, S.K.	Biomedical and Pharmacology Journal	2019	8	0	NICHE
Segmentation of melanoma usingtricclass thresholding in dermoscopicimages	Ramya Ravi, R., Vinod Kumar, R.S., Shanila, N.	Journal of Advanced Research in Dynamical and Control Systems	2019	8	0	NICHE
Analysis of ph neutralization usingANFIS based queuing algorithm	Pravin Rose, T., Glan Devadhas, G.	Journal of Advanced Research in Dynamical and Control Systems	2019	8	0	NICHE
Spinal canal abnormalities in earlstage detection of scoliosis	Warrier, G.S., Angel Viji,	Journal of Advanced	2019	10	0	NICHE

disease:A review	K.S.	Research in Dynamical and Control Systems				
In-vitro chick chorioallantoic membrane study of chitosan capped 5-fluorouracil conjugated gold nanoparticles	Rajan, A., Praseetha, P.K., Hadi Lafta, M., Ariharan, V.N., Gopu Kumar, S.T.	Annals of Tropical Medicine and Public Health	2019	39	0	NICHE
Neuroanatomical correlates of apathy and disinhibition in behavioural variant frontotemporal	Sheelakumari, R., <u>Bineesh, C., Varghese, T., (...), Verghese, J., Mathuranath, P.S.</u>	Brain Imaging and Behavior	2019	8	0	NICHE
Retinal abnormalities in prodromal stage detection of Alzheimer's disease: A review	Das, N.S., Palanikumar, S.	Journal of Advanced Research in Dynamical and Control Systems	2019	8	0	NICHE
Color-texture based feature modeling for content based image retrieval	Ranjith, V.G., Jeyakumar, M.K., Palanikumar, S.	Journal of Advanced Research in Dynamical and Control Systems	2019	8	0	NICHE
Design of a novel controller to stabilize the dc level of photovoltaic system for low voltage stand alone applications	Bibin Raj, V.S., Devadhas, G.G.	Journal of Advanced Research in Dynamical and Control Systems	2019	13	0	NICHE
Performance comparison of MeRMaid-ICA and Np-ICA in composite abdominal electrocardiogram separation	Anisha, M., Kumar, S.S., Benisha, M.	International Journal of Biomedical Engineering and Technology	2019	21	0	NICHE
Multi-objective optimisation of transesterified Jatropha curcas oil using response surface methodology and grey relational analysis	Neela Rajan, R.R., Ramanan, G., Rajesh, R.	International Journal of Ambient Energy	2019	22	0	NICHE
A real time extreme learning machine for software development effort estimation	Pillai, K., Jeyakumar, M.	International Arab Journal of Information Technology	2019	8	0	NICHE
Color-texture based feature modeling for content-based video retrieval	<u>Ranjith, V.G., Jeyakumar, M.K., Palanikumar, S.</u>	<u>Journal of Advanced Research in Dynamical and Control Systems</u>	2019	8	0	NICHE
A study on segmentation based on mammogram	Shamy, S., Dheeba, J.	Journal of Advanced Research in Dynamical and Control Systems	2019	8	0	NICHE
Assessment of the cloud intrusion detection system: A survey	Varghese, M., Jose, M.V.	Journal of Advanced Research in Dynamical	2019	8	0	NICHE

		and Control Systems				
Experimental study on the influence of fibre surface treatments and coconut shell powder addition on the compressive strength, hardness and tribological properties of sisal fibre-natural rubber composites	Gopakumar, R., Rajesh, R	International Journal of Enterprise Network Management	2019	8	0	NICHE
Investigation on effect of geometric, material and load parameters on strength of composites with cutouts	Kumar, S.A., Rajesh, R.	International Journal of Enterprise Network Management	2019	31	0	NICHE
Spectroscopic and superparamagnetic behaviour of hausmannite manganese oxide nanoparticles	Karpagavalli, S., Vethanathan, S.J.K., Perumal, S.	Asian Journal of Chemistry	2019	21	0	NICHE
Comparative evaluation of angiogenesis using a novel platelet-rich product: An in vitro study	Gomez, T.W., Gopal, R.V., Gaffoor, F.M.A., (...), Sabari Girish, C., Prakash, R.	Journal of Conservative Dentistry	2019	23	0	NICHE
Embedding machine learning in air traffic control systems to generate effective route plans for aircrafts in order to avoid collisions	Madanan, M., Hussain, N., Velayudhan, N.C., Sayed, B.T.	Journal of Theoretical and Applied Information Technology	2019	9	0	NICHE
Tensile, impact, flexural and morphological characteristics of pineapple leaf fiber reinforced polylactic acid composites	Darsan, R.S., Stanly Jones Retnam, B., Sivapragash, M.	International Journal of Mechanical Engineering and Technology	2019	9	0	NICHE
Study on the fresh state properties of self-compacting concrete modified with recycled concrete aggregate	Frank Stephen, S., Chockalingam, M.P., Nalanth,	International Journal of Civil Engineering and Technology	2019	18	0	NICHE
An approach to minimize the transmission loss and improve the voltage profile of load bus using interline power flow controller (IPFC)	Ansari, A.Q., Hasan, M., Islam, N.	Advances in Intelligent Systems and Computing	2019	25	0	NICHE
An investigation study on clustering and classification techniques for weather forecasting	Pooja, S.B., Siva Balan, R.V.	Journal of Computational and Theoretical Nanoscience	February 2019	43	3	NICHE
Quality of service aware resource allocation using hybrid opposition-based learning-artificial bee colony algorithm	Shameer, A.P., Subhajini, A.C.	Journal of Computational and Theoretical Nanoscience	February 2019	43	1	NICHE
Combined economic and emission dispatch using whale optimization algorithm	Faseela, C.K., Vennila, H.	International Journal of Enterprise Network Management	February 2019	8	5	NICHE
A pharmacoinformatic approach on Cannabinoid receptor 2 (CB2) and different small molecules: Homology modelling, molecular docking, MD	Vijayakumar, S., Manogar, P., Prabhu, S., Pugazhenth, M., Praseetha, P.K.	Computational Biology and Chemistry	February 2019	55	1	NICHE

simulations, drug designing and ADME analysis						
Impact of surface-modified molybdenum disulphide on crystallization, thermal and mechanical properties of polyvinylidene fluoride	Gopika, M.S., Bindhu, B., Sandhya, K.Y., Reena, V.L.	Polymer Bulletin	February 2019	55	1	NICHE
Efficient multi-objective particle swarm optimisation based ranking system for cloud service selection	Kunhambu, D.V., Balan, R.V.S.	IET Communications	February 2019	53	0	NICHE
Morphological and comparative characterization of silk/bamboo fiber reinforced epoxy composite	Subash, S., Stanly Jones Retnam, B., Edwin Raja Dhas, J., Sivapragash, M.	International Journal of Recent Technology and Engineering	February 2019	20	0	NICHE
Analysis of Mechanical Strength of Processed Aluminum Laminates	Aniber Benin, M., Stanly Jones Retnam, B., Edwin Sahayaraj, M.	International Journal of Recent Technology and Engineering	February 2019	20	0	NICHE
Related documents Optimization of aerodynamic parameters of cropped delta wing with fence at sonic Mach number	Arun, M.P., Satheesh, M., Edwin Raja Dhas, J.	Journal of Computational and Theoretical Nanoscience	February 2019	20	0	NICHE
Related documents Parallelization of jump flood-cut method in shared memory multicore systems	Sajan, P.P., Kumar, S.S.	Journal of Computational and Theoretical Nanoscience	February 2019	43	0	NICHE
Resistive open fault and detection methods for low power nanometric integrated circuits	Gangaiah Yadav, C., Vijula Grace, K.S.	Journal of Computational and Theoretical Nanoscience	February 2019	43	0	NICHE
A novel modeling of quantum dot sensitized solar cells	Gangadhar, L., Praseetha, P.K.	Journal of Computational and Theoretical Nanoscience	February 2019	43	0	NICHE
An enhanced image dehazing method for the application in urban computing	Prakash, A.J., Christopher, F.	Journal of Computational and Theoretical Nanoscience	February 2019	43	0	NICHE
Investigation on microstructural examination of flux bounded TIG weldments in post weld heat treated state	Skariya, P.D., Satheesh, M., Edwin Raja Dhas, J., Chandrasekar, G.	Journal of Computational and Theoretical Nanoscience	February 2019	43	0	NICHE
Quantum dot-sensitized solar cells via integrated experimental and modeling study	Gangadhar, L., Kannan, A., Praseetha, P.K.	Journal of Computational and Theoretical Nanoscience	February 2019	43	0	NICHE
Study of the influence of steel fibres on the behaviour of hollow beams	Jeyakumar, A.	International Journal of Civil Engineering and Technology	February 2019	43	0	NICHE
Management of impacted maxillary canines: A case report [Manejo de caninos maxilares impactados: Relato de caso]	Premkumar, S., Sfs, S., Tovani-Palone, M.R.	Electronic Journal of General Medicine	February 2019	18	0	NICHE
Structural, optical,	Vella Durai,	Journal of Nano-	February	13	0	NICHE

morphological and thermal properties of CuO nanoparticles prepared by sol-gel technique	S.C., Ganapathi Raman, R., Kumar, E., Muthuraj, D.	and Electronic Physics	2019			
Enhanced noise curtailing in longhaul multi service 5g cellular optical hybrid networks	Mathews, A.B., Devadhas, G.G.	Journal of Advanced Research in Dynamical and Control Systems	February 2019	8	0	NICHE
An enhanced back propagation method for change analysis of remote sensing images with adaptive preprocessing	Dalmiya, C.P., Santhi, N., Sathyabama, B.	European Journal of Remote Sensing	2019	20	0	NICHE
Review on avoiding sybil attack in VANET while operating in an urban environment	Velayudhan, N.C., Anitha, A., Madanan, M., Paul, V.	Journal of Theoretical and Applied Information Technology	2019	23	0	NICHE
A novel method for CBIR using SVM classifier with multi features	Binisha Rose, J., Santhi, N.	Journal of Advanced Research in Dynamical and Control Systems	2019	8	0	NICHE
Fault identification for steam boiler tube leakage in thermal power stations using data outlier	Ramanujam, N., Kumar, R.M.S.	Journal of Advanced Research in Dynamical and Control Systems	2019	8	0	NICHE
Multi-authority based data fragment technique for secure storage and sharing in cloud computing	Rajeswari, S., Kalaiselvi, R.	Journal of Advanced Research in Dynamical and Control Systems	2019	8	0	NICHE
A review on privacy preserving big data process	Dhas, J.L.J., Vigila, S.M.C., Star, C.E.	Journal of Advanced Research in Dynamical and Control Systems	2019	8	0	NICHE
A study on the usage of social media sites among college students in Tamil Nadu	Meena Zenith, N., Radhika, R.	Journal of Advanced Research in Dynamical and Control Systems	2019	8	0	NICHE
Computer aided diagnosis of brain tumor using multiclass SVM classification techniques	Jeslin, T., Arul Linsely	Journal of Advanced Research in Dynamical and Control Systems	2019	8	0	NICHE
A weight based improved double threshold cooperative spectrum sensing for cognitive radio networks	Sumi, M.S., Ganesh, R.S.	Journal of Advanced Research in Dynamical and Control	2019	8	0	NICHE

		Systems				
Fast iterative boundary based in painting using morphological erosion and SSD	Shajahan, S., Kumar, R.M.S., Raj, J.V.	Journal of Advanced Research in Dynamical and Control Systems	2019	8	0	NICHE
Automatic segmentation, size determination and classification of IVD	Leena Silvester, M., Kumar, R.M.S.	Journal of Advanced Research in Dynamical and Control Systems	2019	8	0	NICHE
Prewitt texture filter synthesis forefficient image occlusion removal tovisualize hidden objects	Arun, P.L., Kumar, M.S.	Journal of Advanced Research in Dynamical and Control Systems	2019	8	0	NICHE
A survey on methodology basedmedical image segmentationtechniques and their applications	Shanila, N., Vinod Kumar, R.S., Ramya Ravi, R.	Journal of Advanced Research in Dynamical and Control Systems	2019	8	0	NICHE
A review - Studies on heat treatmentof laser beam welded Ti, /Aldissimilar sheet metals	Chandran, S., Rajesh, R., Anand, M.D.	Journal of Advanced Research in Dynamical and Control Systems	2019	8	0	NICHE
Medical image protection using diffusion, substitution and reversibledata hiding based on prediction	Mancy, L., Vigila, S.M.C.	International Journal of Security and Networks	2019	23	0	NICHE
Performance study on eutectic molten salt as a high temperature working fluid in the parabolic trough collector	<u>Jebasingh, V.K., Divya Johns, J., Arunkumar, T.</u>	<u>International Journal of Ambient Energy</u>	2019	21	1	NICHE
Assessment of circular and ellipticalabsorber tube in solar parabolictrough collector	Jebasingh, V.K., Divya Johns, J., Arunkumar, T.	<u>International Journal of Ambient Energy</u>	2019	21	1	NICHE
Extraction of fetal features from Bmode ultrasonograms for efficientdiagnosis of down syndrome in firstand second trimester	Jeba Shiney, O., Amar Pratap Singh, J., Priestly Shan, B.	Biomedical and Pharmacology Journal	2019	12	1	NICHE
A combined data storage with encryption and keyword based dataretrieval using SCDS-TM model incloud	Divya, S.V., Shaji, R.S., Venkadesh, P.	Malaysian Journal of Computer Science	2019	16	1	NICHE
Societal evils in contemporary Indiafrom Chetan Bhagat's perspective inrevolution 2020	RakeshBabu, M., Titus Livingston, E.	International Journal of Recent Technology and Engineering	2019	20	1	NICHE
Opting web services based on selective trust, quality and associative branching in cloud service recommendations	Dileep, V.K., Balan, R.V.S.	Journal of Advanced Research in Dynamical	2019	8	1	NICHE

		and Control Systems				
Protecting location information for privacy preservation and substituting open-bts in an eco-friendly vanet architecture	<u>Tripathi, V.K., Venkateswari, S.</u>	<u>Journal of Advanced Research in Dynamical and Control Systems</u>	2019	8	1	NICHE
Appraisal on mechanical possessions of crossbreed naturalfiber strengthened polyamideamalgams	Seldon, P.A., Abilash, N.	Journal of Advanced Research in Dynamical and Control Systems	2019	8	1	NICHE
New analysis of video encoding/decoding using ewt and combination of h. 264/avc and uspiht	Nithin, S.S., Padma Suresh, L.	Journal of Advanced Research in Dynamical and Control Systems	2019	8	1	NICHE
Development of optimized EDM parameters for LM25 aluminium composite using prediction tool	Rajesh, R., Muhammedshafi, N., Mohammed, A., (...), Shihab, S., Chandran, S.B.	Journal of Advanced Research in Dynamical and Control Systems	2019	8	1	NICHE
Retrospective study on weld bead profile study of various welding process	Jose, P.J., Anand, M.D., Rishad, S.	Journal of Advanced Research in Dynamical and Control Systems	2019	8	1	NICHE
A study of human resource development practices and patient care quality in health care services with special reference to government hospitals in Thiruvananthapuram district	Gopinadh, N.S., Radhika, R.	Journal of Advanced Research in Dynamical and Control Systems	2019	8	1	NICHE
An overview on the role of government of India in health care sector	Gopinadh, N.S., Radhika, R.	Journal of Advanced Research in Dynamical and Control Systems	2019	8	1	NICHE
Adaptive neuro fuzzy controllers for automatic generation control of power system	Menaka, D., Khan, A.	Journal of Advanced Research in Dynamical and Control Systems	2019	8	1	NICHE
A study on the influence of social media characteristics towards online purchase intention among college students	Zenith, N.M., Radhika, R.	Journal of Advanced Research in Dynamical and Control Systems	2019	8	1	NICHE
A review on fundamentals of social media marketing and its strategies	Zenith, N.M., Radhika, R.	Journal of Advanced Research in Dynamical and Control Systems	2019	8	1	NICHE

A review: Sources of silica from agro waste and its extraction methods	Raja, S., Ravichandran, M., Isaac, R.S.R., Abilash, N.	Journal of Advanced Research in Dynamical and Control Systems	2019	8	1	NICHE
Sparse coding strategies and sparse dictionary learning	Sujithra, M.S., Sugitha, N	Journal of Advanced Research in Dynamical and Control Systems	2019	8	1	NICHE
Effect of short fibre orientation on the mechanical characterization of a composite material-hybrid fibre reinforced polymer matrix	Raja, D.B.P., Retnam, B.S.J.	Bulletin of Materials Science	2019	63	1	NICHE
Novel adaptive segmentation based forgery detection method	Dhanya, R., Kalai Selvi, R.	Journal of Computational and Theoretical Nanoscience	2019	43	1	NICHE
Effect of pre-soaked light expanded clay aggregate on strength, durability and flexural behaviour of high-performance concrete	Pradeep, P., Beenamol, Nair, H.S.	Journal of Engineering Science and Technology	2019	21	1	NICHE
A thermal model for predicting the performance of a solar still with fresnel lens	Johnson, A., Mu, L., Park, Y.H., (...), Kota, K., Kuravi, S.	Water (Switzerland)	2019	33	1	NICHE
Circumstantial exploration on trust management perspectives in mobile ad hoc networks	Thebiga, M., Suji Pramila, R.	Journal of Advanced Research in Dynamical and Control Systems	2019	8	1	NICHE
Importance of training on emergency management in the new generation retail outlets of Kerala	Roshan, R., Kinslin, D.	Journal of Advanced Research in Dynamical and Control Systems	2019	8	1	NICHE
Analysing the principles of good family governance from the Islamic law perspective	Saidon, R., Ismail, C.Z., Mohd Zin, M.Z., (...), Hazlina Wan, W.N., Jaapar, N.	Journal of Legal, Ethical and Regulatory Issues	2019	7	1	NICHE
Blood vessel segmentation and diabetic retinopathy recognition: an intelligent approach	Nair, A.T., Muthuvel, K.	Computer Methods in Biomechanics and Biomedical	2019	10	1	NICHE
Early detection of alzheimer's disease using predictive k-nn instance based approach and t-test method	A.j., D., R, G.	International Journal of Advanced Trends in Computer Science and Engineering	2019	0	1	NICHE
Efficient multi-objective particle swarm optimisation based ranking system for cloud service selection	Kunhambu, Dileep Varapravathu; Balan, Rathnamani Vijayalakshmi Siva	IET COMMUNICATIONS	February 2019	55	0	NICHE

Growth and characterization of organic material 3,4,5-trimethoxybenzaldehyde single crystal for optical applications	Jebin, R. P.; Suthan, T.; Rajesh, N. P	OPTICS AND LASER TECHNOLOGY	February 2019	63	0	NICHE
A pharmacoinformatic approach on Cannabinoid receptor 2 (CB2) and different small molecules: Homology modelling, molecular docking, MD simulations, drug designing and ADME analysis	Vijayakumar, S.; Manogar, P.; Prabhu, S	COMPUTATIONAL BIOLOGY AND CHEMISTRY	February 2019	55	0	NICHE
Iterative gradient ascent expected maximization clustering for weather forecasting	Pooja, S.B., Siva Balan, R.V.	International Journal of Recent Technology and Engineering	March 2019	20	3	NICHE
Robust multi-view videos face recognition based on particle filter with immune genetic algorithm	Kumar, R.M.S.	IET Image Processing	March 2019	34	1	NICHE
Characterization, wear surface roughness and tensile failure analysis of Al7075-TiC-MoS2 hybridcomposites using online acoustic emission	Ramanan, G., Suresh, S., Rajesh Prabha, N., Edwin Raja Dhas, J.	Materials Research Express	March 2019	21	1	NICHE
Security for internet of things: A state of the art on existing protocols and open research issues	Mahmoud, C., Aouag, S.	ACM International Conference Proceeding Series	March 2019	7	0	NICHE
Low power VLSI design of a modified brent kung adder based multiply accumulate unit for reverbengines	Rakesh, S., Vijula Grace, K.S.	International Journal of Recent Technology and Engineering	March 2019	20	0	NICHE
E-anfis to diagnose the progression of chronic kidney disease	Subhashini, R., Jeyakumar, M.K.	International Journal of Recent Technology and Engineering	March 2019	20	0	NICHE
Comparison of classifier strength for detection of retinal hemorrhages	Sreeja, K.A., Kumar, S.S.	International Journal of Innovative Technology and Exploring Engineering	April 2019	4	2	NICHE
Invitro cytotoxic and anti – cancer studies of polyvinyl alcohol mediated 5fluorouracil conjugated gold nanoparticles	Rajan, A., Praseetha, P.K., Ariharan, V.N., Gopu Kumar, S.T.	International Journal of Recent Technology and Engineering	April 2019	20	1	NICHE
Enhanced spectral efficiency for 5G massive MIMO system	Rajesh, K.P., Mary Synthuja Jain Preetha, M.	International Journal of Innovative Technology and Exploring Engineering	April 2019	4	1	NICHE
A comprehensive review on the VLSI design performance of different Parallel Prefix Adders	Rakesh, S., Grace, K.S.V.	Materials Today: Proceedings	April 2019	18	1	NICHE
An Improved Forgery Detection Method for Images	Tom, T., Usha Nandini, D., Princemary, S.,	IOP Conference Series: Materials Science and	April 2019	24	0	NICHE

	Ankayarkanni, B.	Engineering				
A Low Complexity Zero Threshold Detector for Bandwidth Efficient Hierarchical Modulated System	Jayakumari, J., Chandra Kala, K.	Proceedings - 2019 Amity International Conference on Artificial Intelligence	April 2019	0	0	NICHE
Ionic liquid assisted exfoliation and dispersion of molybdenum disulphide: Synthesis and characterization	Subitha, M., Sasikanth, S.M., Bindhu, B.	AIP Conference Proceedings	April 2019	60	0	NICHE
The estimation of radiation induced damages on nano-structured nuclear radiation detectors	Lilly, C.S., Bindhu, B., Midhun, C.V., Musthafa, M.M., Ganapathi, R.R.	AIP Conference Proceedings	April 2019	60	0	NICHE
Efficient mixed solvent strategy for boron nitride exfoliation	Nair, R.M., Surendran, V.S., Bindhu, B.	AIP Conference Proceedings	April 2019	60	0	NICHE
Photo-neutron detection using Cr-39 solid state nuclear track detector	Rajesh, K.R., Musthafa, M.M., Midhun, C.V., Naiby, J., Raman, R.G.	AIP Conference Proceedings	April 2019	60	0	NICHE
Antibiotic resistance pattern of community acquired infections in diabetic subjects: A clinico-microbiological study from eastern India	Ray, J., Ghosh, R., Paul, R., Bandyopadhyay, D.	Journal, Indian Academy of Clinical Medicine	April 2019	12	0	NICHE
Cascaded biometric system based on fingerprint and retina for user identity recognition	Sasikala, T.S., Siva Sankar, K.	International Journal of Innovative Technology and Exploring Engineering	April 2019	4	0	NICHE
A heuristic research of the designing and evaluation of energy efficiency using dynamic vmconsolidation in green cloud data centres	Sajitha, A.V., Subhajini, A.C.	International Journal of Innovative Technology and Exploring Engineering	April 2019	4	0	NICHE
VLSI based low power multiply accumulate unit employing kogge stone adder with modifiedpre-processing and post-processing stages	Rakesh, S., Grace, K.S.V.	International Journal of Engineering and Advanced Technology	April 2019	20	0	NICHE
Evaluation of laterite soil stabilized using polymer sack fibers	Menon, J., Ravikumar, M.S.	International Journal of Innovative Technology and Exploring Engineering	April 2019	20	0	NICHE
Modified han carlson adder based multiply accumulate unit for low power digital signal processor	Rakesh, S., Vijula Grace, K.S.	International Journal of Innovative Technology and Exploring Engineering	April 2019	20	0	NICHE
Amassed simulation edification of modelsim and MATLAB by using third harmonic injected sine PWMgeneration with inverted sine carrier for three phase inverterAmassed	Sreeja, P., Padmasuresh, L., Muthukumar, P.	International Journal of Recent Technology and Engineering	April 2019	20	0	NICHE

simulation edification of modelsim and MATLAB by using third harmonic injected sine PWMgeneration with inverted sine carrier for three Synthesis and characterization of graphene quantum dots from nutmeg seeds and its biomedicalapplicationphase inverter						
Synthesis and characterization of graphene quantum dots from nutmeg seeds and its biomedicalapplication	Anooj, E.S., Praseetha, P.K.	International Journal of Recent Technology and Engineering	April 2019	4	0	NICHE
Semiconductor quantum dots for performance improvement in solar cells	Gangadhar, L., Rajan, A., Praseetha, P.K.	International Journal of Recent Technology and Engineering	April 2019	8	0	NICHE
An effective automatic detection of lung tumor based on novel optimized chan-vese algorithm	Seelan, L.J., Padma Suresh, L.	International Journal of Recent Technology and Engineering	April 2019	20	0	NICHE
A novel biometric authentication system using keystroke dynamics and optimized multilayer perceptron neural network	Priya, C.V., Angel Viji, K.S.	International Journal of Innovative Technology and Exploring Engineering	April 2019	23	0	NICHE
Design and analysis of 32-bit parallel prefix adders for low power VLSI applications	Daphni, S., Grace, K.S.V.	Advances in Science, Technology and Engineering Systems	2019	16	1	NICHE
Analysis of EMI reduction in optimised boost converter using analogue PWM chaotic technique	Rex, S.R., Mary Synthia Regis Praba, D.M.	International Journal of Recent Technology and Engineering	2019	8	1	NICHE
Design of a dynamic boot loader for loading an operating system	Sebastian, A., Sankar, K.S.	Journal of Computer Science	2019	3	1	NICHE
Mathematical modelling and analysis of hierarchical modulation in AWGN and Rayleigh channel	Chandrakala, K., Jayakumari, J.	International Journal of Wireless and Mobile Computing	2019	20	1	NICHE
Weather data and its future selection using principal component regression technique	Pooja, S.B., Siva Balan, R.V.	Journal of Advanced Research in Dynamical and Control Systems	2019	11	2	NICHE
A modified adaptive thresholding method using cuckoo search algorithm for detecting surface defects	Aslam, Y., Santhi, N., Ramasamy, N., Ramar, K.	International Journal of Advanced Computer Science and Applications	2019	176	2	NICHE
A novel design of synchronous counter for low power and high-speed applications	John, K., Vinod Kumar, R.S., Kumar, S.S.	International Journal of Engineering and Advanced Technology	April 2019	16	7	NICHE
Performance evaluation of dynamic source routing protocol in smart environment	Devi, M., Gill, N.S.	International Journal of Advanced Trends	April 2019	176	6	NICHE

		in Computer Science and Engineering				
Extraction methods and computational approaches for evaluation of antimicrobial compounds from Capparis zeylanica L	Arulmozhi, P.; Vijayakumar, S.; Praseetha, P. K	ANALYTICAL BIOCHEMISTRY	May 2019	7	0	NICHE
Multi-response optimization in environment friendly turning of AISI 304 austenitic stainless steel	Singh, T., Dureja, J.S., Dogra, M., Bhatti, M.S.	Multidiscipline Modeling in Materials and Structures	May 2019	20	1	NICHE
Extraction methods and computational approaches for evaluation of antimicrobial compounds from Capparis zeylanica L	Arulmozhi, P., Vijayakumar, S., Praseetha, P.K., Jayanthi, S.	Analytical Biochemistry	May 2019	20	1	NICHE
Effect of welding on pitting and intergranular corrosion behavior of marine grade aluminum alloy	Shamsudeen, S., John, E.R.D.	Materials Performance and Characterization	May 2019	20	0	NICHE
Learning strategies for cognitive development to enhance the speaking skills in second language	Sreena, S., Ilankumaran, M.	International Journal of Recent Technology and Engineering	May 2019	20	0	NICHE
Paradigms of second language acquisition: A neurolinguistic perspective	Delbio, A., Ilankumaran, M.	International Journal of Recent Technology and Engineering	May 2019	20	0	NICHE
An in-depth study on the application of Gum Arabic: A biopolymer	Nair, R.M., Bindhu, B.	International Journal of Recent Technology and Engineering	May 2019	20	0	NICHE
Transmitting antenna number optimization for smart base station using per cell spectral efficiency analysis	Rajesh, K.P., Mary Synthuja Jain Preetha, M.	International Journal of Recent Technology and Engineering	May 2019	20	0	NICHE
A Review on friction stir spot welding joints of dissimilar aluminium alloys	Anton Savio Lewise, K., Edwin Raja Dhas, J.	International Journal of Recent Technology and Engineering	May 2019	20	0	NICHE
Empowering the learners with second language skills through psychological aspects	Delbio, A., Ilankumaran, M., Abilasha, R.	International Journal of Recent Technology and Engineering	May 2019	20	0	NICHE
Acquiring second language skills through programmed instruction: A study	Abdul Majeed, C.T., Ilankumaran, M.	International Journal of Recent Technology and Engineering	May 2019	20	0	NICHE
Neurolinguistic factors in English language learning: A cognitive based study	Sajna Beevi, S., Abilasha, R., Ilankumaran, M.	International Journal of Recent Technology and Engineering	May 2019	20	0	NICHE
Language teaching through pedagogic model of CBI: An overview with reference to secondary level students	Vinita, V.J., Ilankumaran, M.	International Journal of Recent Technology and Engineering	May 2019	20	0	NICHE
A review robot fault diagnosis Part II qualitative models and search strategies	Sivasamy, D., Dev Anand, M., Anitha Sheela, K.	International Journal of Recent Technology and	May 2019	20	0	NICHE

		Engineering				
The basic principles of speaking techniques: A study based on the types of performances in a classroom	Sreena, S., Ilankumaran, M.	International Journal of Recent Technology and Engineering	May 2019	20	0	NICHE
The effects of reinforced learning in language acquisition and cognitive process: A study	Alamelu, G., Ilankumaran, M.	International Journal of Recent Technology and Engineering	May 2019	20	0	NICHE
PV system simulation using various incremental algorithms applied in maximum power point tracking: A Comparative Study	Dev Anand, M., Ramasamy, N.	International Journal of Recent Technology and Engineering	May 2019	20	0	NICHE
Theoretical investigations on the structural, vibrational and optical properties of 3-Bromo-4-MethylBenzonitrile	Sugirtha Suni, N.Y., Ganapathi Raman, R., Guru Prasad, L.	International Journal of Recent Technology and Engineering	May 2019	20	0	NICHE
Racial discourse in blue eyes and god help the child	Jinu, R., Soman, C.	International Journal of Recent Technology and Engineering	May 2019	20	0	NICHE
Defeating Endosulfan, the Behemoth and Coca-Cola, the Giant: Life narrative as environmental justice	Jinu, R., Scaria, D.M.	International Journal of Recent Technology and Engineering	May 2019	20	0	NICHE
A comprehensive review on alginates	Sreekumar, K., Bindhu, B.	International Journal of Recent Technology and Engineering	May 2019	20	0	NICHE
A portrait of ruined and devastated tribal life in Rajam Krishnan's when the kurinji blooms	Jinu, R., Suganth, R.S.	International Journal of Recent Technology and Engineering	May 2019	20	1	NICHE
Einstein operations of intuitionistic fuzzy matrices	Selvarajan, T.M., Sriram, S., Ramya, R.S.	International Journal of Recent Technology and Engineering	May 2019	20	1	NICHE
Minimum covering gutman energy of unitary cayley graphs	Philipose, R.S., Sarasija, P.B.	International Journal of Recent Technology and Engineering	May 2019	20	0	NICHE
Complete cototal domination number of certain graphs	Uma Samundesvari, K., Maria Regila Baby, J.	International Journal of Recent Technology and Engineering	May 2019	20	0	NICHE
RNBeads 2.0: Comprehensive analysis of DNA methylation data	Lafta, M.H., Gangadhar, L.	Annals of Tropical Medicine and Public Health	May 2019	10	0	NICHE
The evaluation of dentin microhardness after use of 17% EDTA, 17% EGTA, 10% citric acid, MTAD used as chelating agents combined with 2.5% sodium hypochlorite after rotary instrumentation: An in vitro SEM study	Unnikrishnan, M., Mathai, V., Sadasiva, K., Santakumari, R., Girish, S., Shailajakumari, A.	Journal of Pharmacy and Bioallied Sciences	May 2019	27	0	NICHE
Comparative evaluation of erosive potential of various frozen and unfrozen fruit juices on primary teeth enamel: An in	Philip, S., Abdulla, A., Ganapathy, S., Vedam, V., Rajeev, V.	Journal of Pharmacy and Bioallied Sciences	May 2019	27	0	NICHE

vitro study						
Analysis of per cell spectral efficiency parameters for smart base station controller	Rajesh, K.P., Preetha, M.M.S.J.	International Journal of Innovative Technology and Exploring Engineering	May 2019	4	0	NICHE
Measured aerodynamic coefficients of without and with spiked blunt body at Mach 6	Kalimuthu, R., Mehta, R.C., Rathakrishnan, E.	Advances in Aircraft and Spacecraft Science	May 2019	7	0	NICHE
Effect of clock gating in conditional pulse enhancement flip-flop for low power applications	John, K., Vinod Kumar, R.S., Kumar, S.S.	Indonesian Journal of Electrical Engineering and Informatics	June 2019	9	4	NICHE
Spatial frequency discrete wavelet transform image fusion technique for remote sensing applications	Jinju, J., Santhi, N., Ramar, K., Sathya Bama, B.	Engineering Science and Technology, an International Journal	June 2019	29	2	NICHE
An Improved Text to Speech Technique for Tamil Language Using Hidden Markov Model	Jayakumari, J., Jalin, A.F.	International Conference on Smart Computing and Communications	June 2019	8	0	NICHE
Digital Image Forgery Detection Techniques: A Comprehensive Review	Shailaja Rani, P.B., Kumar, A.	Proceedings of the 3rd International Conference on Electronics and Communication and Aerospace Technolog	June 2019	0	0	NICHE
A novel building detection technique using image descriptor CPMID in urban area	Singarayan, K., Kamalam, J.M.	International Journal of Intelligent Engineering and Systems	June 2019	9	0	NICHE
Energy based wavelet and multilevel classifier for efficient leaf recognition	Swapna, C., Shaji, R.S.	International Journal of Engineering and Advanced Technology	June 2019	20	0	NICHE
Research on murmur from time domain features of heart sounds	Careena, P., Mary Synthuja Jain Preetha, M., Arun, P.	International Journal of Recent Technology and Engineering	June 2019	20	0	NICHE
Intensity index based histogram equalization technique for retinal image enhancement and classification of hard exudates using supervised learning	Pradeep, A., Joseph, X.F.	International Journal of Engineering and Advanced Technology	June 2019	20	0	NICHE
Quantum chemical calculations of 3-methoxybenzonitrile for NLO applications	Sugirtha Suni, N.Y., Ganapathi Raman, R.	International Journal of Recent Technology and Engineering	June 2019	20	0	NICHE
A green approach to sustainable energy using quantum dots	Gangadhar, L., Praseetha, P.K.	International Journal of Recent Technology and Engineering	June 2019	20	0	NICHE
A novel approach to enhance face feature extraction using	Anil, J., Padma Suresh, L.	International Journal of Recent	June 2019	20	0	NICHE

pencil sketches		Technology and Engineering				
XSS attack prevention over code injection vulnerabilities in web applications	Joylin Bala, K., Babu Raj, E., Anusha Bamini, A.M.	International Journal of Innovative Technology and Exploring Engineering	June 2019	4	0	NICHE
Highly accurate emergency vehicle management for multiple path using support vector machinebased predictor	Jose, C., Vijula Grace, K.S., Asha Beaula, C.	International Journal of Innovative Technology and Exploring Engineering	June 2019	4	0	NICHE
Design of conditional pulse enhancement flip-flop embedded with clock gating and signalfeed-through mechanism	John, K., Kumar, V.R.S., Kumar, S.S.	Journal of Engineering Science and Technology	2019	21	4	NICHE
Growth and characterization of organic material 3,4,5-trimethoxybenzaldehyde single crystal foroptical applications	Jebin, R.P., Suthan, T., Rajesh, N.P., Vinitha, G.	Optics and Laser Technology	July 2019	63	2	NICHE
Flipped classroom: A paradigm shift in english language teaching	esh Babu, M., Vivekha, S.	International Journal of Recent Technology and Engineering	July 2019	20	1	NICHE

3.4.7 Faculty participation in Seminars/Conferences and Symposia during the year :

No. of Faculty	International level	National level	State level	Local level
Attended Seminars/ Workshops	31	24	43	0
Presented papers	13	3	0	0
Resource Persons	1	0	0	0

3.5 Consultancy

3.5.1 Revenue generated from Consultancy during the year

Name of the Consultant(s) department	Name of Consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Mechanical	Repairing of engine bed casting	Shanmuga Foundry-Nagercovil-- 629002	10000
	Effective utilisation of recourses and personal safety	L S Motors –Krungal- 62917	10000
	Servicing of pneumatic comparator& Repairing of mounting press	Jeni Engineering Equipments Bhuthapandy- 629852	10000
Civil Engineering	Testing	Accident Study SP Office Nagercoil, (Through Thuckalay Police Station)	GOVT. Free Consultant Service
	Project Testing	N. Nithya, Govt. Engg. College, M.E Student	500
	Providing Training to the NIMS	Providing Training to the	19750

	Staff of the Maintenance Department for the past 3 months	NIMS Staff of the Maintenance Department for the past 3 months NIMS Hospital, Neyyattinkara.	
Nanotechnology	Testing/Analysis	Alagappa University	23200
	Testing/Analysis	St. John's College of Arts and Science, Kanyakumari District	5600
	Testing/Analysis	Holy Cross College, Nagercoil	3200
	Testing/Analysis	Lekshmipuram College of Arts and Science, Kanyakumari District	2800
	Testing/Analysis	Inbiotics, Nagercoil	2800
	Testing/Analysis	Centre for Marine Science and Technology, Kanyakumari District	1800
	Testing/Analysis	ST Hindu College, Nagercoil	1200
	Testing/Analysis	Nesamony Memorial Christian College, Marthandam	1200
	Testing/Analysis	Sivanthi Aditanar College, Nagercoil	1200
	Testing/Analysis	Government College of Engineering, Konam, Nagercoil	1100
	Testing/Analysis	Sadakathullah Appa College, Palayamkottai	800
	Testing/Analysis	Kamaraj College, Thoothukudi	600
	Testing/Analysis	MS University, Thirunelveli	200
Information Technology	Billing Software for Panel Board	Vithul Engineering, 85/11,S.M.Puram,, Tuticorin-628003	7500
Chemistry	Salt Analysis	Puthalam Salt factory, Nagercoil	23000/-
Automobile engineering	Design and fabrication of locomotive boilers	St. Johns Plast World, Chennai	15, 000

3.5.2 Revenue generated from Corporate Training by the institution during the year

Name of the Consultant(s) & Department	Title of the Programme	Agency seeking training	Revenue generated (amount in rupees)	Number of trainees
Dr.S.Vinila Jinny Ms.P.O.Sinciya Noorul Islam Civil Service Academy	Computer Education	NIMS Medicity, Neyyattinkara	21,400	04

/CSE				
3.6 Extension Activities				
3.6.1 Number of extension and outreach programmes conducted in collaboration with industry, community and Non-Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year				
Title of the Activities	Organising unit/ agency/ collaborating agency	Number of teachers coordinated in such activities	Number of students participated in such activities	
Blood Donation	Indian Red Cross Society	1	3	
Blood Donation	Sree Mookambika Institute of Medical Sciences	1	2	
Swachh Bharat Abhiyan	NICHE	1	15	
Swatch Bharat	NSS	03	3100	
Independence Day	NSS	01	328	
Surgical Strike Day	NSS	01	760	
National Unity Day	NSS	03	675	
Voters day	NSS	01	1200	
Republic Day	NSS	01	340	
Blood donation camp	NSS	01	128	
World Health Day	NSS & Unnat Bharath Abhiyan(UBA)	01	934	
Yoga day	NSS & UBA	01	850	
3.6.2 Awards and recognition received for extension activities from Government and other recognized bodies during the year				
Name of the Activity	Award/recognition	Awarding bodies	No. of Students benefited	
Blood donation	Best Blood donation Organiser	Indian Red Cross Society, Kanyakumari branch	128	
3.6.3 Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year				
Name of the scheme	Organising unit/ agency/ collaborating agency	Name of the activity	Number of teachers coordinated in such activities	Number of students participated in such activities
Swachh Bharat	NICHE	Clean INDIA	5	28
National Road safety Week	In association with Traffic Police, Thuckalay	Road Safety Awareness camp	05	49
First AID	Saadhana Health & Safety Solutions Ltd, Chennai	Emergency Life support Training Program	05	50
Smart India Hackathon 2019	AICTE ,India	Agriculture	1	3

3.7 Collaborations			
3.7.1 Number of Collaborative activities for research, faculty exchange, student exchange during the year			
Nature of Activity	Participant	Source of financial support	Duration
International Fellowship	Dr. Simon J Waddell	University of Sussex, Email: s.waddell@bsms.ac.uk	4 Months
Publication	Dr.S.S. Kumar	Dr. G.Glan Devadhas, Electronics and Instrumentation, Vimal Jyothi Engineering College , Kerala, India	3 years
Publication	Dr.S.S. Kumar	Shahudheen S, Vivid Scans, Cochin, India	3 years
Publication	Dr.S.S. Kumar	R. Sethunadh, College of Engineering, Pathanapuram, Kollam, Kerala, India	3 years
Research Paper	Dr. S. Vinila Jinny	Surem Samuel S.R., Assistant Professor, Dept. of ECE, CSI Institute of Technology, Thovalai, Nagercoil, Kanyakumari.	5 Years
Research Collaboration	Libin Roberts, T.O. Varghese	Centre for Biopolymer Science and Technology, Eloor, Udyogamandal, 683501, Kerala, India	1 year
Research Collaboration	K. Veluraja	School of Advanced Sciences, Vellore Institute of Technology, Vellore, Tamil Nadu, India	1 year
Research work	Ramanan G., Aaron Raphael Raja F., Samuel K., Diwan V.	Aeronautical Engineering, ACS College of Engineering, Bangalore, India; Aerospace Engineering, Noorul Islam Centre for Higher Education, Kanyakumari, India	3 Years
Research work	Centhil Kumar C., Raglend I.J.	Department of Electronics And Instrumentation Engineering, Noorul Islam Centre for Higher Education, Kumaracoil, India; School of Electrical Engineering VIT, Vellore, 632014, India	3 Years
Research work	Jayamohan S., Nagarajan S., Kadarkaraiyandi R.	Department of Electronics & Communication Engineering, Noorul Islam Centre for Higher Education, Kanyakumari District, Kumaracoil, Thuckalay, Tamil Nadu, India; Department of Computer Science & Engineering, Einstein College of Engineering, Sir C.V.Raman Nagar, Seethaparpanalur, Tirunelveli, Tamil Nadu, India	3 Years
Research work	Aslam Y., Santhi N., Ramasamy N.,	Department of Electronics and Communication Engineering, Noorul Islam Centre for Higher	3 Years

	Ramar K.	Education, Kumaracoil, India; Department of Mechanical Engineering, Noorul Islam Centre for Higher Education, Kumaracoil, India; Department of Computer Science and Engineering, Einstein College of Engineering, Tirunelveli, India	
Research work	Dalmiya C.P., Santhi N., Sathyabama B.	Department of Electronics and Communication Engineering, Noorul Islam Centre for Higher Education Kumaracoil, Kanyakumari District, Thuckalay, India; Department of Electronics and Communication Engineering, Thiagarajar College of Engineering, Madurai, India	3 Years
Research work	Rema R., Nalanth N., Vincent P., Janardhanan K.A.	Noorul Islam University, India; Mepco Schlenk Engineering College, India	3 Years
Research work	Rajesh Prabha N., Ramanan G., Neela Rajan R.R., Ponsuthir Sajjan S.	Mechanical Engineering, Mohandas College of Engineering, Trivandrum, India; Aeronautical Engineering, ACS College of Engineering, Bangalore, India; Aeronautical Engineering, Noorul Islam Centre for Higher Education, Nagercoil, India	3 Years
Research work	Shalini J., Ravikumar M.S., Nalanth N., Kannan S.U.	Noorul Islam Centre for Higher Education, India; PSN Institute of Technology, India; Francis Xavier Engineering College, India	3 Years
Research work	Venifa Mini G., Angel Viji K.S.	Computer Science and Engineering, Noorul Islam Centre for Higher Education Kumaracoil, Kanyakumari, Tamilnadu, India; Computer Science and Engineering, College of Engineering, Kidangoor, Kerala, India	3 Years
Research work	Athira Lekshmi B.A., Flower Queen M.P., Arul Linsely J., Babu Aurtherson P.	Applied Electronics, Noorul Islam Centre for Higher Education, Thuckalay, Tamilnadu, India; Department of EEE, Noorul Islam Centre for Higher Education, Thuckalay, Tamilnadu, India; Younus Institute of Technology, Kollam, Kerala, India	3 Years
Research work	Darsan R.S., Jones Retnam B.S., Sivapragash M.	Department of Mechanical Engineering, Noorul Islam Centre for Higher Education, Kumaracoil, Tamil Nadu, 629 180, India; Department of Automobile Engineering,	3 Years

		Noorul Islam Centre for Higher Education, Kumaracoil, Tamil Nadu, 629 180, India; PSN College of Engineering and Technology, Melathediyoar, Tirunelveli, Tamil Nadu, 627152, India	
Research work	Sunil J., Kumar M.S.R.	Research Scholar Department of Civil Engineering, Noorul Islam Centre for Higher Education, Thuckalay, Tamil Nadu, India; Principal PSN College of Engineering and Technology, Tirunelveli, Tamil Nadu, India	3 Years
Research work	Jayamohan S., Nagarajan S., Kadarkaraiyandi R.	Department of Electronics & Communication Engineering, Noorul Islam Centre for Higher Education, Kumaracoil, Kanyakumari District, Thuckalay, Tamil Nadu, India; Department of Computer Science & Engineering, Einstein College of Engineering, Sir C.V.Raman Nagar, Tirunelveli, Seethaparpanalur, Tamil Nadu, India	3 Years
Research work	Vijayakumar S., Morvin Yabesh J.E., Arulmozhi P., Praseetha P.K.	Computational Phytochemistry Lab, PG and Research Department of Botany and Microbiology, AVVM Sri Pushpam College (Autonomous) Poondi, Thanjavur (Dist)Tamil Nadu, India; Department of Nanotechnology, Noorul Islam Centre for Higher Education, Kumaracoil, Kanyakumari DistrictTamil Nadu 629180, India	3 Years
Research work	Suneesh E., Sivapragash M.	Department of Mechanical Engineering, Noorul Islam Centre for Higher Education, Kumaracoil, India; Department of Mechanical Engineering, V.V. College of Engineering, Tisaiyanvilai, India	3 Years
Research work	Skariya P.D., Sathesh M., Dhas E.R., Suneesh E.	Department of Mechanical Engineering, Noorul Islam Centre for Higher EducationTamil Nadu, India; Department of Automobile Engineering, Noorul Islam Centre for Higher EducationTamil Nadu, India; Department of Production Engineering, Vidya Academy of Science & TechnologyKerala, India	3 Years
Research work	Shalini J.,	Noorul Islam Centre for Higher Education,	3 Years

	Ravikumar M.S., Nalanth N., Janardhanan K.A.	India; PSN Institute of Technology, India	
Research work	Benita J., Jayaparvathy R.	Noorul Islam Centre for Higher Education, Kanyakumari, India; SSN College of Engineering, Chennai, India	3 Years
Research work	Vijayakumar S., Mahadevan S., Arulmozhi P., Sriram S., Praseetha P.K.	Computational Phytochemistry Lab, PG and Research Department of Botany and Microbiology, AVVM Sri Pushpam College (Autonomous) Poondi, Thanjavur (Dist), Tamil Nadu, India; Department of Physics, School of Electrical and Electronics Engineering, SASTRA University, Thanjavur, 613401, India; Department of Nanotechnology, Noorul Islam Centre for Higher Education, Kumaracoil, Kanyakumari District Tamil Nadu 629180, India	3 Years
Research work	Uma Samundesvari K., Michael S.G.	Department of Mathematics, Noorul Islam Center for Higher Education, Thuckalay, Kanyakumari, 629 180, India; Department of Mathematics, Ponjesly College of Engineering, Nagercoil, 629003, India	3 Years
Research work	Thaya Kumari C.R., Nageshwari M., Raman R.G., Caroline M.L.	Department of Physics, Arignar Anna Govt. Arts College, Cheyyar, TamilNadu 604 407, India; Department of Physics, Dr. Ambedkar Govt. Arts College, Vyasarpadi, Chennai, 600 039, India; Department of Physics, Noorul Islam Centre for Higher Education, Kumaracoil, Kanyakumari Dist, TamilNadu 629 180, India	3 Years
Research work	Eacherath S., Murugesan S.	Principal, PSN College of Engineering and Technology, Tirunelveli, Tamil Nadu, India; Department of Mechanical Engineering, Noorul Islam Centre for Higher Education, Kumaracoil, Thuckalay Kanyakumari, Tamil Nadu 629180, India	3 Years
Research work	Skariya P.D., Satheesh M., Dhas E.R., Suneesh E.	Department of Mechanical Engineering, Noorul Islam Centre for Higher Education, Nagercoil, India; Department of Mechanical Engineering, Noorul Islam Centre for Higher	3 Years

		Education, Nagercoil, India; Department of Automobile Engineering, Noorul Islam Centre for Higher Education, Nagercoil, India; Department of Production Engineering, Vidya Academy of Science and Technology, Kerala, India	
Research work	Bino Prince Raja D., Retnam B.S.J., Antony Samuel Prabu G., Alagu Sundaram A.	Department of Aeronautical, Noorul Islam Centre for Higher Education, Kumaracoil, Tamil Nadu 629 18, India; Department of Automobile, Noorul Islam Centre for Higher Education, Kumaracoil, Tamil Nadu 629 18, India; Department of Aeronautical, MVJ College of Engineering, Bangalore, Karnataka 560067, India; Department of Aeronautical, Sha-Shib College of Engineering, Bangalore, Karnataka 560067, India	3 Years
Research work	Faseela C.K., Vennila H.	Departement of Electrical and Electronics Engineering, MES College of Engineering and Technology, Kerala, India; Departement of Electrical Engineering, Noorul Islam College of Engineering, Nagercoil, TN, India	3 Years
Research work	Nair S.K., Chandrachoodan Nair B.	Department of Management Studies, Noorul Islam Centre for Higher Education, Thucklay, Tamilnadu, India; Institute of Technology Mayyil, Kannur, Kerala, India	3 Years
Research work	Pradeep S., Nair C.	Noorul Islam Centre for Higher Education, Nagercoil, Tamil Nadu, India; ITM Business School, Kannur, India	3 Years
Research work	Prasoon P.P., Kumar M.S.R., Vaisakh G.	Noorul Islam University, Kumaracovil, Tamil Nadu, India; PSN College of Engineering, Thirunelveli, Tamil Nadu, India; College of Engineering, Pathanapuram, India	3 Years
Research work	Sivapragash M., Kumaradhas P., Vettivel S.C., Retnam B.S.J.	Department of Mechanical Engineering, PSN College of Engineering and Technology, Tirunelveli, Tamilnadu, India; Department of Mechanical Engineering, Noorul Islam Centre for Higher EducationTamilnadu, India; Department of Mechanical Engineering, Chandigarh College of Engineering and Technology (Degree Wing), Sector 26,	3 Years

		Chandigarh, 160019, India; Department of Automobile Engineering, Noorul Islam Centre for Higher EducationTamilnadu, India	
Research work	Pradeep S., Chandrachoodan Nair B.	Noorul Islam Centre for Higher Education, India; ITM Business School, Kannur, India	3 Years
Research work	Vaisakh G., Kumar M.S.R., Bala P.S.	Noorul Islam University, Kumaracovil, Tamil Nadu, India; PSN College of Engineering, Thirunelveli, Tamil Nadu, India; Civil Engineering, College of Engineering, Pathanapuram, India	3 Years
Research work	Vaisakh G., Ravi Kumar M.S., Siva Bala P.	Noorul Islam University, Kumarakoil, Tamil Nadu, India; PSN College of Engineering, Thirunelveli, Tamil Nadu, India; Civil Engineering, College of Engineering, Pathanapuram, India	3 Years
Research work	Balakrishnan N., Rajesh R.	Indian Polytechnic College, India; Dept. of Mechanical Engineering, Noorul Islam University, Kumara coil, Kanyakumari, Tamil Nadu, India; Rohini College of Engineering, Kanyakumari, Tamil Nadu, India	3 Years
Research work	Siva Bala P., Ravi Kumar M.S., Vaisakh G.	Noorul Islam University, Kumaracoil, Tamilnadu, India; PSN College of Engineering, Tirunelveli, India; College of Engineering, Pathanapuram, India	3 Years
Research work	Siva Bala P., Ravi Kumar M.S., Vaisakh G.	Noorul Islam University, Kumaracovil, Tamilnadu, India; PSN College of Engineering, Tirunelveli, Tamilnadu, India; College of Engineering, Pathanapuram, Kerala, India	3 Years
Research work	Chandrakala K., Jayakumari J.	Department of Electronics and Communication Engineering, NoorulIslam centre for Higher Education, Thuckalay, India; Mar Baselios College of Engineering and Technology, Trivandrum, Kerala, India	3 Years
Research work	Raja A., Ashokkumar S., Pavithra Marthandam R.,	Department of Physics, Kalasalingam Institute of Technology, Krishnan Koil, 626 126, India; Department of Physics, Park College of Technology, Karumathampatti, Coimbatore,	3 Years

	Jayachandiran J., Khatiwada C.P., Kaviyarasu K., Ganapathi Raman R., Swaminathan M.	Tamil Nadu 641 659, India; Department of Physics, L.N. Government College, Ponneri, 601 204, India; Central Instrumentation & Service Laboratory, University of Madras, Guindy Campus, Chennai, 600 025, India; Department of Physics, Namchi Government College, Namchi South Sikkim, 737 126, India; UNESCO-UNISA Africa Chair in Nanoscience/Nanotechnology Laboratories College of Graduate Studies, University of South Africa (UNISA), Muckleneuk Ridge, PO Box 392, Pretoria, South Africa; Department of Physics, Noorul islam Centre for Higher Education, Noorul Islam University, Kumaracoil, 629180, India; Nanomaterials Laboratory (IRC), Department of Chemistry, Kalasalingam University, Krishnankoil, 626126, India	
Research work	Rakesh S., Grace K.S.V.	Dept. of ECE, Noorul Islam Centre for Higher Education, Thuckalay, Kanyakumari, Tamil Nadu, India; Dept. of ECE, Mangalam College of Engineering, Ettumanoor, Kottayam, Kerala, India	3 Years
Research work	Abdulla S.M., Jayakumari J.	Noorul Islam University, Kumaracoil Thuckalay, India; Mar Baselios College of Engineering, Thiruvananthapuram, India	3 Years
Research work	Vijayakumar M., Stephen S.L., Mary A.L.	St. Xavier's Catholic College of Engineering, Nagercoil-3, India; Noorul Islam Center for Higher Education, Deemed University, Thuckaly, Tamilnadu, India; Loyola Institute of Technology and Science, Thovalai, Nagercoil, Tamilnadu, India	3 Years
Research work	Balamurugan S., Sana Fathima T.K., Veluraja K.	Advanced Nanomaterials Research Laboratory, Department of Nanotechnology, Noorul Islam Centre for Higher Education, Kumaracoil, Thuckalay, Tamilnadu 629 180, India; Department of Physics, School of Advanced Sciences, VIT University, Vellore, Tamilnadu 632 014, India	3 Years
Research work	Auguskani P.L., Devi V.S., Raju	Department of Management Studies, St. Xavier's Catholic College of Engineering,	3 Years

	A.D.J., Priya J.M.J., Benno M.M.	Nagercoil, India; Noorul Islam University, Kumarakovil, Thuckalay, India; Department of Electrical and Electronics Engineering, St. Xavier's Catholic College of Engineering, Nagercoil, India; Department of Medical Surgical Nursing, Annammal College of Nursing, Kuzhithurai, India	
Research work	Menon J., Ravikumar M.S.	Noorul Islam University, Kanyakumari, Tamil Nadu, India; PSN Engineering College, Tirunelveli, Tamil Nadu, India	3 Years
Research work	Sunil J., Kumar M.S.R.	Department of Civil Engineering, Noorul Islam Centre for Higher Education, Thuckalay, Tamil Nadu, India; PSN College of Engineering and Technology, Tirunelveli, Tamil Nadu, India	3 Years
Research work	Girijadevi L.T., Bino Prince Raja D., Prabhu A.S.	Department of Aeronautical Engineering, SCT Institute of Technology, Bangalore, Karnataka, India; Department of Aeronautical Engineering, Noorul Islam Centre for Higher Education, Kumaracoil, Tamilnadu, India; Department of Aeronautical Engineering, MVJ College of Engineering, Bangalore, Karnataka, India	3 Years
Research work	Varghese S., Vigila S.M.C.	Department of Computer Science and Engineering, Toc H Institute of Science and Technology, Arakkunnam, Cochin, Kerala, India; Department of Information Technology, Noorul Islam University, Kumaracoil, Tamilnadu, India	3 Years
Research work	Skariya P.D., Satheesh M., Edwin Raja Dhas J., Chandrasekar G.	Noorul Islam Centre for Higher Education, Thuckalay, Tamil Nadu 629180, India; PSNA College of Engineering & Technology, Dindigul, Tamilnadu 624622, India	3 Years
Research work	Pradeep K.M., Edmund Christopher S., Kinslin D.	Noorul Islam Center For Higher Education, Kumaracoil, Tamil Nadu, India; Academic Affairs, ECMIT, Al Nhada, Dubal, United Arab Emirates; ECMIT, Al Qusais, Dubai, United Arab Emirates	3 Years
Research work	Seelan L.J., Suresh	Noorul Islam University, kumaracoil, India; Baselios Mathews II College of Engineering,	3 Years

	P.	Kollam, India	
Research work	Pradeep K.M., Edmund Christopher S.	Faculty of Management Studies, Noorul Islam Centre for Higher Education, Tamil Nadu, India; Academic Affairs, ECMIT, Dubai, United Arab Emirates	3 Years
Research work	Neela Rajan R.R., Bino Prince Raja D., Ramanan G., Muthu Sherin S.	Noorul Islam Centre for Higher Education, Kumaracoil, Tamilnadu, 629180, India; Department of Aerospace Engineering, ACS College of Engineering, Bangalore, Karnataka, 560074, India	3 Years
Research work	Nair S.K., Chandrachoodan Nair B.	Faculty of Management Studies, Noorul Islam Centre for Higher Education, Thucklay, Tamil Nadu, India; Institute of Technology Mayyil, Kannur, Kerala, India	3 Years
Research work	Felix Stephen S., Jacob Raglend I.	Department of Electronics and Instrumentation Engineering, Noorul Islam Centre for Higher Education, Kumaracoil, India; Vellore Institute of Technology, Vellore, India	3 Years
Research work	Nithin S.S., Padma Suresh L.	Noorul Islam University, Dept of ECE, Tamil Nadu, India; Baselios Mathews II College, Kollam, Kerala, India	3 Years
Research work	Sarath D., Sucharitha M.	Department of Electronics and Communication, Noorul Islam Univesity, India; Department of Electronics and Communication, Malla Reddy College of Engineering and Technology, India	3 Years
Research work	Misbha D.S., Jeba J.R.	Department of Computer Applications, Nesamony Memorial Christian College Tamil Nadu, India; Department of Computer Applications, Noorul Islam Centre for Higher Education, Kanyakumari, Tamil Nadu, India	3 Years
Research work	Edmund Christopher S., Pradeep K.M.	Academic Affairs, ECMIT, Dubai, United Arab Emirates; Faculty of Management Studies, Noorul Islam Centre For Higher Education, Tamil Nadu, India	3 Years
Research work	Selvarajan T.M., Subramoniam R.	Department of Mathematics, Noorul Islam University, Kanyakumari, India; Department of Mathematics, Lekshmipuram College of	3 Years

		Arts and Science, Neyyoor, Tamilnadu, India	
Research work	Michael S.G., Uma Samundesvari K.	Department of Mathematics, Ponjesly College of Engineering, Nagercoil, Kanyakumari, Tamilnadu, 629 003, India; Department of Mathematics, Noorul Islam Centre for Higher Education, Thuckalay-629 180, Kanyakumari, Tamilnadu, India	3 Years
Research work	Ramanan G., Neela Rajan R.R., Jai Aultrin K.S., Pradeep P.	Department of Aerospace Engineering, ACS College of Engineering, Bangalore, Karnataka, 560074, India; Department of Aeronautical Engineering, Noorul Islam Centre for Higher Education, Kumaracoil, Tamilnadu, 629180, India	3 Years
Research work	Rakesh S., Vijula Grace K.S.	Department of ECE, Noorul Islam Centre for Higher Education, Thuckalay, Tamil Nadu, India; Department of ECE, Mangalam College of Engineering, Ettumanoor, Kerala, India	3 Years
Research work	Jayakumari J., Rakhi K.J.	Department of ECE, Mar Baselios College of Engineering and Technology, Thiruvananthapuram, Kerala, India; Department of ECE, Noorul Islam Centre for higher Education, Kumaracoil, Tamil Nadu, India	3 Years
Research work	Reeba Rex S., Mary Synthia Regis Praba D.M.	Department of ECE, Mar Ephraem College of Engineering and Technology, Elavuvilai, India; Department of EEE, Noorul Islam University, Thuckalay, India	3 Years
Research work	Pravin Rose T., Glan Devadhas G.	Noorul Islam Centre for Higher Education, Noorul Islam University, Kanyakumari, Tamilnadu, India; Dept of EIE, Vimal Jyothi Engineering College, Kannur, Kerala, India	3 Years
Research work	Beulah S., Dhanaseelan F.R.	Department of Computer Applications, Noorul Islam Centre for Higher Education, Kumaracoil, K.K. Dist., 629180, India; Department of Computer Applications, St. Xavier's Catholic College of Engineering, Chunkankadai, Nagercoil, 629807, India	3 Years
Research work	Sruthy S., Babu S.S.	Computer Science and Engineering, Noorul Islam Centre for Higher Education, Noorul	3 Years

		Islam University, Kumaracoil, TamilNadu 629180, India; Sree Buddha College of Engineering, Pattoor P.O., Nooranad, Alappuzha District, Kerala 690529, India	
Research work	Kabila V., Glan Devadhas G.	Noorul Islam Centre for Higher Education, Thucklay, Kumaracoil, India; Vimal Jyothi Engineering College, Kannur, Kerala, India	3 Years
Research work	Minimol V.K., Shaji R.S.	Noorul Islam University, Kanyakumari, India; Department of Computer Science and Engineering, St. Xavier's Catholic College of Engineering, Nagercoil, India	3 Years
Research work	Joneston Dhas J.L., Maria Celestin Vigila S., Ezhil Star C.	Department of Computer Science and Engineering, Noorul Islam Centre for Higher Education, Kumaracoil, Tamilnadu 629180, India; Department of Information Technology, Noorul Islam Centre for Higher Education, Kumaracoil, Tamilnadu 629180, India; Department of Computer Science and Engineering, Arunachala College of Engineering for Women, Manavilai, Tamilnadu 629203, India	3 Years
Research work	Anil J., Lekshmi Kanthan P.S., Krishna Veni S.H.	Department of Electrical and Electronics Engineering, Noorul Islam Centre for Higher Education, Kumaracoil, Kanyakumari District, Thuckalay, Tamil Nadu, India; Baseliros Mathews II College of Engineering Sasthamcotta, Kollam, Kerala 690 520, India	3 Years
Research work	Pravin Rose T., Scholar R., Islam N., Glan Devadhas G.	Centre for Higher Education, Noorul Islam University KanyakumariTamilnadu, India; Dept of EIE, Vimal Jyothi Engineering College, Kannur, Kerala, India	3 Years
Research work	Centhil Kumar C., Jacob Raglend I.	Department of Electronics and Instrumentation Engineering, Noorul Islam Centre for Higher Education, Kanyakumari, Tamilnadu, India; School of Electrical Engineering, Vellore Institute of Technology, Vellore, Tamilnadu, India	3 Years
Research work	Jamshak S.H., Dev Anand M., Akshay S.B., Arun S.,	Department of Mechanical Engineering, Musaliar College of Engineering, Chirayinkeezhu, Trivandrum, Kerala, India;	3 Years

	Prajeev J., Prabhakaran P.	Department of Mechanical Engineering, Noorul Islam Centre for Higher Education, Kumaracoil, Kanyakumari (Dist), Tamil Nadu, India	
Research work	Reeba Rex S., Praba M.S.R.	Department of ECE, Mar Ephraem College of Engineering and Technology, Elavuvilai, India; Department of EEE, Noorul Islam University, Thuckalay, India	3 Years
Research work	Reeba Rex S., Mary Synthia Regis Praba D.M.	Department of ECE, Mar Ephraem College of Engineering and Technology, Elavuvilai, India; Department of EEE, Noorul Islam University, Thuckala, India	3 Years
Research work	Beulah S., Ramesh Dhanaseelan F.	Department of Computer Applications, Noorul Islam Centre for Higher Education, Kumaracoil, K.K. Dist, India; Department of Computer Applications, St. Xavier's Catholic College of Engineering, Chunkankadai, Nagecoil, India	3 Years
Research work	Gopalakrishnan T., Rajeesh J., Palanikumar S.	Department of ECE, Noorul Islam Centre for Higher Education, Noorul Islam University, Thuckalay, Kumaracoil, Tamilnadu, 629180, India; Department of ECE, College of Engineering, Thalassery, Kerala, 670107, India; Department of Information Technology, Noorul Islam Centre for Higher Education, Noorul Islam University, Thuckalay, Kumaracoil, Tamilnadu, 629180, India	3 Years
Research work	Centhil Kumar C., Jacob Raglend I.	Department of Electronics and Instrumentation Engineering, Noorul Islam Centre for Higher Education, Kumaracoil, India; School of Electrical Engineering, VIT, Vellore, India	3 Years
Research work	Felix Stephen S., Jacob Raglend I.	Noorul Islam Centre for Higher Education, Kumaracoil, India; School of Electrical Engineering (SELECT), Vellore Institute of Technology, Vellore, India	3 Years
Research work	Misbha D.S., Jeba J.R.	Department of Computer Applications, Nesamony Memorial Christian College Tamil Nadu, India; Department of Computer Applications, Noorul Islam Centre for Higher	3 Years

		Education, Kanyakumari, Tamil Nadu, India	
Research work	Sukumaran A., Glan D.G., Kumar S.S.	Department of Computer Science, Noorul Islam University, India; Electronics and Instrumentation, Vimal Jyothi Engineering College Kerala, India; Electronics and Instrumentation, Noorul Islam University, India	3 Years
Research work	Sugirtha Suni N.Y., GURU PRASAd L., Ganapathi Raman R.	Department of Physics, 1 Nano Computational Laboratory, Department of Nano Technology, Noorul Islam Centre for Higher Education, Kumaracoil, Thuckalay, 629180, India; Department of Science and Humanities, M. Kumarasamy College of Engineering, Karur, India	3 Years
Research work	Aslam Y., Santhi N., Ramasamy N., Ramar K.	Dept. of ECE, Noorul Islam Centre for Higher Education, Kumaracoil, India; Dept. of Fire Technology and Safety Engineering, Noorul Islam Centre for Higher Education, Kumaracoil, India; Einstein College of Engineering, Tirunelveli, India	3 Years
Research work	Sreeja T.K., Jayakumari J.	Department of Electronics and Communication Engineering, Noorul Islam University, K.K. Dist., Tamil Nadu, India; Department of Electronics and Communication Engineering, Mar Baselios College of Engineering and Technology, Trivandrum, Kerala, India	3 Years
Research work	Ramachandran S., Bhanumathy P.	Math. Noorul Islam University, Nagercoil, 629180, India; Applied Mathematics Division, VSSC, ISRO, Thiruvananthapuram-22, India	3 Years
Research work	John Leon S., Winowlin Jappes J.T., Edwin Sahayara M.	Department of Mechanical Engineering, Kalasalingam University, Anand Nagar, Krishnankoil, Tamilnadu, India; Department of Automobile Engineering, Noorul Islam Centre for Higher Education, Kanyakumari District, Kumaracoil, Tamil Nadu, India	3 Years
Research work	Leon S.J., Jappes J.T.W., Sahayaraj M.E.	Department of Mechanical Engineering, Kalasalingam University, Anand Nagar, Krishnankoil, Tamilnadu, India; Department of Automobile Engineering, Noorul Islam Centre for Higher Education, Kumaracoil,	3 Years

		Kanyakumari District, Tamil Nadu, India	
Research work	Anandan S., Rajesh R.	Kudankulam Nuclear Power Project, Research Scholar, Dept. of Mechanical Engineering, Noorul Islam University, Kumara coil, Kanyakumari, Tamil Nadu, India; Rohini College of Engineering, Kanyakumari, Tamil Nadu, India	3 Years
Research work	Anoop Kumar S., Rajesh R.	Department of Mechanical Engineering, Noorul Islam University, Kumaracoil, Tamilnadu, India; Rohini College of Engineering and Technology, Kanyakumari Main Road, Palkulam, Tamilnadu, India	3 Years
Research work	Divya S.V., Shaji R.S., Venkadesh P.	Department of Information Technology, Noorul Islam University, Thuckalay, Kumaracoil, Tamil Nadu, 629180, India; Department of CSE, St. Xavier's Catholic College of Engineering, Chunkankada, Nagercoil, Tamil Nadu, 629003, India; Department of CSE, Noorul Islam University, Kumaracoil, Thuckalay, Kanyakumari, Tamil Nadu, 629180, India	3 Years
Research work	John J., Uma Samundesvari K.	Department of Mathematics, Government College of Engineering, Tirunelveli, 627 007, India; Department of Mathematics, Noorul Islam Centre for Higher Education, Kumaracoil, 629 175, India	3 Years
Research work	Anjali Krishna R., Padmasuresh L., Muthukumar P.	Noorul Islam University, Thuckalay, Tamilnadu, 629180, India; Baseline Mathew II College of Engineering, Sasthamkotta, Kerala, 690521, India; AMET Deemed To Be University, Chennai, 603112, India	3 Years
Research work	Nithin S.S., Padma L., Suresh N.S.	Noorul Islam University, Kanyakumari, Tamil Nadu, India; Baseline Mathews II college of Engg, Kollam, Kerala, India; Sri Indu College of Engineering, Hyderabad, India	3 Years
Research work	Ramanan G., Neela Rajan R.R., Rajesh Prabha N.	Department of Aeronautical Engineering, ACS College of Engineering, Bangalore, India; Department of Aeronautical Engineering, Noorul Islam Centre for Higher Education, Nagercoil, India; Department of Mechanical	3 Years

		Engineering, Mohandas College of Engineering and Technology, Nedumangad, India	
Research work	Sagi Rani C., Thangaraj G., Suresh D.M., Joseph John N.	Department of Physics, Noorul Islam Centre for Higher Education, Noorul Islam University, Kumaracoil, Tamil Nadu, 629180, India; Department of Physics, Sethupathy Government Arts College, Ramanathapuram, Tamil Nadu, 625502, India; Department of Physics, Government Arts College, Udthagamandalam, Tamil Nadu, 643 002, India	3 Years
Research work	Mohan P., Azhagesan N., Sivapragash M.	Department of Mechanical Engineering, PSN Institute of Technology and Science, Tirunelveli, Tamil Nadu, India; Department of Mechanical Engineering, Cape Institute of Technology, Levengipuram, Tirunelveli, Tamil Nadu, India; Department of Mechanical Engineering, Noorul Islam University, Kumaracoil, Kanyakumari, Tamil Nadu, India	3 Years
Research work	Ramanan G., Rajesh Prabha N., Diju Samuel G., Jai Aultrin K.S., Ramachandran M.	Department of Aerospace Engineering, ACS College of Engineering, Bangalore, Karnataka, 560074, India; Department of Mechanical Engineering, Mohandas College of Engineering and Technology, Trivandrum, Kerala, 695544, India; Department of Aeronautical Engineering, MLR Institute of Technology, Hyderabad, Telangana, 500043, India; Department of Mechanical Engineering, Noorul Islam Centre for Higher Education, Kumaracoil, Tamilnadu, 629180, India; MPSTME, SVKM's NMIMS (Deemed to be University), Shirpur, 425 405, India	3 Years

3.7.2 Linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From-To)	participant
Internship training	PHP, HTML, Project Orientation, Security and	Keltron, Trivandrum	19.12.2018 to 25.12.2018	ALAN P.G

	SSG			
Internship training	PHP, HTML, Project Orientation, Security and SSG	Keltron, Trivandrum	19.12.2018 to 25.12.2018	Ahamed Suhail S.
Internship training	PHP, HTML, Project Orientation, Security and SSG	Keltron, Trivandrum	19.12.2018 to 25.12.2018	Melkin Sheferin Das
Internship training	Telecom	Regional Telecom Training Centre	04.06.2018 to 08.06.2018	Sivayegnesh
Internship training	Titanium dioxide pigment	Kerala minerals and metals limited	04.01.2019 to 09.01.2019	Manunarayan M.
Internship training	Testing	Tachlog Private limited	15.12.2018 to 21.12.2018	Vishnu S.S
Internship training	Testing	Tachlog Private limited	15.12.2018 to 21.12.2018	Kamal M.S
Internship training	Development of Innovative Projects using MATLAB	Arunachala technologies	13.08.2018 to 14.08.2018	Sahaya John Baby S.
Internship training	.Net	Inview Technologies	04.06.2018 to 02.07.2018	Athul Santhosh
Internship training	.Net	Inview Technologies	04.06.2018 to 02.07.2018	Vaisakh Santhosh
Research Consultancy	Synthesis and characterization of nanomaterial	Xcellogen Biotech	2018 – 2019	Faculty and students of nanotechnology
Implant Training	Study about IT Applications in KKNPP	Kudankulam Nuclear Power Plant	17.12.2018 to 30.01.2019	02
Research	Doctoral Committee Member	Centre for Research, Anna University, Chennai	07- 2018 to 05-2019	02
Research	Doctoral Committee Member	Manonmaniam Sundaranar University , Tirunelveli. (St.Xaviers College, Palayamkottai)	06.08.2018	01
Research	Doctoral Committee Member	Manonmaniam Sundaranar University , Tirunelveli. (St.Xaviers College, Palayamkottai)	16.10.2018	01
Summer placement project	Organization study	Kerala Feeds Ltd	04/07/2018 to 31/07/2018	Abdulla A
Summer	Organization	Sundaram Clayton Pvt Ltd,	04/07/2018 to	Anto Bosco .J

placement project	study	Chennai	31/07/2018	
Summer placement project	Organization study	The Indis Cements Ltd	04/07/2018 to 31/07/2018	Borish Liffin P J
Summer placement project	Organization study	Keltron Public Ltd	04/07/2018 to 31/07/2018	Joshy C
Summer placement project	Organization study	Ongc, Kolkata	04/07/2018 to 31/07/2018	Lini S
Summer placement project	Organization study	Al_Hafa Frozen Foods International Pvt Ltd, Chennai	04/07/2018 to 31/07/2018	Prashanth G K
Summer placement project	Organization study	Sun Paper Mil Ltd	04/07/2018 to 31/07/2018	Stalin TG

3.7.3 MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose and Activities	Number of students/teachers participated under MoUs
Inbiotics Workshop for biologist	6-10-18	Research and student projects	25
Saadhana Health & Safety Solutions Ltd, Chennai	05-01 2019	Fire safety and First Aid Training	63
Dragon fire and security systems	10-10-2018	Fire safety Projects	15

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

4.1.1 Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation(Lakhs)	Budget utilized for infrastructure development(Lakhs)
210.64	287.58

4.1.2 Details of augmentation in infrastructure facilities during the year

Facilities	Existing	Newly added
Campus area	47 Acres	-
Class rooms	120	11
Laboratories	81	6
Seminar Halls	25	0
Classrooms with LCD facilities	29	4
Classrooms with Wi-Fi/ LAN	120	11
Seminar halls with ICT facilities	21	0
Video Centre	-	-
No. of important equipments purchased ($\geq$ 1-0 lakh) during the current year.	-	28
Value of the equipment purchased during the year (Rs. in Lakhs)	-	20.94

Others				-		-			
4.2 Library as a Learning Resource									
4.2.1 Library is automated {Integrated Library Management System (ILMS)}									
Name of the ILMS software		Nature of automation (fully or partially)			Version		Year of automation		
Auto Lib		Fully			5.1		2003		
4.2.2 Library Services:									
		Existing		Newly added		Total			
		No.	Value	No.	Value	No.	Value		
Text Books		78083	22,176,130.00	2433	2,053,171.00	80516	24,229,301.00		
Reference Books		2249	3,793,189.00	121	622,630.00	2370	4,415,819.00		
e-Books		352	429,434.00	12665	118,000.00	13017	547,434.00		
Journals		160	217,402.00	21	107,984.00	181	325,386.00		
e-Journals		588	519,213.00	25882	118,000.00	26470	637,213.00		
Digital Database		-	-	-	-	-	-		
CD & Video		2197	-	210	-	2407	-		
Library automation		3.0	65,000.00	1	70,800.00	-	-		
Weeding (Hard & Soft)		-	-	-	-	-	-		
Others (News Paper)		10	25,000.00	2	5,000.00	12	30,000.00		
4.2.3 E-content developed by teachers such as: e-PG-Pathshala, CEC (under e-PG-Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc									
Name of the teacher		Name of the module			Platform on which module is developed		Date of launching e - content		
-		-			-		-		
4.3 IT Infrastructure									
4.3.1 Technology Upgradation (overall)									
	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Available band width (MGBPS)	Others
Existing	1004	666	535	-	-	323	681	1 GBPS	
Added	129	129	129	-	-	0	129	-	
Total	1133	795	664	-	-	323	810	1 GBPS	
4.3.2 Bandwidth available of internet connection in the Institution (Leased line)									
1 GBPS									
4.3.3 Facility for e-content									
Name of the e-content development facility					Provide the link of the videos and media centre and recording facility				
-					-				

4.4 Maintenance of Campus Infrastructure			
4.4.1 Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year			
Assigned budget on academic facilities(Lakhs)	Expenditure incurred on maintenance of academic facilities(Lakhs)	Assigned budget on physical facilities(Lakhs)	Expenditure incurred on maintenance of physical facilities(Lakhs)
1023.01	852.24	440.36	355.71
4.4.2 Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link) http://www.niuniv.com/facilities.html			
NICHE ensures optimal allocation and utilization of the available financial resources for the maintenance and upkeep of different facilities by holding regular meetings of various committees constituted for this purpose and using the grants received from NICHE as per the requirements in the interest of students. Laboratory Record of maintenance is maintained by lab technicians and supervised by Lab Incharge and HODs of the concerned departments. Physical facilities like laboratory, library, sports complex, computers, classrooms etc of NICHE are maintained by the maintenance department for the upkeep of infrastructure. At the departmental level, HoDs submit their requirements to the maintenance department regarding maintenance and minor repair of furniture and other electrical, plumbing equipments etc. There are technicians, masons, plumbers, carpenters deputed by management who ensure the maintenance of physical facilities and related infrastructure. The computers are maintained in the Institution by the Internet Lab. This department provides the integrated IT services like smooth running of Computers, related hardware, networking and other electronic equipments, Also up-gradation and maintenance of software packages, troubleshooting of hardware, networking equipments including internet connectivity, procurement of hardware, software etc.			
V - STUDENT SUPPORT AND PROGRESSION			
5.1 Student Support			
5.1.1 Scholarships and Financial Support			
	Name /Title of the scheme	Number of students	Amount in Rupees
Financial support from institution	Fee Concession to Meritorious Students	481	1,02,50,000
	Fee Concession to Poor Students	182	47,24,500
Financial support from other sources			
a) National	I) Post matric scholarship schemes minorities cs II) Merit-cum means scholarship for professional and technical courses cs	14	2,86,700
b) International	-	-	-
5.1.2 Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,			
Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
VetriNitchayam (Personality Development Program)-Gilette	28-01-2019	184	Mr. C. Parthiban Gilette, Chennai
PSS2201 – Soft Skills Phase -I	04- 07 - 2018	117	NICHE

PSS2203 – Soft Skills Phase - III	04-07 - 2018	140	NICHE
PSS2202 – Soft Skills Phase -II	02 – 01 - 2019	119	NICHE
Remedial Coaching	4 – 7 – 2018 to 30-4- 2019 2019	115	NICHE
Mentoring	4 – 7 – 2018 to30-4- 2019 2019	68	NICHE
Bridge course	30-08-2018 and 05-09-2018	377	NICHE
Guest Lecture on Employability and Career Growth in Mechanical Engineering	25-03-2019	90	NICHE

5.1.3 Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students by Guidance for Competitive examination	Number of benefited students by Career Counselling activities	Number of students who have passed in the competitive exam	Number of students placed
12-7-018	Workshop- (I Transform, India will Transform)	-	20	-	-
18-7-2018	Women Empowerment & Entrepreneurship Development Programme	-	31	-	-
20-7-2018	Motivational Seminar (Body Complex)	-	224	-	-
13-8-2018	Seminar on IoT and AI	94	-	-	-
24-9-2018	The Successful Job Interview	-	97	-	-
28-1-2019	Personality Development Programme	184	-	-	-
22-2-2019	Workshop- Emerging IT Trends & Technologies	05	-	-	-
11-3-2019	Seminar on “Education –	17	-	-	-

	Exploring Opportunity”				
					-

5.1.4 Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	No. of grievances redressed	Average number of days for grievance redressal
2	2	15

5.2 Student Progression

5.2.1 Details of campus placement during the year

On campus			Off Campus		
Name of Organizations Visited	Number of Students Participated	Number of Students Placed	Name of Organizations Visited	Number of Students Participated	Number of Students Placed
Kwangjin India Auto Systems, Chennai	23	9			
Wisdom Resource Management Pvt. Ltd	151	14			
Eureka Forbes Ltd.	100	3			
Achivia Group of Companies	56	13			
Employability Bridge	84	12			
Pace Job Vacancy	22	4			
V-Dart Software Services, Trichi.	52	15			
Duruva Finance Pvt. Ltd.,	58	4			
Ababil Health Care	36	5			
ACT Plast Paints Pvt Ltd., Chennai	32	13			
Kwang Sung Brake India Ltd.,Chennai	22	4			

5.2.2 Student progression to higher education in percentage during the year 4.44

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of Programme admitted to
2019	01	M.Sc Software Engineering	Software Engineering	NICHE	M.Phil Computer Science
2019	01	MCA	Computer Applications	NICHE	M.Phil Computer Science
2018	2	B.E	Civil Engineering	Rohini College of Engineering	M.E Construction engineering
2018	7	B.E	Civil Engineering	Noorul Islam centre for higher	M.E structural

				education	engineering
2019	1	B.E.	Computer Science and Engineering	Govt. Engg. College, Trivandrum	M.Tech (Network Engineering)
2019	1	B.E.	Computer Science and Engineering	SSN College of Engg, Chennai	M.Tech(IT)
2019	1	B.E.	Computer Science and Engineering	M.S. University	M.B.A(HR)
2019	1	B.E.	Computer Science and Engineering	Anna University	M.E (CSE)
2019	1	B.E	Aircraft Maintenance Engineering	Akademia Leona Koźmińskiego - Kozminski University, Poland	M.S.
2018	01	B.E	Electronics and Instrumentation Engineering2019	PSN College of Engineering	MBA
2019	01	B.E	Mechanical Engg	NIT, Warrangal	M.E
2019	01	B.E	Mechanical Engg	NICHE	M.E
2019	1	B.Tech.	Nanotechnology	Periyar Maniyammai Institute of Science and Technology	M.Tech.
2018	1	B.Tech.	Nanotechnology	Vellore Institute of Technology	M.Tech.
2018	01				
		M.Phil	Physics	NICHE	Ph.D
2019	01				
		M.Sc	Physics	NICHE	M.Phil
2019	01	B.E	Automobile engineering	1.Arden University, Germany.	MSc Engineering Management (CMI) FT-Blended
2019	01	B.E	Automobile engineering	Cochin University of Science and Technology	M.B.A.
2018	01	B.E	Biomedical Engineering	Asian School of Business, Trivandrum	MBA
2018	01	B.E	Biomedical Engineering	Kerala Law Academy Law College, Trivandrum	LLB
2018	01	B.E	Biomedical Engineering	Government Engineering	M.E

				College, Thrissur	
2018	01	B.E	Biomedical Engineering	VIT	M.Tech.
2019	01	M.Sc	Mathematics	NICHE	M.Phil.
2019	01	M.Sc	Mathematics	Koottalumoodu Arulmigu Bhadreswari Devasthanam College of Education, K.K. Dist.	B.Ed.
2019	01	M.Sc	Mathematics	Bethany Navajeevan College of Education, K.K. Dist.	B.Ed.

5.2.3 Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	No. of Students selected/ qualifying	Registration number/roll number for the exam
NET	-	-
SET	-	-
SLET	-	-
GATE	4	A.Fathima-CS19S37056168 Siddiq Ul Akbar-CS19S37056151 Sreethumol S-CS19S37033068 MuthuKumar-CS19S37095039
GMAT	-	-
CAT	-	-
GRE	-	-
TOFEL	1	Kiran-7799303190141848
Civil Services	1	M Vishnu Vinayak Sharma-9211030056
State Government Services	-	-
Any Other	2	M Vishnu Vinayak Sharma -1914194 Hursley-066409

5.2.4 Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Participants
State Level Inter University (SDAT) Weight Lifting Competition for Women held at Noorul Islam Center for Higher Education, Kumaracoil on 11-04-2018, 12-04-2018	State Level	Anjitha. C.L - II BE- Biomedical Jyotivarma - I - B.Sc - Perfusion Tech. Sivaganga - I - B.sc - Perfusion Tech Aswathy.S - I - B.sc - Perfusion Tech.

State Level Inter University (SDAT) Weight Lifting Competition for Men held at Noorul Islam Center for Higher Education, Kumaracoil on 11-04-2018, 12-04-2018	State Level	Sanjive. S.G - IV - BE- Marine Rovin Raj. R - II – MBA Ashin Raj. A - IV - BE- Automobile N. Mageshkumar - III - BE - Marine J. Karthikeyan - II – BE- Automobile Subbiah. S - I ME – Cyber Security N. Muthu Kumar - III - BE - Marine
State Level Inter University (SDAT) Basket Ball Tournament for Women held at Noorul Islam Center for Higher Education, Kumaracoil on 20.9.2018	State Level	Jyoti Varama - II B.Sc - Perfusion Tech. Jose Immancy - II - BE - Civil R. Sri Priyadharshini - III - M.Sc (SE) D. Divya Dharshini - I - B.Tech - Fire & Safety Sharin Maria Thomas - IV - B.Tech. Nanotech. Nithya Mol. J.B - IV- BE- Aeronautical Rachelin. J.K - III - M.Sc (SE) R.A. Emina Powling - IV – BE- Aero Reolin. J.K - IV – M.Sc (SE) Aparna R. Panicker - I B.Sc (BASLP) Seethasri - I B.E- Biomedical Anjitha . C.L - III BE- Biomedical

5.3 Student Participation and Activities

5.3.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/ medal	National/ International	Sports	Cultural	Student ID number	Name of the student
2019	Medal	National	3		1115208017	Sreethumol S
2019	Medal	National	2		1116208024	Vijay S.M
2019	Medal	National	1		1116208016	Muhammad Thalief M

5.3.2 Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

NICHE creates a platform for the active participation of the students in the various academic & administrative bodies. This empowers the students in gaining leadership qualities, rules, regulations and execution skills. Each council has a representative council, which is called Class Committee and Program Committee, which includes student members. The student members bring forward the views and suggestions of the entire class with respect to the faculty, subjects, syllabus and other things related to the class.

Every department has their own students Association with student members in pivotal positions like Association secretary, treasurer etc. The association conducts symposium and conferences every year.

The annual alumni meeting will be held once in every year in each department. The following events will take part. The meeting will start at 10.45 am with a prayer by Alumni of the college Batch. The Welcome Address will be delivered by HOD. Felicitation will be given by senior professors of department. The annual report of the Alumni Association will be presented by alumni coordinator.

A video presentation comprising of the previous Alumni meet, together with memorable photos of the programme provided a nostalgic feeling which was well acknowledged.

Teaching and Non-teaching staff and the students shared their experiences in the college. Staff will explain the various activities of the charitable association of NICHE. This helps in creating a sense of charity among the Alumni. Most of alumni members from various batches will share their experience. The vote of thanks was given by Alumni of the college.

Some cultural programmes were performed by the alumni members and the final year students of NICHE. Alumni members along with their kids also took part in the cultural programmes. This was followed by a lunch.

5.3 Alumni Engagement

5.3.1 Whether the institution has registered Alumni Association? Yes/No, if yes give details (maximum 500 words):

No

5.3.2 No. of registered Alumni:

3000

5.3.3 Alumni contribution during the year (in Rupees) :

-

5.3.4 Meetings/activities organized by Alumni Association :

Meetings/Activities	Name of the Activity	Date	Number of participants
Alumi meeting	Nice98(ECE,CSE and EEE) reunion	28-07-2018	45

CRITERION VI –GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Decentralization

The office of the Vice Chancellor delegates all the academic and operational decisions based on policy to the Academic Affairs Department headed by the Director AA in order to fulfil the vision and mission of the HEI. Director Academic Affairs formulates common working procedures and entrusts the implementation with the faculty members.

Decentralization improves the level of job satisfaction as well as employee morale, especially amongst the lower level body. Furthermore, it strives to satisfy the varying requirements for participation, independence, and status. Another important pointer in the advantages and disadvantages of decentralization is that decisions are taken and executed by authorized personnel. This, in turn, results in faster and accurate decisions which are well aware of the real scenario.

Faculty members are given representation in various committees/cells. Faculties are encouraged to develop leadership skills by being in charge of various academic, co-curricular, and extracurricular activities. They are given authority to conduct industrial tours, also appointed as coordinator/convenor for organizing

seminars/workshops/conferences/FDPs etc.

Top executives can focus more on the executive level work like planning and decision making if the lower level employees take all the responsibilities on their own. This relieves their workload which eventually is for the greater good of the organisation.

Participative management

Participative management use as an attempt to satisfy employees and increase productivity by 'participatory' means various types and degrees of involvement of employees in, control over, and decision making in an activity "Participative management, rooted in the management approach, focuses on decentralization of educational decision making and sharing of power". The definitions and meanings of the term have grown diverse and each research concentrated on some of the specific dimensions of this concept All of the areas, methods and forms of participation illustrate the fact that participative management is a multidimensional concept characteristics are declared for members of the body which ranked in order from the most to the least participative are as follows:

- Gives subordinate a share in decision-making

- Keeps subordinates informed of the true situation, good or bad, under all circumstances

- Stays aware of the state of the organization's morale and does everything possible to make it high

- Be approachable

- Counsels, trains, and develops subordinates

- Communicates effectively with subordinates

- Shows thoughtfulness and consideration of others

- Tends to make changes in ways of doing things

- Tends to support subordinates even when they make mistakes

- Expresses appreciation when a subordinate does a good job

The institute promotes a culture of participative management by involving the staff and students in various activities. Both students and faculties are allowed expressing themselves of any valuable suggestions to improve the excellence in various aspect of the Institute.

Teaching Staff are allowed to participate in Governing Body, IQAC, Grievances Redressal Cell, Anti-ragging Committee, Examination cell, Extracurricular activities, Placements. Non - Teaching Staff are allowed to participate in Local managing committee, Admission cell, Anti-ragging Committee. Students are allowed to participate in Class committee, Program committee, Anti ragging Committee, Institute magazine and newsletter Editorial Board.

6.1.2 Does the institution have a Management Information System (MIS)?

Yes/No/Partial:

Yes

6.2 Strategy Development and Deployment

6.2.1 Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

❖ Curriculum Development

The University provides complete autonomy to the departments to revise/update existing curricula to incorporate latest knowledge development and introduce new courses in tune with employability needs.

The institution believes in constantly improving the curriculum. A systematic process is followed to enrich the curriculum. Every program has been approved by Board of Studies, which comprises of some selected internal faculty and, academicians from other institutions and subject experts from industries. Principles of Bloom's Taxonomy have been applied while designing the courses. The curriculum is reviewed periodically and revisions would be undertaken based on the feedback from all the stake holders.

❖ Teaching and Learning

Equitable and affordable teaching and learning strategies were initiated in each department. Outcomes Based Education Model (OBE), Choice Based Credit System, Credit Transfer / MOOC equivalence, LMS, Smart Classrooms, Lab integrated with theory courses were followed. Distinct Assessment Platform for various courses is based on the uniqueness of the course, Inclusion of e-books, courseware, tutorial modules for each course, CO

– PO mapping and Bloom’s Level attainment for each course, Student learning Outcomes and Profiling for each course, Inclusion of mini projects for courses, Compulsory internships, Online surveys, quiz, tests, seminars.
❖ Examination and Evaluation Examination and Evaluation is to cover a wide range of assessment methods such as Continual Internal Assessment (CIA) and End Semester Assessment (ESA), problem solving, assignments, course projects etc. The system of Absolute Grading has been followed. The certificates of mark statements shall mention range of total marks, letter grade and grade points, SGPA and CGPA. Central Valuation is followed. For each discipline and subject, a Valuation Board consisting of the Chief Examiner and the Additional Examiners is appointed by the Controller of Examinations to evolve a Scheme of Valuation and keys for each paper after due deliberation.
❖ Research and Development The Board of Research, Development and Consultancy (BRDC) is an apex body which promotes, encourage and regulate research activities. Scholars receive fellowship from NICHE (full time scholar), Moulana Azad National Fellowship (4 scholars), INSPIRE fellowship (3 scholars) and CSIR-SRF (1 scholar). NICHE-BRDC encourages its faculty to file patents. Projects have been funded from DST, CSIR, ISRO, DAE, AICTE, TNSCST, DRDO and DBT. Plagiarism check is mandatory and is carried out. The Ph.D. theses awarded are deposited in UGC Shodhganga Infilibnet digital repository. NICHE has signed MoUs with various Institutes, Universities and Industries of National and International reputation.
❖ Library, ICT and Physical Infrastructure / Instrumentation A very good infrastructure, with a peaceful environment brings users to the library to make use of its resources. The increased hour’s accessibility to the Central Library with more than 76,000 books and number of journals, magazines, fortnights, weeklies and newspapers in different languages ensure full support to research. Library is equipped with E-learning centre for continual learning of students and faculties to upgrade their skill in the area of teaching and research. Research and Consultancy supportive lab equipments are available at Aeronautical department. Each department also has a well-equipped library with a good number of books, project CDs and E-resources.
❖ Human Resource Management Human resource management (HRM-NICHE) is the premeditated and logical approach to the management of the Institution’s employees working individually and collectively to the achievement of the objectives. Quality Improvement Strategies of HRM are as follows. • Human resources management – obtaining, evaluating and reporting on data that enlighten the direction of value-adding people management, strategic and operational decisions. • Institute’s social responsibility – a commitment to managing the stakeholders ethically to make a positive impact on society and environment. • Employee relations and well being – analysing the ways and means of formulating and meeting the needs of employees for healthy, safe and supportive work environment.
❖ Industry Interaction / Collaboration To explore and identify common avenues of interaction with industry as per the requirements of the institution. To identify and facilitate Guest Lectures, Interactive Workshops, Conferences, Seminars, Brain Storming Sessions, Technical discussions with members of the Industry, outside experts, eminent personalities at regular interval. Establishment of Corporate Training cell for students Field / Industry visits for students and faculty Industry Personnel as representatives in BOS and Academic Council Incubation Centre in collaboration with industries Laboratory set up in collaboration with industries and institutions Job fair is conducted for the benefit of students of various departments.
❖ Admission of Students A constitution of Admission Committee for NICHE consists of Registrar, Director of Admission,

Academic Affairs, Entrance Examination, Research, HODs and Senior professors. The Committee decides on: To advertise the admission in the university website and dailies about various programmes and fee structure. Eligibility criteria for admission to various programmes. Fixation of fees. Norms for Merit Scholarship Special merit scholarship for students who score 60 % and above in PCM at +2 level for B.E/ B.Tech programmes. Conduct of Entrance Examination and announcement of results. Calling of application for Admission. Counselling date etc.

6.2.2 : Implementation of e-governance in areas of operations:
❖ Planning and Development SMS system for dissemination of information like student attendance, CUG with SMS facility for HOD and authorities etc including regular notice to all stakeholders.
❖ Administration Online leave requisition system.
❖ Finance and Accounts Fully computerised and automated office and accounts section.
❖ Student Admission and Support Online admission including online payment gateway. Maintaining students and faculty database through MIS
❖ Examination Online result publication accessible individually by students.

6.3 Faculty Empowerment Strategies

6.3.1 Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2018-19	-	-	ICT Academy	Rs.82,600.00
2019	Dr Mathusoothana S Kumar		National Cyber Safety & Security Standards	Rs.11,800.00
2018-19	-	-	Association of Indian Universities	Rs.1,50,000.00
2018-19	Mr Nalinakshan Nair	Air India Engineering Services Ltd – DGCA Trainer Course	Air India Engineering Services Ltd - DGCA	Rs.41,418.00
2018-19	Dr Shajin Nargunam	Competency Building Programme to develop Student Build Satellite - Isreal	Foundation for Education Excellence	Rs.1,15,413.00
2019	Dr.M.C.Janaki	COCON – International Conference of Cyber Crime, Cochin	Kerala State Police	Rs. 8900

2018-2019	Prof.A.R.Subramonia Iyer	National Digital Security Conference '18	National Cyber Safety and Security Standards	Rs 1500
2018-2019	Dr. Praseetha P.K	Evidence based Science Policy Making conducted by Dialogue Matters, UK. Sponsored by IISER Pune, MHRD, Newton Bhabha Fund and British Council at New Delhi, 25 th February to 1 st March 2019.	NICHE	Rs. 17,164

6.3.2 Number of professional development / administrative training programmes organized by the University for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	Dates (from-to)	No. of participants (Teaching staff)	No. of participants (Non-teaching staff)
-	-	-	-	-	-

6.3.3 No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	Date and Duration (from – to)
Workshop on research methodology	01	10-12-2018 to 19-12-2018, 10 days
Outcomes Based Education Model, IQAC,NICHE	59	02-11-2018, 1 day
Basic Life Support & First Aid Skills ,NICHE	20	28-3-2019, 1 day
Two days workshop on Latex	12	24-06-2019 & 25-06-2019, 2 days
FDP for Students Induction Programme	2	24-06-2019 & 25-06-2019, 2 days
FDP Creative Thinking - ICT Academy	02	11-02-2019 & 12-02-2019,2 days
“Applications of Fuzzy in Intelligence System and Optimization Techniques” Dept. of Mathematics, NICHE	13	07-12-2018, 1 day
FDP(NPTEL)	05	Jan 2019-April 2019
Recent Developments in Graph Theory	1	04-02-2019, 1day
International Conference on Emerging Trends In Mathematical, Physical, and Chemical Sciences	13	22-02-2019, 1 day
Team Building	01	14-09-2018 & 15-09-2018,2 days
NPTEL Online Certification Course on Patent Drafting for Beginners	1	Jan-Feb 2019,8 Weeks
AICTE Sponsored Faculty Development Programme for Student Induction Program held at National Engineering College (Autonomous), KR Nagar, Kovilpatti -628 503	1	09-11-2019 to 11-05-2019, 3 days
Intellectual Property Rights & Entrepreneurship	1	13-11-019 & 14-11-2019,2 days

organized by the PMO-IEDP (Programme Monitoring Office – Innovation & Entrepreneurship Development Programme) from 2019 at University College of Engineering, Nagercoil Hub.		
Faculty Development Programme on Emotional Intelligence organized by ICT Academy, Chennai at Noorul Islam Centre for Higher Education, Kumaracoil during 17 th Dec – 19 th Dec 2019.	1	17-12-2019 – 19-12-2019, 3 days
Workshop on E Resources organized by Department of Library in Association with Knimbus Online Pvt. Ltd, New Delhi on 25.07.2019.	10	25-07-2019, 1 day
One day seminar on opportunities for funding for science teachers of higher education institutions (SOFST) organized by School of Education, Manonmaniam Sundarnar University, Tirunelveli under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT), MHRD, GoI	3	22-07-2019, 1 day
Advanced knowledge resources and IPR in research	1	27-03-2019, 1 day
Emergency life support training	1	14-09-2018, 1 day
Fire Safety, First Aid and Industrial safety	1	19-02-2019 & 21/02/2019, 2 days
Robots in fire and safety application	1	11-10-2018, 1 day
Workshop on Molecular Modelling	04	09-04-2019, 1 day
Seminar on Machine Learning with Hands on Workshop Using Weka Tool and R Programming	03	17-06-2019 & 18-06-2019, 2 days
NPTEL FDP on Joy of Python Programming	01	Jan 2019 to April 2019, 12 Weeks
Teaching Techniques	01	02-05-2019 & 03-05-2019, 2 days

6.3.4 Faculty and Staff recruitment (no. for permanent/fulltime recruitment):

Teaching		Non-teaching	
Permanent	Fulltime	Permanent	Fulltime
38		06	

6.3.5 Welfare schemes for

Teaching	The staff welfare schemes provided to the staff (teaching and nonteaching) through NISWA (Noorul Islam Centre for Higher Education Staff Welfare Association) are as follows: 1. Monetary gifts to the members for the wedding of their son or daughter. 2. Monetary gifts to the members for their New House Warming Ceremony.
Non teaching	

	3. Common gifts are given to the members once in a year. 4. A feast to all the members is arranged on the NISWA (Annual) Day and the members are given prizes through lucky draw on the same day. 5. Annual family tour and a get-together are arranged for the entertainment of members. 6. An amount is provided to place wreath when the parent of a member passes away. 7. In case of a death of member in service whose membership with the association is 15 years or more, a solatium of one month subscription and half a day salary of all the members are given to the spouse or the next kin of the deceased member. 8. Monetary gift is given to the members on the occasion of their daughter attaining puberty. 9. Cash prize is given to the members in the event of their son or daughter getting top marks in SSLC or HSC Public Examinations as below. • First Prize to the topper in HSC Public Examinations – Rs. 2500/- • Second Prize to the topper in HSC Public Examinations – Rs. 1500/- • First Prize to the topper in SSLC Public Examinations – Rs. 1500/- • Second Prize to the topper in SSLC Public Examinations – Rs. 1000/-
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Students

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

(with in 100 words each)

Yes, External Statutory Audit is regularly conducted. M/s. Frank&co, Chartered Accountants – Nagercoil are our External Statutory Auditors.

Internal Audit is conducted by our designated staffs then and there regularly.

6.4.2 Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies/ individuals	Funds/ Grants received in Rs.	Purpose
-	-	-

6.4.2 Total corpus fund generated 0

6.5 Internal Quality Assurance System

6.5.1 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No		Yes	Director Academics Affairs
Administrative	No		Yes	Director Academics Affairs

6.5.2 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?
(if applicable)

Nil

6.5.3 Activities and support from the Parent – Teacher Association (at least three)

Nil				
6.5.4 Development programmes for support staff (at least three)				
Nil				
6.5.5 Post Accreditation initiative(s) (mention at least three)				
1.The outcome based education was implemented to enrich the effective implementation of curriculum and syllabi				
2. Blooms taxonomy hierarchical models were implemented for exchanging the learning and assessment methods.				
3. Research ambience and enrichment is provided to all research scholars. Faculty, Research Scholar and Post graduate students were encouraged to file patenting their research findings.				
4. Faculty and Students were encouraged to take up online courses - SWAYAM MOOC courses such as NPTEL courses				
6.5.6				
a. Submission of Data for AISHE portal : (Yes)				
b. Participation in NIRF : (Yes)				
c. ISO Certification : (Yes)				
d. NBA or any other quality audit : (No)				
6.5.7 Number of Quality Initiatives undertaken during the year				
Year	Name of quality initiative by IQAC	Date of conducting activity	Duration (from-----to-----)	Number of participants
2018	Outcomes Based Education Model, IQAC,NICHE	02-11-2018	02-11-2018----02-11-2018, 1 day	59

CRITERIONVII –INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period(from-to)	Participants	
		Female	Male
Gender EquityProgram on Women empowerment	18-09-2018	65	35

7.1.2 Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
There is a 5% Off Grid Solar power plant in NICHE

7.1.3 Differently abled (Divyangjan) friendliness

Items Facilities	Yes/No	No. of Beneficiaries
Physical facilities	Yes	50
Provision for lift	No	-
Ramp/ Rails	Yes	21
Braille Software/facilities	-	-
Rest Rooms	Yes	21
Scribes for examination	Yes	2

Special skill development for differently abled students	-	-
Any other similar facility	-	-

7.1.4 Inclusion and Situatedness

Enlist most important initiatives taken to address locational advantages and disadvantages during the year

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date and duration of the initiative	Name of the initiative	Issues addressed	Number of participating students and staff
2018-2019	1	1	25-07-2018	Adoption of Govt. schools (supporting financially selected schools in the nearby areas)	Lack of infrastructure	1

7.1.5 Human Values and Professional Ethics

Code of conduct (handbooks) for various stakeholders

Title	Date of Publication	Follow up (maximum 100 words each)
Staff Hand Book	04-07-2018	Mentors of each class take responsibility in checking the online attendance and short listed the students having poor attendance. Students are counselled and asked the parents to meet and give the undertaking form. All faculty members should follow the biometric attendance system.
Student Hand Book	04-07-2018	Each student is strictly advised to improve his/her attendance by checking the monthly attendance and getting the parent's signature.

7.1.6 Activities conducted for promotion of universal Values and Ethics

Activity	Duration (from-----to-----)	Number of participants
International Conference ĪCRIESH 2019	26-04-2019 to 26-04-2019	250
International Conference on Networks, Images and Security (ICNIS'19)	10-04-2019 to 11-04-2019	200

7.1.7 Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. We have conducted Green Tree Plantation in our campus on 8.11.2019 to make the campus ever green and to inculcate the awareness to students about the ecosystem.
2. From 2018 onwards the usage of plastics are banned in our campus, hostels and canteens so that the campus became plastic free area.

3. Ground water is improved by the usage of Rain water Harvesting method in all the departments and most of the places in our campus are soily. Moreover the students are also getting awareness to use the ground water.
4. LPG cylinders are used in our college campus and hostels so that we can be saved from air pollution.
5. More power supply is needed for this institution, hostel sand canteen and it is getting from Electricity Board. In order to reduce the power consumption, Wind Mill and Solar Power are installed for power supply so that more energy can be produced by us.

7.2 Best Practices

Describe at least two institutional best practices

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

http://www.niuniv.com/igac/Best_Practices.pdf

Best Practice I

Title: Bloom's Taxonomy

Objectives of the practice.

- i. To complete the course plan and the subject completion in a proper way.
- ii. Students are motivated to learn the newly innovated ideas and develop the skill of creativity.

The Context:

Blooms Taxonomy paves the way for the teacher and student to acquire different skills and get motivated.

The Practice:

Students are not only trained to be book-worms but also to improve their knowledge through the skills such as apply, analyze Evaluate, and synthesise. Through these skills students are able to acquire project oriented skills.

Evidence of success

Through the skills such as apply, analyze, Evaluate, and synthesis students are able to participate in national and international level project oriented competitions and exhibit their talents.

Problems Encountered and Resources Required:

The various levels of Blooms Taxonomy get blurred and confused at times. In the create level of Blooms Taxonomy, it is very hard to find students /learners really creating something new. Classroom training should be given to the learners to trigger the creative side of brain.

Best Practice II

Title: Department Association Programme.

Objectives of the practice:

- To share knowledge among student community.
- To improve the organizing and leadership quality of student.

The Context:

By conducting the association program in our institution, Student-staff relationship improves and they get a chance to exhibit their knowledge and their leadership quality.

The Practice:

Association program paves the way to create an interaction between student and faculty and also among the

students. By conducting number of programs students are able to improve their skills and imbibe leadership qualities.

Evidence of success:

Association program leads the way to analyze the competitors' talent and also to be self-motivated and to take part in various competitions further.

Problems Encountered and Resources Required:

We encounter certain difficulties in gathering students from different institutions for association meetings. Finance is also at times a difficulty. Financial resource should be made available when required.

7.3 Institutional Distinctiveness

Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust
Provide the weblink of the institution in not more than 500 words

<http://www.niuniv.com/igac/Distinctiveness.pdf>

NICHE has adopted many schools in K.K District. The names of the schools are given below.

1. Govt Middle School, Adaikkakuzhi
2. Govt Muslim Primary School, Kaliakkavilai
3. Govt Middle School, Thuckalay

Team members from our institution visit those schools and are helping to conduct various skills, project and cultural competitions. Also the year wise winners are motivated and are given prizes. Best student in each class is selected and motivated and is given prizes. By doing so, students in the rural areas also can gain knowledge. We are taking steps to select the children from the poor families and sponsoring money to improve the status of the students in the nearby areas of our university campus.

8. Future Plans of action for next academic year (500 words)

Future Plan:

1. Steps to be taken to study the proposals of implementing the Bloom's Taxonomy levels in the preparation of Question Papers for the Academic year 2019-2020.
2. Steps to ensure new security features in the printing of certificates of mark statements issued to the students after the examination and evaluation were completed.
3. To make an in-depth study of the proposals of AICTE and UGC for Examination reforms and take immediate steps to implement them from the next academic year 2019-2020 onwards.
4. To construct new cloud laboratory and Robotics Laboratory to enhance the academic activity.
5. Proposal sent to AICTE to start new programmes such as Robotics and Automation, Electronics and Bio-Medical Instrumentation and Artificial Intelligence etc.

Name _____

Name _____

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC

Annexure I

Abbreviations:

CAS	-	Career Advancement Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence

For Communication with NAAC

The Director

National Assessment and Accreditation Council (NAAC)

(An Autonomous Institution of the University Grants Commission)

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