

Noorul Islam Centre For Higher Education

(Deemed University u/s 3 of UGC Act 1956)

Accredited by NAAC with 'A' Grade



The Annual Quality Assurance Report

2017-2018

Noorul Islam Centre for Higher Education

Deemed university U/S 3 of UGC Act, 1956

Kumaracoil, Thuckalay, Kanyakumari District, Pin 629180

The Annual Quality Assurance Report



AQAR Report

2017 - 2018

Part – A

Data of the Institution

(data may be captured from IIQA)

Name of the Institution Noorul Islam Centre for Higher Education

Name of the Head of the institution : Dr. R. Perumalsam

Designation: Vice Chancellor

Does the institution function from own campus: yes

Phone no./ Alternate phone no. 04651-250467

Mobile no. 09444022063

Registered Email iqac@niuniv.com

Alternate Email info@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. A. Shajin Nargunam

• Phone no./Alternate phone no. : 04651-250467

• Mobile: 09444022063

• IQAC e-mail address: iqac@niuniv.com

• Alternate Email address: info@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

Cycl	Grade	CGPA	Year of	Validity Period
1 st	A	3.06	2015	from:2015 to: 2019
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

7.1 Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & duration	Number of
Academic & Administrative Audit by IQAC		
Regular meeting of Internal Quality Assurance Cell (IQAC)	11-9-2017	17
Regular meeting of Internal Quality Assurance Cell (IQAC)	12-2-2018	18

7.2 Some Quality Assurance initiatives of the institution are: (indicative list)

- Regular meeting of Internal Quality Assurance Cell (IQAC)
- 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
- Develop a Quality Culture to improve the academic and administrative performance of the institution.

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
NICHE/Mechanical/ Dr.N.Abilash	FIST-PROJECT (Level-1)	DST-FIST	Under process	117,00,000/-
Nanotechnology	FIST	DST	2017 (2017-2022)	77,00,000/-

9. Whether composition of IQAC as per latest NAAC guidelines: Yes/No: Yes

*upload latest notification of formation of IQAC

10. No. of IQAC meetings held during the year: 2

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, workshops, publish papers
- * Motivating students to participate in seminars, workshops, various cultural activities, games & sports.
- * Strengthening the laboratories
- * Motivating the staff members to apply for minor research projects
- * 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
Flipped Classrooms	Departments have initiated the Teaching Learning process.

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

Name of the statutory body:

Date of meeting(s):

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

Yes/No: Yes

Date: 03/11/2015

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

Year : 2018

Date of Submission: 20-03-2019

17. Does the Institution have Management Information System?

Yes No : 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 these payables.
 - f) Capturing various purchase details and posting them into their respective account heads 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

CRITERIONI-CURRICULARASPECTS		
I.1Curriculum Design and Development		
I.1.1Programmes for which syllabus revision was carried out during the Academic year		
Name of programme	Programme Code	Dates of revision
B.E. Aircraft Maintenance Engineering	AC22	2017
B.E. Aeronautical Engineering	AE22	2017
M.E. Aeronautical Engineering	AE25	2017
Ph.D Aeronautical Engineering	AE9	2017
B.E. Automobile Engineering	AM22	2017
M.E. Automobile Engineering	AM25	2017
Ph.D Automobile Engineering	AM9	2017
B.E. Aerospace Engineering	AS22	2017
B.E. Biomedical Engineering	BM22	2017
Ph.D Biomedical Engineering	BM9	2017
M.Phil Computer Science	SE27	2017
M.Sc. Software Engineering	SE28	2017
MCA Computer Applications	CA25	2017
Ph.D Computer Applications	CA9	2017
Ph.D Computer Science	CT9	2017
B.E. Computer Science and Engineering	CS22	2017
M.E. Computer Science and Engineering	CS25	2017
Ph.D Computer Science and Engineering	CS9	2017
B.E. Civil Engineering	CV22	2017
M.E. Structural Engineering	CV25	2017
Ph.D Civil Engineering	CV8	2017
B.E. Electronics and Communication Engineering	EC22	2017
M.E. Communication Systems	EC25	2017
Ph.D Electronics and Communication Engineering	EC9	2017
B.E. Electrical and Electronics Engineering	EE22	2017
M.E. Applied Electronics	EE25	2017
Ph.D Electrical and Electronics Engineering	EE9	2017
B.E. Electronics and Instrumentation Engineering	EI22	2017
M.E. Control and Instrumentation Engineering	EI25	2017
Ph.D Electronics and Instrumentation Engineering	EI9	2017
B.Tech. Fire Technology and Safety Engineering	FT22	2017
B.Tech. Information Technology	IT22	2017
M.E. Cyber Security	CY25	2017
Ph.D Information Technology	IT9	2017
B.E. Mechanical Engineering	ME22	2017
M.E. Computer Integrated Manufacturing	CM25	2017
M.E. Thermal Engineering	TE25	2017
Ph.D Mechanical Engineering	ME9	2017
B.E. Marine Engineering	MR22	2017
B.Com	CO16	2017
BBA	MS26	2017
M.Phil. Business Administration	MS24	2017
MBA Business Administration	MS25	2017
Ph.D Management Studies	MS9	2017
B.Tech. Nanotechnology	NT22	2017
M.Phil. Biotechnology	BT24	2017
M.Tech. Nanotechnology	NT25	2017
Ph.D Nanotechnology	NT9	2017
M.Phil. Chemistry	CH24	2017
M.Sc. Chemistry	CH27	2017
Ph.D Chemistry	CH9	2017
M.A. English	EG27	2017

M.Phil. English	EG24	2017
Ph.D English	EN9	2017
M.Phil. Mathematics	MA24	2017
M.Sc. Mathematics	MA27	2017
Ph.D Mathematics	MA9	2017
M.Phil. Physics	PH24	2017
M.Sc. Physics	PH27	2017
Ph.D Physics	PH9	2017
B.Sc. Cardiac Care Technology	CT26	2017
B.Sc. Forensic Science	FS26	2017
B.Sc. Human Genetics and Molecular Biology	BM26	2017
B.Sc. Perfusion Technology	PT26	2017
B.Sc. Renal Dialysis Technology	DT26	2017

1.1.2 Programmes/courses focused on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Date of Introduction	Course with Code	Date of Introduction
MCA Computer Applications –CA25	2009	Advanced XML and Web Applications	CA1517
		Big Data Analytics	CA1518
		XML and Web Applications Lab	CA1580
		Project Work – Phase I	CA15P1
		Project Work – Phase II	CA15P5
		Problem Solving and Programming in C	CA2501
		Data Structures and Algorithm Analysis	CA2504
		C Programming Laboratory	CA2571
		Data Structures Laboratory	CA2572
		Object Oriented Programming Laboratory	CA2573
		DBMS Laboratory	CA2574
		Graphics Laboratory	CA2575
		Network Programming Laboratory	CA2576
		Java Programming Laboratory	CA2578
		Internet and Java Programming	CA2513
		Network Programming	CA2510
		Android Programming	CA2516
		Visual Programming	CA2517
		Visual Programming Laboratory	CA2579
		Android Programming Laboratory	CA2580
M.Sc. Software Engineering- SE28	2009	Database Management System	SE2808
		Software Architecture	SE2809
		Operating System and System Software	SE2811
		Advanced Microprocessor	SE2810
		Web Design	SE 2819
		Theory Of Computation	SE2820
		Multimedia Systems	SE2821
		Software Quality Assurance	SE2822
		Cryptography	SE2826
		Advanced JAVA Programming	SE2827
		Image Processing	SE28A7
M.E. Aeronautical Engineering- AE25	2009	Advance Propulsion System	AE15B5
		Propulsion Lab	AE1573

		Fatigue and Fracture Mechanics	AE15B1	2013
		Experimental Methods in Fluid Mechanics	AE15B6	2013
		Computational Fluid Dynamics	AE1507	2013
		Computational Fluid Dynamics Lab	AE1572	2013
		Aircraft Design	AE25A3	2017
		Aircraft Structural Mechanics	AE2502	2017
		Structures Laboratory	AE2571	2017
		Advanced Heat Transfer	AE2504	2017
		Experimental Aerodynamics	AE2501	2017
		Aerospace Propulsion	AE2503	2017
		Flight Dynamics	AE2505	2017
		High Speed Aerodynamics	AE2508	2017
		Aero Elasticity	AE2509	2017
		Computational Fluid Dynamics	AE2507	2017
		CFD Lab	AE2572	2017
B.E. Aeronautical Engineering-AE22	2009	Avionics	AE12B8	2013
		Airframe & Composite Materials Lab	AE1282	2013
		Composite Materials and Structures	AE1216	2013
		Finite Element Analysis	AE1271	2013
		Computational fluid Dynamics	AE1218	2013
		Computational Fluid Dynamics Lab	AE1283	2013
		Industrial Aerodynamics	AE12A4	2013
		Aero Engines Maintenance and Repair	AE12A1	2013
		Aerodynamics Lab	AE1276	2013
		Aerodynamics II	AE1208	2013
		Flight Dynamics	AE1210	2013
		Introduction to Aircraft and Aerospace Vehicles	AE1203	2013
		Thermal and Heat Transfer Lab	AE1271	2013
		Engineering Materials and Metallurgy	ME1210	2013
		Aero Engineering Thermodynamics	AE1201	2013
		Aircraft Design Project I	AE1277	2013
		Aircraft Component Design and Drafting	AE1275	2013
		Air Transportation and Aircraft Maintenance	AE12A6	2013
		Rockets and Missiles	AE12B7	2013
		Space Mechanics	AE12B5	2013
		Control Engineering	EE12A3	2013
		Aircraft Design	AE1215	2013
		Aero Acoustics	AE1212	2013
		Aircraft Design Project II	AE1279	2013
		CAD & FEM Lab	AE1278	2013
		Navigation and Guidance Lab	AE1280	2013
		Manufacturing Technology I	ME1204	2013
		Manufacturing Technology Lab I	ME1272	2013
		Aircraft Systems and Instrumentation	AE1205	2013
		Aircraft Structures	AE1206	2013
		Aircraft Systems Lab	AE1274	2013

		Aircraft Structures Lab	AE1273	2013
		Production Process Lab	ME2291	2017
		Aircraft Production Technology	AE2201	2017
		Aeromodelling Lab	AE2271	2017
B.Sc.Forensic Science- FS26	2017	Basic of Forensic Science	FS2601	2017
		Basic of Forensic Biology	FS2604	2017
		Introduction to Computer	FS2606	2017
		Anatomy	BS2601	2017
		Physiology	BS2602	2017
		Basic Biochemistry	BS2603	2017
		General Pathology	BS2605	2017
		Microbiology	BS2606	2017
		Pharmacology	BS2607	2017
		Psychology	BS2608	2017
		Introduction to Computer	BS2609	2017
B.Sc. Human Genetics and Molecular Biology – BM26	2017	Biophysics & Instrumentation	BM2603	2017
		Organic Mechanisms in Biology	BM2605	2017
		Plant Genetics	BM2606	2017
		Introduction to Computer	BM2607	2017
		Principles of Immunology	BM2608	2017
		Cytogenetic Techniques Lab	BM2674	2017
		Introduction to Computer Lab	BM2675	2017
M.Sc. Chemistry –CH27	2013	Basic principles of Instrumental techniques	CH2708	2017
		Organic chemistry Lab	CH2771	2017
		Inorganic chemistry Lab	CH2772	2017
		Physical chemistry Lab	CH2773	2017
M.E. Communication Systems –EC25	2009	Wireless Communication Engineering	EC2505	2017
		Digital Image Processing	EC25A1	2017
		Advanced Embedded Systems	EC25B3	2017
		Geographic Information System	EC25B2	2017
		Wireless Sensor Networks	EC25B5	2017
		4G Wireless Networks	EC25C1	2017
		Communication Systems Lab-I	EC2571	2017
		Communication Systems Lab-II	EC2572	2017
B.E. Electronics and Communication Engineering –EC22	2009	Embedded and real time System	EC12A4	2013
		Nano Electronics	EC1220	2013
		VLSI technology	EC1217	2013
		Cognitive Radio	EC12A7	2013
		Cloud Computing	EC12C7	2013
		Control System	EC1210	2013
		Digital Signal Processing	EC1211	2013
		Electric Circuits and Electron Devices Lab	EC1271	2013
		Digital Electronics Lab	EC1272	2013
		Linear Integrated Circuits Lab	EC1273	2013
		Electronic Circuits Lab	EC1274	2013
		Digital Signal Processing Lab	EC1275	2013
		Communication System Lab	EC1276	2013

		Electronic Circuits and Simulation Lab	EC1277	2013
		Microprocessor and Microcontroller Lab	EC1278	2013
B.Tech. Fire Technology and Safety Engineering-FT22		Safety in Petroleum and Petrochemical Industries	FS12A2	2017
		Nuclear Engineering and safety	FS1212	2017
		Safety in construction	FS12A7	2017
		Fire safety training Lab	FS2280	2017
B.E.Mechanical Engineering-ME22	2009	Manufacturing Processes – I	ME2202	2017
		Manufacturing Processes Laboratory - I	ME2272	2017
		Engineering Materials and Metallurgy	ME2207	2017
		Mechanical Engineering Drawing	ME2274	2017
		Gas Dynamics and Jet Propulsion	ME2208	2017
		Metrology Laboratory	ME2287	2017
		Mechatronics Laboratory	ME2289	2017
		Supply Chain Management	ME22A1	2017
		Soft Computing Techniques	ME22A2	2017
		Strength of Materials	ME2210	2017
		CAD/CAM	ME2211	2017
		Thermal Engineering Laboratory - I	ME2277	2017
		Design of Machine Elements	ME2214	2017
		Dynamics of Machinery	ME2215	2017
		Dynamics Laboratory	ME2283	2017
		Finite Element Analysis	ME2217	2017
		Mechatronics	ME2220	2017
		Engineering Thermodynamics	ME2203	2017
		Fluid Mechanics and Machinery	ME2204	2017
		Engineering Mechanics	ME2205	2017
		Introduction to Aircraft Industry and Aircraft Systems	ME22A3	2017
M.E. Thermal Engineering	2009	Energy Systems Modeling and Analysis	TE2509	2017
		Thermal Engineering Laboratory - II	TE2572	2017
		Industry Internship Training	TE25P1	2017
		Project work – Phase I	TE25P2	2017
		Project work – Phase II	TE25P5	2017
M.E. Computer Integrated Manufacturing -CM25	2009	Statistical and Optimization Technique	CM2501	2017
		Principles of CIM	CM2502	2017
		Sensors, Actuation Devices and Control	CM2503	2017
		Computer Aided Design	CM2504	2017
		Computer Aided Manufacturing	CM2505	2017
		Production and Operation Management	CM2506	2017
		Mechatronics	CM2507	2017
		Manufacturing System Simulation	CM2508	2017
		Robotics	CM2509	2017
		Manufacturing Information System	CM2510	2017
		CIM Laboratory - II	CM2572	2017
		Industrial Internship Training	CM25P1	2017
		Project Work - Phase I	CM25P2	2017

		Project Work - Phase II	CM25P5	2017
B.E. Electrical and Electronics Engineering-EE22	2009	Electric Circuits Analysis	EE1201	2013
		Electrical Machines – I	EE1202	2013
		Electrical Machines – II	EE1203	2013
		Transmission & Distribution& Cables	EE1204	2013
		Control Systems	EE1205	2013
		Electromagnetic Theory	EE1206	2013
		Power electronics	EE1207	2013
		Protection & Switchgear	EE1208	2013
		Power System Analysis	EE1209	2013
		Solid State Drives& Control	EE1210	2013
		Power System Operation and Control	EE1211	2013
		Design of Electrical Apparatus	EE1212	2013
		Electric Energy Generation, Utilisation and Conservation	EE1213	2013
		Computer Aided Design of Electrical Machines	EE12A1	2013
		HVDC & FACTS	EE12A2	2013
		Neural Network and Fuzzy Logic Control	EE12A3	2013
		Power Quality	EE12A4	2013
		Embedded System Design	EE12A5	2013
		Power System Dynamics	EE12A6	2013
		Modern Control Theory & Applications	EE12A7	2013
		High Voltage Engineering	EE12A8	2013
		Renewable Energy Sources	EE12A9	2013
		Control Engineering	EE12B1	2013
		Special Electrical Machines	EE12B2	2013
M.E. Applied Electronics– EE25	2009	Power System Restructuring and Deregulation	EE12B3	2013
		Project Phase-I	EE12P1	2013
		Project Phase-II	EE12P5	2013
		Advanced Digital System Design	EE1501	2013
		VLSI Design	EE1502	2013
		Analysis and Design of Analog Integrated Circuits	EE1503	2013
		Neural Networks & Applications	EE1504	2013
		Digital Control Engineering	EE1505	2013
		Advanced Embedded Systems	EE1506	2013
		Robotics	EE15A1	2013
		Electromagnetic Interference and Compatibility in System Design	EE15A2	2013
		Advanced Microprocessor and Microcontroller	EE15A3	2013
		Low Power VLSI	EE15A4	2013
		Digital signal processors	EE15A5	2013
B.E. Computer Science	2009	Embedded Analog Interfacing	EE15A6	2013
		Project Phase-I	EE15P1	2013
		Project Phase-II	EE15P5	2013
		Object Oriented Programming	CS1201	2013

and Engineering-CS22		Data Structures & Algorithm	CS1202	2013
		Software Engineering	CS1203	2013
		Object Oriented Programming Lab	CS1271	2013
		Data Structures Lab	CS1272	2013
		System Software	CS1207	2013
		Object Oriented Analysis Design	CS1208	2013
		Microprocessor & Microcontroller	CS1209	2013
		Microprocessor & Microcontroller Lab	CS1276	2013
		Mini Project-I	CS12P1	2013
		System Software Lab	CS1277	2013
		Internet Programming	CS1216	2013
		Artificial Intelligence and Applications	CS1214	2013
		Mobile Networking	CS1215	2013
		Introduction to Mainframe	CS12B7	2013
		Cloud Computing	CS12C2	2013
		Biometrics	CS12C1	2013
		Neural Networks and Applications	CS12B6	2013
		Mini Project-III	CS12P3	2013
		Open Source Lab	CS1280	2013
		Internet Programming Lab	CS1281	2013
M.E. Computer Science and Engineering –CS25	2009	Adhoc Networks	CS15B3	2013
		Data Mining Techniques	CS15B7	2013
		Cloud Computing	CS15C1	2013
		Advanced Networking Lab	CS1573	2013
		Project Work Phase-I	CS15P1	2013
B.Tech. Information Technology – IT22	2009	Java Programming	IT2203	2017
		Building Enterprise Applications	IT12A8	2013
		Data Analytics	IT12B4	2013
		Data Warehousing and Data Mining	IT12A9	2013
		Cloud Computing Concepts	IT1218	2013
		Cyber Security	IT1212	2013
		Internet of Things	IT12A2	2013
		Object Oriented Programming using C++	IT2201	2013
		Digital lab	IT1271	2013
		Data Structures using C++ Lab	IT1272	2013
		Computer Networks Lab	IT1274	2013
		Microprocessor and Microcontroller Lab	IT1275	2013
		Case Tools Lab	IT1276	2013
		Open Source Lab	IT1273	2013
		DBMS Lab	CS1273	2013
		Mini Project	IT12P1	2013
		Web Technology Lab	IT1277	2013
		Computer Graphics Laboratory	CS1278	2013
		Mini Project	IT12P2	2013
		Service Oriented Architecture Lab	IT1278	2013
		Advanced Java Programming Lab	IT1279	2013
		Mini Project	IT12P3	2013

		Main Project	IT12P5	2013
		Electronics Commerce	IT12A7	2013
M.E. Cyber Security – CY25	2013	Cyber Crime Investigations and Digital Forensics	CY2505	2017
		Biometric Security	CY25A3	2017
		Applied Cryptography	CY2501	2017
		Cyber Security Threats	CY2502	2017
		Ethical Hacking	CY25A1	2017
		Operating System and Data Structures Lab	CY2571	2017
		Database and Cyber Security Lab	CY2572	2017
MBA Business Administration – MS25	2009	Organizational Behaviour	MS2503	2013
		Accounting for Managers	MS2504	2013
		Business Law	MS2505	2013
		Executive Communication	MS2506	2013
		Entrepreneurship, Creativity & Innovation	MS2507	2013
		Marketing Management	MS2508	2013
		Financial Management	MS2509	2013
		Human Resource Management	MS2510	2013
		Production and Operations Management	MS2511	2013
		Management Information Systems	MS2513	2013
		Business Application Software	MS2571	2013
		International Business Environment	MS2514	2013
		Strategic Management	MS2515	2013
		Summer Placement Project Work (4 weeks)	MS25P1	2013
		Business Analytics	MS2516	2013
		Final Project Work (8 Weeks)	MS25P5	2013
		Services Marketing	MS25A1	2013
		Retail Marketing	MS25A2	2013
		Product and Brand Management	MS25A3	2013
		Sales & Distribution Management	MS25A4	2013
		Consumer Behaviour	MS25A5	2013
		Advertising and Promotion Management	MS25A6	2013
		Rural Marketing	MS25A7	2013
		Capital Market	MS25B1	2013
		Security Analysis and Portfolio Management	MS25B2	2013
		International Financial Management	MS25B3	2013
		Management of Financial Services & Institutions	MS25B4	2013
		Organization Development and Change	MS25C2	2013
		Human Resource Accounting & Audit	MS25C3	2013
		Strategic Human Resource Management	MS25C5	2013
		Training & Development	MS25C6	2013
		Human Resource Planning & Development	MS25C7	2013
		Supply Chain Management	MS25D1	2013
		Logistics Management	MS25D2	2013
		Value Engineering & Business Process Reengineering	MS25D3	2013
		Production and Operation Management	MS25D5	2013

		Purchasing and Inventory Management	MS25D6	2013
		Total Quality Management	MS25D9	2013
		Project Management	MS25D0	2013
		Data Warehousing & Data Mining	MS25E1	2013
		Enterprise Resource Planning	MS25E2	2013
		Software Project & Quality Management	MS25E3	2013
		Decision Support System	MS25E4	2013
		Commercial Aviation Safety and Security	MS25F4	2013
		Strategic Aviation Management	MS25F5	2013
		Mass Media Communication and Management	MS25G2	2013
		Audio-Visual Media Communication	MS25G3	2013
		Shipping and Port Management	MS25H1	2013
		Role of Shipping in Logistics and Supply Chain Management	MS25H2	2013
		Legal Aspects of Shipping	MS25H3	2013
		Commercial Aspects of Shipping and Marine Insurance	MS25H4	2013
		Emerging Trends in Technology Management	MS25I5	2013
		Knowledge Management System	MS25I6	2013
		Health Care Management	MS25J1	2013
		Crisis and Risk Management	MS25K3	2013
		Management of Banking & Financial Institutions	MS25L2	2017
		Merchant Banking & Financial Services	MS25L3	2017
		Banking Technology Management	MS25L4	2017
		Global Financial Markets & International Banking	MS25L5	2017
		Insurance & Risk Management	MS25L6	2017
BBA -MS26	2014	Business Organization	MS2601	2014
		Organizational Behavior	MS2605	2014
		Financial Accounting	MS2606	2014
		Financial Management	MS2608	2014
		Business Communication	MS2609	2014
		Value Based Education	MS2610	2014
		Human Resource Management	MS26A1	2014
		Production and Operation Management	MS26A2	2014
		Marketing Management	MS26A3	2014
		Airline Operations Management	MS26B1	2017
		Aviation Marketing	MS26B2	2017
		Airport Management	MS26B3	2017
		Business Law	MS26A4	2014
		E – Business	MS2611	2014
		Entrepreneurship Development	MS26A6	2014
		Operations Research	MA2602	2014
		Computer Application in Business – Lab	MS2671	2017
		Management Information System	MS2614	2014
		Strategic Management	MS2612	2014

		Total Quality Management	MS26A9	2014
		Global Air transport Management	MS26B8	2017
		Airport planning and Design	MS26B9	2017
		Business Planning	MS2616	2014
		Services Marketing	MS26A0	2014
		Final Internship Project	MS26P1	2017
B.Com-CO16	2016	Financial Accounting I	CO1601	2016
		Organisational Theory and Practices	CO1602	2016
		Economics for Business Decision I	CO1603	2016
		Value Based Education	CO1604	2016
		Financial Accounting II	CO1605	2016
		Business Communication-I	CO1606	2016
		Economics for Business Decision II	CO1607	2016
		Advanced Accounting I	CO1609	2016
		Business Communication II	CO1610	2016
		Banking Operations & Modern Banking	CO1611	2016
		Production and Operation Management	CO1614	2016
		Advanced Accounting II	CO1615	2016
		Organization Behaviour	CO1616	2016
		Marketing Management	CO1617	2016
		Auditing	CO1622	2016
		Income Tax Law and Practice	CO1623	2016
		Computerized Accounting – Lab	CO1671	2016
		Advertising and Sales Promotion	CO1626	2016
		Insurance and Risk Management	CO1627	2016
		Corporate Accounting	CO1629	2016
		Supply Chain Management	CO1630	2016
		Final Internship Project	CO16P1	2016
M.A. English – EG27	2013	Translation	EG27A1	2017
		Journalism and Mass Communication	EG2709	2017
		Soft Skills	EG2714	2017
		Teaching of English	EG2717	2017
M.Phil. English –EG24	2012	Teaching Methodology	EG2401	2017
		English Language Teaching	EG24A1	2017
B.E. Electronics and Instrumentation Engineering – EI22	2009	Electronic Devices & Circuits	EI1203	2013
		Transducer Engineering	EI1201	2013
		Circuit Theory	EI1202	2013
		Circuits and Devices Laboratory	EI1271	2013
		Control Theory	EI1207	2013
		Industrial Electronics	EI1206	2013
		Communication Engineering	EI1208	2013
		Transducer and Control System Laboratory	EI1273	2013
		Computer Networks & Distributed Control Systems	EI1213	2013
		Computer Control of Process	EI1214	2013
		Power Plant Instrumentation	EI12A6	2013
		Virtual Instrumentation	EI12B1	2013

		Virtual Instrumentation Laboratory	EI1277	2013
		Computer Control of Process Laboratory	EI1278	2013
		Basic Instrumentation Engineering	EI2201	2017
		Measurements & Instrumentation	EI1204	2013
		Digital Logic Circuits	EI1205	2013
		Measurements & Instrumentation Laboratory	EI1272	2013
		Process control	EI1211	2013
		Industrial Instrumentation	EI1212	2013
		Embedded Instrumentation System	EI12A1	2013
		Automotive Instrumentation and Control	EI12A5	2013
		Industrial Instrumentation Laboratory	EI1276	2013
		Process Control Laboratory	EI1275	2013
		Instrumentation System Design	EI12A3	2013
		Soft Computing Control Techniques	EI12A9	2013
		Fiber Optics & Laser Instrumentation	EI12A2	2013
M.E. Control and Instrumentation Engineering – EI25	2009	Dynamic Control System	EI2501	2017
		Control System Design	EI2503	2017
		Advanced Process Control	EI2504	2017
		Applied Bio-Medical Instrumentation	EI25A1	2017
		Process Control Laboratory	EI2571	2017
		Robotics and Automation	EI15A6	2013
		Piping and Instrumentation Design	EI15A5	2013
		Embedded Control System Design	EI15A8	2013
		Control & Instrumentation Laboratory	EI1573	2013
		Intelligent Control Techniques	EI2509	2017
		Industrial Instrumentation	EI2508	2017
		Industrial Data Communication	EI2505	2017
		Process Instrument Design	EI2507	2017
		Digital Control System	EI2506	2017
		Advanced Topics in Instrumentation Systems	EI25A3	2017
		Instrumentation System Design Laboratory	EI2572	2017
B.E. Aerospace Engineering – AS22	2009	Hypersonic Aerodynamics	AS22A4	2017
		Theory of Elasticity	AS22A6	2017
		Introduction to Optimization	AS22A7	2017
		Satellite Technology	AS22A8	2017
		UAV Design and Development	AS22A9	2017
		Machine Learning Techniques	AS22B1	2017
		Industrial Aerodynamics	AS22A1	2017
		Applied Orbital Mechanics	AS22A2	2017
		Finite Element Analysis	AS22A7	2017
M.Tech. Nanotechnology-NT25	2009	Lithography and MEMS	NT25B1	2017-18
		Nanotechnology Applications Laboratory	NT2575	2017-18
		Characterization Of Nanomaterials Laboratory	NT2573	2017-18
B.Tech. Nanotechnology-NT22	2012	Nanoelectronics and Nanophotonics	NT1217	2017-18
		Graphene based nanostructures	NT12B2	2017-18

B.E. Civil Engineering – CV22	2009	Structural Analysis-II	CV2213	2017
		Foundation Engineering	CV2215	2017
		Design Of Reinforced Concrete Elements	CV2216	2017
		Highway Engineering Lab	CV2281	2017
		Environmental Engineering	CV2217	2017
		Advanced Design Structure	CV2218	2017
		Remote sensing Techniques and Applications	CV22B5	2017
M.E. Structural Engineering –CV25	2009	Industrial Structures	CV25A5	2017
		Wind And Cyclone Effects On Structures	CV25B4	2017
		Town And Country Planning	CV25C5	2017
B.E. Automobile Engineering –AM22	2009	Basic Automobile Engineering	AM2201	2017
		Manufacturing Processes – I	ME 2202	2017
		Basic Automobile Engineering Laboratory	AM 2271	2017
		Manufacturing processes Laboratory - I	ME 2272	2017
		Applied Engineering Thermodynamics	AM1201	2013
		Automotive Petrol Engines	AM1203	2013
		Production Engineering	AM1204	2013
		Fluid and Solid Mechanics Laboratory	AM1271	2013
		Automotive Diesel Engines	AM1205	2013
		Automotive Materials and Metallurgy	AM1206	2013
		Theory of machines	AM1207	2013
		Engine and Fuel Testing Laboratory	AM1273	2013
		Automotive Electrical and Electronics System Laboratory	AM1275	2013
		Professional and Bussiness Ethics	MS1202	2013
		Vehicle Motor Engineering	AM1209	2013
		Design of Engine Components	AM1210	2013
		Manufacturing of Automotive Components	AM1211	2013
		Automotive Transmission Systems	AM1212	2013
		Automotive Ergonomics and Vehicle Body Engineering	AM1213	2013
		Automotive Engine Components Laboratory	AM1276	2013
		Automotive Emission and Control	AM1214	2013
		Design of Vechile Components	AM1216	2013
		Applied Finite Element Analysis	AM1217	2013
		Computer Aided Vehicle Components Design and Manufacturing Laboratory	AM1278	2013
		Industrial Training and Seminar	AM1280	2013
		Principles of Management	MS1203	2013
		Vehicle Maintenance	AM1218	2013
		Vehicle Dynamics	AM1219	2013
		Vehicle Maintenance Laboratory	AM1281	2013
		Mini Project	AM12P1	2013
		Entrepreneurship Development	AM1220	2013
		Alternate Fuels and Energy Systems	AM12A4	2013
		Modern Automobile Technologies	AM12A5	2013
		Automotive Safety	AM12A6	2013
		Automotive Air conditioning	AM12A8	2013

		Transport Management	AM12A7	2013
		Project Work	AM12P5	2013
M.E. Automobile Engineering	2009	Automotive Engines	AM2501	2017
		Automotive Chassis	AM2502	2017
		Automotive Transmissions	AM2503	2017
		Automotive Engine and Vehicle Components Laboratory	AM2571	2017
		Combustion Thermodynamics And Heat Transfer	AM2505	2017
		Vehicle Control Systems	AM2506	2017
		Engine and vehicle components design	AM2507	2017
		Vehicle Dynamics	AM2508	2017
		Automotive Pollution and Control	AM2509	2017
		Modeling and Simulation of Auto Components Laboratory	AM2572	2017
		Automotive Materials	AM15B2	2013
		Theory of Fuels and Lubricants	AM15A3	2013
		Automotive Component Manufacturing	AM15B1	2013
		Industry Internship Training	AM15P1	2013
		Project work – Phase I	AM15P2	2013
		Project Work – Phase II	AM15P5	2013
M.Sc. Mathematics – MA27	2014	Fuzzy Mathematics	MA2704	2017
		Operations Research	MA2712	2017
		Numerical Analysis	MA2707	2017
		Number Theory	MA27A8	2017
		Mathematical Statistics	MA2710	2017
B.E.Biomedical Engineering – BM22	2009	Artificial Organs	BM12B2	2013
		Assist Devices	BM1219	2013
		Bio-MEMS	BM12A4	2013
		Soft Computing Fundamentals	BM1218	2013
		Project Work Phase I	BM12P1	2013
		Maintenance and Repair Lab	BM1284	2013
		Advanced Virtual Instrumentation	BM1220	2013
		Virtual Instrumentation lab	BM1283	2013
		Diagnostic and Therapeutic Equipments	BM1214	2013
		Biomedical Instrumentation Lab	BM1279	2013
		Bio Control system	BM1213	2013
		Bio-Signal Processing	BM1211	2013
		Biomedical Instrumentation and Measurements	BM1210	2013
		Bio-Signal Processing Lab	BM1278	2013
		Digital Electronics and Processors	BM1212	2013
		Digital Electronics and Microprocessor Lab	BM1277	2013
		Bio Physics	BM1202	2013
		Biochemistry	BM1205	2013
		Human Anatomy and Physiology	BM1204	2013
		Semiconductor Devices & Circuits	BM1203	2013
		Bio Sensors and Transducers	BM1201	2013
		Biochemistry and Human Physiology Lab	BM1272	2013

		Semiconductor Devices & Circuits Lab	BM1271	2013
		Sensors and Transducers Lab	BM1273	2013
		Pattern Recognition	BM12A6	2013
		Telemedicine	BM12C3	2013
		Project Work Phase II	BM12P5	2013
		Ergonomics	BM12B7	2013
		Communication Engineering and Networking	BM1216	2013
		Medical Imaging Techniques	BM1217	2013
		Medical Image Processing	BM1215	2013
		Medical Imaging Equipments Lab	BM1281	2013
		Biomedical Engineering Lab	BM1282	2013
		Medical Image Processing Lab	BM1280	2013
		Integrated Circuits	BM1207	2013
		Basics of Electrical Engineering	BM1209	2013
		Pathology and Microbiology	BM1208	2013
		Bio Signals and Systems	BM1206	2013
		Pathology and Microbiology Lab	BM1275	2013
		Integrated Circuits Lab	BM1274	2013
		Electrical Engineering Lab	BM1276	2013
		Fundamentals of Biomedical Engineering	BM2201	2017

1.2 Academic Flexibility

1.2.1 New programmes/courses introduced during the Academic year

Programme/Course	Year introduction
B E First Semester Engineering Physics (BS2101) Engineering Chemistry (BS2102) Computing and Programming (CS2101) Computer Programming Laboratory (CS2171) Physics and Chemistry Laboratory (BS2171)	2017
B E Second Semester Technical English – II (EG2102) Engineering Mathematics – II (MA2102) Environmental Science (BS2103)	2017
Engineering Graphics (ME2201)	2017
Engineering Mechanics (ME2205)	2017
Aircraft General Engineering And Maintenance Practices (AC2201)	2017
Aircraft Component Drawing (AC2271)	2017
Airframe Repair And Maintenance Laboratory (AC2272)	2017
Aircraft Production Technology (AE2201)	2017
Production Process Lab (ME2291)	2017
Aero Modeling Lab (AE2271)	2017
Experimental Aerodynamics (AE2501)	2017

Aircraft Structural Mechanics (AE2502)	2017
Aerospace Propulsion (AE2503)	2017
Advanced Heat Transfer (AE2504)	2017
High Speed Aerodynamics (AE2508)	2017
Aero Elasticity (AE2509)	2017
Basic Aerospace Engineering (AS2201)	2017
Basic Aerospace Engineering Laboratory (AS2271)	2017
Manufacturing Processes Laboratory – I (ME2272)	2017
Physics for Electronics Engineering (PH2201)	2017
Fundamentals of Biomedical Engineering (BM2201)	2017
Fundamentals of Biomedical Engineering Laboratory(BM2271)	2017
Basic Civil Engineering(CV2201)	2017
Fundamentals of Surveying (CV2202)	2017
Survey Practical – I (CV2272)	2017
Fundamentals of Communication (CS2201)	2017
Electronic Devices (CS2202)	2017
Data Structures and Algorithms (CS2203)	2017
Electronic Devices Laboratory (CS2271)	2017
Data Structures Laboratory (CS2272)	2017
Multicore Architectures (CS2501)	2017
Advanced Data Structures & Algorithms(CS2502)	2017
Advanced Operating Systems (CS2503)	2017
Advanced Software Engineering (CS2504)	2017
Bio Informatics (CS25A2)	2017
Recent Trends in Computing(CS25A3)	2017
Embedded Systems(CS25A6)	2017
Advanced Data Structures &Algorithms Laboratory(CS2571)	2017
Compiler Optimization (CS2505)	2017
Advanced Database Management Systems (CS2506)	2017
Cloud Computing Techniques (CS2507)	2017
Networking Technologies (CS2508)	2017
Data Mining Techniques (CS25A7)	2017

Nano Computing (CS25A9)	2017
Information Retrieval Techniques (CS25B1)	2017
Service Oriented Architecture & Design(CS25B3)	2017
Cloud Computing Laboratory (CS2572)	2017
Electric Circuit Theory (EC2202)	2017
Object Oriented Programming(CS2206)	2017
Electron Devices and Circuit Theory Laboratory(EC2271)	2017
Object Oriented Programming Laboratory(CS2273)	2017
Advanced Modulation and Coding Techniques(EC2502)	2017
Wireless Communication Engineering (EC2505)	2017
Circuit Theory(EE2201)	2017
Electrical Workshop(EE2271)	2017
Basic Instrumentation Engineering (EI2201)	2017
Manufacturing Processes Laboratory – I(ME2272)	2017
Basic Instrumentation Engineering Laboratory(EI2271)	2017
Basics of Safety Engineering(FS2201)	2017
Object Oriented Programming using C++(IT2201)	2017
Object Oriented Programming using C++ Laboratory(IT2271)	2017
Electrical Technology Laboratory(EE2281)	2017
Geometric Modeling Laboratory – I(ME2271)	2017
Production and Operation Management(CM2506)	2017
Mechatronics(CM2507)	2017
Manufacturing System Simulation(CM2508)	2017
Robotics(CM2509)	2017
Introduction to Nano science and Technology(NT2201)	2017
Manufacturing Processes Laboratory- I (ME2272)	2017
General synthesis methods lab (NT2272)	2017
Quantum Mechanicsin Nanostructures(NT2501)	2017
Fundamentals of Nanoscience and Technology(NT2502)	2017
Synthesis of Nanomaterials(NT2503)	2017
Molecular Biology and Genetic Engineering(NT2504)	2017
Synthesis and Preparation of Nanomaterials Laboratory(NT2571)	2017

Instrumental methods of analysis (NT2505)	2017
Nanoelectronics and Sensors (NT2506)	2017
Thermodynamics of Nanostructures(NT2507)	2017
Advanced Engineering Materials(NT2508)	2017
Nanobiotechnologyand Nanomedicine (NT2509)	2017
Characterization Of Nanomaterials Laboratory(NT2573)	2017
Data Structures and Algorithm Analysis(CA2504)	2017
System Software(CA2505)	2017
Discrete Structures(MA2504)	2017
Fundamental of Computers(SE2802)	2017
PC Software(SE2803)	2017
PC Hardware Lab(SE 2872)	2017
C Programming (SE2806)	2017
Data Structures(SE2807)	2017

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	UG	PG	Date of implementation of CBCS/Elective Course System	UG	PG
Already adopted(mention the year)	2009	2009		2009	2009
1.3CurriculumEnrichment					
1.3.1Value-addedcourses imparting transferable and life skills offered during the year					
Value added courses	Date of introduction		Number of students enrolled		
French Language-Phase I	July 2017		389		
Career Skills I	July 2017		373		
Aptitude Skill Phase-I	July 2017		405		
Soft Skills-Phase-I	July 2017		32		
Soft Skills-Phase-III	July 2017		25		
Reasoning Skills phase I	July 2017		405		
Software skill phase I	July 2017		307		
Reasoning Skills phase III	July 2017		382		
French Language-Phase III	July 2017		315		
Presentation skills I	July 2017		314		
Auto desk CFD	2017		30		
High Voltage Safety & Switch Gear Course	2017		7		
CatiaV5	Aug2017		30		
Aptitude skill phase II	January201		441		
Aptitude skill phase IV	January201		382		
Reasoning Skills phase II	January201		441		
Software skill phase II	January201		351		
Soft Skills Phase – II	January201		14		
Soft Skills Phase – IV	January201		10		
Career Skills II	January201		424		

Presentation skills II	January201	372		
French language Phase II	January201	375		
French language Phase IV	January2018	283		
1.3.2FieldProjects/Internships undertaken during the year				
Project/Programme Title		No. of students enrolled for Field Projects/Internships		
B.E. Aeronautical Engineering		19		
B.E Automobile Engineering		14		
B.E. Biomedical Engineering		38		
B.E. Computer Science and Engineering		30		
B.Tech Fire technology & Safety Engineering		29		
Master of Business Administration		44		
B.E Mechanical Engineering		1		
M.Sc Software Engineering		18		
M.Tech Nano technology		1		
Master of Computer Applications		31		
1.4FeedbackSystem				
1.4.1Whetherstructuredfeedbackreceivedfromallthestakeholders.				
1)Students	2)Teachers	3)Employers	4)Alumni	5)Parents
Yes	Yes	Yes	Yes	Yes
1.4.2How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum500words)				
Feedback is a key tool that triggers continuous improvement in the quality of the Institution. Feedback formats are designed for the stakeholders. The institution collects feedback on curriculum aspects and courses from different stakeholders such as the students, alumni, Faculty, Employers and parents. The feedback is obtained by distributing structured questionnaires considering various aspects. Feedback is taken from the alumni for suggestions or improvements in the curriculum and syllabi. Alumni feedback analysis revealed that the curriculum and syllabi are designed to enable the students to find better jobs easily in this present competitive scenario. The students are the building blocks of an institution. To understand their concern about the curriculum and syllabi, feedback was conducted for students. The analysis of the student's feedback revealed that the present curriculum and syllabi are designed according to their needs. The faculty is the most important person in the design, implementation, and development of the curriculum. The feedback from the teachers on curriculum is to update and consider the needs and requirements for the employability of students, higher studies, or entrepreneurship. The areas that required changes are suggested so as to meet the required standards. In this regard, detailed feedback has been requested from the faculties of the departments dealing with various courses and the report has been consolidated. The inclusion of Experts from Industries and other Academic bodies helps in the form of course development and its orientation. Feedback from the stakeholders would help in enriching the curriculum and bringing new changes in the syllabus and the environment. This feedback is discussed in the meeting. From these feedbacks we can make out whether the proper teaching-learning process is in place. Also, this process enables the institute to improve in the areas where ever necessary. Thus the feedback given by the stakeholders was analyzed and suitable action was taken to satisfy the expectations of both students, parents, alumni and employers. This further helped us to improvise our curriculum as per the expectations of the stakeholders.				

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 Aircraft Maintanance	30		9
BE Aeronautical Engineering	60	1	17
BE Aerospace Engineering	50	1	9
BE Automobile Engineering	60	31	29
B.E Biomedical Engineering	60	55	53
BE Civil Engineering	60	56	54
B.E-Computer Science and Engineering	60	29	27
BE Electrical and Electronics Engineering	60	9	7
BE Electronics and Communication Engineering	60	9	7
BE Electronics and Instrumentation Engineering	60	11	9
BE Marine Engineering	60	17	15
B.E.Mechanical Engineering	180	108	106
B.Tech Fire Technology and Safety Engineering	60	18	16
B.Tech Information Technology	60	44	42
B.Tech Nano technology	60	5	3
BBA (Bachelor of Business Administration)	30	42	40
B. Com (Bachelor of Commerce)	30	15	1
M.E Aeronautical Engineering	18	3	1
M.E Communication Systems	18	5	3
M.E Computer Integrated Manufacturing	18	7	5
M.E Computer Science and Engineering	25	5	3
M.E Control and Instrumentation Engineering	18	6	4
M.E. Cyber Security	18	6	4
M.E. Software Engineering	18	1	1
ME Structural Engineering	18	12	10
M.E.Thermal Engineering	18	5	3
M.Tech. Nanotechnology	18	5	3
MCA - Master of Computer Applications	60	26	24
MBA - Master of Business Administration	60	55	53
M. Sc Software Engineering - Integrated Course	30	12	10
M.A. English	25	19	17
M.Sc. Physics	25	12	10
M.Sc. Chemistry	25	13	11
M.Sc. Mathematics	25	6	4
M.Sc. Human Genetics and Molecular Biology	20	6	4
M.Phil Physics	32	7	5
M.Phil. Chemistry	32	5	3
M.Phil. Mathematics	32	10	8
M.Phil. English	32	14	12
M.Phil. Business Administration	32	10	8
M.Phil. Computer Science	32	23	21

M.Phil. Biotechnology	32	6	4
M.Phil. Human Genetics and Molecular Biology	30	3	1
B.Sc. Perfusion Technology	50	47	45
B.Sc. Cardiac care Technology	50	46	44
B.Sc. Renal Dialysis Technology	50	50	28
B.Sc. Forensic science	30	25	23
B.Sc. Human genetics and Molecular Biology	30	25	23

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
2017 - 2018	1999	366 + 650	90	39	163

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
292	182	Smart Class room with projector, Laptop, Wi-Fi Facility, Audio Amplifier system, CD's	20	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)

A mentor can always do more for the benefit of the students. The mentor is entitled with the following responsibilities. Meet the group of students at least twice a month. Continuously monitor, counsel, guide and motivate the students in all academic matters. Advise students regarding choice of electives, project etc. Contact parents/guardians regarding academic irregularities, negative behavioral changes and interpersonal relations, detrimental activities etc. Advise students in their career development. Intimate HOD and suggest if any administrative action is called for. Maintain a detail progressive record of the student. Maintain a brief but clear record of all discussions with students.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor: Mentee Ratio
3015	292	1:11

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
nil	37	-	-	11

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		
2017	Dr.R.C.Mehta	Dean, Aeronautical and Space Technology	Associate Editor, Scholars Journal of Engineering and Technology		
2018	Dr.R.C.Mehta	Dean, Aeronautical and Space Technology	Regular Member, Scholars Academic & Scientific Society		
2018	Dr. R .BINTHIYA	AP	OUSTANDING ACHIEVERS AWARD 2018		
2017-2018	Dr.M.Dev Anand	Professor & Director (Research)	Outstanding reviewer - Materials Science & Engineering A Achieved: November 2017		
2017-2018	Dr.M.Dev Anand	Professor & Director (Research)	Recognized reviewer - Materials Science & Engineering A Achieved: November 2017		
2017-2018	Dr.M.Joselin Herbert	Professor	Reviewer award from Elsevier publication A Achieved: November 2017		
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 Engineering		AE22	All Semesters	30-04-2018	13-06-2018
B.E Aerospace Engineering		AS22	All Semesters	30-04-2018	13-06-2018

B.E Aircraft Maintenance Engineering	AC22	All Semesters	30-04-2018	13-06-2018
B.E Automobile Engineering	AM22	All Semesters	30-04-2018	13-06-2018
B.E Bio-Medical Engineering	BM22	All Semesters	30-04-2018	13-06-2018
B.E Civil Engineering	CV22	All Semesters	30-04-2018	13-06-2018
B.E Computer Science and Engineering	CS22	All Semesters	30-04-2018	13-06-2018
B.E Electrical and Electronics Engineering	EE22	All Semesters	30-04-2018	13-06-2018
B.E Electronics and Communication Engineering	EC22	All Semesters	30-04-2018	13-06-2018
B.E Electronics and Instrumentation Engineering	EI22	All Semesters	30-04-2018	13-06-2018

B.E Marine Engineering	MR22	All Semesters	30-04-2018	13-06-2018
B.E Mechanical Engineering	ME22	All Semesters	30-04-2018	13-06-2018
B.Tech Fire Technology and Safety	FT22	All Semesters	30-04-2018	13-06-2018
B.Tech Information Technology	IF22	All Semesters	30-04-2018	13-06-2018
B.Tech Nanotechnology	NT22	All Semesters	30-04-2018	13-06-2018
BBA (Bachelor of Business Administration)	MS26	All Semesters	01-06-2018	30-07-2018
B.Com. (Bachelor of Commerce)	CO16	All Semesters	01-06-2018	30-07-2018
M.E Aeronautical Engineering	AE25	All Semesters	02-06-2018	03-07-2018
M.E Applied Electronics	EE25	All Semesters	02-06-2018	03-07-2018
M.E Communication Systems	EC25	All Semesters	02-06-2018	03-07-2018
M.E Computer Integrated Manufacturing	CM25	All Semesters	02-06-2018	03-07-2018
M.E Computer Science and Engineering	CS25	All Semesters	02-06-2018	03-07-2018
M.E Control and Instrumentation Engineering	EI25	All Semesters	02-06-2018	03-07-2018
M.E Cyber Security	CY25	All Semesters	02-06-2018	03-07-2018
M.E Software Engineering	SE25	All Semesters	02-06-2018	03-07-2018
M.E Structural Engineering	CV25	All Semesters	02-06-2018	03-07-2018
M.E Thermal Engineering	TE25	All Semesters	02-06-2018	03-07-2018
M.E. Automobile Engineering	AM25	All Semesters	02-06-2018	03-07-2018
M.Tech. Nanotechnology	NT25	All Semesters	02-06-2018	03-07-2018
M.E. Biomedical Instrumentation	BM25	All Semesters	02-06-2018	03-07-2018
MCA - Master of Computer Applications	CA25	All Semesters	01-06-2018	30-07-2018
MBA - Master of Business Administration	MS25	All Semesters	01-06-2018	30-07-2018
M.Sc. Software Engineering - Integrated Course	SE28	All Semesters	02-06-2018	30-07-2018
MBA (HRM) - Masters in Business Administration (HRM)	-	-	-	-
M.A. English	EG27	All Semesters	02-06-2018	30-07-2018
M.Sc. Physics	PH27	All Semesters	01-06-2018	30-07-2018
M.Sc. Chemistry	CH27	All Semesters	01-06-2018	30-07-2018
M.Sc. Mathematics	MA27	All Semesters	01-06-2018	30-07-2018
M.Sc. Human Genetics and Molecular Biology	BM24	All Semesters	01-06-2018	30-07-2018
M.Phil. Physics	PH24	All Semesters	07-06-2018	30-07-2018
M.Phil. Chemistry	CH24	All Semesters	07-06-2018	30-07-2018
M.Phil. Mathematics	MA24	All Semesters	07-06-2018	30-07-2018
M.Phil. English	EG24	All Semesters	07-06-2018	30-07-2018
M.Phil. Business Administration	-	-	-	-
M.Phil. Computer Science	SE24	All Semesters	07-06-2018	30-07-2018
M.Phil. Biotechnology	BT24	All Semesters	07-06-2018	30-07-2018
M.Phil. Human Genetics and	BM24	All Semesters	07-06-2018	30-07-2018

Molecular Biology				
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	
NA	-		-	
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)				
NA				

2.6.2 Pass percentage of students				
Programme Code	Programme name	Number of students appeared in the final year examination	Number of students passed in final Semester /year examination	Pass Percentage
AE22	B.E Aeronautical Engineering	15	10	66.67
AS22	B.E Aerospace Engineering	14	10	71.4%
AM22	B.E Automobile Engineering	18	13	72.22
BM22	B.E Bio-Medical Engineering	36	33	91.67
CV22	B.E Civil Engineering	71	60	84.50
CS22	B.E Computer Science and Engineering	31	25	80.64
EE22	B.E Electrical and Electronics Engineering	14	10	71.42%
EC22	B.E Electronics and Communication Engineering	15	13	86.6
EE12	BE Electronics and Instrumentation Engineering	22	11	50
MR22	B.E Marine Engineering	11	11	100
ME22	B.E Mechanical Engineering	159	124	78
FT22	B.Tech Fire Technology and Safety	18	12	66.6
IF22	B.Tech Information Technology	8	6	75
NT22	B.Tech Nanotechnology	04	03	75
MS26	BBA (Bachelor of Business Administration)	17	06	35.29%
CO16	B. Com (Bachelor of Commerce)			
AE25	M.E Aeronautical Engineering			
EE25	M.E Applied Electronics	3	3	100
EC25	M.E Communication Systems			
CM25	M.E Computer Integrated Manufacturing	1	1	100
CS25	M.E Computer Science and Engineering	10	10	100
EI25	M.E Control and Instrumentation Engineering	5	5	100
CY25	M.E. Cyber Security	-	-	-
SE25	M.E. Software Engineering	-	-	-
CV25	ME Structural Engineering			
TE25	M.E Thermal Engineering	1	1	100
AM25	M.E. Automobile Engineering			
NT25	M.Tech. Nanotechnology			
BM25	M.E. Biomedical Instrumentation			
CA25	MCA - Master of Computer Applications	31	29	93.5
MS25	MBA - Master of Business Administration	46	32	86
SE28	M.Sc. Software Engineering – Integrated Course	19	19	100
	MBA (HRM) - Masters in Business Administration (HRM)			
EG27	M.A. English	08	07	88
PH27	M.Sc. Physics	10	10	100
CH27	M.Sc. Chemistry	16	12	75%
MA27	M.Sc. Mathematics			
BM27	M.Sc. Human Genetics and Molecular Biology	4	4	100
PH24	M.Phil. Physics	05	05	100
CH24	M.Phil. Chemistry	3	3	100
	M.Phil. Mathematics			
EG24	M.Phil. English	12	01	91%
	M.Phil. Business Administration			
SE24	M.Phil. Computer Science	20	13	65
BT24	M.Phil. Biotechnology			
BM24	M.Phil. Human Genetics and Molecular Biology	1	NIL	0
PT26	B.Sc. Perfusion Technology			

CT26	B.Sc. Cardiac care Technology			
	B.Sc. Renal Dialysis Technology			
FS26	B.Sc. Forensic science			
	B.Sc. Audiology and Speech Language			
BM26	B.Sc. Human genetics and Molecular Biology			
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)				

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. Mansoor Ani Najeeb N Associate Professor Dept. of BME	Post-Doctoral Fellowship	2018	Haverford College (United States of America).
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
Ms. N. Shanila		3 Years		DST
Mr. Sameer A P		2 Years		Directorate of Collegiate Education, Trivandrum

3.2 Resource Mobilization for Research				
3.2.1 Research funds sanctioned and received from various agencies, industry and other organizations				
Nature of the Project	Duration	Name of the funding Agency	Total grant sanctioned	Amount received during the
Major projects	3 Years	DST-Govt. of India	23 Lakhs	4,00,000
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	-	-		4,00,000

3.3 Innovation Ecosystem		
3.3.1 Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative		
Title of Workshop/Seminar	Name of the Dept.	Date(s)
Workshop on MIG Welding Training Programme	Aeronautical	13-09-2017
Webinar on RTL & Design and Functional Verification	Aeronautical	18-09-2017
Embedded system programming with ARDUINO UNO	ECE	11-10-2017
Guest Lecture on Arduino board project	ECE	04-11-2017
Research Methodology	R & D	11-12-2017 to 20-12-2017
Workshop on LaTeX	Mathematics	20-12-2017 &
Workshop on Research Methodology	R & D	08-03-2018 - 09-03-2018
Seminar on recent technological trends in embedded	ECE	23-03-2018 & 24-03-2018
Seminar on Sharing Piloting experience at USA	Aeronautical	09-04-2018
Workshop on MATLAB with image processing	ECE	24-04-2018 &
Seminar on NDT Techniques	IT	10-05-2018
Workshop on Robotics	CSE	24-05-2018
3.3.2 Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year		

Title of the innovation	Name of the Award	Awarding Agency	Date of Award	Category
Summer Research Fellowship	Ms. Sharin Maria Thomas	Indian Academy of Sciences, Bangalore	2018	Student
Board of Examiner for Adjudicating Ph.D thesis-Ms.R. Swapna Kumari	Dr. K. A. Janardhanan	Bharathiyar University	2018	Teacher
Board of Examiner for Adjudicating Ph.D thesis-Mr. G. Gunaseelan	Dr. K. A. Janardhanan	Bharathiyar University	2018	Teacher
Board of Examiner for Adjudicating Ph.D thesis	Dr. R. Mathusoothana S Kumar	Bharathiyar University	2018	Teacher
External DC Committee member	Dr. J. E. Judith	Anna University, Chennai, Infant Jesus College of Engineering, Tuticorin.	2018	Teacher
Doctoral Committee Member-Ms.Lincy	Dr.S.Maria Celestin Vigila	Centre for Research, Anna	2018	Teacher
Doctoral Committee Member-Ms.	Dr.S.Palanikumar	Centre for Research, Anna	2018	Teacher
Doctoral Committee Member-Niraja P	Dr. S. Maria Celestin	Manonmaniam Sundaranar	2018	Teacher
Doctoral Committee Member-Mr. Edwin	Dr.N. Santhi	Centre for Research, Anna	2018	Teacher
Doctoral Committee Member-Jerusha D	Dr. S. Maria Celestin	Centre for Research, Anna	2018	Teacher
Doctoral Committee Member-Lyemisha	Dr. S. Maria Celestin	Centre for Research, Anna	2018	Teacher
Doctoral Committee Member-	Dr.S.Palanikumar	Manonmaniam Sundaranar	2018	Teacher
Doctoral Committee Member-Mr. Aswin	Dr.N. Santhi	Centre for Research, Anna	2018	Teacher
Doctoral Committee Member-Mr. D R	Dr.N. Santhi	Centre for Research, Anna	2018	Teacher
Doctoral Committee Member	Dr.N. Santhi	Centre for Research, Anna	2018	Teacher
Doctoral Committee Member-	Dr. R. Mathusoothana S.	Centre for Research, Anna	2018	Teacher
External DC Committee member-Ms.	Dr. J. E. Judith	Anna University, Chennai., St.	2018	Teacher
Best Young Faculty	Dr. R. Ganapathi Raman	DK International research	2018	Teacher
Invited Talk	Dr. J. Joseph	ICMS 2017	2017	Teacher
Reviewer in journals	Dr.J.Joseph	International Journal of	2018	Teacher
Reviewer in journals	Dr.J.Joseph	Inorganic Chimica Acta	2018	Teacher
Power and energy Track -Best paper	G.M.Joselin Herbert	Humanitarian Conference	Feb-18	Teacher
PLOS ONE reviewer	G.M.Joselin Herbert	PLOS, California	Sep-18	Teacher
Reviewer in journal	Dr.J.Joseph	Journal of Molecular Structure	2018	Teacher
Reviewer in journal	Dr.J.Joseph	Inorganic Chimica Acta	2018	Teacher
Reviewer in journal	Dr.J.Joseph	Applied Surface Science	2018	Teacher
*Certificate of Outstanding Contribution	Dr.R.C.Mehta	Editors of Aerospace science	2018	Teacher
Solar Energy	G.M.Joselin Herbert	Elsevier	Jan-18	Teacher
Outstanding Reviewer in Journal of	Dr. S. Balamurugan	The Editor, Elsevier,	2018	Teacher
Outstanding Reviewer in Advanced	Dr. S. Balamurugan	The Editor, Elsevier,	2018	Teacher
Outstanding Reviewer in Materials	Dr. S. Balamurugan	The Editor, Elsevier,	2018	Teacher
Outstanding Reviewer in Journal of	Dr. S. Balamurugan	The Editor, Elsevier,	2018	Teacher
Journal Reviewer	Dr.S.Palanikumar	Signal, image and Video	2018	Teacher
Journal Reviewer	Dr.S.Palanikumar	Signal, image and Video	2018	Teacher
Journal Reviewer	Dr.S.Palanikumar	Signal, image and Video	2018	Teacher
Journal Reviewer	Dr.S.Palanikumar	International Conference on	2018	Teacher
Reviewer	G.M.Joselin Herbert	Applied Thermal Engineering -	2017	Teacher
Reviewer	Dr. S. S. Kumar	Biomedical Signal Processing	2017	Teacher
Journal Reviewer	Dr.R.Mathusoothana.S.K	Electronics Letters [ISSN:	2018	Teacher
Editorial Board Member	Dr. R. Jinu	LITTCRIT	2018	Teacher
Technical Reviewer	Dr. S. Vinila Jinny	IEEE International conference	2018	Teacher
Technical Reviewer	Dr. J.E.Judith	IEEE International conference	2018	Teacher
Reviewer	Dr. S. Maria Celestin	Wireless personal	2018	Teacher
Doctoral Committee member	Dr. S. Vinila Jinny	Anna University	2017	Teacher

3.3.3 No. of Incubation center created, start-ups incubated on campus during the year		
Incubation Centre	Name	Sponsored by
Name of the Start-up	Nature of Start-up	Date of

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	1
Electrical and Electronics Engineering	2
Mechanical Engineering	8
Aeronautical Engineering	2
Computer Science and Engineering	6
Civil Engineering	2
Computer Applications	3
Management studies	15
Electronics and Instrumentation Engineering	3
Maths	1
Physics	3
Nano Technology	1
Chemistry	2
IT	1
English	2
Bio-Medical Engineering	1

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

	Department	No. of	Average Impact
	Electronics and Communication Engineering	15	0.8
	Electrical and Electronics Engineering	12	0.6
	Mechanical Engineering	04	0.6
	Aeronautical Engineering	10	1
	Marine Engineering	2	0.5
	Computer Science and Engineering	30	1
	English	20	0.6
	Civil Engineering	11	0.5
	Nanotechnology	22	3.5
	Information Technology	10	1

Mathematics	3	0.6
Chemistry	6	2.25
Fire Technology and Safety	7	0.5
Computer Applications	12	0.8
Management studies	14	1.0
Allied Health Sciences	0	0
Electronics and Instrumentation Engineering	13	0.728
Physics	20	1.5
Biomedical Sciences and Technology	4	0

3.4.3 Books and Chapters in edited Volumes / Books published, and papers in National/International Conference

Department	No. of publication
Aeronautical Engineering	2
Computer Science and Engineering	7
B. Tech Information Technology	8
Computer Applications	1
Mechanical Engineering	1
Nanotechnology	1
Physics	1

3.4.4 Patents published/awarded during the year

Patent Details	Patent status Published/Filed	Patent Number	Date of Award
M. S. Faizal Khan, Pro Chancellor, NICHE NIUSAT; A Nano Satellite	Published	E-2/3329/2017CHE	
Dr. R. C. Mehta, Department of Aeronautical Engineering, NICHE Image Processing Algorithm for Fringe Analysis in Photoelasticity	Published	E-2/3332/2017CHE	
Dr. M. Dev Anand, Professor, Department of Mechanical Engineering, NICHE Drill Jig for Spherical Objects	Published	E-2/3327/2017CHE	

Dr. M. Dev Anand, Professor, Application of an Integrated RE/RP/CAD/CAM/ System for	Published	E-2/3328/2017CHE	
Mr. Rohith I. J., Assistant Professor, Department of Aeronautical Engineering, NICHE Aircraft Winglet Modification to Reduce Vertical Stabilizer Length	Published	E-2/3330/2017CHE	
Mr. Rohith I. J., Assistant Professor, Department of Aeronautical Engineering, NICHE Drag Reduction in Aircraft Wing by Inducing Surface Roughness	Published	E-2/3331/2017CHE	
Dr. A. Shajin Nargunam, Professor, CSE, NICHE Satellite Based Wireless Sensor Networks for Environmental Monitoring Applications	Published	5612/CHE/2015	
Dr. A. Shajin Nargunam, Professor, CSE, NICHE Cloud Based Hybrid Processor Pool Architecture for Sustaining Green Computing	Published	5613/CHE/2015	
Dr. A. Shajin Nargunam, Professor, CSE, NICHE Mobile Assisted Automated Disaster Support System	Published	5780/CHE/2015	
Dr. Shajin Nargunam, Professor, Department of CSE, NICHE	Published	5779/CHE/2015	

Trusted Computing Based Security Architecture for Mobile Cloud Computing			
Dr. M. Dev Anand, Professor, Department of Mechanical Engineering, NICHE Abrasive, Magnetic Field and Ultrasonic Vibration Assisted Micro - AMP for Electro Chemical Machining	Published	5610/CHE/2015	
Dr. M. Dev Anand, Professor, Department of Mechanical Engineering, NICHE Development Radiotherapy Gadget – Beam Direction	Published	5608/CHE/2015	
Dr. M. Dev Anand, Professor, Department of Mechanical Engineering, NICHE Innovative Gasifier Design	Published	5606/CHE/2015	
Dr. M. Dev Anand, Professor, Department of Mechanical Engineering, Modular Reconfiguration Safety Robot	Published	5599/CHE/2015	
Dr. M. Dev Anand, Professor, Department of Mechanical Engineering, NICHE Development Radiotherapy Gadget – Contour Plotter	Published	5591/CHE/2015	
Dr. M. Dev Anand, Professor, Department of Mechanical Engineering,	Published	5593/CHE/2015	

NICHE Hybrid Wind Solar Domestic Power Supply System			
Dr. M. Dev Anand, Professor, Department of Mechanical Engineering, NICHE Development Radiotherapy Gadget- Styrofoam Cutter	Published	5607/CHE/2015	
Dr. K. A. Janardhanan, Professor, Department of Management Studies, NICHE A Model of Duel Investors Decision Making and Its Impact on Stock Indices Movement.	Filed	E-2/3325/2017- CHE	
Dr. K. A. Janardhanan, Professor, Department of Management Studies, NICHE Investors Behaviour and Perceptions Towards Stock Market: Structural Equation Modeling Approach	Filed	E-2/3326/2017- CHE	

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

Authors	Title	Year	Source title	Citation index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citations
Rajan J G., Ganesh R.S.	Review of Recent Strategies in Cryptography-Steganography Based Security Techniques	2018	2018 International Conference on Circuits and Systems in Digital Enterprise Technology, ICCSDET 2018	5	Noorul Islam Centre for Higher Education	5

Ramanan G., Aaron Raphael Raja F., Samuel K., Diwan V.	Fault recognition and isolation scheme for spacecraft propulsion system	2018	Proceedings of the International Conference on Smart Systems and Inventive Technology, ICSSIT 2018	6	Noorul Islam Centre for Higher Education	6
Subash, Jones Retnam B.S., Raja Dhas J.E.	Development and characterization of silk/bamboo/glass nano polymer composites	2018	International Journal of Mechanical and Production Engineering Research and Development	0	Noorul Islam Centre for Higher Education	0
Pradeep P., Dhas J.E.R.	Effect of alkali treatment and nano filler addition on properties of palm/glass fiber reinforced polymer composite	2018	Indian Journal of Engineering and Materials Sciences	2	Noorul Islam Centre for Higher Education	2
John K., Vinod Kumar R.S., Kumar S.S.	Performance Comparison of Explicit Pulsed Flip-Flops in Low Power and High-Speed Applications	2018	2018 International Conference on Circuits and Systems in Digital Enterprise Technology, ICCSDet 2018	3	Noorul Islam Centre for Higher Education	3
Sajitha A.V., Subhajini A.C.	Enbase: Energy-conscious sla-oriented dynamic vm consolidation heuristics in green data centres using ant colony system	2018	International Journal of Engineering and Advanced Technology	4	Noorul Islam Centre for Higher Education	4
Joseph J., Jeba J.R.	Noise reduction using character density approach	2018	International Journal of Engineering and Advanced Technology	1	Noorul Islam Centre for Higher Education	1
A.v S., Subhajini A.C.	Network-conscious vm placement for energy efficiency in green data centres through dynamic vm consolidation	2018	International Journal of Engineering and Advanced Technology	0	Noorul Islam Centre for Higher Education	0
Sasikala T.S., Sankar K.S.	Unimodal biometric based security application by exploiting retina	2018	International Journal of Engineering and Advanced Technology	4	Noorul Islam Centre for Higher Education	4
Alan Gowri Phivin	Reliable cbir system for fabric	2018	International	0	Noorul	0

V., Subhajini A.C.	images based on nsct and ldp features		Journal of Engineering and Advanced Technology		Islam Centre for Higher Education	
Sivamalar C., Nalanth N., Shijumon V., Shalini J.	Use of recycled brick aggregates in self compacting concrete	2018	International Journal of Civil Engineering and Technology	2	Noorul Islam Centre for Higher Education	2
Mathews A.B., Jeyakumar M.K.	Performance analysis of machine learning based classifiers for the diagnosis of lung cancer & comparison	2018	Indian Journal of Public Health Research and Development	2	Noorul Islam Centre for Higher Education	2
Rajesh Prabha N., Ramanan G., Neela Rajan R.R., Ponsuthir Sajan S.	Wear characteristics of titanium carbides and MOS 2 reinforced aluminium hybrid composites	2018	International Journal of Mechanical and Production Engineering Research and Development	4	Noorul Islam Centre for Higher Education	4
Centhil Kumar C., Raglend I.J.	A novel crow search based strategy for maximum power point tracking of wind turbines driven by doubly fed induction generator	2018	International Journal of Simulation: Systems, Science and Technology	8	Noorul Islam Centre for Higher Education	8
Jayamohan S., Nagarajan S., Kadarkaraiyandi R.	A novel adaptive marginalized particle filter for mixed linear / nonlinear state-space models	2018	International Journal of Simulation: Systems, Science and Technology	1	Noorul Islam Centre for Higher Education	1
Aslam Y., Santhi N., Ramasamy N., Ramar K.	An effective surface defect detection method using adaptive thresholding fused with PSO algorithm	2018	International Journal of Simulation: Systems, Science and Technology	5	Noorul Islam Centre for Higher Education	5
Dalmiya C.P., Santhi N., Sathyabama B.	Semi-supervised change detection method using phase congruency and local binary pattern (PC-LBP)	2018	International Journal of Simulation: Systems, Science and Technology	1	Noorul Islam Centre for Higher Education	1
Shalini J., Ravikumar M.S., Nalanth N., Kannan S.U.	Effective utilization of plastic waste material in the production of environmental friendly concrete	2018	International Journal of Civil Engineering and Technology	3	Noorul Islam Centre for Higher Education	3
Rema R., Nalanth	Review on the current	2018	International	1	Noorul	1

N., Vincent P., Janardhanan K.A.	construction and demolition waste management framework		Journal of Civil Engineering and Technology		Islam Centre for Higher Education	
Thomas R., Sucharitha M.	A robust image watermarking system based on EDWT and SVD	2018	ARPJ Journal of Engineering and Applied Sciences	2	Noorul Islam Centre for Higher Education	2
Venifa Mini G., Angel Viji K.S.	Emerging Access Control Techniques in Cloud Computing: A Survey	2018	Proceedings of the 2nd International Conference on Trends in Electronics and Informatics, ICOEI 2018	4	Noorul Islam Centre for Higher Education	4
Padhmakumar P.K., Flower Queen M.P., Babu Aurtherson P.	Three dimensional space vector modulation for three phase four leg inverters - A review	2018	2018 International Conference on Emerging Trends and Innovations In Engineering And Technological Research, ICETIETR 2018	1	Noorul Islam Centre for Higher Education	1
Athira Lekshmi B.A., Flower Queen M.P., Arul Linsely J., Babu Aurtherson P.	Feature extraction and image classification using particle swarm optimization by evolving rotationinvariant image descriptors	2018	2018 International Conference on Emerging Trends and Innovations In Engineering And Technological Research, ICETIETR 2018	1	Noorul Islam Centre for Higher Education	1
Austine A., Pramila R.S.	A Review on Recent Research Directions in Device to Device Communication	2018	Proceedings of the 3rd International Conference on Inventive Computation Technologies, ICICT 2018	0	Noorul Islam Centre for Higher Education	0
Daniel N., Anitha A.	A Study on Recent Trends in Face Spoofing Detection Techniques	2018	Proceedings of the 3rd International Conference on Inventive Computation Technologies, ICICT 2018	4	Noorul Islam Centre for Higher Education	4
Darsan R.S., Jones	Mechanical and water	2018	International	1	Noorul	1

Retnam B.S., Sivapragash M.	absorption of injection moulded pineapple leaf fiber reinforced polylactic acid composites		Journal of Mechanical Engineering and Technology		Islam Centre for Higher Education	
Ramachandran S.	Sufficient conditions for the n-regularity of all digraphs	2018	Utilitas Mathematica	6	Noorul Islam Centre for Higher Education	6
Mathews A.B., Jeyakumar M.K.	An efficient mode detection technique of pulmonary nodule in lung cancer	2018	International Journal of Pharmaceutical Research	2	Noorul Islam Centre for Higher Education	2
Sunil J., Kumar M.S.R.	Effect of supplementary cementitious materials on the strength of concrete and hollow concrete blocks	2018	International Journal of Civil Engineering and Technology	8	Noorul Islam Centre for Higher Education	8
Gayathri A.R., Mary Synthia Regis Prabha D.M.	Cuttlefish optimization control of solar PV array fed load converter	2018	International Journal of Pharmaceutical Research	1	Noorul Islam Centre for Higher Education	1
Jayamohan S., Nagarajan S., Kadarkaraiyandi R.	Measurement noise analysis of marginalized particle filter for target tracking applications	2018	International Journal of Simulation: Systems, Science and Technology	2	Noorul Islam Centre for Higher Education	2
Vijayakumar S., Morvin Yabesh J.E., Arulmozhi P., Praseetha P.K.	Identification and isolation of antimicrobial compounds from the flower extract of Hibiscus rosa-sinensis L: In silico and in vitro approaches	2018	Microbial Pathogenesis	5	Noorul Islam Centre for Higher Education	5
Skariya P.D., Satheesh M., Dhas J.E.R.	Optimizing parameters of TIG welding process using grey wolf optimization concerning 15CDV6 steel	2018	Evolutionary Intelligence	0	Noorul Islam Centre for Higher Education	0
Suneesh E., Sivapragash M.	Comprehensive studies on processing and characterization of hybrid magnesium composites	2018	Materials and Manufacturing Processes	12	Noorul Islam Centre for Higher Education	12
Shameer A.P., Subhajini A.C.	Throughput Maximization on Efficient Load Balancing in Cloud Task Scheduling Using	2018	International Conference on Current Trends in	2	Noorul Islam Centre for	2

	Enhanced Bee Colony Algorithm		Computer, Electrical, Electronics and Communication, CTCEEC 2017		Higher Education	
Ramachandran S.	Neighborhood degrees associated reconstruction of digraphs for Ulam's conjecture	2018	Utilitas Mathematica	3	Noorul Islam Centre for Higher Education	3
Arun M.P., Satheesh M., Edwin Raja Dhas J.	Fluid-structure interaction of cropped delta wing with experimental validation	2018	International Journal of Mechanical and Production Engineering Research and Development	1	Noorul Islam Centre for Higher Education	1
Skariya P.D., Satheesh M., Dhas E.R., Suneesh E.	Experimental investigation of pftig welding process on 15CDV6 steel using nanopowders	2018	International Journal of Mechanical and Production Engineering Research and Development	2	Noorul Islam Centre for Higher Education	2
Shalini J., Ravikumar M.S., Nalanth N., Janardhanan K.A.	Behavior of plastic aggregates in ecofriendly concrete	2018	International Journal of Civil Engineering and Technology	4	Noorul Islam Centre for Higher Education	4
Ibrahim S., Mehta R.C.	Design and analysis of air flow depression for air-conditioning in small passenger cabin using solid works	2018	International Journal of Mechanical and Production Engineering Research and Development	6	Noorul Islam Centre for Higher Education	6
Aniber Benin M., Stanly Jones Retnam B., Edwin Sahayaraj M.	Mechanical behaviour of processed PP/PVC laminates	2018	International Journal of Mechanical Engineering and Technology	0	Noorul Islam Centre for Higher Education	0
Tom G., Philip S., Isaac R., Praseetha P.K., Jiji S.G., Asha V.V.	Preparation of an efficient and safe polymeric-magnetic nanoparticle delivery system for sorafenib in hepatocellular carcinoma	2018	Life Sciences	8	Noorul Islam Centre for Higher Education	8
Benita J.,	Block Allocation Strategy for	2018	Wireless Personal		Noorul	

Jayaparvathy R.	Multiple Input Multiple Output (MIMO)–Orthogonal Frequency Division Multiple Access (OFDMA) System		Communications		Islam Centre for Higher Education	
Vijayakumar S., Mahadevan S., Arulmozhi P., Sriram S., Praseetha P.K.	Green synthesis of zinc oxide nanoparticles using Atalantia monophylla leaf extracts: Characterization and antimicrobial analysis	2018	Materials Science in Semiconductor Processing	46	Noorul Islam Centre for Higher Education	46
Uma Samundesvari K., Michael S.G.	Monophonic wirelength on Circulant Networks	2018	International Journal of Engineering and Technology(UAE)	10	Noorul Islam Centre for Higher Education	10
Thaya Kumari C.R., Nageshwari M., Raman R.G., Caroline M.L.	Crystal growth, spectroscopic, DFT computational and third harmonic generation studies of nicotinic acid	2018	Journal of Molecular Structure	16	Noorul Islam Centre for Higher Education	16
Eacherath S., Murugesan S.	Synthesis and characterization of magnesium-based hybrid composites – A review	2018	International Journal of Materials Research	6	Noorul Islam Centre for Higher Education	6
Skariya P.D., Satheesh M., Dhas E.R., Suneesh E.	A study on pftig welding process for the improvement of mechanical properties	2018	International Journal of Mechanical Engineering and Technology	0	Noorul Islam Centre for Higher Education	0
Bino Prince Raja D., Retnam B.S.J., Antony Samuel Prabu G., Alagu Sundaram A.	Mechanical, morphological and thermal characterization of hybrid bamboo/glass fiber reinforced polyester composites	2018	Rasayan Journal of Chemistry	7	Noorul Islam Centre for Higher Education	7
Faseela C.K., Vennila H.	Economic and emission dispatch using Whale Optimization Algorithm (WOA)	2018	International Journal of Electrical and Computer Engineering	7	Noorul Islam Centre for Higher Education	7
Nair S.K., Chandrachoodan Nair B.	Key drivers & factors influencing organized retail sector in KERALA	2018	International Journal of Mechanical Engineering and Technology	3	Noorul Islam Centre for Higher Education	3
Pradeep S., Nair C.	Impact of social media on consumer buying decision towards financial assets	2018	International Journal of Mechanical	1	Noorul Islam Centre for	1

	among it professionals at kerala		Engineering and Technology		Higher Education	
Prasoon P.P., Kumar M.S.R., Vaisakh G.	Experimental investigation on effect of partial replacement of coarse aggregate by plastic aggregate on M 40 grade self compacting concrete	2018	International Journal of Civil Engineering and Technology		Noorul Islam Centre for Higher Education	
Sivapragash M., Kumaradhas P., Vettivel S.C., Retnam B.S.J.	Optimization of PVD process parameter for coating AZ91D magnesium alloy by Taguchi grey approach	2018	Journal of Magnesium and Alloys	6	Noorul Islam Centre for Higher Education	6
Pradeep S., Chandrachoodan Nair B.	Perceived financial literacy and savings behavior of it professionals in Kerala	2018	International Journal of Mechanical Engineering and Technology	2	Noorul Islam Centre for Higher Education	2
Vaisakh G., Kumar M.S.R., Bala P.S.	An experimental study on properties of M50 concrete cured using PEG 400	2018	International Journal of Civil Engineering and Technology	2	Noorul Islam Centre for Higher Education	2
Abdhul K., Sakthinarayanan K., Murugan M.	Isolation and identification of Serratia marcescens NASC 1 and optimization of its chitinase production	2018	Journal of Pharmaceutical Sciences and Research	0	Noorul Islam Centre for Higher Education	0
Vaisakh G., Ravi Kumar M.S., Siva Bala P.	An experimental study on impact of molecular weight of peg on properties of m25 grade self curing concrete	2018	International Journal of Civil Engineering and Technology	6	Noorul Islam Centre for Higher Education	6
Balakrishnan N., Rajesh R.	Fabrication and analysis of 304 stainless steel boron carbide metal matrix composite	2018	International Journal of Mechanical Engineering and Technology	8	Noorul Islam Centre for Higher Education	8
Siva Bala P., Ravi Kumar M.S., Vaisakh G.	Experimental investigation on feasibility of self compacting concrete in the manufacture of prefabricated compression elements	2018	International Journal of Civil Engineering and Technology	10	Noorul Islam Centre for Higher Education	10
Siva Bala P., Ravi Kumar M.S., Vaisakh G.	Effect of self-compacting concrete in hollow compression members	2018	International Journal of Civil Engineering and	4	Noorul Islam Centre for	4

			Technology		Higher Education	
Selvan Nambi S., Joselin Herbert G.M.	Manufacturing of proto type wind turbine blades using rapid prototype technology	2018	International Journal of Mechanical and Production Engineering Research and Development	1	Noorul Islam Centre for Higher Education	1
Chandrakala K., Jayakumari J.	An efficient hierarchical modulation based OFDM transmission scheme for digital video broadcasting	2018	International Journal of Engineering, Transactions B: Applications	2	Noorul Islam Centre for Higher Education	2
Nambi S.S., Herbert G.M.J.	Design and analysis of wind turbine blades	2018	International Journal of Mechanical Engineering and Technology	1	Noorul Islam Centre for Higher Education	1
Raja A., Ashokkumar S., Pavithra Marthandam R., Jayachandiran J., Khathiwada C.P., Kaviyarasu K., Ganapathi Raman R., Swaminathan M.	Eco-friendly preparation of zinc oxide nanoparticles using Tabernaemontana divaricata and its photocatalytic and antimicrobial activity	2018	Journal of Photochemistry and Photobiology B: Biology	14	Noorul Islam Centre for Higher Education	14
Bindhu B., Renisha R., Roberts L., Varghese T.O.	Boron Nitride reinforced polylactic acid composites film for packaging: Preparation and properties	2018	Polymer Testing	13	Noorul Islam Centre for Higher Education	13
Edwin Raja Dhas J., Pradeep P., Akhil S., Daniel King S.	Mechanical characteristics of sandwich palm/glass based polymer composite	2018	IEEE International Conference on Circuits and Systems, ICCS 2017		Noorul Islam Centre for Higher Education	
Dhanya R., Selvi R.K.	A state of the art review on copy move forgery detection techniques	2018	IEEE International Conference on Circuits and Systems, ICCS 2017	1	Noorul Islam Centre for Higher Education	1
Dheena P.P.F., Raj G.S., Dutt G., Jinny S.V.	IOT based smart street light management system	2018	IEEE International Conference on Circuits and	28	Noorul Islam Centre for	28

			Systems, ICCS 2017		Higher Education	
Rakesh S., Grace K.S.V.	A survey on the design and performance of various MAC unit architectures	2018	IEEE International Conference on Circuits and Systems, ICCS 2017	9	Noorul Islam Centre for Higher Education	9
Preetha R., Jinny S.V.	Margin based feature selection: An algorithmic approach for a set of attributes extrication	2018	IEEE International Conference on Circuits and Systems, ICCS 2017		Noorul Islam Centre for Higher Education	
Rajeswari S., Kalaiselvi R.	Survey of data and storage security in cloud computing	2018	IEEE International Conference on Circuits and Systems, ICCS 2017	7	Noorul Islam Centre for Higher Education	7
Mavelly A.G., Judith J.E., Sahal P.A., Kuruvilla S.A.	Eye gaze tracking based driver monitoring system	2018	IEEE International Conference on Circuits and Systems, ICCS 2017	7	Noorul Islam Centre for Higher Education	7
Daphni S., Grace K.S.V.	A review analysis of parallel prefix adders for better performance in VLSI applications	2018	IEEE International Conference on Circuits and Systems, ICCS 2017	9	Noorul Islam Centre for Higher Education	9
Jalin A.F., Jayakumari J.	Text to speech synthesis system for Tamil using HMM	2018	IEEE International Conference on Circuits and Systems, ICCS 2017	5	Noorul Islam Centre for Higher Education	5
Abdulla S.M., Jayakumari J.	DUET using automatic peak detection and histogram thresholding	2018	IEEE International Conference on Circuits and Systems, ICCS 2017		Noorul Islam Centre for Higher Education	
Das M.K., Kumar P.M., Anitha A.	ORBOT - An efficient & intelligent mono copter	2018	IEEE International Conference on Circuits and Systems, ICCS 2017		Noorul Islam Centre for Higher Education	
Sumi M.S., Ganesh R.S.	Performance enhancing techniques in cognitive radio networks	2018	IEEE International Conference on Circuits and Systems, ICCS 2017	3	Noorul Islam Centre for Higher Education	3

Ajith Raj R., Dev Anand M.	A survey on future research about electron beam welding for aerospace applications	2018	China Welding (English Edition)	1	Noorul Islam Centre for Higher Education	1
Ramadas G., Sankar A.S.S., Sugathan N.V.	The scientific communication process in homoeopathic toxicology: An evaluative study	2018	Innovations in Measuring and Evaluating Scientific Information		Noorul Islam Centre for Higher Education	
Vijayakumar M., Stephen S.L., Mary A.L.	A scientometric profile of Vikram Sarabhai Space Center (VSSC) based on scopus database	2018	Innovations in Measuring and Evaluating Scientific Information		Noorul Islam Centre for Higher Education	
Joy R.P., Dheeba J.	IPS packet scheduling scheme for wireless sensor networks	2018	Proceedings of IEEE International Conference on Signal Processing and Communication, ICSPC 2017	2	Noorul Islam Centre for Higher Education	2
Ajith Raj R., Dev Anand M.	Microstructural evaluation and tensile characterization of electron beam welded dissimilar metal joints of copper and Stainless Steel 304	2018	International Journal of Mechanical Engineering and Technology	3	Noorul Islam Centre for Higher Education	3
Cincy W.C., Jeba J.R.	A method of A-BAT algorithm based query optimization for crowd sourcing system	2018	International Journal of Intelligent Systems and Applications	1	Noorul Islam Centre for Higher Education	1
Balamurugan S., Sana Fathima T.K., Veluraja K.	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	2018	Journal of Alloys and Compounds	1	Noorul Islam Centre for Higher Education	1
Auguskani P.L., Devi V.S., Raju A.D.J., Priya J.M.J., Beno M.M.	Risk reduction using grievance handling mechanism in handloom industry	2018	IEEE International Conference on Industrial Engineering and Engineering		Noorul Islam Centre for Higher Education	

			Management			
Menon J., Ravikumar M.S.	Strength evaluation of laterite soil stabilized using polymer fibers	2018	International Journal of Civil Engineering and Technology	2	Noorul Islam Centre for Higher Education	2
Sunil J., Kumar M.S.R.	Effect of fibres on the compressive strength of hollow concrete blocks	2018	International Journal of Civil Engineering and Technology	1	Noorul Islam Centre for Higher Education	1
Girijadevi L.T., Bino Prince Raja D., Prabhu A.S.	An approach for rational design and structural analysis of a hexa-copter	2018	International Journal of Mechanical and Production Engineering Research and Development		Noorul Islam Centre for Higher Education	
Darwins A.K., Satheesh M., Ramanan G.	Experimental analysis of friction stir welding of dissimilar alloys AA7075 and mg ZE42 using butt joint geometry	2018	International Journal of Mechanical and Production Engineering Research and Development	2	Noorul Islam Centre for Higher Education	2
Brindha T., Shaji R.S.	A secure transaction of cloud data using conditional source trust attributes encryption mechanism	2018	Soft Computing	6	Noorul Islam Centre for Higher Education	6
Varghese S., Vigila S.M.C.	A varied approach to attribute based access model for secure storage in cloud	2018	Proceedings of 2017 International Conference on Innovations in Information, Embedded and Communication Systems, ICIECS 2017	2	Noorul Islam Centre for Higher Education	2
Skariya P.D., Satheesh M., Edwin Raja Dhas J., Chandrasekar G.	Response surface methodology assisted multi- objective optimization of TIG process for 15CDV6 steel	2018	Control and Cybernetics		Noorul Islam Centre for Higher Education	
Jasim M., Brindha T.	A study on spinal cord segmentation techniques	2018	Control and Cybernetics		Noorul Islam Centre for	

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Sajitha A.V., Subhajini A.C.	Dynamic VM consolidation enhancement for designing and evaluation of energy efficiency in green data centers using regression analysis	2018	International Journal of Engineering and Technology(UAE)		Noorul Islam Centre for Higher Education	
Pradeep K.M., Edmund Christopher S., Kinslin D.	Management Education in Kerala-impact on employability	2018	International Journal of Engineering and Technology(UAE)		Noorul Islam Centre for Higher Education	
Sajan P.P., Kumar S.S.	GVF snake algorithm-a parallel approach	2018	International Journal of Engineering and Technology(UAE)		Noorul Islam Centre for Higher Education	
Seelan L.J., Suresh P.	Lung Lesion enhancement using adaptive median filter with curvelet transform	2018	International Journal of Engineering and Technology(UAE)		Noorul Islam Centre for Higher Education	
Thebiga M., Suji Pramila R.	Queue based energy efficient routing with dynamic resource allocation in mobile adhoc networks	2018	International Journal of Engineering and Technology(UAE)		Noorul Islam Centre for Higher Education	
Albi, Dev Anand M., Joselin Herbert G.M.	Aerodynamic analysis on wind turbine aerofoil	2018	International Journal of Engineering and Technology(UAE)		Noorul Islam Centre for Higher Education	
Pradeep K.M., Edmund Christopher S.	Business schools in Kerala-Impact on employability	2018	International Journal of Engineering and Technology(UAE)		Noorul Islam Centre for Higher Education	
Sreekanth S., Felix Joseph X.	Photovoltaic system under uneven light condition and variable load with modified incremental resistance algorithm	2018	International Journal of Engineering and Technology(UAE)		Noorul Islam Centre for Higher Education	
Neela Rajan R.R., Bino Prince Raja D., Ramanan G., Muthu Sherin S.	Buckling analysis of stiffened panels under Fuselage bending	2018	International Journal of Engineering and Technology(UAE)	1	Noorul Islam Centre for Higher	1

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Nair S.K., Chandrachoodan Nair B.	Employee engagement practices in organized retail sector: An empirical study with respect to Ernakulam Town	2018	International Journal of Engineering and Technology(UAE)		Noorul Islam Centre for Higher Education	
Jerold Jose P., Dev Anand M.	Comprehensive analysis of TIG Welded Inconel-718 alloy for different heat input conditions	2018	International Journal of Engineering and Technology(UAE)		Noorul Islam Centre for Higher Education	
Felix Stephen S., Jacob Raglend I.	Voltage regulation using STATCOM with PI and adaptive PI controls	2018	International Journal of Engineering and Technology(UAE)	1	Noorul Islam Centre for Higher Education	1
Nithin S.S., Padma Suresh L.	Video coding using different wavelets and modified SPIHT: A relative approach	2018	International Journal of Engineering and Technology(UAE)		Noorul Islam Centre for Higher Education	
Ajith Raj R., Dev Anand M.	Modeling and prediction of mechanical strength in Electron Beam Welded dissimilar metal joints of stainless steel 304 and Copper using Grey Relation Analysis	2018	International Journal of Engineering and Technology(UAE)		Noorul Islam Centre for Higher Education	
Sarath D., Sucharitha M.	A study study on image retrieval based on tetrolet transform	2018	International Journal of Engineering and Technology(UAE)	1	Noorul Islam Centre for Higher Education	1
Ramanan G., Rajesh Prabha N., Diju Samuel G., Jai Aultrin K.S., Ramachandran M.	Prediction of machining characteristics of hybrid composites using response surface methodology approach	2018	International Journal of Engineering and Technology(UAE)	5	Noorul Islam Centre for Higher Education	5
Thebiga M., Suji Pramila R.	A survey to monitor and defend against blackhole attacks in mobile adhoc networks	2018	International Journal of Engineering and Technology(UAE)	1	Noorul Islam Centre for Higher Education	1
Anjali Krishna R., Padmasuresh L., Muthukumar P.	Genetic algorithm based 15 level multilevel inverter with SHE PWM	2018	International Journal of Engineering and Technology(UAE)	8	Noorul Islam Centre for Higher	8

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Misbha D.S., Jeba J.R.	Comparison of RECSS algorithm with EARH and cuckoo search algorithm	2018	Journal of Advanced Research in Dynamical and Control Systems		Noorul Islam Centre for Higher Education	
Delbio A., Ilankumaran M.	Theories, techniques, methods and approaches of second language acquisition: A psychological perspective	2018	International Journal of Engineering and Technology(UAE)	10	Noorul Islam Centre for Higher Education	10
Nithin S.S., Padma L., Suresh N.S.	Wavelet based Video compression using various encoding techniques: A relative study	2018	International Journal of Engineering and Technology(UAE)	1	Noorul Islam Centre for Higher Education	1
Jeya Gowri K., Ilankumaran M.	Application of theories, techniques, methods and approaches to develop second language skills-a study based on transition from schooling to college	2018	International Journal of Engineering and Technology(UAE)	10	Noorul Islam Centre for Higher Education	10
Ilankumaran M., Deepa P.	Teaching literature enhances communication skills - A study with special emphasis on poetry	2018	International Journal of Engineering and Technology(UAE)	10	Noorul Islam Centre for Higher Education	10
Abilasha R., Ilankumaran M.	English language teaching: Challenges and strategies from the Indian perspective	2018	International Journal of Engineering and Technology(UAE)	11	Noorul Islam Centre for Higher Education	11
Edmund Christopher S., Pradeep K.M.	Gender factor-impact on employability: Special reference to the management students in Kerala	2018	International Journal of Engineering and Technology(UAE)	1	Noorul Islam Centre for Higher Education	1
Heaven Rose R.I., Subajini A.C.	An efficient medical content based image retrieval with lenient relevance feedback	2018	International Journal of Engineering and Technology(UAE)	2	Noorul Islam Centre for Higher Education	2
Shibu K.R., SujiPramila R.	Routing protocol based key management schemes in manet: A survey	2018	International Journal of Engineering and Technology(UAE)	2	Noorul Islam Centre for Higher Education	2

Baby B., Pramila R.S.	Survey on analysis of energy optimization in MANET routing	2018	International Journal of Engineering and Technology(UAE)	2	Noorul Islam Centre for Higher Education	2
Selvarajan T.M., Subramoniam R.	Prime graceful labeling	2018	International Journal of Engineering and Technology(UAE)	1	Noorul Islam Centre for Higher Education	1
Michael S.G., Uma Samundesvari K.	Monophonic wirelength in graph embedding	2018	International Journal of Engineering and Technology(UAE)		Noorul Islam Centre for Higher Education	
John K., Vinod Kumar R.S., Kumar S.S.	Design of low power and high speed implicit pulse flip-flop and its application	2018	International Journal of Engineering and Technology(UAE)	9	Noorul Islam Centre for Higher Education	9
Ramanan G., Neela Rajan R.R., Jai Aultrin K.S., Pradeep P.	Optimization of machining characteristics of hybrid composites using grey relational technique	2018	International Journal of Engineering and Technology(UAE)	1	Noorul Islam Centre for Higher Education	1
Philipose R.S., Sarasija P.B.	Gutman Index and Harary Index of Unitary Cayley Graphs	2018	International Journal of Engineering and Technology(UAE)	5	Noorul Islam Centre for Higher Education	5
Renu S., Krishna Veni S.H.	An enhanced security tree to secure cloud data	2018	International Journal of Engineering and Technology(UAE)	4	Noorul Islam Centre for Higher Education	4
Rakesh S., Vijula Grace K.S.	Low power multiply accumulate unit based on modified hybrid Han Carlson adder	2018	Progress in Color, Colorants and Coatings		Noorul Islam Centre for Higher Education	
Bindhu V.S., Mary Synthia Regis Prabha D.M.	Power and power factor control strategies of hybrid energy system using PID controller	2018	Journal of Advanced Research in Dynamical and Control Systems		Noorul Islam Centre for Higher Education	
Mathews A.B., Jeyakumar M.K.	Enhancement of lung CT images using improved linear	2018	Journal of Advanced Research	2	Noorul Islam	2

	iterative clustering for identifying tumor in Juxta vascular region		in Dynamical and Control Systems		Centre for Higher Education	
Jayakumari J., Rakhi K.J.	Efficient OFDM transceiver design for VLC systems in fading channel	2018	International Journal of Engineering and Technology(UAE)		Noorul Islam Centre for Higher Education	
Ramanan G., Neela Rajan R.R., Rajesh Prabha N.	An evaluation of stress intensity factor of fracture model for glass fiber epoxy resin composite	2018	International Journal of Mechanical and Production Engineering Research and Development		Noorul Islam Centre for Higher Education	
Reeba Rex S., Mary Synthia Regis Praba D.M.	Controller design for boost converter using soft computing techniques based optimization algorithms	2018	Journal of Advanced Research in Dynamical and Control Systems		Noorul Islam Centre for Higher Education	
Shamsudeen S., Dhas J.E.R.	Optimization of multiple performance characteristics of friction stir welded joint with grey relational analysis	2018	Materials Research	10	Noorul Islam Centre for Higher Education	10
Vimala S.T., Dhas J.P.M.	SDN based DDoS attack detection system by exploiting ensemble classification for cloud computing	2018	International Journal of Intelligent Engineering and Systems	1	Noorul Islam Centre for Higher Education	1
Cherian R.K., Nargunam A.S.	Distributed agent based selective forwarding attack detection and response technique for MANET	2018	Journal of Advanced Research in Dynamical and Control Systems		Noorul Islam Centre for Higher Education	
Pravin Rose T., Glan Devadhas G.	Design of fractional order PI controller with ABC and BBO algorithm for pH neutralization process using multiple tanks	2018	Journal of Advanced Research in Dynamical and Control Systems		Noorul Islam Centre for Higher Education	
Beulah S., Dhanaseelan F.R.	Comparative study of de-duplication methods for sensor data in cloud storage	2018	Journal of Computational and Theoretical Nanoscience		Noorul Islam Centre for Higher Education	
Sruthy S., Babu S.S.	Curve fitting and mesh construction in documents	2018	Journal of Computational and		Noorul Islam	

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Gopu P., Dev Anand M., Rajesh R.	Prediction of electrical discharge machining process parameters by artificial neural network based on response surface method	2018	Journal of Advanced Research in Dynamical and Control Systems		Noorul Islam Centre for Higher Education	
Jai Aultrin K.S., Dev Anand M.	PSO approach on cutting parameters in awjm process for copper iron alloy	2018	Journal of Advanced Research in Dynamical and Control Systems		Noorul Islam Centre for Higher Education	
Kabila V., Glan Devadhas G.	Action of IMC and pole placement controllers implemented to CSTD process	2018	Journal of Advanced Research in Dynamical and Control Systems		Noorul Islam Centre for Higher Education	
Samuel Blessed Nayagam P.V., Nargunam A.S.	Trust aware service provisioning scheme for multi cloud environment	2018	Journal of Advanced Research in Dynamical and Control Systems		Noorul Islam Centre for Higher Education	
Samuel Blessed Nayagam P.V., Nargunam A.S.	Multilevel authentication scheme for cloud computing platform	2018	Journal of Advanced Research in Dynamical and Control Systems		Noorul Islam Centre for Higher Education	
Minimol V.K., Shaji R.S.	MQMS - An Improved Priority Scheduling Model for Body Area Network Enabled M-Health Data Transfer	2018	Communications in Computer and Information Science		Noorul Islam Centre for Higher Education	
Joneston Dhas J.L., Maria Celestin Vigila S., Ezhil Star C.	Forecasting of Stock Market by Combining Machine Learning and Big Data Analytics	2018	Communications in Computer and Information Science	1	Noorul Islam Centre for Higher Education	1
Anil J., Lekshmi Kanthan P.S., Krishna Veni S.H.	Soft Computing and Face Recognition: A Survey	2018	Communications in Computer and Information Science		Noorul Islam Centre for Higher Education	
Murali J.A., Brindha T.	Analysis of Scheduling Algorithms in Hadoop	2018	Communications in Computer and Information Science		Noorul Islam Centre for Higher	

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Joshi R.V., Chandrashekhar N.	Discrete Time vs Agent Based Techniques for Finding Optimal Radar Scan Rate - A Comparative Analysis	2018	Communications in Computer and Information Science	1	Noorul Islam Centre for Higher Education	1
Briso Becky Bell J., Maria Celestin Vigila S.	Genic Disorder Identification and Protein Analysis Using Soft Computing Methods	2018	Communications in Computer and Information Science		Noorul Islam Centre for Higher Education	
Pravin Rose T., Scholar R., Islam N., Glan Devadhas G.	Optimization-base design of fractional order pi control for multiple tanks ph neutralization process	2018	Journal of Advanced Research in Dynamical and Control Systems	1	Noorul Islam Centre for Higher Education	1
Ajith Raj R., Dev Anand M.	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	2018	Journal of Advanced Research in Dynamical and Control Systems		Noorul Islam Centre for Higher Education	
Ajith Raj R., Dev Anand M.	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	2018	Journal of Advanced Research in Dynamical and Control Systems		Noorul Islam Centre for Higher Education	
Ibrahim S., Mehta R.C.	An investigation of air flow and thermal comfort of modified conventional car cabin using computational fluid dynamics	2018	Journal of Applied Fluid Mechanics	2	Noorul Islam Centre for Higher Education	2
Sajitha A.V., Subhajini A.C.	Network-aware VM migration for achieving energy efficient green data centres through dynamic VM consolidation	2018	Journal of Advanced Research in Dynamical and Control Systems		Noorul Islam Centre for Higher Education	
Mancy L., Vigila S.M.C.	A new diffusion and substitution based cryptosystem for securing medical image applications	2018	International Journal of Electronic Security and Digital Forensics	7	Noorul Islam Centre for Higher Education	7
Ramanan G.,	Modelling and prediction of	2018	IOP Conference	6	Noorul	6

Samuel G.D., Sherin S.M., Samuel K.	machining parameters in composite manufacturing using artificial neural network		Series: Materials Science and Engineering		Islam Centre for Higher Education	
Darwins A.K., Satheesh M., Ramanan G.	Modelling and optimization of friction stir welding parameters of Mg-ZE42 alloy using grey relational analysis with entropy measurement	2018	IOP Conference Series: Materials Science and Engineering	7	Noorul Islam Centre for Higher Education	7
Gayathri A.R., Mary Synthia Regis Prabha D.M.	Grey wolf algorithm optimized solar PV array fed Landsman converter	2018	Journal of Advanced Research in Dynamical and Control Systems		Noorul Islam Centre for Higher Education	
Centhil Kumar C., Jacob Raglend I.	A MPPT strategy based on cuckoo search for wind energy conversion system	2018	International Journal of Engineering and Technology(UAE)	3	Noorul Islam Centre for Higher Education	3
Parvathy M., Ganesan R.	Throughput enhancement of SISO parallel LTE turbo decoders using floating point turbo decoding algorithm	2018	International Journal of Wireless and Mobile Computing	1	Noorul Islam Centre for Higher Education	1
Kala P.P., Anwar-Samath F.M.	Synthesis and characterization of graphene flakes from graphite by using biosurfactant - A review	2018	Nano Biomedicine and Engineering	1	Noorul Islam Centre for Higher Education	1
Gopakumar R., Rajesh R.	Fabrication and study of mechanical properties of eco-friendly banana fibre-natural rubber latex composites	2018	International Journal of Environment and Waste Management		Noorul Islam Centre for Higher Education	
Chacko T., Merlin Thanga Joy A.	Tourism is a multifaceted industry for generating revenue for the government	2018	Journal of Advanced Research in Dynamical and Control Systems		Noorul Islam Centre for Higher Education	
Jamshak S.H., Dev Anand M., Akshay S.B., Arun S., Prajeev J., Prabhakaran P.	Design and analysis of a plate heat exchanger in the view of performance improvement and cost reduction	2018	International Journal of Engineering and Technology(UAE)		Noorul Islam Centre for Higher Education	
Senthil Lekha S.L., Kumar S.S.	Selection of suitable supervised classification techniques for the	2018	International Journal of Engineering and		Noorul Islam Centre for	

	geographic analysis of land using GIS techniques		Technology(UAE)		Higher Education	
Reeba Rex S., Praba M.S.R.	A speed control of DC motor with PWM using microcontroller in hardware in loop	2018	International Journal of Engineering and Technology(UAE)		Noorul Islam Centre for Higher Education	
Briso Becky Bell J., Maria Celestin Vigila S.	Gene selection approaches for classifying disease relevant data sample	2018	International Journal of Engineering and Technology(UAE)		Noorul Islam Centre for Higher Education	
Ramya Ravi R., Vinod Kumar R.S., Shanila N.	Artifacts removal in Melanoma using various preprocessing filters	2018	International Journal of Engineering and Technology(UAE)	2	Noorul Islam Centre for Higher Education	2
Reeba Rex S., Mary Synthia Regis Praba D.M.	Modern optimization based controller design for boost converter using soft computing techniques	2018	Journal of Advanced Research in Dynamical and Control Systems	1	Noorul Islam Centre for Higher Education	1
Mathews A.B., Jeyakumar M.K.	A novel ASNO segmentation technique for segmenting the JUXTA vascular region	2018	International Journal of Engineering and Technology(UAE)	1	Noorul Islam Centre for Higher Education	1
Thulasi D.V., Amala Shanthi S.	An optimized approach for evaluation of radiation hazards from mobile tower	2018	Journal of Advanced Research in Dynamical and Control Systems	1	Noorul Islam Centre for Higher Education	1
Beulah S., Ramesh Dhanaseelan F.	An optimal method for duplication detection and elimination from air pollution data of wireless sensor network	2018	International Journal of Environment and Waste Management	1	Noorul Islam Centre for Higher Education	1
Gopalakrishnan T., Rajeesh J., Palanikumar S.	Robust breast cancer detection by utilising the multi-resolution features	2018	International Journal of Signal and Imaging Systems Engineering	2	Noorul Islam Centre for Higher Education	2
Ranjith V.G., Jeyakumar M.K., Palanikumar S.	Multi resolution feature combined with ODBTC technique for robust CBIR system	2018	International Journal of Signal and Imaging Systems Engineering	3	Noorul Islam Centre for Higher Education	3

Shameer A.P., Subhajini A.C.	Improving the task scheduling QOS based on multiple parameters by using MPSO techniques	2018	Journal of Advanced Research in Dynamical and Control Systems	1	Noorul Islam Centre for Higher Education	1
John K., Vinod Kumar R., Kumar S.	Impact of pulse-triggered flip-flops in low power applications	2018	Journal of Advanced Research in Dynamical and Control Systems	10	Noorul Islam Centre for Higher Education	10
Centhil Kumar C., Jacob Raglend I.	MPPT based various control strategies for wind energy conversion system and its reliability-survey	2018	Journal of Advanced Research in Dynamical and Control Systems		Noorul Islam Centre for Higher Education	
Felix Stephen S., Jacob Raglend I.	PI control of statcom with BAT algorithm	2018	Journal of Advanced Research in Dynamical and Control Systems		Noorul Islam Centre for Higher Education	
Misbha D.S., Jeba J.R.	An improved and user-friendly scheduling approach in streaming data warehouses	2018	Journal of Advanced Research in Dynamical and Control Systems		Noorul Islam Centre for Higher Education	
Priya B.S.D., Enoch S.	The effect of packet redundancy elimination technique in sensor networks	2018	Journal of Computer Science	1	Noorul Islam Centre for Higher Education	1
Sreekumar K., Bindhu B.	Aqueous Exfoliation of Molybdenum Disulfide Using Ultrasonication	2018	Materials Today: Proceedings	3	Noorul Islam Centre for Higher Education	3
Shanavas S., Dhas J.E.R.	Quality Prediction of Friction Stir Weld Joints on Aa 5052 H32 Aluminium Alloy Using Fuzzy Logic Technique	2018	Materials Today: Proceedings	7	Noorul Islam Centre for Higher Education	7
Sukumaran A., Glan D.G., Kumar S.S.	An improved tumor segmentation algorithm from T2 and FLAIR multimodality MRI brain images by support vector machine and genetic algorithm	2018	Cogent Engineering	2	Noorul Islam Centre for Higher Education	2
Gopakumar R.,	Development and	2018	Journal of		Noorul	

Rajesh R.	characterisation of eco-friendly 40% v/v Hybrid Banana/Sisal fibers-natural rubber latex composite		Engineering and Applied Sciences		Islam Centre for Higher Education	
Sajitha A.V., Subhajini A.C.	Dynamic VM consolidation enhancement for designing and evaluation of energy efficiency in green data centers using regression analysis	2018	International Journal of Engineering and Technology(UAE)	4	Noorul Islam Centre for Higher Education	4
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Renu S., Krishna Veni S.H.	Preventing data loss even when the security system compromise	2018	Journal of Applied Engineering Science		Noorul Islam Centre for Higher Education	
Prabhakar P., Vennila H.	Improvement of power quality in microgrids using predictive controller	2018	International Journal of Intelligent Systems Technologies and Applications		Noorul Islam Centre for Higher Education	
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Sagi Rani C., Thangaraj G., Suresh D.M., Joseph John N.	Influence of ball milling on CdO nanoparticles prepared by thermal decomposition	2018	Oriental Journal of Chemistry	3	Noorul Islam Centre for Higher Education	3
Jayaram V., Bavanish B.	Viability study of implementing cross flow helical turbine for micropower generation in India	2018	International Journal of Renewable Energy Research	1	Noorul Islam Centre for Higher Education	1
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Anandan S., Rajesh R.	Tubing material selection for nuclear power plant heat exchangers	2018	International Journal of Mechanical Engineering and Technology		Noorul Islam Centre for Higher Education	
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Dhanasekar T., Rajakumar P.	Effective utilization of fuzzy logic in stabilize road construction with RBI grade-81	2018	International Journal of Civil Engineering and Technology		Noorul Islam Centre for Higher Education	
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Renu, S., Krishna Veni, S.H.	An enhanced security tree to secure cloud data	2018	International Journal of Engineering and Technology(UAE)		Noorul Islam Centre for Higher	

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Aniyeri R., Nadar R.	Passengers queue analysis in international airports terminals in Kerala using multiphase queuing system	2018	International Journal of Mathematics in Operational Research	7	Noorul Islam Centre for Higher Education	7
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Sheela Y.J., Krishnaveni S.H.	A comparative analysis of various classification trees	2017	Proceedings of IEEE International Conference on Circuit, Power and Computing Technologies, ICCPCT 2017	6	Noorul Islam Centre for Higher Education	6
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Dhas E.R., Pradeep P.	Mechanical Property Evaluation of Palm/Glass Sandwiched Fiber Reinforced Polymer Composite in Comparison with few natural composites	2017	IOP Conference Series: Materials Science and Engineering	3	Noorul Islam Centre for Higher Education	3
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Prabha R., Edwin Raja Dhas J.	Development of Fuzzy Logic Tool to predict Wear Rate in Aluminum Composite	2017	IOP Conference Series: Materials Science and Engineering		Noorul Islam Centre for Higher Education	
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Faseela C.K., Vennila	Merit order dispatch using ant lion optimization algorithm	2017	International Journal of Civil Engineering and Technology	1	Noorul Islam Centre for Higher Education	1
Judson Durai T., Sivapragash M., Edwin Sahayaraj M.	Effect of sintering temperature on mechanical properties of Mg-Zr alloy	2017	International Journal of Mechanical and Production Engineering Research and Development	5	Noorul Islam Centre for Higher Education	5
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Ramachandran S.	Properties of non-reconstructible graphs and digraphs	2017	Utilitas Mathematica		Noorul Islam Centre for Higher Education	
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Peter S.E., Raglend I.J.	Sequential wavelet-ANN with embedded ANN-PSO hybrid electricity price forecasting model for Indian energy exchange	2017	Neural Computing and Applications	12	Noorul Islam Centre for Higher Education	12
Prabha N.R., Dhas J.E.R.	Neuro fuzzy modeling and prediction of wear rate in composite manufacturing	2017	2016 International Conference on Control Instrumentation Communication and Computational Technologies, ICCICCT 2016		Noorul Islam Centre for Higher Education	
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Unni Krishnan A., Joselin Herbert G.M.	Biogas yield potential research of the wastes from banana by anaerobic digestion	2017	International Journal of Mechanical Engineering and Technology	5	Noorul Islam Centre for Higher Education	5
Reji Kumar R., Sivapragash M.	Corrosion behaviour of magnesium tricalcium phosphate composite in simulated body fluid	2017	International Journal of Mechanical Engineering and Technology	1	Noorul Islam Centre for Higher Education	1
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Jayalekshmi M.B., Krishnaveni S.H.	TSS - Twin layered security scheme for cloud storage to preserve data integrity	2017	International Journal of Intelligent Engineering and Systems	1	Noorul Islam Centre for Higher Education	1
Joseph J., Suman A., Nagashri K., Joseyphus R.S., Balakrishnan N.	Synthesis, characterization and biological studies of copper(II) complexes with 2- aminobenzimidazole derivatives	2017	Journal of Molecular Structure	16	Noorul Islam Centre for Higher Education	16
Sindia T.V., Dhas J.P.M.	SBS-SDN based solution for preventing DDoS attack in	2017	ARPN Journal of Engineering and	1	Noorul Islam	1

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Jayasree V., Siva Balan R.V.	Money laundering regulatory risk evaluation using Bitmap Index-based Decision Tree	2017	Journal of the Association of Arab Universities for Basic and Applied Sciences	10	Noorul Islam Centre for Higher Education	10
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Peer Mohamed M.S., Swarnammal S.R.	An efficient framework to handle integrated VM workloads in heterogeneous cloud infrastructure	2017	Soft Computing	3	Noorul Islam Centre for Higher Education	3
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Priyanka C.S., Arockia Selva Saroja G.	An efficient fuzzy map rule based FSO communication through turbulent atmosphere	2017	Proceedings of 2016 Online International Conference on Green Engineering and Technologies, IC-GET 2016		Noorul Islam Centre for Higher Education	
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Senthil Anbazhagan A.M., Dev Anand M.	Investigation and modeling on dynamic failure mode-I type crack transitions in pressure vessel geometry	2017	International Journal of Mechanical Engineering and Technology	1	Noorul Islam Centre for Higher Education	1
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Tibbie Pon Symon V.A., Jacob Ragland I., Suji Pramila R.	Reduction of distribution losses in smart grid infrastructure by an optimization technique	2017	International Journal of Mechanical Engineering and Technology	1	Noorul Islam Centre for Higher Education	1
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Shiju C., Arish D., Kumaresan S.	Synthesis, characterization, cytotoxicity, DNA cleavage, and antimicrobial activity of lanthanide(III) complexes of a	2017	Arabian Journal of Chemistry	13	Noorul Islam Centre for Higher	13

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Sudhan M.B., Dharun V.S.	Robust Face Recognition and illumination method using low dimension linear model	2017	ARNP Journal of Engineering and Applied Sciences		Noorul Islam Centre for Higher Education	
Joseph J., Suman A., Balakrishnan N.	Design, synthesis, characterization and biological studies of copper(II) complexes with 2-aminobenzimidazole derivatives as biomimetic agents	2017	Applied Organometallic Chemistry	2	Noorul Islam Centre for Higher Education	2
Mary Synthuja Jain Preetha M., Padmasuresh L., John Bosco M.	Firefly based region growing and region merging for image segmentation	2017	Proceedings of IEEE International Conference on Emerging Technological Trends in Computing, Communications and Electrical Engineering, ICETT	2	Noorul Islam Centre for Higher Education	2

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Aniyeri R., Ratnam Nadar C.	A multiphase queuing system with assorted servers by using matrix geometric method	2017	International Journal of Applied Engineering Research	1	Noorul Islam Centre for Higher Education	1
John M., Jayasudha J.S.	Enhancing performance of deep learning based text summarizer	2017	International Journal of Applied Engineering Research	1	Noorul Islam Centre for Higher Education	1
Minimol V.K., Shaji R.S.	M-health frame work- for public health services	2017	International Journal of Applied Engineering Research	1	Noorul Islam Centre for Higher Education	1
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Sreeja K.A., Kumar S.S.	Region-threshold detection and KNN classification method for detecting and classifying hemorrhages for real time application in retinal fundus images	2017	Journal of Advanced Research in Dynamical and Control Systems		Noorul Islam Centre for Higher Education	
Dinu A.J., Ganesan R., Joseph F., Balaji V.	Quality analysis of various deep learning neural network classifiers for Alzheimer's disease detection	2017	Journal of Engineering and Applied Sciences	5	Noorul Islam Centre for Higher Education	5
Ravikumar D., Vennila V.	Hybrid wind solar system for efficient power generation	2017	Proceedings of the International Conference on Electronics, Communication and Aerospace Technology, ICECA 2017	5	Noorul Islam Centre for Higher Education	5
Nair A.L.S., Mary S.A.J., Linsely J.A.	Modeling and control of level control process - A comparative study	2017	2017 Innovations in Power and Advanced Computing Technologies, i-PACT 2017		Noorul Islam Centre for Higher Education	
Cincy W.C., Jeba J.R.	A novel meta heuristic based query optimization technique on crowdsourcing environment using a-fly algorithm	2017	Journal of Advanced Research in Dynamical and Control Systems		Noorul Islam Centre for Higher Education	
Shiney O.J., Singh J.A.P., Shan B.P.	A Review on techniques for computer aided diagnosis of soft markers for detection of down syndrome in ultrasound fetal images	2017	Biomedical and Pharmacology Journal	1	Noorul Islam Centre for Higher Education	1
Ramanan G., Dhas	Optimization of material	2017	International	5	Noorul	5

J.E.R., Ramachandran M.	removal rate and surface roughness for wire electric discharge machining of AA7075 composites using grey relational analysis		Journal of Vehicle Structures and Systems		Islam Centre for Higher Education	
Ajay Praveen Kumar A., Ganapathi Raman R.	Spectroscopic and second harmonic generations studies of 5-bromo-2-methoxybenzonitrile by DFT	2017	Oriental Journal of Chemistry	4	Noorul Islam Centre for Higher Education	4
Cincy W.C., Jeba J.R.	Performance analysis of novel hybrid A-BAT algorithm in crowdsourcing environment	2017	International Journal of Applied Engineering Research	1	Noorul Islam Centre for Higher Education	1
Vivek P.K., Dharun V.S., Veenus P.K.	Challenges in wireless sensor networks – A signal processing perspective	2017	Journal of Advanced Research in Dynamical and Control Systems		Noorul Islam Centre for Higher Education	
Vivek P.K., Dharun V.S., Veenus P.K.	Industrial sensor networks - signal processing with compressive sensing	2017	International Journal of Applied Engineering Research		Noorul Islam Centre for Higher Education	
Vivek P.K., Dharun V.S., Veenus P.K., Sivasankar K.	Implementation of chaotic neural network in joint compression and encryption scheme	2017	Journal of Advanced Research in Dynamical and Control Systems		Noorul Islam Centre for Higher Education	
Saju Simon S.G., Joseph X.F.	Pre-processing of dental X-ray images using adaptive histogram equalization method	2017	Journal of Advanced Research in Dynamical and Control Systems	1	Noorul Islam Centre for Higher Education	1
Sajitha A.V., Subhajini A.C.	ECGCD: A computational approach of the designing and evaluation of energy efficiency and environmental sustainability in green data centres using dynamic VM consolidation	2017	Journal of Advanced Research in Dynamical and Control Systems	3	Noorul Islam Centre for Higher Education	3
Sasikala T.S., Sivasankar K.	Multimodal biometric authentication based on interpolation based steganography	2017	Journal of Advanced Research in Dynamical and Control Systems		Noorul Islam Centre for Higher Education	

Muhammed Anshad P.Y., Kumar S.S.	Automatic segmentation of chondroblastoma from medical images using SRM & active contour method	2017	Journal of Advanced Research in Dynamical and Control Systems		Noorul Islam Centre for Higher Education	
Subhashini R., Jeyakumar M.K.	Performance analysis of different classification techniques for the prediction of chronic kidney disease	2017	Journal of Advanced Research in Dynamical and Control Systems	2	Noorul Islam Centre for Higher Education	2
Neela Rajan R.R., Rajesh R.	Multi-objective optimisation of Mahua oil transesterification using response surface methodology and grey relational analysis	2017	International Journal of Enterprise Network Management	1	Noorul Islam Centre for Higher Education	1
Robin Divahar S., Sudhahar C., Karthikeyan L.M., Edwin Raja Dhas J.	Identification of influencing factors for the selection of RLSP using DEMATEL method	2017	International Journal of Enterprise Network Management		Noorul Islam Centre for Higher Education	
Prabhakar P., Vennila H.	Power quality improvement in microgrid using custom power devices	2017	International Journal of Enterprise Network Management	3	Noorul Islam Centre for Higher Education	3
Sindia T.V., Dhas J.P.M.	A bifold software defined networking based defence mechanism for DDOS attacks in the cloud environment	2017	International Journal of Applied Engineering Research	1	Noorul Islam Centre for Higher Education	1
Aswathy S.U., Glan Devadhas G., Kumar S.S., Sreevidya P.	An optimized approach for SVM based segmentation of MR images of brain tumors	2017	Journal of Advanced Research in Dynamical and Control Systems	2	Noorul Islam Centre for Higher Education	2
Dalmiya C.P., Santhi N.	A novel adaptive clustering algorithm using validity index in remote sensing data	2017	International Journal of Applied Engineering Research	5	Noorul Islam Centre for Higher Education	5
Sajan P.P., Kumar S.S.	Parallelizing MAP-ML method in multicore architecture	2017	Journal of Advanced Research in Dynamical and Control Systems		Noorul Islam Centre for Higher Education	
Ajay Praveen	Theoretical spectroscopic	2017	Oriental Journal of	2	Noorul	2

Kumar A., Raman R.G.	and second harmonic generations studies of 5–fluoro-2-methyl benzonitrile		Chemistry		Islam Centre for Higher Education	
Mohamed Shameem P., Johnson N., Shaji R.S., Arun E.	An effective resource management in cloud computing	2017	International Journal of Communication Networks and Distributed Systems	3	Noorul Islam Centre for Higher Education	3
Omana S.P., Jesu J.C.	JFIM: A novel filter feature selection approach using joint feature interaction maximization	2017	International Journal of Intelligent Engineering and Systems		Noorul Islam Centre for Higher Education	
Renu S., Krishna Veni S.H.	An enhanced CIA tree using string matching algorithm	2017	International Journal of Applied Engineering Research	4	Noorul Islam Centre for Higher Education	4
Balakrishnan N., Rajesh R., Ganesh K.	Process parameters selection for laser welding of 304-stainless steel using AHP method	2017	International Journal of Enterprise Network Management	1	Noorul Islam Centre for Higher Education	1
Ramachandran S., Bhanumathy P.	Subgraphs and similarity of vertices	2017	Ars Combinatoria		Noorul Islam Centre for Higher Education	
Subash T., Vincent P., Karuppasamy S., Kushnappa B.K.	Analysis of nutrient index of soil for green environment	2017	Asian Journal of Chemistry	3	Noorul Islam Centre for Higher Education	3
Madhukumar P., Ramu G., Veerasamy B., Joseph F.	Application of fixed point turbo decoding algorithm for throughput enhancement of SISO parallel advanced LTE turbo decoders	2017	International Journal of Intelligent Engineering and Systems		Noorul Islam Centre for Higher Education	
Muthu A.B.A., Enoch S.	Optimized scheduling and resource allocation using evolutionary algorithms in cloud environment	2017	International Journal of Intelligent Engineering and Systems	11	Noorul Islam Centre for Higher Education	11
Prabhakar P., Vennila H.	Comparison between PI, fuzzy & predictive techniques	2017	International Journal of	1	Noorul Islam	1

	for STATCOM to improve the transient stability of microgrid		Mechanical Engineering and Technology		Centre for Higher Education	
Tibbie Pon Symon V.A., Jacob Raglend I., Suji Pramila R.	A new approach for the reduction of distribution losses in smart grid	2017	International Journal of Mechanical Engineering and Technology	1	Noorul Islam Centre for Higher Education	1
Felix Stephen S., Jacob Raglend I.	Voltage regulation using PI control of STATCOM with firefly algorithm	2017	International Journal of Mechanical Engineering and Technology	2	Noorul Islam Centre for Higher Education	2
Sreejith M.V., Tibbie Pon Symon V.A., Shamila F., Linsely A.	Shunt feedback method of power consumption measurement for microcontroller based applications	2017	International Journal of Mechanical Engineering and Technology		Noorul Islam Centre for Higher Education	
Faseela C.K., Vennila H.	Combined economic and emission dispatch with valve point effect using moth flame optimization (MFO) algorithm	2017	International Journal of Mechanical Engineering and Technology	1	Noorul Islam Centre for Higher Education	1
Siva M.M., Rajesh R.	Tensile and SEM behaviour of stir casting AL-2011/TIB2 particulate composites	2017	International Journal of Mechanical Engineering and Technology		Noorul Islam Centre for Higher Education	
Ajith Raj R., Rohit I.J., Dev Anand M.	Mechanical strength prediction of TIG welded stainless steel 304 using grey RSM	2017	International Journal of Mechanical Engineering and Technology	3	Noorul Islam Centre for Higher Education	3
Jerold Jose P., Dev Anand M.	Prediction and optimization of weld bead geometry of pulsed gas tungsten arc welded inconel 718 alloy using RSM	2017	International Journal of Mechanical Engineering and Technology		Noorul Islam Centre for Higher Education	
Anitha Janet Mary S., Padma Suresh L.	Optimization of PID controller for a nonlinear MIMO system and comparative performance analysis	2017	International Journal of Mechanical Engineering and Technology	1	Noorul Islam Centre for Higher Education	1
Suresh A., Flower Queen M.P., Tibbie Pon Symon V.A., Linsely A.	Control and stabilization of an inverted pendulum using ga based controller	2017	International Journal of Mechanical Engineering and		Noorul Islam Centre for Higher	

			Technology		Education	
Rajesh Prabha N., Edwin Raja Dhas J.	Design optimization of surface roughness by turning process using response surface methodology and grey relational analysis	2017	International Journal of Mechanical Engineering and Technology	4	Noorul Islam Centre for Higher Education	4
Athipathi G., Nagan S., Baskaran T.	Mission zero fatality in India	2017	International Journal of Civil Engineering and Technology		Noorul Islam Centre for Higher Education	
Eqbert K., Dev Anand M.	Development of reducing boil off losses in LNG transportation using polyamide as supporting material	2017	International Journal of Civil Engineering and Technology	2	Noorul Islam Centre for Higher Education	2
Dhanya J.S., Kinslin D.	Work life balance of employees at Hindustan lever limited, Trivandrum	2017	International Journal of Applied Business and Economic Research		Noorul Islam Centre for Higher Education	
Abhilash K.S., Dharun V.S.	Method to remove the noisy data DROM captured image of iris and identifying the pupil by detecting its centroid	2017	International Journal of Applied Engineering Research		Noorul Islam Centre for Higher Education	
Suneesh E., Sivapragash M., Silan T.S.	Mechanical performance of magnesium composites containing hybrid Al ₂ O ₃ reinforcement	2017	International Journal of Civil Engineering and Technology	3	Noorul Islam Centre for Higher Education	3
John J.K., Siva Balan R.V.	Priority queuing technique promoting deadline sensitive data transfers in router based heterogeneous networks	2017	International Journal of Applied Engineering Research	5	Noorul Islam Centre for Higher Education	5
Gopalakrishnan V., Velkennedy R.	Effects of WTP sludge dosage and paddle speed on the removal of suspended particulate matter in municipal waste water	2017	International Journal of Civil Engineering and Technology	6	Noorul Islam Centre for Higher Education	6
Suneesh E., Sivapragash M., Silan T.S.	Compressive and impact responses of magnesium/alumina composites	2017	International Journal of Civil Engineering and Technology	3	Noorul Islam Centre for Higher Education	3
Senthil	Investigation of temperature	2017	International		Noorul	

Anbazhagan A.M., Dev Anand M.	distribution on combined pressure vessel column		Journal of Civil Engineering and Technology		Islam Centre for Higher Education	
Venish A., Sivasankar K.	An efficient inline data deduplication with data relationship manager for cloud storage	2017	International Journal of Applied Engineering Research	1	Noorul Islam Centre for Higher Education	1
Anandan S., Rajesh R., Ganesh K.	Evaluation through quality function deployment and analytic hierarchy process for selecting the tube material in heat exchangers at nuclear power plants	2017	International Journal of Enterprise Network Management	1	Noorul Islam Centre for Higher Education	1
Sowmy I., Jayakumari J.	An efficient radon mapped discrete wavelet transform- based algorithm for MC- CDMA system	2017	International Journal of Enterprise Network Management		Noorul Islam Centre for Higher Education	
Mini G., Viji K.S.A.	A comprehensive cloud security model with enhanced key management, access control and data anonymization features	2017	International Journal of Communication Networks and Information Security	5	Noorul Islam Centre for Higher Education	5
Ramanan G., Neela Rajan R.R., Diju Samuel G., Edwin Raja Dhas J., Rajesh Prabha N., Pradeep P.	Multiple response characteristics optimization of weld parameters for AA7075 composites by response surface grey relative analysis	2017	International Journal of Mechanical Engineering and Technology	5	Noorul Islam Centre for Higher Education	5
Vadivu Vijayaraghavan I., Siva Sankar K.	SuVa security framework for cloud migration	2017	Journal of Advanced Research in Dynamical and Control Systems		Noorul Islam Centre for Higher Education	
Pranesh Kumar R., Bindhu V.S.	An eco-feminist outlook in the selected works of Anita Desai	2017	Man in India		Noorul Islam Centre for Higher Education	
Mathai P.P., Siva Balan R.V., Babu I.	An efficient approach for item set mining using both utility and frequency based methods	2017	International Journal of Applied Engineering Research	3	Noorul Islam Centre for Higher Education	3

Joseph S.M., Dhanaraj C.J., Joseph J., Joseyphus R.S.	Synthesis, spectral characterization and anticancer studies of some metal(II) complexes derived from imidazole-2-carboxaldehyde with 2-amino-3-carboxyethyl-4,5-dimethylthiophene	2017	Oriental Journal of Chemistry		Noorul Islam Centre for Higher Education	
Gopakumar R., Rajesh R.	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	2017	International Journal of Civil Engineering and Technology	7	Noorul Islam Centre for Higher Education	7
Allwin D., Ganesan M.	Delineation of permeable zone for effective desilting of Irrigation Tank to enhance the recharge capacity	2017	Pollution Research		Noorul Islam Centre for Higher Education	
Liji R.F., Sedan K.J., Rajesh R., Pugazhendhi S.	RSM and anova: An approach for selection of process parameters of edm of aluminium titanium diboride (al-Tib2)	2017	International Journal of Civil Engineering and Technology	2	Noorul Islam Centre for Higher Education	2
Rajesh Prabha N., Edwin Raja Dhas J.	Effect of TiC and MOS2 reinforced aluminium metal matrix composites on microstructure and thermogravimetric analysis	2017	Rasayan Journal of Chemistry	6	Noorul Islam Centre for Higher Education	6
Nithila E.E., Kumar S.S.	Automatic detection of solitary pulmonary nodules using swarm intelligence optimized neural networks on CT images	2017	Engineering Science and Technology, an International Journal	25	Noorul Islam Centre for Higher Education	25
Bai V.M.A., Manimegalai D.	Analysis of feature selection measures for text categorisation	2017	International Journal of Enterprise Network Management	1	Noorul Islam Centre for Higher Education	1
Priya B.S.D., Enoch S.	Maximising energy efficiency using data aggregation in sensor networks	2017	International Journal of Enterprise Network Management		Noorul Islam Centre for Higher Education	
Jagatheeswari R., Bilcah Bobby C.,	A theoretical analysis of wireless localisation	2017	International Journal of		Noorul Islam	

Maheswaran C.P.	scamming attacks using silence mechanism		Enterprise Network Management		Centre for Higher Education	
Jayakumari J., Jane Sofia J.	FPGA implementation of concatenated LT and LDPC coder for deep space applications	2017	Far East Journal of Electronics and Communications		Noorul Islam Centre for Higher Education	
Ajaypraveenkumar A., Ganapathi Raman R., Sebastian S.	Geometrical structure, vibrational spectra, NLO, NBO, electronic transitions and thermo dynamical analysis of 5-fluoro-2-methylbenzonitrile by DFT computational method	2017	Springer Proceedings in Physics	3	Noorul Islam Centre for Higher Education	3
Subash T., Vincent P., Sathya Prabha K.	Stabilization mechanism for soil by using lime and rice husk ash as binding agents in erosion prone zone - A case study	2017	International Journal of Civil Engineering and Technology	4	Noorul Islam Centre for Higher Education	4
Ramanan G., Edwin Raja Dhas J., Rajesh Prabha N., Shanavas S.	Multi objective optimization of machining parameters for AA7075 metal matrix composite using grey - Fuzzy technique	2017	International Journal of Applied Engineering Research	6	Noorul Islam Centre for Higher Education	6
Thompson F., Jeyakumar M.K.	Vector based classification of dermoscopic images using SURF	2017	International Journal of Applied Engineering Research	3	Noorul Islam Centre for Higher Education	3
Samuel G.D., Dhas J.E.R.	Multi-objective optimization of friction stir welded dissimilar aluminium composites using grey analysis	2017	International Journal of Applied Engineering Research	3	Noorul Islam Centre for Higher Education	3
Prakash A.J., Christopher A.F.	Hazy video denoising using an enhanced visibility restoration technique	2017	Man in India		Noorul Islam Centre for Higher Education	
Dhanya J.S., Kinslin D.	A study on work life balance of women employees at ULCCS Ltd, Kozhikode	2017	International Journal of Applied Business and Economic Research	6	Noorul Islam Centre for Higher Education	6
Dhanya J.S., Kinslin D.	Clair model for better work life balance and	2017	International Journal of Applied	6	Noorul Islam	6

	empowerment of women faculty in professional colleges of Kerala		Business and Economic Research		Centre for Higher Education	
Dhanya J.S., Kinslin D.	A study on impact of work life balance on retention of women teachers in management colleges in Kerala	2017	International Journal of Applied Business and Economic Research	6	Noorul Islam Centre for Higher Education	6
Shijin Kumar P.S., Dharun V.S.	Combination of fuzzy c-means clustering and texture pattern matrix for brain MRI segmentation	2017	Biomedical Research (India)	2	Noorul Islam Centre for Higher Education	2
Ananthanarayanan B., Balan S., Balamurali A.M., Balamurali K.	Efficient dissemination of rainfall forecasting to safeguard farmers from crop failure using optimized neural network model	2017	International Journal of Intelligent Engineering and Systems	1	Noorul Islam Centre for Higher Education	1
Brightlin B.C., Balamurugan S.	Magnetic, Micro-structural, and Optical Properties of Hexaferrite, BaFe ₁₂ O ₁₉ Materials Synthesized by Salt Flux-Assisted Method	2017	Journal of Superconductivity and Novel Magnetism	13	Noorul Islam Centre for Higher Education	13

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

Authors	Title	Year	Source title	H-index	Number of citations excluding self citations	Institutional affiliation as mentioned in the publication
Rajan J G., Ganesh R.S.	Review of Recent Strategies in Cryptography-Steganography Based Security Techniques	2018	2018 International Conference on Circuits and Systems in Digital Enterprise Technology, ICCSDET 2018		5	Noorul Islam Centre for Higher Education
Ramanan G., Aaron Raphael Raja F., Samuel K., Diwan V.	Fault recognition and isolation scheme for spacecraft propulsion system	2018	Proceedings of the International Conference on Smart Systems and Inventive Technology, ICSSIT 2018		6	Noorul Islam Centre for Higher Education
Subash, Jones Retnam B.S., Raja Dhas J.E.	Development and characterization of silk/bamboo/glass nano polymer composites	2018	International Journal of Mechanical and Production Engineering Research and Development		0	Noorul Islam Centre for Higher Education
Pradeep P., Dhas J.E.R.	Effect of alkali treatment and nano filler addition on properties of palm/glass fiber reinforced polymer composite	2018	Indian Journal of Engineering and Materials Sciences	31	2	Noorul Islam Centre for Higher Education
John K., Vinod Kumar R.S., Kumar S.S.	Performance Comparison of Explicit Pulsed Flip-Flops in Low Power and High-Speed Applications	2018	2018 International Conference on Circuits and Systems in Digital Enterprise Technology, ICCSDET 2018	0	3	Noorul Islam Centre for Higher Education
Sajitha A.V.,	Enbase: Energy-conscious sla-	2018	International	18	4	Noorul

Subhajini A.C.	oriented dynamic vm consolidation heuristics in green data centres using ant colony system		Journal of Engineering and Advanced Technology			Islam Centre for Higher Education
Joseph J., Jeba J.R.	Noise reduction using character density approach	2018	International Journal of Engineering and Advanced Technology	18	1	Noorul Islam Centre for Higher Education
A.v S., Subhajini A.C.	Network-conscious vm placement for energy efficiency in green data centres through dynamic vm consolidation	2018	International Journal of Engineering and Advanced Technology	18	0	Noorul Islam Centre for Higher Education
Sasikala T.S., Sankar K.S.	Unimodal biometric based security application by exploiting retina	2018	International Journal of Engineering and Advanced Technology	18	4	Noorul Islam Centre for Higher Education
Alan Gowri Phivin V., Subhajini A.C.	Reliable cbir system for fabric images based on nsct and ldp features	2018	International Journal of Engineering and Advanced Technology	18	0	Noorul Islam Centre for Higher Education
Sivamalar C., Nalanth N., Shijumon V., Shalini J.	Use of recycled brick aggregates in self compcting concrete	2018	International Journal of Civil Engineering and Technology	23	2	Noorul Islam Centre for Higher Education
Mathews A.B., Jeyakumar M.K.	Performance analysis of machine learning based classifiers for the diagnosis of lung cancer & comparison	2018	Indian Journal of Public Health Research and Development	12	2	Noorul Islam Centre for Higher Education
Rajesh Prabha N., Ramanan G., Neela Rajan R.R., Ponsuthir Sajan S.	Wear characteristics of titanium carbides and MOS 2 reinforced aluminium hybrid composites	2018	International Journal of Mechanical and Production Engineering Research and Development	18	4	Noorul Islam Centre for Higher Education
Centhil Kumar C., Raglend I.J.	A novel crow search based strategy for maximum power point tracking of wind turbines driven by doubly fed induction generator	2018	International Journal of Simulation: Systems, Science and Technology	22	8	Noorul Islam Centre for Higher Education
Jayamohan S.,	A novel adaptive marginalized	2018	International	22	1	Noorul

Nagarajan S., Kadarkaraiyandi R.	particle filter for mixed linear / nonlinear state-space models		Journal of Simulation: Systems, Science and Technology			Islam Centre for Higher Education
Aslam Y., Santhi N., Ramasamy N., Ramar K.	An effective surface defect detection method using adaptive thresholding fused with PSO algorithm	2018	International Journal of Simulation: Systems, Science and Technology	22	5	Noorul Islam Centre for Higher Education
Dalmiya C.P., Santhi N., Sathyabama B.	Semi-supervised change detection method using phase congruency and local binary pattern (PC-LBP)	2018	International Journal of Simulation: Systems, Science and Technology	22	1	Noorul Islam Centre for Higher Education
Shalini J., Ravikumar M.S., Nalanth N., Kannan S.U.	Effective utilization of plastic waste material in the production of environmental friendly concrete	2018	International Journal of Civil Engineering and Technology	23	3	Noorul Islam Centre for Higher Education
Rema R., Nalanth N., Vincent P., Janardhanan K.A.	Review on the current construction and demolition waste management framework	2018	International Journal of Civil Engineering and Technology	23	1	Noorul Islam Centre for Higher Education
Thomas R., Sucharitha M.	A robust image watermarking system based on EDWT and SVD	2018	ARNP Journal of Engineering and Applied Sciences	10	2	Noorul Islam Centre for Higher Education
Venifa Mini G., Angel Viji K.S.	Emerging Access Control Techniques in Cloud Computing: A Survey	2018	Proceedings of the 2nd International Conference on Trends in Electronics and Informatics, ICOEI 2018		4	Noorul Islam Centre for Higher Education
Padhmakumar P.K., Flower Queen M.P., Babu Aurtherson P.	Three dimensional space vector modulation for three phase four leg inverters - A review	2018	2018 International Conference on Emerging Trends and Innovations In Engineering And Technological Research, ICETIETR 2018		1	Noorul Islam Centre for Higher Education

Athira Lekshmi B.A., Flower Queen M.P., Arul Linsely J., Babu Aurtherson P.	Feature extraction and image classification using particle swarm optimization by evolving rotationinvariant image descriptors	2018	2018 International Conference on Emerging Trends and Innovations In Engineering And Technological Research, ICETIETR 2018		1	Noorul Islam Centre for Higher Education
Austine A., Pramila R.S.	A Review on Recent Research Directions in Device to Device Communication	2018	Proceedings of the 3rd International Conference on Inventive Computation Technologies, ICICT 2018		0	Noorul Islam Centre for Higher Education
Daniel N., Anitha A.	A Study on Recent Trends in Face Spoofing Detection Techniques	2018	Proceedings of the 3rd International Conference on Inventive Computation 5Technologies, ICICT 2018		4	Noorul Islam Centre for Higher Education
Darsan R.S., Jones Retnam B.S., Sivapragash M.	Mechanical and water absorption of injection moulded pineapple leaf fiber reinforced polylactic acid composites	2018	International Journal of Mechanical Engineering and Technology		1	Noorul Islam Centre for Higher Education
Ramachandran S.	Sufficient conditions for the nda-reconstructibility of all digraphs	2018	Utilitas Mathematica	29	6	Noorul Islam Centre for Higher Education
Mathews A.B., Jeyakumar M.K.	An efficient mode detection technique of pulmonary nodule in lung cancer	2018	International Journal of Pharmaceutical Research	10	2	Noorul Islam Centre for Higher Education
Sunil J., Kumar M.S.R.	Effect of supplementary cementitious materials on the strength of concrete and hollow concrete blocks	2018	International Journal of Civil Engineering and Technology	23	8	Noorul Islam Centre for Higher Education
Gayathri A.R.,	Cuttlefish optimization control	2018	International	14	1	Noorul

Mary Synthia Regis Prabha D.M.	of solar PV array fed landsman converter		Journal of Pharmaceutical Research			Islam Centre for Higher Education
Jayamohan S., Nagarajan S., Kadarkaraiyandi R.	Measurement noise analysis of marginalized particle filter for target tracking applications	2018	International Journal of Simulation: Systems, Science and Technology	22	2	Noorul Islam Centre for Higher Education
Vijayakumar S., Morvin Yabesh J.E., Arulmozhi P., Praseetha P.K.	Identification and isolation of antimicrobial compounds from the flower extract of Hibiscus rosa-sinensis L: In silico and in vitro approaches	2018	Microbial Pathogenesis	71	15	Noorul Islam Centre for Higher Education
Skariya P.D., Satheesh M., Dhas J.E.R.	Optimizing parameters of TIG welding process using grey wolf optimization concerning 15CDV6 steel	2018	Evolutionary Intelligence	26	0	Noorul Islam Centre for Higher Education
Suneesh E., Sivapragash M.	Comprehensive studies on processing and characterization of hybrid magnesium composites	2018	Materials and Manufacturing Processes	66	12	Noorul Islam Centre for Higher Education
Shameer A.P., Subhajini A.C.	Throughput Maximization on Efficient Load Balancing in Cloud Task Scheduling Using Enhanced Bee Colony Algorithm	2018	International Conference on Current Trends in Computer, Electrical, Electronics and Communication, CTCEEC 2017		2	Noorul Islam Centre for Higher Education
Ramachandran S.	Neighborhood degrees associated reconstruction of digraphs for Ulam's conjecture	2018	Utilitas Mathematica	29	3	Noorul Islam Centre for Higher Education
Arun M.P., Satheesh M., Edwin Raja Dhas J.	Fluid-structure interaction of cropped delta wing with experimental validation	2018	International Journal of Mechanical and Production Engineering Research and Development	18	1	Noorul Islam Centre for Higher Education
Skariya P.D., Satheesh M., Dhas E.R., Suneesh E.	Experimental investigation of pftig welding process on 15CDV6 steel using	2018	International Journal of Mechanical and		2	Noorul Islam Centre for

	nanopowders		Production Engineering Research and Development			Higher Education
Shalini J., Ravikumar M.S., Nalanth N., Janardhanan K.A.	Behavior of plastic aggregates in ecofriendly concrete	2018	International Journal of Civil Engineering and Technology		4	Noorul Islam Centre for Higher Education
Ibrahim S., Mehta R.C.	Design and analysis of air flow depression for air-conditioning in small passenger cabin using solid works	2018	International Journal of Mechanical and Production Engineering Research and Development		6	Noorul Islam Centre for Higher Education
Aniber Benin M., Stanly Jones Retnam B., Edwin Sahayaraj M.	Mechanical behaviour of processed PP/PVC laminates	2018	International Journal of Mechanical Engineering and Technology	25	0	Noorul Islam Centre for Higher Education
Tom G., Philip S., Isaac R., Praseetha P.K., Jiji S.G., Asha V.V.	Preparation of an efficient and safe polymeric-magnetic nanoparticle delivery system for sorafenib in hepatocellular carcinoma	2018	Life Sciences	42	8	Noorul Islam Centre for Higher Education
Benita J., Jayaparvathy R.	Block Allocation Strategy for Multiple Input Multiple Output (MIMO)–Orthogonal Frequency Division Multiple Access (OFDMA) System	2018	Wireless Personal Communications	52		Noorul Islam Centre for Higher Education
Vijayakumar S., Mahadevan S., Arulmozhi P., Sriram S., Praseetha P.K.	Green synthesis of zinc oxide nanoparticles using Atalantia monophylla leaf extracts: Characterization and antimicrobial analysis	2018	Materials Science in Semiconductor Processing	47	46	Noorul Islam Centre for Higher Education
Uma Samundesvari K., Michael S.G.	Monophonic wirelength on Circulant Networks	2018	International Journal of Engineering and Technology(UAE)	30	10	Noorul Islam Centre for Higher Education
Thaya Kumari C.R., Nageshwari M., Raman R.G., Caroline M.L.	Crystal growth, spectroscopic, DFT computational and third harmonic generation studies of nicotinic acid	2018	Journal of Molecular Structure	103	16	Noorul Islam Centre for Higher Education
Eacherath S.,	Synthesis and characterization	2018	International	45	6	Noorul

Murugesan S.	of magnesium-based hybrid composites – A review		Journal of Materials Research			Islam Centre for Higher Education
Skariya P.D., Satheesh M., Dhas E.R., Suneesh E.	A study on pftig welding process for the improvement of mechanical properties	2018	International Journal of Mechanical Engineering and Technology	30	0	Noorul Islam Centre for Higher Education
Bino Prince Raja D., Retnam B.S.J., Antony Samuel Prabu G., Alagu Sundaram A.	Mechanical, morphological and thermal characterization of hybrid bamboo/glass fiber reinforced polyester composites	2018	Rasayan Journal of Chemistry	26	7	Noorul Islam Centre for Higher Education
Faseela C.K., Vennila H.	Economic and emission dispatch using Whale Optimization Algorithm (WOA)	2018	International Journal of Electrical and Computer Engineering	24	7	Noorul Islam Centre for Higher Education
Nair S.K., Chandrachoodan Nair B.	Key drivers & factors influencing organized retail sector in KERALA	2018	International Journal of Mechanical Engineering and Technology	20	3	Noorul Islam Centre for Higher Education
Pradeep S., Nair C.	Impact of social media on consumer buying decision towards financial assets among it professionals at kerala	2018	International Journal of Mechanical Engineering and Technology	20	1	Noorul Islam Centre for Higher Education
Prasoon P.P., Kumar M.S.R., Vaisakh G.	Experimental investigation on effect of partial replacement of coarse aggregate by plastic aggregate on M 40 grade self compacting concrete	2018	International Journal of Civil Engineering and Technology	23		Noorul Islam Centre for Higher Education
Sivapragash M., Kumaradhas P., Vettivel S.C., Retnam B.S.J.	Optimization of PVD process parameter for coating AZ91D magnesium alloy by Taguchi grey approach	2018	Journal of Magnesium and Alloys	52	6	Noorul Islam Centre for Higher Education
Pradeep S., Chandrachoodan Nair B.	Perceived financial literacy and savings behavior of it professionals in Kerala	2018	International Journal of Mechanical Engineering and Technology	20	2	Noorul Islam Centre for Higher Education
Vaisakh G., Kumar M.S.R., Bala P.S.	An experimental study on properties of M50 concrete cured using PEG 400	2018	International Journal of Civil Engineering and	26	2	Noorul Islam Centre for

			Technology			Higher Education
Abdhul K., Sakthinarayanan K., Murugan M.	Isolation and identification of <i>Serratia marcescens</i> NASC 1 and optimization of its chitinase production	2018	Journal of Pharmaceutical Sciences and Research	22	0	Noorul Islam Centre for Higher Education
Vaisakh G., Ravi Kumar M.S., Siva Bala P.	An experimental study on impact of molecular weight of peg on properties of m25 grade self curing concrete	2018	International Journal of Civil Engineering and Technology	23	6	Noorul Islam Centre for Higher Education
Balakrishnan N., Rajesh R.	Fabrication and analysis of 304 stainless steel boron carbide metal matrix composite	2018	International Journal of Mechanical Engineering and Technology	30	8	Noorul Islam Centre for Higher Education
Siva Bala P., Ravi Kumar M.S., Vaisakh G.	Experimental investigation on feasibility of self compacting concrete in the manufacture of prefabricated compression elements	2018	International Journal of Civil Engineering and Technology	23	10	Noorul Islam Centre for Higher Education
Siva Bala P., Ravi Kumar M.S., Vaisakh G.	Effect of self-compacting concrete in hollow compression members	2018	International Journal of Civil Engineering and Technology	23	4	Noorul Islam Centre for Higher Education
Selvan Nambi S., Joselin Herbert G.M.	Manufacturing of proto type wind turbine blades using rapid prototype technology	2018	International Journal of Mechanical and Production Engineering Research and Development	25	1	Noorul Islam Centre for Higher Education
5Chandrakala K., Jayakumari J.	An efficient hierarchical modulation based OFDM transmission scheme for digital video broadcasting	2018	International Journal of Engineering, Transactions B: Applications	40	2	Noorul Islam Centre for Higher Education
Nambi S.S., Herbert G.M.J.	Design and analysis of wind turbine blades	2018	International Journal of Mechanical Engineering and Technology	30	1	Noorul Islam Centre for Higher Education
Raja A., Ashokkumar S., Pavithra	Eco-friendly preparation of zinc oxide nanoparticles using <i>Tabernaemontana divaricata</i>	2018	Journal of Photochemistry and Photobiology	116	14	Noorul Islam Centre for

Marthandam R., Jayachandiran J., Khatiwada C.P., Kaviyarasu K., Ganapathi Raman R., Swaminathan M.	and its photocatalytic and antimicrobial activity		B: Biology			Higher Education
Bindhu B., Renisha R., Roberts L., Varghese T.O.	Boron Nitride reinforced polylactic acid composites film for packaging: Preparation and properties	2018	Polymer Testing	98	13	Noorul Islam Centre for Higher Education
Edwin Raja Dhas J., Pradeep P., Akhil S., Daniel King S.	Mechanical characteristics of sandwich palm/glass based polymer composite	2018	IEEE International Conference on Circuits and Systems, ICCS 2017			Noorul Islam Centre for Higher Education
Dhanya R., Selvi R.K.	A state of the art review on copy move forgery detection techniques	2018	IEEE International Conference on Circuits and Systems, ICCS 2017		1	Noorul Islam Centre for Higher Education
Dheena P.P.F., Raj G.S., Dutt G., Jinny S.V.	IOT based smart street light management system	2018	IEEE International Conference on Circuits and Systems, ICCS 2017		28	Noorul Islam Centre for Higher Education
Rakesh S., Grace K.S.V.	A survey on the design and performance of various MAC unit architectures	2018	IEEE International Conference on Circuits and Systems, ICCS 2017		9	Noorul Islam Centre for Higher Education
Preetha R., Jinny S.V.	Margin based feature selection: An algorithmic approach for a set of attributes extrication	2018	IEEE International Conference on Circuits and Systems, ICCS 2017			Noorul Islam Centre for Higher Education
Rajeswari S., Kalaiselvi R.	Survey of data and storage security in cloud computing	2018	IEEE International Conference on Circuits and Systems, ICCS 2017		7	Noorul Islam Centre for Higher Education
Mavelly A.G., Judith J.E., Sahal P.A., Kuruvilla S.A.	Eye gaze tracking based driver monitoring system	2018	IEEE International Conference on Circuits and Systems, ICCS 2017		7	Noorul Islam Centre for Higher Education

Daphni S., Grace K.S.V.	A review analysis of parallel prefix adders for better performance in VLSI applications	2018	IEEE International Conference on Circuits and Systems, ICCS 2017		9	Noorul Islam Centre for Higher Education
Jalin A.F., Jayakumari J.	Text to speech synthesis system for Tamil using HMM	2018	IEEE International Conference on Circuits and Systems, ICCS 2017		5	Noorul Islam Centre for Higher Education
Abdulla S.M., Jayakumari J.	DUET using automatic peak detection and histogram thresholding	2018	IEEE International Conference on Circuits and Systems, ICCS 2017			Noorul Islam Centre for Higher Education
Das M.K., Kumar P.M., Anitha A.	ORBOT - An efficient & intelligent mono copter	2018	IEEE International Conference on Circuits and Systems, ICCS 2017			Noorul Islam Centre for Higher Education
Sumi M.S., Ganesh R.S.	Performance enhancing techniques in cognitive radio networks	2018	IEEE International Conference on Circuits and Systems, ICCS 2017		3	Noorul Islam Centre for Higher Education
Ajith Raj R., Dev Anand M.	A survey on future research about electron beam welding for aerospace applications	2018	China Welding (English Edition)		1	Noorul Islam Centre for Higher Education
Ramadas G., Sankar A.S.S., Sugathan N.V.	The scientific communication process in homoeopathic toxicology: An evaluative study	2018	Innovations in Measuring and Evaluating Scientific Information			Noorul Islam Centre for Higher Education
Vijayakumar M., Stephen S.L., Mary A.L.	A scientometric profile of Vikram Sarabhai Space Center (VSSC) based on scopus database	2018	Innovations in Measuring and Evaluating Scientific Information			Noorul Islam Centre for Higher Education
Joy R.P., Dheeba J.	IPS packet scheduling scheme for wireless sensor networks	2018	Proceedings of IEEE International Conference on Signal Processing and Communication, ICSPC 2017		2	Noorul Islam Centre for Higher Education

Ajith Raj R., Dev Anand M.	Microstructural evaluation and tensile characterization of electron beam welded dissimilar metal joints of copper and Stainless Steel 304	2018	International Journal of Mechanical Engineering and Technology	22	3	Noorul Islam Centre for Higher Education
Cincy W.C., Jeba J.R.	A method of A-BAT algorithm based query optimization for crowd sourcing system	2018	International Journal of Intelligent Systems and Applications	17	1	Noorul Islam Centre for Higher Education
Balamurugan S., Sana Fathima T.K., Veluraja K.	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	2018	Journal of Alloys and Compounds	172	1	Noorul Islam Centre for Higher Education
Auguskani P.L., Devi V.S., Raju A.D.J., Priya J.M.J., Beno M.M.	Risk reduction using grievance handling mechanism in handloom industry	2018	IEEE International Conference on Industrial Engineering and Engineering Management			Noorul Islam Centre for Higher Education
Menon J., Ravikumar M.S.	Strength evaluation of laterite soil stabilized using polymer fibers	2018	International Journal of Civil Engineering and Technology	23	2	Noorul Islam Centre for Higher Education
Sunil J., Kumar M.S.R.	Effect of fibres on the compressive strength of hollow concrete blocks	2018	International Journal of Civil Engineering and Technology	23	1	Noorul Islam Centre for Higher Education
Girijadevi L.T., Bino Prince Raja D., Prabhu A.S.	An approach for rational design and structural analysis of a hexa-copter	2018	International Journal of Mechanical and Production Engineering Research and Development	20		Noorul Islam Centre for Higher Education
Darwins A.K., Satheesh M., Ramanan G.	Experimental analysis of friction stir welding of dissimilar alloys AA7075 and mg ZE42 using butt joint geometry	2018	International Journal of Mechanical and Production Engineering Research and	20	2	Noorul Islam Centre for Higher Education

			Development			
Brindha T., Shaji R.S.	A secure transaction of cloud data using conditional source trust attributes encryption mechanism	2018	Soft Computing	54	6	Noorul Islam Centre for Higher Education
Varghese S., Vigila S.M.C.	A varied approach to attribute based access model for secure storage in cloud	2018	Proceedings of 2017 International Conference on Innovations in Information, Embedded and Communication Systems, ICIIECS 2017		2	Noorul Islam Centre for Higher Education
Skariya P.D., Satheesh M., Edwin Raja Dhas J., Chandrasekar G.	Response surface methodology assisted multi-objective optimization of TIG process for 15CDV6 steel	2018	Control and Cybernetics	36		Noorul Islam Centre for Higher Education
Jasim M., Brindha T.	A study on spinal cord segmentation techniques	2018	Control and Cybernetics	48		Noorul Islam Centre for Higher Education
Sajitha A.V., Subhajini A.C.	Dynamic VM consolidation enhancement for designing and evaluation of energy efficiency in green data centers using regression analysis	2018	International Journal of Engineering and Technology(UAE)	20		Noorul Islam Centre for Higher Education
Pradeep K.M., Edmund Christopher S., Kinslin D.	Management Education in Kerala-impact on employability	2018	International Journal of Engineering and Technology(UAE)	20		Noorul Islam Centre for Higher Education
Sajan P.P., Kumar S.S.	GVF snake algorithm-a parallel approach	2018	International Journal of Engineering and Technology(UAE)	20		Noorul Islam Centre for Higher Education
Seelan L.J., Suresh P.	Lung Lesion enhancement using adaptive median filter with curvelet transform	2018	International Journal of Engineering and Technology(UAE)	20		Noorul Islam Centre for Higher Education
Thebiga M., Suji	Queue based energy efficient	2018	International	20		Noorul

Pramila R.	routing with dynamic resource allocation in mobile adhoc networks		Journal of Engineering and Technology(UAE)			Islam Centre for Higher Education
Albi, Dev Anand M., Joselin Herbert G.M.	Aerodynamic analysis on wind turbine aerofoil	2018	International Journal of Engineering and Technology(UAE)	20		Noorul Islam Centre for Higher Education
Pradeep K.M., Edmund Christopher S.	Business schools in Kerala- Impact on employability	2018	International Journal of Engineering and Technology(UAE)			Noorul Islam Centre for Higher Education
Sreekanth S., Felix Joseph X.	Photovoltaic system under uneven light condition and variable load with modified incremental resistance algorithm	2018	International Journal of Engineering and Technology(UAE)	20		Noorul Islam Centre for Higher Education
Neela Rajan R.R., Bino Prince Raja D., Ramanan G., Muthu Sherin S.	Buckling analysis of stiffened panels under Fuselage bending	2018	International Journal of Engineering and Technology(UAE)	20	1	Noorul Islam Centre for Higher Education
Nair S.K., Chandrachoodan Nair B.	Employee engagement practices in organized retail sector: An empirical study with respect to Ernakulam Town	2018	International Journal of Engineering and Technology(UAE)	20		Noorul Islam Centre for Higher Education
Jerold Jose P., Dev Anand M.	Comprehensive analysis of TIG Welded Inconel-718 alloy for different heat input conditions	2018	International Journal of Engineering and Technology(UAE)	20		Noorul Islam Centre for Higher Education
Felix Stephen S., Jacob Raglend I.	Voltage regulation using STATCOM with PI and adaptive PI controls	2018	International Journal of Engineering and Technology(UAE)	20	1	Noorul Islam Centre for Higher Education
Nithin S.S., Padma Suresh L.	Video coding using different wavelets and modified SPIHT: A relative approach	2018	International Journal of Engineering and Technology(UAE)	20		Noorul Islam Centre for Higher Education
Ajith Raj R., Dev Anand M.	Modeling and prediction of mechanical strength in Electron Beam Welded	2018	International Journal of Engineering and	20		Noorul Islam Centre for

	dissimilar metal joints of stainless steel 304 and Copper using Grey Relation Analysis		Technology(UAE)			Higher Education
Sarath D., Sucharitha M.	A study study on image retrieval based on tetrolet transform	2018	International Journal of Engineering and Technology(UAE)	20	1	Noorul Islam Centre for Higher Education
Ramanan G., Rajesh Prabha N., Diju Samuel G., Jai Aultrin K.S., Ramachandran M.	Prediction of machining characteristics of hybrid composites using response surface methodology approach	2018	International Journal of Engineering and Technology(UAE)	20	5	Noorul Islam Centre for Higher Education
Thebiga M., Suji Pramila R.	A survey to monitor and defend against blackhole attacks in mobile adhoc networks	2018	International Journal of Engineering and Technology(UAE)	20	1	Noorul Islam Centre for Higher Education
Anjali Krishna R., Padmasuresh L., Muthukumar P.	Genetic algorithm based 15 level multilevel inverter with SHE PWM	2018	International Journal of Engineering and Technology(UAE)	20	8	Noorul Islam Centre for Higher Education
Misbha D.S., Jeba J.R.	Comparison of RECSS algorithm with EARH and cuckoo search algorithm	2018	Journal of Advanced Research in Dynamical and Control Systems	28		Noorul Islam Centre for Higher Education
Delbio A., Ilankumaran M.	Theories, techniques, methods and approaches of second language acquisition: A psychological perspective	2018	International Journal of Engineering and Technology(UAE)	20	10	Noorul Islam Centre for Higher Education
Nithin S.S., Padma L., Suresh N.S.	Wavelet based Video compression using various encoding techniques: A relative study	2018	International Journal of Engineering and Technology(UAE)	20	1	Noorul Islam Centre for Higher Education
Jeya Gowri K., Ilankumaran M.	Application of theories, techniques, methods and approaches to develop second language skills-a study based on transition from schooling to college	2018	International Journal of Engineering and Technology(UAE)	20	10	Noorul Islam Centre for Higher Education
Ilankumaran M., Deepa P.	Teaching literature enhances communication skills - A study with special emphasis on	2018	International Journal of Engineering and	20	10	Noorul Islam Centre for

	poetry		Technology(UAE)			Higher Education
Abilasha R., Ilankumaran M.	English language teaching: Challenges and strategies from the Indian perspective	2018	International Journal of Engineering and Technology(UAE)	20	11	Noorul Islam Centre for Higher Education
Edmund Christopher S., Pradeep K.M.	Gender factor-impact on employability: Special reference to the management students in Kerala	2018	International Journal of Engineering and Technology(UAE)	20	1	Noorul Islam Centre for Higher Education
Heaven Rose R.I., Subajini A.C.	An efficient medical content based image retrieval with lenient relevance feedback	2018	International Journal of Engineering and Technology(UAE)	20	2	Noorul Islam Centre for Higher Education
Shibu K.R., SujiPramila R.	Routing protocol based key management schemes in manet: A survey	2018	International Journal of Engineering and Technology(UAE)	20	2	Noorul Islam Centre for Higher Education
Baby B., Pramila R.S.	Survey on analysis of energy optimization in MANET routing	2018	International Journal of Engineering and Technology(UAE)	20	2	Noorul Islam Centre for Higher Education
Selvarajan T.M., Subramoniam R.	Prime graceful labeling	2018	International Journal of Engineering and Technology(UAE)	20	1	Noorul Islam Centre for Higher Education
Michael S.G., Uma Samundesvari K.	Monophonic wirelength in graph embedding	2018	International Journal of Engineering and Technology(UAE)	20		Noorul Islam Centre for Higher Education
John K., Vinod Kumar R.S., Kumar S.S.	Design of low power and high speed implicit pulse flip-flop and its application	2018	International Journal of Engineering and Technology(UAE)	20	9	Noorul Islam Centre for Higher Education
Ramanan G., Neela Rajan R.R., Jai Aultrin K.S., Pradeep P.	Optimization of machining characteristics of hybrid composites using grey relational technique	2018	International Journal of Engineering and Technology(UAE)	20	1	Noorul Islam Centre for Higher Education

Philipose R.S., Sarasija P.B.	Gutman Index and Harary Index of Unitary Cayley Graphs	2018	International Journal of Engineering and Technology(UAE)	20	5	Noorul Islam Centre for Higher Education
Renu S., Krishna Veni S.H.	An enhanced security tree to secure cloud data	2018	International Journal of Engineering and Technology(UAE)	20	4	Noorul Islam Centre for Higher Education
Rakesh S., Vijula Grace K.S.	Low power multiply accumulate unit based on modified hybrid Han Carlson adder	2018	Progress in Color, Colorants and Coatings	32		Noorul Islam Centre for Higher Education
Bindhu V.S., Mary Synthia Regis Prabha D.M.	Power and power factor control strategies of hybrid energy system using PID controller	2018	Journal of Advanced Research in Dynamical and Control Systems	30		Noorul Islam Centre for Higher Education
Mathews A.B., Jeyakumar M.K.	Enhancement of lung CT images using improved linear iterative clustering for identifying tumor in Juxta vascular region	2018	Journal of Advanced Research in Dynamical and Control Systems	30	2	Noorul Islam Centre for Higher Education
Jayakumari J., Rakhi K.J.	Efficient OFDM transceiver design for VLC systems in fading channel	2018	International Journal of Engineering and Technology(UAE)	23		Noorul Islam Centre for Higher Education
Ramanan G., Neela Rajan R.R., Rajesh Prabha N.	An evaluation of stress intensity factor of fracture model for glass fiber epoxy resin composite	2018	International Journal of Mechanical and Production Engineering Research and Development	20		Noorul Islam Centre for Higher Education
Reeba Rex S., Mary Synthia Regis Praba D.M.	Controller design for boost converter using soft computing techniques based optimization algorithms	2018	Journal of Advanced Research in Dynamical and Control Systems	26		Noorul Islam Centre for Higher Education
Shamsudeen S., Dhas J.E.R.	Optimization of multiple performance characteristics of friction stir welded joint with grey relational analysis	2018	Materials Research	80	10	Noorul Islam Centre for Higher Education

Vimala S.T., Dhas J.P.M.	SDN based DDoS attack detection system by exploiting ensemble classification for cloud computing	2018	International Journal of Intelligent Engineering and Systems	38	1	Noorul Islam Centre for Higher Education
Cherian R.K., Nargunam A.S.	Distributed agent based selective forwarding attack detection and response technique for MANET	2018	Journal of Advanced Research in Dynamical and Control Systems	40		Noorul Islam Centre for Higher Education
Pravin Rose T., Glan Devadhas G.	Design of fractional order PI controller with ABC and BBO algorithm for pH neutralization process using multiple tanks	2018	Journal of Advanced Research in Dynamical and Control Systems	32		Noorul Islam Centre for Higher Education
Beulah S., Dhanaseelan F.R.	Comparative study of de-duplication methods for sensor data in cloud storage	2018	Journal of Computational and Theoretical Nanoscience	44		Noorul Islam Centre for Higher Education
Sruthy S., Babu S.S.	Curve fitting and mesh construction in documents	2018	Journal of Computational and Theoretical Nanoscience	69		Noorul Islam Centre for Higher Education
Gopu P., Dev Anand M., Rajesh R.	Prediction of electrical discharge machining process parameters by artificial neural network based on response surface method	2018	Journal of Advanced Research in Dynamical and Control Systems	25		Noorul Islam Centre for Higher Education
Jai Aultrin K.S., Dev Anand M.	PSO approach on cutting parameters in awjm process for copper iron alloy	2018	Journal of Advanced Research in Dynamical and Control Systems	25		Noorul Islam Centre for Higher Education
Kabila V., Glan Devadhas G.	Action of IMC and pole placement controllers implemented to CSTD process	2018	Journal of Advanced Research in Dynamical and Control Systems	25		Noorul Islam Centre for Higher Education
Samuel Blessed Nayagam P.V., Nargunam A.S.	Trust aware service provisioning scheme for multi cloud environment	2018	Journal of Advanced Research in Dynamical and Control Systems	25		Noorul Islam Centre for Higher Education
Samuel Blessed Nayagam P.V.,	Multilevel authentication scheme for cloud computing	2018	Journal of Advanced	25		Noorul Islam

Nargunam A.S.	platform		Research in Dynamical and Control Systems			Centre for Higher Education
Minimol V.K., Shaji R.S.	MQMS - An Improved Priority Scheduling Model for Body Area Network Enabled M-Health Data Transfer	2018	Communications in Computer and Information Science	28		Noorul Islam Centre for Higher Education
Joneston Dhas J.L., Maria Celestin Vigila S., Ezhil Star C.	Forecasting of Stock Market by Combining Machine Learning and Big Data Analytics	2018	Communications in Computer and Information Science	28	1	Noorul Islam Centre for Higher Education
Anil J., Lekshmi Kanthan P.S., Krishna Veni S.H.	Soft Computing and Face Recognition: A Survey	2018	Communications in Computer and Information Science	20		Noorul Islam Centre for Higher Education
Murali J.A., Brindha T.	Analysis of Scheduling Algorithms in Hadoop	2018	Communications in Computer and Information Science	20		Noorul Islam Centre for Higher Education
Joshi R.V., Chandrashekhara N.	Discrete Time vs Agent Based Techniques for Finding Optimal Radar Scan Rate - A Comparative Analysis	2018	Communications in Computer and Information Science	20	1	Noorul Islam Centre for Higher Education
Briso Becky Bell J., Maria Celestin Vigila S.	Genic Disorder Identification and Protein Analysis Using Soft Computing Methods	2018	Communications in Computer and Information Science	20		Noorul Islam Centre for Higher Education
Pravin Rose T., Scholar R., Islam N., Glan Devadhas G.	Optimization-base design of fractional order pi control for multiple tanks ph neutralization process	2018	Journal of Advanced Research in Dynamical and Control Systems	40	1	Noorul Islam Centre for Higher Education
Ajith Raj R., Dev Anand M.	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	2018	Journal of Advanced Research in Dynamical and Control Systems	35		Noorul Islam Centre for Higher Education
Ajith Raj R., Dev Anand M.	Prediction and error analysis of tensile strength and micro	2018	Journal of Advanced	35		Noorul Islam

	hardness in electron beam welded copper and stainless steel 304 dissimilar metals joint using intelligent techniques		Research in Dynamical and Control Systems			Centre for Higher Education
Ibrahim S., Mehta R.C.	An investigation of air flow and thermal comfort of modified conventional car cabin using computational fluid dynamics	2018	Journal of Applied Fluid Mechanics	48	2	Noorul Islam Centre for Higher Education
Sajitha A.V., Subhajini A.C.	Network-aware VM migration for achieving energy efficient green data centres through dynamic VM consolidation	2018	Journal of Advanced Research in Dynamical and Control Systems	24		Noorul Islam Centre for Higher Education
Mancy L., Vigila S.M.C.	A new diffusion and substitution based cryptosystem for securing medical image applications	2018	International Journal of Electronic Security and Digital Forensics	38	7	Noorul Islam Centre for Higher Education
Ramanan G., Samuel G.D., Sherin S.M., Samuel K.	Modelling and prediction of machining parameters in composite manufacturing using artificial neural network	2018	IOP Conference Series: Materials Science and Engineering		6	Noorul Islam Centre for Higher Education
Darwins A.K., Satheesh M., Ramanan G.	Modelling and optimization of friction stir welding parameters of Mg-ZE42 alloy using grey relational analysis with entropy measurement	2018	IOP Conference Series: Materials Science and Engineering		7	Noorul Islam Centre for Higher Education
Gayathri A.R., Mary Synthia Regis Prabha D.M.	Grey wolf algorithm optimized solar PV array fed Landsman converter	2018	Journal of Advanced Research in Dynamical and Control Systems			Noorul Islam Centre for Higher Education
Centhil Kumar C., Jacob Raglend I.	A MPPT strategy based on cuckoo search for wind energy conversion system	2018	International Journal of Engineering and Technology(UAE)	23	3	Noorul Islam Centre for Higher Education
Parvathy M., Ganesan R.	Throughput enhancement of SISO parallel LTE turbo decoders using floating point turbo decoding algorithm	2018	International Journal of Wireless and Mobile Computing	20	1	Noorul Islam Centre for Higher Education
Kala P.P., Anwar-Samath F.M.	Synthesis and characterization of graphene flakes from	2018	Nano Biomedicine and	68	1	Noorul Islam

	graphite by using biosurfactant - A review		Engineering			Centre for Higher Education
Gopakumar R., Rajesh R.	Fabrication and study of mechanical properties of eco- friendly banana fibre-natural rubber latex composites	2018	International Journal of Environment and Waste Management	38		Noorul Islam Centre for Higher Education
Chacko T., Merlin Thanga Joy A.	Tourism is a multifaceted industry for generating revenue for the government	2018	Journal of Advanced Research in Dynamical and Control Systems	20		Noorul Islam Centre for Higher Education
Jamshak S.H., Dev Anand M., Akshay S.B., Arun S., Prajeev J., Prabhakaran P.	Design and analysis of a plate heat exchanger in the view of performance improvement and cost reduction	2018	International Journal of Engineering and Technology(UAE)	23		Noorul Islam Centre for Higher Education
Senthil Lekha S.L., Kumar S.S.	Selection of suitable supervised classification techniques for the geographic analysis of land using GIS techniques	2018	International Journal of Engineering and Technology(UAE)	23		Noorul Islam Centre for Higher Education
Reeba Rex S., Praba M.S.R.	A speed control of DC motor with PWM using microcontroller in hardware in loop	2018	International Journal of Engineering and Technology(UAE)	23		Noorul Islam Centre for Higher Education
Briso Becky Bell J., Maria Celestin Vigila S.	Gene selection approaches for classifying disease relevant data sample	2018	International Journal of Engineering and Technology(UAE)	23		Noorul Islam Centre for Higher Education
Ramya Ravi R., Vinod Kumar R.S., Shanila N.	Artifacts removal in Melanoma using various preprocessing filters	2018	International Journal of Engineering and Technology(UAE)	23	2	Noorul Islam Centre for Higher Education
Reeba Rex S., Mary Synthia Regis Praba D.M.	Modern optimization based controller design for boost converter using soft computing techniques	2018	Journal of Advanced Research in Dynamical and Control Systems	23	1	Noorul Islam Centre for Higher Education
Mathews A.B., Jeyakumar M.K.	A novel ASNO segmentation technique for segmenting the JUXTA vascular region	2018	International Journal of Engineering and Technology(UAE)	23	1	Noorul Islam Centre for Higher

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Thulasi D.V., Amala Shanthi S.	An optimized approach for evaluation of radiation hazards from mobile tower	2018	Journal of Advanced Research in Dynamical and Control Systems	20	1	Noorul Islam Centre for Higher Education
Beulah S., Ramesh Dhanaseelan F.	An optimal method for duplication detection and elimination from air pollution data of wireless sensor network	2018	International Journal of Environment and Waste Management	22	1	Noorul Islam Centre for Higher Education
Gopalakrishnan T., Rajeesh J., Palanikumar S.	Robust breast cancer detection by utilising the multi-resolution features	2018	International Journal of Signal and Imaging Systems Engineering	28	2	Noorul Islam Centre for Higher Education
Ranjith V.G., Jeyakumar M.K., Palanikumar S.	Multi resolution feature combined with ODBTC technique for robust CBIR system	2018	International Journal of Signal and Imaging Systems Engineering	22	3	Noorul Islam Centre for Higher Education
Shameer A.P., Subhajini A.C.	Improving the task scheduling QOS based on multiple parameters by using MPSO techniques	2018	Journal of Advanced Research in Dynamical and Control Systems	25	1	Noorul Islam Centre for Higher Education
John K., Vinod Kumar R., Kumar S.	Impact of pulse-triggered flip-flops in low power applications	2018	Journal of Advanced Research in Dynamical and Control Systems	20	10	Noorul Islam Centre for Higher Education
Centhil Kumar C., Jacob Raglend I.	MPPT based various control strategies for wind energy conversion system and its reliability-survey	2018	Journal of Advanced Research in Dynamical and Control Systems	30		Noorul Islam Centre for Higher Education
Felix Stephen S., Jacob Raglend I.	PI control of statcom with BAT algorithm	2018	Journal of Advanced Research in Dynamical and Control Systems			Noorul Islam Centre for Higher Education
Misbha D.S., Jeba J.R.	An improved and user-friendly scheduling approach in streaming data warehouses	2018	Journal of Advanced Research in Dynamical and Control Systems	28		Noorul Islam Centre for Higher Education
Priya B.S.D., Enoch	The effect of packet	2018	Journal of	48	1	Noorul

S.	redundancy elimination technique in sensor networks		Computer Science			Islam Centre for Higher Education
Sreekumar K., Bindhu B.	Aqueous Exfoliation of Molybdenum Disulfide Using Ultrasonication	2018	Materials Today: Proceedings	79	3	Noorul Islam Centre for Higher Education
Shanavas S., Dhas J.E.R.	Quality Prediction of Friction Stir Weld Joints on Aa 5052 H32 Aluminium Alloy Using Fuzzy Logic Technique	2018	Materials Today: Proceedings	24	7	Noorul Islam Centre for Higher Education
Sukumaran A., Glan D.G., Kumar S.S.	An improved tumor segmentation algorithm from T2 and FLAIR multimodality MRI brain images by support vector machine and genetic algorithm	2018	Cogent Engineering	50	2	Noorul Islam Centre for Higher Education
Gopakumar R., Rajesh R.	Development and characterisation of eco-friendly 40% v/v Hybrid Banana/Sisal fibers-natural rubber latex composite	2018	Journal of Engineering and Applied Sciences	46		Noorul Islam Centre for Higher Education
Sajitha A.V., Subhajini A.C.	Dynamic VM consolidation enhancement for designing and evaluation of energy efficiency in green data centers using regression analysis	2018	International Journal of Engineering and Technology(UAE)	23	4	Noorul Islam Centre for Higher Education
Ajith Raj R., Dev Anand M.	Modeling and prediction of mechanical strength in Electron Beam Welded Dissimilar metal joints of stainless steel 304 and Copper using Grey relation analysis	2018	International Journal of Engineering and Technology(UAE)	23	4	Noorul Islam Centre for Higher Education
Kumar S., Ganapathi Raman R.	Experimental and theoretical spectroscopic investigations of 4-bromo-3-methylbenzonitrile	2018	Oriental Journal of Chemistry	23		Noorul Islam Centre for Higher Education
Sugirtha Suni N.Y., GURU PRASAd L., Ganapathi Raman R.	Vibrational Analysis and Non Linear Optical Activity of 3-fluoro-4-methylbenzonitrile	2018	Oriental Journal of Chemistry	23		Noorul Islam Centre for Higher Education
Aslam Y., Santhi	A heuristic fuzzy clustering	2018	Journal of	23	4	Noorul

N., Ramasamy N., Ramar K.	approach for defect detection on titanium coated metal surface		Advanced Research in Dynamical and Control Systems			Islam Centre for Higher Education
Sreeja T.K., Jayakumari J.	Design and analysis of compact T shape slotted patch antenna for 4G WiMAX applications	2018	International Journal of Enterprise Network Management	23	1	Noorul Islam Centre for Higher Education
Mustafa N., Vennila H.	A meta-heuristic, moth inspired algorithm for combined economic and environmental power dispatch	2018	International Journal of Enterprise Network Management	23		Noorul Islam Centre for Higher Education
Ibrahim S., Mehta R.C., Edwin Raja Dhas J.	A comprehensive review to study the role of air conditioning and air flow improvements in small passenger vehicles	2018	Journal of Advanced Research in Dynamical and Control Systems	23		Noorul Islam Centre for Higher Education
Renu S., Krishna Veni S.H.	Preventing data loss even when the security system compromise	2018	Journal of Applied Engineering Science	23		Noorul Islam Centre for Higher Education
Prabhakar P., Vennila H.	Improvement of power quality in microgrids using predictive controller	2018	International Journal of Intelligent Systems Technologies and Applications	23		Noorul Islam Centre for Higher Education
Ramachandran S., Bhanumathy P.	DIGRAPH isomorphism using subdigraph equivalent vertices and degree pair association	2018	Ars Combinatoria	23		Noorul Islam Centre for Higher Education
Muhammed Anshad P.Y., Kumar S.S.	Automatic segmentation of chondroblastoma from X-ray images using active contour and levelset method	2018	International Journal of Engineering and Technology(UAE)	23		Noorul Islam Centre for Higher Education
Shanavas S., Dhas J.E.R.	Weld quality prediction of AA 5052-H32 aluminium alloy using neural network approach	2018	Materials Today: Proceedings	23	2	Noorul Islam Centre for Higher Education
Ramanan G., Dhas J.E.R.	Multi Objective Optimization of Wire EDM Machining	2018	Materials Today: Proceedings	23	20	Noorul Islam

	Parameters for AA7075-PAC Composite Using Grey - Fuzzy Technique					Centre for Higher Education
John Leon S., Winowlin Jappes J.T., Edwin Sahayara M.	Corrosion performance of annealed electroless Ni-B-ZrSiO ₄ coatings on mild steel	2018	Journal of Advanced Research in Dynamical and Control Systems	23		Noorul Islam Centre for Higher Education
Sagi Rani C., Thangaraj G., Suresh D.M., Joseph John N.	Influence of ball milling on CdO nanoparticles prepared by thermal decomposition	2018	Oriental Journal of Chemistry	23	3	Noorul Islam Centre for Higher Education
Jayaram V., Bavanish B.	Viability study of implementing cross flow helical turbine for micropower generation in India	2018	International Journal of Renewable Energy Research		1	Noorul Islam Centre for Higher Education
Leon S.J., Jappes J.T.W., Sahayaraj M.E.	Comparison of electroless Ni-P/ Ni-B on corrosion performance	2018	International Journal of Engineering and Technology(UAE)	23		Noorul Islam Centre for Higher Education
Anandan S., Rajesh R.	Tubing material selection for nuclear power plant heat exchangers	2018	International Journal of Mechanical Engineering and Technology	23		Noorul Islam Centre for Higher Education
Joy J., Sulaipher M.	The intervention of social media marketing in emerging adults: With special reference to Thiruvananthapuram district	2018	International Journal of Mechanical Engineering and Technology			Noorul Islam Centre for Higher Education
Darwins A.K., Satheesh M., Ramanan G.	Effect of thermo gravimetric and FT-IR analysis on friction stir processed Mg-ZE42 alloy	2018	Rasayan Journal of Chemistry		2	Noorul Islam Centre for Higher Education
Arun M.P., Satheesh M.	Analytical investigation of implementation of fences on cropped delta wing for the improvement of performance parameters	2018	International Journal of Mechanical Engineering and Technology	23	2	Noorul Islam Centre for Higher Education
Dhanasekar T., Rajakumar P.	Effect of RBI grade 81 with black cotton soil in road construction using ANFIS model	2018	International Journal of Civil Engineering and Technology	23	1	Noorul Islam Centre for Higher

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Anoop Kumar S., Rajesh R.	Study on effect of geometric and material parameters on shear loaded notched composite panels	2018	International Journal of Civil Engineering and Technology	23		Noorul Islam Centre for Higher Education
Dhanasekar T., Rajakumar P.	Effective utilization of fuzzy logic in stabilize road construction with RBI grade-81	2018	International Journal of Civil Engineering and Technology	23		Noorul Islam Centre for Higher Education
Murugan T., Murugan M.	Antibacterial effect of surface active agent produced by Pseudomonas sp. Isolated from saltpan	2018	Journal of Pharmaceutical Sciences and Research	23		Noorul Islam Centre for Higher Education
Renu, S., Krishna Veni, S.H.	An enhanced security tree to secure cloud data	2018	International Journal of Engineering and Technology(UAE)	23		Noorul Islam Centre for Higher Education
Sajan, P.P., Kumar, S.S.	GVF snake algorithm-a parallel approach	2018	International Journal of Engineering and Technology(UAE)	23		Noorul Islam Centre for Higher Education
Divya S.V., Shaji R.S., Venkadesh P.	An efficient data storage and forwarding mechanism using fragmentation-replication and DADR protocol for enhancing the security in cloud	2018	Journal of Computational and Theoretical Nanoscience	23	1	Noorul Islam Centre for Higher Education
Mohan P., Azhagesan N., Sivapragash M.	The preparation and mechanical properties of Al metal matrix composites by in-situ method	2018	International Journal of Computer Aided Engineering and Technology	23	3	Noorul Islam Centre for Higher Education
Aniyeri R., Nadar R.	Passengers queue analysis in international airports terminals in Kerala using multiphase queuing system	2018	International Journal of Mathematics in Operational Research		7	Noorul Islam Centre for Higher Education
John J., Uma Samundesvari K.	Total and forcing total edge-to-vertex monophonic number of a graph	2018	Journal of Combinatorial Optimization			Noorul Islam Centre for Higher Education
Jingle I.B.J., Celin	Mining optimized positive and	2017	Journal of			Noorul

J.J.A.	negative association rule using advance ABC algorithm		Theoretical and Applied Information Technology			Islam Centre for Higher Education
Darwins A.K., Satheesh M.	Effect of friction stir welding processon mechanical propertiesand microstructure of ZE42 magnesium alloy	2017	International Journal of Mechanical and Production Engineering Research and Development		5	Noorul Islam Centre for Higher Education
Judson Durai T., Sivapragash M., Edwin Sahayaraj M.	Corrosion behaviour of Mg-Zr alloy in stimulated body fluid	2017	International Journal of Mechanical and Production Engineering Research and Development			Noorul Islam Centre for Higher Education
Nambi S.S., Herbert G.M.J.	Analysis of new modeled twisted wind turbine blades	2017	International Journal of Mechanical Engineering and Technology	23	2	Noorul Islam Centre for Higher Education
Suseela K., Baskaran T.	Strength analysis on concrete with M-sand as a partial replacement of fine Aggregate	2017	International Journal of Civil Engineering and Technology	23	5	Noorul Islam Centre for Higher Education
Minimol V.K., Shaji R.S.	Queue allocation algorithm based on priority of signals to schedule m-health data transfer	2017	Journal of Computational and Theoretical Nanoscience	23		Noorul Islam Centre for Higher Education
Mayajohn, Jayasudha J.S.	Tag based noise removal from web pages	2017	Journal of Theoretical and Applied Information Technology	23	2	Noorul Islam Centre for Higher Education
Kalimuthu R., Mehta R.C., Rathakrishnan E.	Investigation of aerodynamic coefficients at Mach 6 over conical, hemispherical and flat-face spiked body	2017	Aeronautical Journal	23	8	Noorul Islam Centre for Higher Education
SHANAVAS S., EDWIN RAJA DHAS J.	Parametric optimization of friction stir welding parameters of marine grade aluminium alloy using	2017	Transactions of Nonferrous Metals Society of China (English		38	Noorul Islam Centre for Higher

	response surface methodology		Edition)			Education
Raja D.B.P., Retnam B.S.J., Shukla M., Girijadevi L.T.	Tensile, flexural and impact properties of glass fibre reinforced polymer matrix composites	2017	International Journal of Mechanical Engineering and Technology	23	2	Noorul Islam Centre for Higher Education
Gopa Kumar R., Rajesh R.	An experimental study on the performance and mechanical properties of Natural Rubber composite reinforced with 40% v/v sisal fiber subjected to different surface modifications	2017	ARPN Journal of Engineering and Applied Sciences	23		Noorul Islam Centre for Higher Education
Arun E., Reji A., Mohammed Shameem P., Shaji R.S.	A Novel Algorithm for Load Balancing in Mobile Cloud Networks: Multi-objective Optimization Approach	2017	Wireless Personal Communications	23	2	Noorul Islam Centre for Higher Education
Noorul T.M., Pramila R.S., Islam N.	An analysis of routing protocols in manets and Internet of things	2017	IEEE International Conference on IoT and its Applications, ICIOT 2017		5	Noorul Islam Centre for Higher Education
Sheela Y.J., Krishnaveni S.H.	A comparative analysis of various classification trees	2017	Proceedings of IEEE International Conference on Circuit, Power and Computing Technologies, ICCPCT 2017		6	Noorul Islam Centre for Higher Education
Rakhi K.J., Jayakumari J.	Design of flip-OFDM system for optical wireless communication	2017	Proceedings of IEEE International Conference on Circuit, Power and Computing Technologies, ICCPCT 2017		2	Noorul Islam Centre for Higher Education
Unnikrishnan M.A., Edwin Raja Dhas J.	A Survey on Friction Stir Welding of Dissimilar Magnesium Alloys	2017	IOP Conference Series: Materials Science and Engineering		3	Noorul Islam Centre for Higher Education
Dhas E.R., Pradeep P.	Mechanical Property Evaluation of Palm/Glass Sandwiched Fiber Reinforced Polymer Composite in Comparison with few natural composites	2017	IOP Conference Series: Materials Science and Engineering		3	Noorul Islam Centre for Higher Education

Dijusamuel G., Edwin Raja Dhas J.	Influence of tool pin in friction stir welding on activated carbon reinforced aluminium metal matrix composite	2017	IOP Conference Series: Materials Science and Engineering			Noorul Islam Centre for Higher Education
Shanavas S., Raja Dhas J.E.	Weldability of AA 5052 H32 aluminium alloy by TIG welding and FSW process - A comparative study	2017	IOP Conference Series: Materials Science and Engineering		10	Noorul Islam Centre for Higher Education
Prabha R., Edwin Raja Dhas J.	Development of Fuzzy Logic Tool to predict Wear Rate in Aluminum Composite	2017	IOP Conference Series: Materials Science and Engineering			Noorul Islam Centre for Higher Education
Arun Sasi B.S., Jebin R.P., Suthan T., James C.	Perspective on quantifying electron localization/delocalization, non-linear optical response and vibrational analysis of 4-(dimethylamino)benzaldehyde-2,4-dinitroaniline	2017	Journal of Molecular Structure	96	1	Noorul Islam Centre for Higher Education
Darwins A.K., Satheesh M.	Effect of process parameters on microstructure and mechanical properties of friction stir welded ZE42 magnesium alloy	2017	International Journal of Mechanical Engineering and Technology	23	3	Noorul Islam Centre for Higher Education
Bino P.R.D., Stanly J.R.B., Shukla M.	Analysis of mechanical properties of hybrid bamboo/jute fibers reinforced & vinyl ester composite material	2017	International Journal of Mechanical Engineering and Technology	23	4	Noorul Islam Centre for Higher Education
Faseela C.K., Vennila	Merit order dispatch using ant lion optimization algorithm	2017	International Journal of Civil Engineering and Technology	23	1	Noorul Islam Centre for Higher Education
Judson Durai T., Sivapragash M., Edwin Sahayaraj M.	Effect of sintering temperature on mechanical properties of Mg-Zr alloy	2017	International Journal of Mechanical and Production Engineering Research and Development	23	5	Noorul Islam Centre for Higher Education
Gouri M.S., Balan R.V.S.	Enhancement of multimedia security using random permutation with wavelet	2017	Computers and Electrical Engineering	23	3	Noorul Islam Centre for

	function					Higher Education
Ramachandran S.	Properties of non-reconstructible graphs and digraphs	2017	Utilitas Mathematica	23		Noorul Islam Centre for Higher Education
Murugan T., Ravikumar V., Chitra B., Murugan M.	Synthesis and characterization of environment friendly silver nanoparticles	2017	Journal of Pharmaceutical Sciences and Research	23		Noorul Islam Centre for Higher Education
Murugan T., Murugan M., Albino Wins J.	Rhamnolipid biosurfactants produced by Pseudomonas sp. MK5 and its efficacy on pharmaceutical application	2017	Research Journal of Pharmacy and Technology	23	1	Noorul Islam Centre for Higher Education
Gopalakrishnan R., John E.R.D.	Experimental investigation and multi response optimization of WEDM process of AA7075 metal matrix composites using particle swarm optimization	2017	International Journal of Intelligent Engineering and Systems	23	7	Noorul Islam Centre for Higher Education
Neela Rajan R.R., Rajesh R., Ramanan G.	Mathematical model development for viscosity of transesterified jatropha oil using box - behnken method	2017	International Journal of Mechanical and Production Engineering Research and Development	26	1	Noorul Islam Centre for Higher Education
Brightlin B.C., Balamurugan S.	The effect of different alkali metal chloride fluxes on the phase formation and properties of Sr-based hexaferrite, SrFe ₁₂ O ₁₉ materials	2017	Journal of Materials Science: Materials in Electronics	94	1	Noorul Islam Centre for Higher Education
Balamurugan S., Ragasree R., Sana Fathima T.K., Brightlin B.C.	Novel Single-Step Combustion Synthesis of Nanocrystalline MgFe ₂ O ₄ Materials Using Hexamethylenetetramine as a Fuel: Properties and Features	2017	Journal of Superconductivity and Novel Magnetism	120	5	Noorul Islam Centre for Higher Education
Peter S.E., Raglend I.J.	Sequential wavelet-ANN with embedded ANN-PSO hybrid electricity price forecasting model for Indian energy exchange	2017	Neural Computing and Applications		12	Noorul Islam Centre for Higher Education
Prabha N.R., Dhas J.E.R.	Neuro fuzzy modeling and prediction of wear rate in	2017	2016 International			Noorul Islam

	composite manufacturing		Conference on Control Instrumentation Communication and Computational Technologies, ICCICT 2016			Centre for Higher Education
Dinu A.J., Ganesan R., Kebede A.A., Veerasamy B.	Performance analysis and comparison of medical image compression techniques	2017	2016 International Conference on Control Instrumentation Communication and Computational Technologies, ICCICT 2016		7	Noorul Islam Centre for Higher Education
Shanavas S., Dhas J.E.R.	ANFIS modeling of friction stir weld parameters	2017	2016 International Conference on Control Instrumentation Communication and Computational Technologies, ICCICT 2016		2	Noorul Islam Centre for Higher Education
Dhas J.E.R., Pradeep P., Gladson D., Dinesh R.	Finite element analysis on tensile property of the developed natural FRP composite	2017	2016 International Conference on Control Instrumentation Communication and Computational Technologies, ICCICT 2016			Noorul Islam Centre for Higher Education
Prabha R., Dhas J.E.R.	Fuzzy logic - A decision making tool for wear rate prediction in aluminum composite	2017	Proceedings of the International Conference on Recent Advances in Aerospace Engineering, ICRAAE 2017			Noorul Islam Centre for Higher Education
Dhas J.E.R., Pradeep P.,	Comparison of mechanical properties for alkali treated	2017	Proceedings of the International			Noorul Islam

Gladson D., Dinesh R., Aran M.	and untreated palm/glass sandwiched fiber reinforced polymer composite		Conference on Recent Advances in Aerospace Engineering, ICRAAE 2017			Centre for Higher Education
Roobert A.A., Praghash K., Rajavel S.E., Bridjith A.A.	Design and analysis of demultiplexer based CPG for high speed shifting memory	2017	Proceedings of the 2017 International Conference on Intelligent Computing and Control Systems, ICICCS 2017			Noorul Islam Centre for Higher Education
Mehta R.C.	Effect of geometrical parameters of reentry capsule over flowfield at high speed flow	2017	Advances in Aircraft and Spacecraft Science			Noorul Islam Centre for Higher Education
Mehta R.C.	Analysis of payload compartment venting of satellite launch vehicle	2017	Advances in Aircraft and Spacecraft Science		1	Noorul Islam Centre for Higher Education
Unni Krishnan A., Joselin Herbert G.M.	Biogas yield potential research of the wastes from banana by anaerobic digestion	2017	International Journal of Mechanical Engineering and Technology		5	Noorul Islam Centre for Higher Education
Reji Kumar R., Sivapragash M.	Corrosion behaviour of magnesium tricalcium phosphate composite in simulated body fluid	2017	International Journal of Mechanical Engineering and Technology		1	Noorul Islam Centre for Higher Education
Gopakumar R., Rajesh R.	Effect of fiber volume fraction on the abrasive resistance, compressive strength and hardness of banana fiber-natural rubber composites	2017	International Journal of Mechanical Engineering and Technology		1	Noorul Islam Centre for Higher Education
Rajesh Prabha N., Edwin Raja Dhas J., Ramanan G.	Finite element structural analysis of connecting rod of aa7075-Tic composite using Ansys	2017	International Journal of Mechanical Engineering and Technology		11	Noorul Islam Centre for Higher Education
Diju Samuel G., Edwin Raja Dhas J., Ramanan G., Ramachandran M.	Production and microstructure characterization of AA6061 matrix activated carbon particulate reinforced	2017	Rasayan Journal of Chemistry		7	Noorul Islam Centre for Higher

	composite by friction stir casting method					Education
Neela Rajan R.R., Rajesh R.	Experimental wear study between piston ring and cylinder liner pair using Jatropho oil as lubricating oil	2017	International Journal of Mechanical and Production Engineering Research and Development			Noorul Islam Centre for Higher Education
Jayalekshmi M.B., Krishnaveni S.H.	TSS - Twin layered security scheme for cloud storage to preserve data integrity	2017	International Journal of Intelligent Engineering and Systems		1	Noorul Islam Centre for Higher Education
Joseph J., Suman A., Nagashri K., Joseyphus R.S., Balakrishnan N.	Synthesis, characterization and biological studies of copper(II) complexes with 2-aminobenzimidazole derivatives	2017	Journal of Molecular Structure		16	Noorul Islam Centre for Higher Education
Sindia T.V., Dhas J.P.M.	SBS-SDN based solution for preventing DDoS attack in cloud computing environment	2017	ARPJ Journal of Engineering and Applied Sciences		1	Noorul Islam Centre for Higher Education
Brightlin B.C., Balamurugan S., Arun T.	Microstructural and Magnetic Features of SrFe ₁₂ O ₁₉ Materials Synthesized from Different Fuels by Sol-Gel Auto-Combustion Method	2017	Journal of Superconductivity and Novel Magnetism		10	Noorul Islam Centre for Higher Education
Jayasree V., Siva Balan R.V.	Money laundering regulatory risk evaluation using Bitmap Index-based Decision Tree	2017	Journal of the Association of Arab Universities for Basic and Applied Sciences		10	Noorul Islam Centre for Higher Education
Devapal D., Kumar S.S., Jojoy C.	A Novel Approach of Despeckling SAR Images Using Nonlocal Means Filtering	2017	Journal of the Indian Society of Remote Sensing		6	Noorul Islam Centre for Higher Education
Peer Mohamed M.S., Swarnammal S.R.	An efficient framework to handle integrated VM workloads in heterogeneous cloud infrastructure	2017	Soft Computing		3	Noorul Islam Centre for Higher Education
Rajesh R., Dev Anand M., Benny K.N.	Prediction of EDM process parameters for AISI 1020 steel using RSM, GRA and ANN	2017	International Journal of Mechanical		6	Noorul Islam Centre for

			Engineering and Technology			Higher Education
Gopu P., Dev Anand M.	Experimental investigation on friction stir welding process using ANFIS model	2017	International Journal of Mechanical Engineering and Technology		3	Noorul Islam Centre for Higher Education
Neela Rajan R.R., Rajesh R.	Experimental study on performance and emission characteristics of transesterified Jatropha biodiesel engine	2017	International Journal of Mechanical Engineering and Technology			Noorul Islam Centre for Higher Education
Priyanka C.S., Arockia Selva Saroja G.	An efficient fuzzy map rule based FSO communication through turbulent atmosphere	2017	Proceedings of 2016 Online International Conference on Green Engineering and Technologies, IC-GET 2016			Noorul Islam Centre for Higher Education
Prabin R.L., Amala Shanthi S.	Mutual coupling and self interference reduction in MIMO systems using defective structures and EM absorbers	2017	Proceedings of 2016 Online International Conference on Green Engineering and Technologies, IC-GET 2016			Noorul Islam Centre for Higher Education
Seelan K.J., Rajesh R., Liji R.F.	Optimization of EDM parameters using RSM and grey relational analysis for aluminium titanium diboride (AL-TIB2)	2017	International Journal of Mechanical Engineering and Technology		1	Noorul Islam Centre for Higher Education
Senthil Anbazhagan A.M., Dev Anand M.	Investigation and modeling on dynamic failure mode-I type crack transitions in pressure vessel geometry	2017	International Journal of Mechanical Engineering and Technology		1	Noorul Islam Centre for Higher Education
Jane Sofia J., Jayakumari J.	VLSI implementation of efficient coder for deep space communication	2017	Proceedings of 2016 Online International Conference on Green Engineering and Technologies, IC-GET 2016		1	Noorul Islam Centre for Higher Education
Ramanan G.,	Multi response prediction of	2017	International		6	Noorul

Edwin Raja Dhas J., Jai Aultrin K.S.	machining process parameters using artificial neural network		Journal of Mechanical Engineering and Technology			Islam Centre for Higher Education
Tibbie Pon Symon V.A., Jacob Ragland I., Suji Pramila R.	Reduction of distribution losses in smart grid infrastructure by an optimization technique	2017	International Journal of Mechanical Engineering and Technology		1	Noorul Islam Centre for Higher Education
Diju Samuel G., Edwin Raja Dhas J.	Optimization of friction stir weld parameters using response surface method for hybrid non ferrous composites	2017	International Journal of Mechanical Engineering and Technology		2	Noorul Islam Centre for Higher Education
Jacob Raglend I., Dev Anand M.	Inverse kinematics solution of a five joint robot using recurrent neural network algorithm	2017	International Journal of Mechanical Engineering and Technology		2	Noorul Islam Centre for Higher Education
Shiju C., Arish D., Kumaresan S.	Synthesis, characterization, cytotoxicity, DNA cleavage, and antimicrobial activity of lanthanide(III) complexes of a Schiff base ligand derived from glycylglycine and 4- nitrobenzaldehyde	2017	Arabian Journal of Chemistry		13	Noorul Islam Centre for Higher Education
Joseph J., Ayisha Bibin Rani G.	Metal based SOD mimetic therapeutic agents: Synthesis, characterization and biochemical studies of metal complexes	2017	Arabian Journal of Chemistry		8	Noorul Islam Centre for Higher Education
Dutta Choudhury S., Chethodil J.M., Gharat P.M., Praseetha P.K., Pal H.	PH-Elicited Luminescence Functionalities of Carbon Dots: Mechanistic Insights	2017	Journal of Physical Chemistry Letters		66	Noorul Islam Centre for Higher Education
Ramanan G., Edwin Raja Dhas J., Ramachandran M., Diju Samuel G.	Influence of activated carbon particles on microstructure and thermal analysis of AA7075 metal matrix composites	2017	Rasayan Journal of Chemistry		14	Noorul Islam Centre for Higher Education
Siva M.M., Rajesh R., Pugazhendhi S., Sivapragash M.	Effect of microstructure and hardness properties of AL2011 based composites for titanium di boride using stir casting method	2017	International Journal of Mechanical and Production Engineering Research and		6	Noorul Islam Centre for Higher Education

			Development			
Sudhan M.B., Dharun V.S.	Robust Face Recognition and illumination method using low dimension linear model	2017	ARPN Journal of Engineering and Applied Sciences			Noorul Islam Centre for Higher Education
Joseph J., Suman A., Balakrishnan N.	Design, synthesis, characterization and biological studies of copper(II) complexes with 2-aminobenzimidazole derivatives as biomimetic agents	2017	Applied Organometallic Chemistry		2	Noorul Islam Centre for Higher Education
Mary Synthuja Jain Preetha M., Padmasuresh L., John Bosco M.	Firefly based region growing and region merging for image segmentation	2017	Proceedings of IEEE International Conference on Emerging Technological Trends in Computing, Communications and Electrical Engineering, ICETT 2016		2	Noorul Islam Centre for Higher Education
Jacob T., Krishna A., Padma Suresh L., Muthukumar P.	A choice of FPGA design for three phase sinusoidal pulse width modulation	2017	Proceedings of IEEE International Conference on Emerging Technological Trends in Computing, Communications and Electrical Engineering, ICETT 2016		5	Noorul Islam Centre for Higher Education
Mary A., Padma Suresh L., Krishna Veni S.H.	Comparative performance analysis of different controllers for a nonlinear multivariable system	2017	Proceedings of IEEE International Conference on Emerging Technological Trends in Computing, Communications and Electrical Engineering, ICETT 2016		2	Noorul Islam Centre for Higher Education
Seelan L.J., Padma Suresh L., Krishna	Automatic extraction of Lung lesion by using optimized	2017	Proceedings of IEEE International		2	Noorul Islam

Veni S.H.	toboggan based approach with feature normalization and transfer learning methods		Conference on Emerging Technological Trends in Computing, Communications and Electrical Engineering, ICETT 2016			Centre for Higher Education
Tibbie Pon Symon V.A., Ragland I.J.	Improving efficiency of power systems by demand side management method	2017	International Journal of Electrical and Computer Engineering		3	Noorul Islam Centre for Higher Education
Judith J.E., Jayakumari J.	Distributed document clustering analysis based on a hybrid method	2017	China Communications		8	Noorul Islam Centre for Higher Education
Joseph J., Janaki G.B., Nagashri K., Joseyphus R.S.	Antimicrobial, antioxidant and SOD activities of copper(II) complexes derived from 2-aminobenzothiazole derivatives	2017	Journal of Coordination Chemistry		8	Noorul Islam Centre for Higher Education
Anoop S., Amar Pratap Singh J.	Secure code offloading in mobile cloud computing: A systematic review and approaches	2017	Journal of Advanced Research in Dynamical and Control Systems			Noorul Islam Centre for Higher Education
Dinu A.J., Ganesan R., Joseph F., Balaji V.	A study on deep machine learning algorithms for diagnosis of diseases	2017	International Journal of Applied Engineering Research		12	Noorul Islam Centre for Higher Education
Shanavas S., Edwin Raja Dhas J., Paulo Davim J.	Effect of geometry of tool pin profile on the mechanical and metallographic characteristics of friction stir welded AA 5052-H32 aluminium alloy	2017	Journal of Manufacturing Technology Research		2	Noorul Islam Centre for Higher Education
Venifa Mini G., Angel Viji K.S.	A hybrid RBAC and Chaos Access (HRCA) control mechanism for cloud computing environment	2017	Journal of Engineering and Applied Sciences		1	Noorul Islam Centre for Higher Education
Aniyeri R., Ratnam Nadar C.	A multiphase queuing system with assorted servers by using matrix geometric method	2017	International Journal of Applied		1	Noorul Islam Centre for

			Engineering Research			Higher Education
John M., Jayasudha J.S.	Enhancing performance of deep learning based text summarizer	2017	International Journal of Applied Engineering Research		1	Noorul Islam Centre for Higher Education
Minimol V.K., Shaji R.S.	M-health frame work- for public health services	2017	International Journal of Applied Engineering Research		1	Noorul Islam Centre for Higher Education
Joy J., Sulaipher M.	Consumer behavioral outcome in the context of social media marketing	2017	International Journal of Applied Business and Economic Research			Noorul Islam Centre for Higher Education
Joy J., Sulaipher M.	Social media as a multimedia tool for brand popularity: A study on the people of kerala	2017	International Journal of Applied Business and Economic Research			Noorul Islam Centre for Higher Education
Joy J., Sulaipher M.	An exploratory study on the influence of SNS in the brand awareness of rural people	2017	International Journal of Applied Business and Economic Research			Noorul Islam Centre for Higher Education
Sruthy S., Suresh Babu S.	Fix bad scanned character, line and paragraph of curved document images	2017	Journal of Advanced Research in Dynamical and Control Systems			Noorul Islam Centre for Higher Education
Sreeja K.A., Kumar S.S.	Region-threshold detection and KNN classification method for detecting and classifying hemorrhages for real time application in retinal fundus images	2017	Journal of Advanced Research in Dynamical and Control Systems			Noorul Islam Centre for Higher Education
Dinu A.J., Ganesan R., Joseph F., Balaji V.	Quality analysis of various deep learning neural network classifiers for Alzheimer's disease detection	2017	Journal of Engineering and Applied Sciences		5	Noorul Islam Centre for Higher Education
Ravikumar D., Vennila V.	Hybrid wind solar system for efficient power generation	2017	Proceedings of the International Conference on Electronics,		5	Noorul Islam Centre for Higher

			Communication and Aerospace Technology, ICECA 2017			Education
Nair A.L.S., Mary S.A.J., Linsely J.A.	Modeling and control of level control process - A comparative study	2017	2017 Innovations in Power and Advanced Computing Technologies, i-PACT 2017			Noorul Islam Centre for Higher Education
Cincy W.C., Jeba J.R.	A novel meta heuristic based query optimization technique on crowdsourcing environment using a-fly algorithm	2017	Journal of Advanced Research in Dynamical and Control Systems			Noorul Islam Centre for Higher Education
Shiney O.J., Singh J.A.P., Shan B.P.	A Review on techniques for computer aided diagnosis of soft markers for detection of down syndrome in ultrasound fetal images	2017	Biomedical and Pharmacology Journal		1	Noorul Islam Centre for Higher Education
Ramanan G., Dhas J.E.R., Ramachandran M.	Optimization of material removal rate and surface roughness for wire electric discharge machining of AA7075 composites using grey relational analysis	2017	International Journal of Vehicle Structures and Systems		5	Noorul Islam Centre for Higher Education
Ajay Praveen Kumar A., Ganapathi Raman R.	Spectroscopic and second harmonic generations studies of 5-bromo-2-methoxybenzonitrile by DFT	2017	Oriental Journal of Chemistry		4	Noorul Islam Centre for Higher Education
Cincy W.C., Jeba J.R.	Performance analysis of novel hybrid A-BAT algorithm in crowdsourcing environment	2017	International Journal of Applied Engineering Research		1	Noorul Islam Centre for Higher Education
Vivek P.K., Dharun V.S., Veenus P.K.	Challenges in wireless sensor networks – A signal processing perspective	2017	Journal of Advanced Research in Dynamical and Control Systems			Noorul Islam Centre for Higher Education
Vivek P.K., Dharun V.S., Veenus P.K.	Industrial sensor networks - signal processing with compressive sensing	2017	International Journal of Applied Engineering Research			Noorul Islam Centre for Higher Education
Vivek P.K., Dharun	Implementation of chaotic	2017	Journal of			Noorul

V.S., Veenus P.K., Sivasankar K.	neural network in joint compression and encryption scheme		Advanced Research in Dynamical and Control Systems			Islam Centre for Higher Education
Saju Simon S.G., Joseph X.F.	Pre-processing of dental X-ray images using adaptive histogram equalization method	2017	Journal of Advanced Research in Dynamical and Control Systems		1	Noorul Islam Centre for Higher Education
Sajitha A.V., Subhajini A.C.	ECGCD: A computational approach of the designing and evaluation of energy efficiency and environmental sustainability in green data centres using dynamic VM consolidation	2017	Journal of Advanced Research in Dynamical and Control Systems		3	Noorul Islam Centre for Higher Education
Sasikala T.S., Sivasankar K.	Multimodal biometric authentication based on interpolation based steganography	2017	Journal of Advanced Research in Dynamical and Control Systems			Noorul Islam Centre for Higher Education
Muhammed Anshad P.Y., Kumar S.S.	Automatic segmentation of chondroblastoma from medical images using SRM & active contour method	2017	Journal of Advanced Research in Dynamical and Control Systems			Noorul Islam Centre for Higher Education
Subhashini R., Jeyakumar M.K.	Performance analysis of different classification techniques for the prediction of chronic kidney disease	2017	Journal of Advanced Research in Dynamical and Control Systems		2	Noorul Islam Centre for Higher Education
Neela Rajan R.R., Rajesh R.	Multi-objective optimisation of Mahua oil transesterification using response surface methodology and grey relational analysis	2017	International Journal of Enterprise Network Management		1	Noorul Islam Centre for Higher Education
Robin Divahar S., Sudhahar C., Karthikeyan L.M., Edwin Raja Dhas J.	Identification of influencing factors for the selection of RLSP using DEMATEL method	2017	International Journal of Enterprise Network Management			Noorul Islam Centre for Higher Education
Prabhakar P., Vennila H.	Power quality improvement in microgrid using custom power devices	2017	International Journal of Enterprise Network Management		3	Noorul Islam Centre for Higher Education
Sindia T.V., Dhas	A bifold software defined	2017	International		1	Noorul

J.P.M.	networking based defence mechanism for DDOS attacks in the cloud environment		Journal of Applied Engineering Research			Islam Centre for Higher Education
Aswathy S.U., Glan Devadhas G., Kumar S.S., Sreevidya P.	An optimized approach for SVM based segmentation of MR images of brain tumors	2017	Journal of Advanced Research in Dynamical and Control Systems		2	Noorul Islam Centre for Higher Education
Dalmiya C.P., Santhi N.	A novel adaptive clustering algorithm using validity index in remote sensing data	2017	International Journal of Applied Engineering Research		5	Noorul Islam Centre for Higher Education
Sajan P.P., Kumar S.S.	Parallelizing MAP-ML method in multicore architecture	2017	Journal of Advanced Research in Dynamical and Control Systems			Noorul Islam Centre for Higher Education
Ajay Praveen Kumar A., Raman R.G.	Theoretical spectroscopic and second harmonic generations studies of 5-fluoro-2-methyl benzonitrile	2017	Oriental Journal of Chemistry		2	Noorul Islam Centre for Higher Education
Mohamed Shameem P., Johnson N., Shaji R.S., Arun E.	An effective resource management in cloud computing	2017	International Journal of Communication Networks and Distributed Systems		3	Noorul Islam Centre for Higher Education
Omana S.P., Jesu J.C.	JFIM: A novel filter feature selection approach using joint feature interaction maximization	2017	International Journal of Intelligent Engineering and Systems			Noorul Islam Centre for Higher Education
Renu S., Krishna Veni S.H.	An enhanced CIA tree using string matching algorithm	2017	International Journal of Applied Engineering Research		4	Noorul Islam Centre for Higher Education
Balakrishnan N., Rajesh R., Ganesh K.	Process parameters selection for laser welding of 304-stainless steel using AHP method	2017	International Journal of Enterprise Network Management		1	Noorul Islam Centre for Higher Education
Ramachandran S., Bhanumathy P.	Subgraphs and similarity of vertices	2017	Ars Combinatoria			Noorul Islam

						Centre for Higher Education
Subash T., Vincent P., Karuppasamy S., Kushnappa B.K.	Analysis of nutrient index of soil for green environment	2017	Asian Journal of Chemistry		3	Noorul Islam Centre for Higher Education
Madhukumar P., Ramu G., Veerasamy B., Joseph F.	Application of fixed point turbo decoding algorithm for throughput enhancement of SISO parallel advanced LTE turbo decoders	2017	International Journal of Intelligent Engineering and Systems			Noorul Islam Centre for Higher Education
Muthu A.B.A., Enoch S.	Optimized scheduling and resource allocation using evolutionary algorithms in cloud environment	2017	International Journal of Intelligent Engineering and Systems		11	Noorul Islam Centre for Higher Education
Prabhakar P., Vennila H.	Comparison between PI, fuzzy & predictive techniques for STATCOM to improve the transient stability of microgrid	2017	International Journal of Mechanical Engineering and Technology		1	Noorul Islam Centre for Higher Education
Tibbie Pon Symon V.A., Jacob Raglend I., Suji Pramila R.	A new approach for the reduction of distribution losses in smart grid	2017	International Journal of Mechanical Engineering and Technology		1	Noorul Islam Centre for Higher Education
Felix Stephen S., Jacob Raglend I.	Voltage regulation using PI control of STATCOM with firefly algorithm	2017	International Journal of Mechanical Engineering and Technology		2	Noorul Islam Centre for Higher Education
Sreejith M.V., Tibbie Pon Symon V.A., Shamila F., Linsely A.	Shunt feedback method of power consumption measurement for microcontroller based applications	2017	International Journal of Mechanical Engineering and Technology			Noorul Islam Centre for Higher Education
Faseela C.K., Vennila H.	Combined economic and emission dispatch with valve point effect using moth flame optimization (MFO) algorithm	2017	International Journal of Mechanical Engineering and Technology		1	Noorul Islam Centre for Higher Education
Siva M.M., Rajesh R.	Tensile and SEM behaviour of stir casting AL-2011/TIB2 particulate composites	2017	International Journal of Mechanical Engineering and			Noorul Islam Centre for Higher

			Technology			Education
Ajith Raj R., Rohit I.J., Dev Anand M.	Mechanical strength prediction of TIG welded stainless steel 304 using grey RSM	2017	International Journal of Mechanical Engineering and Technology		3	Noorul Islam Centre for Higher Education
Jerold Jose P., Dev Anand M.	Prediction and optimization of weld bead geometry of pulsed gas tungsten arc welded inconel 718 alloy using RSM	2017	International Journal of Mechanical Engineering and Technology			Noorul Islam Centre for Higher Education
Anitha Janet Mary S., Padma Suresh L.	Optimization of PID controller for a nonlinear MIMO system and comparative performance analysis	2017	International Journal of Mechanical Engineering and Technology		1	Noorul Islam Centre for Higher Education
Suresh A., Flower Queen M.P., Tibbie Pon Symon V.A., Linsely A.	Control and stabilization of an inverted pendulum using ga based controller	2017	International Journal of Mechanical Engineering and Technology			Noorul Islam Centre for Higher Education
Rajesh Prabha N., Edwin Raja Dhas J.	Design optimization of surface roughness by turning process using response surface methodology and grey relational analysis	2017	International Journal of Mechanical Engineering and Technology		4	Noorul Islam Centre for Higher Education
Athipathi G., Nagan S., Baskaran T.	Mission zero fatality in India	2017	International Journal of Civil Engineering and Technology			Noorul Islam Centre for Higher Education
Eqbert K., Dev Anand M.	Development of reducing boil off losses in LNG transportation using polyamide as supporting material	2017	International Journal of Civil Engineering and Technology		2	Noorul Islam Centre for Higher Education
Dhanya J.S., Kinslin D.	Work life balance of employees at Hindustan lever limited, Trivandrum	2017	International Journal of Applied Business and Economic Research			Noorul Islam Centre for Higher Education
Abhilash K.S., Dharun V.S.	Method to remove the noisy data DROM captured image of iris and identifying the pupil by detecting its centroid	2017	International Journal of Applied Engineering Research			Noorul Islam Centre for Higher Education
Suneesh E.,	Mechanical performance of	2017	International		3	Noorul

Sivapragash M., Silan T.S.	magnesium composites containing hybrid Al ₂ O ₃ reinforcement		Journal of Civil Engineering and Technology			Islam Centre for Higher Education
John J.K., Siva Balan R.V.	Priority queuing technique promoting deadline sensitive data transfers in router based heterogeneous networks	2017	International Journal of Applied Engineering Research		5	Noorul Islam Centre for Higher Education
Gopalakrishnan V., Velkennedy R.	Effects of WTP sludge dosage and paddle speed on the removal of suspended particulate matter in municipal waste water	2017	International Journal of Civil Engineering and Technology		6	Noorul Islam Centre for Higher Education
Suneesh E., Sivapragash M., Silan T.S.	Compressive and impact responses of magnesium/alumina composites	2017	International Journal of Civil Engineering and Technology		3	Noorul Islam Centre for Higher Education
Senthil Anbazhagan A.M., Dev Anand M.	Investigation of temperature distribution on combined pressure vessel column	2017	International Journal of Civil Engineering and Technology			Noorul Islam Centre for Higher Education
Venish A., Sivasankar K.	An efficient inline data deduplication with data relationship manager for cloud storage	2017	International Journal of Applied Engineering Research		1	Noorul Islam Centre for Higher Education
Anandan S., Rajesh R., Ganesh K.	Evaluation through quality function deployment and analytic hierarchy process for selecting the tube material in heat exchangers at nuclear power plants	2017	International Journal of Enterprise Network Management		1	Noorul Islam Centre for Higher Education
Sowmy I., Jayakumari J.	An efficient radon mapped discrete wavelet transform- based algorithm for MC-CDMA system	2017	International Journal of Enterprise Network Management			Noorul Islam Centre for Higher Education
Mini G., Viji K.S.A.	A comprehensive cloud security model with enhanced key management, access control and data anonymization features	2017	International Journal of Communication Networks and Information Security		5	Noorul Islam Centre for Higher Education
Ramanan G.,	Multiple response	2017	International		5	Noorul

Neela Rajan R.R., Diju Samuel G., Edwin Raja Dhas J., Rajesh Prabha N., Pradeep P.	characteristics optimization of wedm parameters for aa7075 composites by response surface grey relative analysis		Journal of Mechanical Engineering and Technology			Islam Centre for Higher Education
Vadivu Vijayaraghavan I., Siva Sankar K.	SuVa security framework for cloud migration	2017	Journal of Advanced Research in Dynamical and Control Systems			Noorul Islam Centre for Higher Education
Pranesh Kumar R., Bindhu V.S.	An eco-feminist outlook in the selected works of Anita Desai	2017	Man in India			Noorul Islam Centre for Higher Education
Mathai P.P., Siva Balan R.V., Babu I.	An efficient approach for item set mining using both utility and frequency based methods	2017	International Journal of Applied Engineering Research		3	Noorul Islam Centre for Higher Education
Joseph S.M., Dhanaraj C.J., Joseph J., Joseyphus R.S.	Synthesis, spectral characterization and anticancer studies of some metal(II) complexes derived from imidazole-2- carboxaldehyde with 2-amino- 3-carboxyethyl-4,5- dimethylthiophene	2017	Oriental Journal of Chemistry			Noorul Islam Centre for Higher Education
Gopakumar R., Rajesh R.	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	2017	International Journal of Civil Engineering and Technology		7	Noorul Islam Centre for Higher Education
Allwin D., Ganesan M.	Delineation of permeable zone for effective desilting of Irrigation Tank to enhance the recharge capacity	2017	Pollution Research			Noorul Islam Centre for Higher Education
Liji R.F., Sedan K.J., Rajesh R., Pugazhendhi S.	RSM and anova: An approach for selection of process parameters of edm of aluminium titanium diboride (al-Tib2)	2017	International Journal of Civil Engineering and Technology	23	2	Noorul Islam Centre for Higher Education
Rajesh Prabha N., Edwin Raja Dhas J.	Effect of TiC and MOS2 reinforced aluminium metal	2017	Rasayan Journal of Chemistry	20	6	Noorul Islam

	matrix composites on microstructure and thermogravimetric analysis					Centre for Higher Education
Nithila E.E., Kumar S.S.	Automatic detection of solitary pulmonary nodules using swarm intelligence optimized neural networks on CT images	2017	Engineering Science and Technology, an International Journal	50	25	Noorul Islam Centre for Higher Education
Bai V.M.A., Manimegalai D.	Analysis of feature selection measures for text categorisation	2017	International Journal of Enterprise Network Management		1	Noorul Islam Centre for Higher Education
Priya B.S.D., Enoch S.	Maximising energy efficiency using data aggregation in sensor networks	2017	International Journal of Enterprise Network Management	24		Noorul Islam Centre for Higher Education
Jagatheeswari R., Bilcah Bobby C., Maheswaran C.P.	A theoretical analysis of wireless localisation scamming attacks using silence mechanism	2017	International Journal of Enterprise Network Management	24		Noorul Islam Centre for Higher Education
Jayakumari J., Jane Sofia J.	FPGA implementation of concatenated LT and LDPC coder for deep space applications	2017	Far East Journal of Electronics and Communications	20		Noorul Islam Centre for Higher Education
Ajaypraveenkumar A., Ganapathi Raman R., Sebastian S.	Geometrical structure, vibrational spectra, NLO, NBO, electronic transitions and thermo dynamical analysis of 5-fluoro-2-methylbenzonitrile by DFT computational method	2017	Springer Proceedings in Physics		3	Noorul Islam Centre for Higher Education
Subash T., Vincent P., Sathya Prabha K.	Stabilization mechanism for soil by using lime and rice husk ash as binding agents in erosion prone zone - A case study	2017	International Journal of Civil Engineering and Technology	23	4	Noorul Islam Centre for Higher Education
Ramanan G., Edwin Raja Dhas J., Rajesh Prabha N., Shanavas S.	Multi objective optimization of machining parameters for AA7075 metal matrix composite using grey - Fuzzy technique	2017	International Journal of Applied Engineering Research	20	6	Noorul Islam Centre for Higher Education
Thompson F., Jeyakumar M.K.	Vector based classification of dermoscopic images using SURF	2017	International Journal of Applied	20	3	Noorul Islam Centre for

			Engineering Research			Higher Education
Samuel G.D., Dhas J.E.R.	Multi-objective optimization of friction stir welded dissimilar aluminium composites using grey analysis	2017	International Journal of Applied Engineering Research	18	3	Noorul Islam Centre for Higher Education
Prakash A.J., Christopher A.F.	Hazy video denoising using an enhanced visibility restoration technique	2017	Man in India			Noorul Islam Centre for Higher Education
Dhanya J.S., Kinslin D.	A study on work life balance of women employees at ULCCS Ltd, Kozhikode	2017	International Journal of Applied Business and Economic Research	20	6	Noorul Islam Centre for Higher Education
Dhanya J.S., Kinslin D.	Clair model for better work life balance and empowerment of women faculty in professional colleges of Kerala	2017	International Journal of Applied Business and Economic Research	20	6	Noorul Islam Centre for Higher Education
Dhanya J.S., Kinslin D.	A study on impact of work life balance on retention of women teachers in management colleges in Kerala	2017	International Journal of Applied Business and Economic Research	20	6	Noorul Islam Centre for Higher Education
Shijin Kumar P.S., Dharun V.S.	Combination of fuzzy c-means clustering and texture pattern matrix for brain MRI segmentation	2017	Biomedical Research (India)	23	2	Noorul Islam Centre for Higher Education
Ananthanarayanan B., Balan S., Balamurali A.M., Balamurali K.	Efficient dissemination of rainfall forecasting to safeguard farmers from crop failure using optimized neural network model	2017	International Journal of Intelligent Engineering and Systems	40	1	Noorul Islam Centre for Higher Education
Brightlin B.C., Balamurugan S.	Magnetic, Micro-structural, and Optical Properties of Hexaferrite, BaFe ₁₂ O ₁₉ Materials Synthesized by Salt Flux-Assisted Method	2017	Journal of Superconductivity and Novel Magnetism	86	13	Noorul Islam Centre for Higher Education

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

No. of Faculty	International level	National level	State level	Local level
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Attended Seminars/ Workshops	09	34	05	21
Presented papers	29	14	02	
Resource Persons	06	07	-	11

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)
Dr. R.S. Rimal Isaac	Testing and Analysis	Industry & Academia (Inbiotics, CMST, WCC, Govt. College for Women, TVPM, Lekshmipuram College of Arts and Science, Sree Mookambika Institute of Dental Sciences)	1,24,000
Mechanical Department	Analysis	Shanmuga Foundry, Vattavilai, Edalakudy post, Nagercoil	30,000
Mechanical Department	Analysis	Vijaya Industries Pvt Ltd Nagercoil	20,000

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

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	Number of teachers coordinated in	Number of students participated in
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	agency	such activities	such activities
Free Medical camp	Conducted in the college auditorium by the department of BMST in association with NIMS MEDICITY on 6th APRIL 2018	07	56 staffs ,182 students and 26 local people from the nearby villages attended the camp and were benefited

3.6.2 Awards and recognition received for extension activities from Government and other recognized bodies during the year
Nil

Name of the activity	Award	Awarding bodies	No of students benefited

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	Organizing Unit/ sponsoring agency	Name of the activity	Number of teachers coordinated such activities	Number of students participated in such activities
NSS	unit 1-5	Eye Donation Awareness	3	123
NSS	unit 1-5	Voters' awareness day	2	120
NSS	unit 1-5	Forests Day	4	250
NSS	unit 1-5	Diabetes Day awareness programme	2	120

3.7 Collaborations

3.7.1 Number of Collaborative activities for research, faculty exchange, student exchange during the year
Nil

Nature of activity	Participant	Source of financial support	Duration

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	Duration From to Date	Participant

		/research lab with contact details		

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

Organization	Date of MoU signed	Purpose and activities	Number of students/teachers participated under MoUs
Sunway University SDN BHD, Malaysia	2018	Joint Research and Development • Student Exchange, • Joint-Conferences • Exchange of Research Materials	
DMI St.John the Baptist University, Malawi, Central Africa	2018	Joint Research and Development • Student Exchange, • Joint-Conferences • Exchange of Research Materials	
Dragon fire and Security systems	2018		
Inbiotics, Nagercoil	2018	Joint Research and Development • Student Exchange, • Joint-Conferences • Exchange of Research Materials	
Alagappa University	2018	• Joint Research and Development • Student Exchange, • Joint-Conferences • Exchange of Research Materials	
NIMS Audiology	2018	• Joint Research and Development in particular biomedical engineering • Student Exchange, • Joint-Conferences	

National University of Sudan	2018	• Joint Research and Development • Student Exchange, • Joint-Conferences	
NIMS Biomedical Engineering	2018	• Joint Research and Development in particular biomedical engineering • Student Exchange, • Joint-Conferences	

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			Budget utilized for infrastructure development			
1,35,000 INR			1,27,230 INR			
4.1.2 Details of augmentation in infrastructure facilities during the year						
Facilities			Existing		Newly added	
Campus area			47 acres		-	
Class rooms			147		-	
Laboratories			67		-	
Seminar Halls			10		-	
Classrooms with LCD facilities						
Classrooms with Wi-Fi/ LAN			147		-	
Seminar halls with ICT facilities			02		-	
Video Centre						
No. of important equipments purchased (≥ 1-0 lakh) during the current						
Value of the equipment purchased during the year (Rs. in Lakhs)						
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	
Autolib	Fully Automated		5.1		2003	
4.2.1 Library Services						
	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	73071	1,93,60,180.58	5129	25,11,812.59	78700	2,18,71,993.17
Reference Books	1889	37,79,950.00	47	76,355.00	1936	38,56,305.00
e-Books	350		120		470	9,52,692.00
Journals	183	2,20,268.00	3	9,000.00	186	2,29,268.00
e-Journals	588	16,58,819.00	307	5,19,230.00	895	21,78,049.00
Digital Database	-	-	-	-	-	-
CD & Video	1616		79		1695	
Library automation	-	-	-	-	-	-

Weeding (Hard & Soft)	-	-	-	-	-	-			
Others (specify)	-	-	-	-	-	-			
4.2.2 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)	Oth ers
Existi ng									
Add ed									
Total									
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		Expenditure incurred on maintenance of academic facilities		Assigned budget on physical facilities		Expenditure incurred on maintenance of physical facilities			
9,52,150 INR		8,29,030 INR		1,19,630 INR		1,38,000 INR			
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)									

NICHE ensures optimal allocation and utilization of the available financial resources for maintenance and upkeep of different facilities by holding regular meetings of various committees constituted for this purpose and using the grants received by the college as per the requirements in the interest of students.

Laboratory Record of maintenance is maintained by lab technicians and supervised by Lab In charge 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.

CRITERION 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		42	11,57,389		
Financial support from other sources					
a) National		532	1,26,51,000		
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		
5.1.3 Students benefited by guidance for competitive examinations and career counselling offered by the institution during					
Year	Name of the scheme	Number of benefited students by Guidance for	Number of benefited students by Career Counselling activities	Number of students who have passed in	Number of students placed
2017-2018	Pre-Placement Training-Mr. K. Stanly, (Myoungshin)-HR	43 Students			
2017-2018	Employability Training Program - Dr. C. Solomon	17 Students			
2017-2018	Career Enhancement - Mr. V. Harish Kumar, Content Quality Manager, Focus Academy	28 Students			
2017-2018	Aspiring Minds Employability		87 Students		
2017-2018	Career and Life Skills- Quantitative Aptitude	114 Students			
2017-2018	Career and Life Skills, C-Program, Coding	77 Students			

2017-2018	Power Point Presentation & Excell	69 Students			
2017-2018	Career Guidance & Soft skills	37 Students			
2017-2018	Employability Skills	205 Students			
2017-2018	Aspiring minds Employability	89 students			
2017-2018	ACS International Educational Consultancy Seminar on "Study Abroad"	209 Students			
2017-2018	Seminar on Interview Preparation		340 Students		

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
3	3	5 days

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
IDBI Federal Life Insurance, Chennai		80			
GESCO Healthcare, Chennai		40			
Myounghsin, Kancheepuram		30			
Veta Industries, Chennai		16			
Kwang Sung Brake india, Chennai		12			
Ashok Minda Group – MindaSai Ltd, Chennai		6			
India Infoline Finance Ltd.Chennai		10			

Talent Pro India HR Pvt.Ltd.,Chennai		13			
H & R Block, Trivandrum		1			
V-Dart, Trichy		16			
TCS, Chennai		1			
Ababil Health Care, Chennai		3			
Focus Academy		1			
Indian Institute of Banking, Chennai		15			

5.2.2 Student progression to higher education in percentage during the year NA					
Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of Programme admitted to
-	-	-	-	-	-

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.
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/convener for organizing seminars/workshops/conferences/FDPs etc Participative management 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)
Curriculum Development The University provides complete autonomy to the departments to revise or update existing curricula to incorporate latest knowledge development AND even introduce new courses in tune with employment market needs, as and when they want to do this. The institution believes in constantly improving the curriculum. A systematic process is followed for the enrichment of the curriculum. Every program has been approved by Board of Studies, which comprises of some select 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

Before the beginning of every academic year, Director, Academic Affairs announces detailed academic schedule for all Programmes/Courses offered by the University based on the guidelines of UGC taking into account the mandatory number of working days (90 days per semester).

The plan for teaching-learning process is organized at the department level in the beginning of the every semester. The Head of the Department concerned conducts meeting with all the faculty members and allots subjects based on their interest. Then the time table is prepared and circulated to the students. The faculty members prepare the Lecture Plan for the subject to be taught in the beginning of the semester.

The student evaluation of the teachers is a regular feature and done at the middle and end of the semester. Students have to submit their feedback and it is consolidated by the HOD and presented to the higher officials for follow up action. Apart from this, Vice Chancellor, Registrar, Deans and HODs interact with the students and obtain their feedback. The feedback received will be discussed with the teachers concerned and if necessary, they will be counselled and advised by the university officials. At the beginning of the semester, the copy of the syllabi is provided to the student.

Examination and Evaluation

Pre-examination processes. The examination wing works in close coordination with Director, Academic Affairs and Director, Student Affairs. Registered students list is prepared and announced by Director, Academic Affairs. Eligible Student lists are prepared after considering their attendance percentage by the director, student affairs. These students register themselves for examinations by submitting the customized exam application form. Arrangement for external and internal Invigilators, Squad, Attendance sheet and Hall ticket are made well in advance.

Examination process – Examination material management, logistics, etc. All the examinations are held at central examination halls to check the malpractices and to ensure transparency. The examination materials and logistics are centrally provided by the office of the Controller of Examination involving secretarial staff whereas invigilation is taken care of by external and internal teaching staff.

Post-examination process – Attendance capture, OMR-based exam result, auto processing, generic result processing, certification etc. All the attendance details are checked precisely on the day of examination and the data are entered for comparison. This helps cross check the procedure and is followed until the process of mark registration and mark list preparation is completed. The evaluation of answer scripts is also done centrally involving 50% internal faculty and 50% external faculty members, mark sheets are placed for scrutiny in the passing board meeting after which the results are published.

Research and Development

NICHE's industry-academia collaboration is one of the crucial indicators and distinctive features of promoting research and development. This strengthens the industrial technology and R&D activities and paves way for inviting invite experts from industries to co-teach and enhance students' practical ability in their specialized fields. The tie-up not only increases the quantity but also enhances the quality of collaboration with the real world.

Library, ICT and Physical Infrastructure / Instrumentation

A very good infrastructure, with a peaceful environment, surrounded by natural greenery and eco friendly atmosphere brings users spontaneously to the library to make use of its resources. The Central Library and department libraries are constantly equipped with latest arrivals. The increased hours accessibility to the Central Library with more than seventy six thousand books and a number of journals, magazines, fortnights, weeklies and newspapers in different languages ensure full support to research.

Human Resource Management
NICHE supports the faculty to academically recharge and rejuvenate their calibre by providing research grants, study leave, nomination to national/international conferences/seminars, in-service training, organizing national/international conferences etc. They are provided with financial support towards travel and registration. University also provides financial support for organizing national/international symposia and conferences from the General development Grant.
Industry Interaction / Collaboration
NICHE has a full-fledged Placement & Training Cell manned by an industry experienced person as the Director. The function of this cell is mainly to promote Institution-Industry Interaction for the benefit of the students to carry out their In-plant training and also to undertake Project Work as a part of their education requirements as per the norms framed by the University. The Cell is in constant touch with major industries throughout India to provide job opportunities to the students.
Admission of Students
Notification of Admission process is published in national dailies and on the University's web-site. University conducts entrance tests for all of its UG, PG Courses of Studies and Research Programmes. The admission to all the UG, PG and Research programmes is through an all India entrance test. The merit of the candidate in the entrance test and the marks obtained in the qualifying examination are taken into account for admission, thus ensuring full transparency in the admission process.
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 software
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
2017-2018	S. Beulah	Five days FDP on Data Science and Data Analytics by ICTACT	ICTACT permanent Member	1000
2017-2018	Dr. AC Subhajini	HADOOP (HORTONWORKS) by ICTACT	ICTACT permanent Member	1000

2017-2018	Dr.J.Joseph	Int. conference on ISCBC2018	ISCB Lucknow & Manipal University Jaipur	Rs.25000
2017-2018	Dr.J.Joseph	IPR workshop	RGNIIPM, Nagpur	Rs.15000
2017-2018	Dr. P. K. Praseetha	Working at the Chemistry-Microbiology Interface to develop new Antibiotics for tackling Antimicrobial Resistance and Resistance tuberculosis	Newton Babha Fund	20000

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)
2017-2018	Faculty Development Programme		08.08.18-10.08.18	27	
2017-2018		Staff Development Programme	10.08.18		85
2017-2018	Two-day Workshop on LaTeX		20.12.2017-21.12.2017	25	
2017-2018	Workshop on Learning Management System		26.02.2018	52	

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)
One day FDP on Exploring Experiential Learning in Higher Education	S.S.Pon Sudhir Sajan	19-12-2017
Exploring Experiential learning in Higher Education(FDP)	Dr.B.Stanly Jones Retnam	19-12-2017
Exploring Experimental Learning In Higher Education (FDP)	Dr Edwin Raja Dhas	19-12-2017
Workshop on Fundamentals of Biomedical Instrumentation	Dr.M.Murugan	06-04-2018

Workshop on Research Methodology	Jeba.J.R	08-03-2018 to 09-03-2018
Five days FDP on Data Science and Data Analytics by ICTACT	S. Beulah	27-11-2017 to 01-12-2017
Two day Workshop on Latex Conducted by NICHE	S. Beulah	21-12-2017 to 22-12-2017
International Conference on Applied Mathematics and theoretical computer science by St. Xavier's Catholic College of	S. Beulah	01-02-2018 to 03-02-2018
Two day Workshop on Research Methodology Conducted by NICHE	S. Beulah	08-03-2018 to 09-03-2018
Four day hands-on workshop on network performance analysis using NS-3	Dr. U.Kumaran	27-12-2017 to 30-12-2017
HADOOP(HORTONWORKS) by ICTACT	Dr. AC Subhajini	19-6-2018 to 23-6-2018
Python Programming	Dr. R. Chitra	01-12-2017 to 31-12-2017
Python Programming	Mrs. A.M.Anusha Bamini	01-12-2017 to 31-12-2017
Outcome Based Education	Dr. Julia Punitha Malar Dhas	11-02-2018
Faculty Development and Training Programme on" Design of Steel structures"	Mr. D. Allwin	05-12-2017 to 09-12-2017
Faculty Development and Training Programme on" Design of Steel structures"	Mr. R. Muthu Uthayan	05-12-2017 to 09-12-2017
Faculty Development and Training Programme on" Design of Steel structures"	Mr. S. Mathan kumar	05-12-2017 to 09-12-2017
Workshop on MATLAB with Image Processing	Prof. D. Shahi	24-04-2018 to 25-04-2018
Workshop on MATLAB with Image Processing	Prof. T. Gopalakrishnan	24-04-2018 to 25-04-2018
Workshop on Embedded system Programming with ARDUINO UNO	Dr. Vinod Kumar.R.S	23-03-2018 to 24-03-2018
Workshop on Embedded system Programming with ARDUINO UNO	Dr. N. Santhi	23-03-2018 to 24-03-2018
Workshop on Embedded system Programming with ARDUINO UNO	Dr. S. Amala Shanthi	23-03-2018 to 24-03-2018
Workshop on Embedded system Programming with ARDUINO UNO	Dr. M.Mary Synthuja Jain Preetha	23-03-2018 to 24-03-2018
Workshop on Embedded system Programming with ARDUINO UNO	Dr.K S Vijula Grace	23-03-2018 to 24-03-2018
Workshop on Embedded system Programming with ARDUINO UNO	Prof. T. Gopalakrishnan	23-03-2018 to 24-03-2018

Workshop on Embedded system Programming with ARDUINO UNO	Prof. D. Shahi	23-03-2018 to 24-03-2018
Workshop on Embedded system Programming with ARDUINO UNO	Prof. K P . Rajesh	23-03-2018 to 24-03-2018
Webinar on RTL & Design and Functional Verification	Dr. Vinod Kumar.R.S	11-10-2017
Webinar on RTL & Design and Functional Verification	Dr.Santhi	11-10-2017
Webinar on RTL & Design and Functional Verification	Dr..AmalaSanthi	11-10-2017
Webinar on RTL & Design and Functional Verification	Dr.G.Arocjia selva saroja	11-10-2017
Webinar on RTL & Design and Functional Verification	Prof. T.GopalaKrishnan	11-10-2017
Webinar on RTL & Design and Functional Verification	Dr.M.Sucharitha,	11-10-2017
Webinar on RTL & Design and Functional Verification	Dr.M.Mary SynthuJa Jain Preetha	11-10-2017
Webinar on RTL & Design and Functional Verification	Dr.S.Amala Shanthi	11-10-2017
Webinar on RTL & Design and Functional Verification	Dr..N.Subash	11-10-2017
Webinar on RTL & Design and Functional Verification	Prof.M.Sony	11-10-2017
Webinar on RTL & Design and Functional Verification	Prof.Shahi	11-10-2017
Webinar on RTL & Design and Functional Verification	Prof.K.P. Rajesh	11-10-2017
Webinar on RTL & Design and Functional Verification	Dr.K.S.Vijula Grace	11-10-2017
Professional Development Programme On 'Be A Self- Developed One Forever -	Dr. M.IIankumaran	04-11-2017
Faculty Development Programme on Curriculum , Teacher and Technology	Dr. R. Jinu	14-12-2017 to 20-12-2017
Workshop on Practical Phonetics to Better Pronunciation	Dr. V. S. Bindhu	23-01-2018 to 25-01-2018
Workshop on Embedded System Programming with ARDUINO UNO	S. S. Kumar	23-03-2018 to 24-03-2018
Two Day Workshop on LaTeX	V. Amsaveni	20-12-2017 to 21-12-2017
Workshop on Embedded System Programming with ARDUINO UNO	D. Menaka	23-03-2018 to 24-03-2018

Workshop on MATLAB with Image Processing	D. Menaka	24-04-2018 to 25-04-2018
Two Day Workshop on LaTeX	R. Manju	20-12-2017 to 21-12-2017
Two Day Workshop on LaTeX	S. Felix Stephen	20-12-2017 to 21-12-2017
Two Day Workshop on LaTeX	S. Binu Sathiya	20-12-2017 to 21-12-2017
Excellence In research and education	Dr.M.Sulaipher	03-05-2018 to 06-05-2018
MATLAB with Image Processing(Workshop)	Dr.R.Mathusoothana.S.Kumar	24-04-2018 to 25-04-2018
MATLAB with Image Processing(Workshop)	Dr. S. Maria Celestin Vigila	24-04-2018 to 25-04-2018
MATLAB with Image Processing(Workshop)	Dr.N.Sugitha	24-04-2018 to 25-04-2018
MATLAB with Image Processing(Workshop)	Dr.S.Palanikumar	24-04-2018 to 25-04-2018
Data Science Research and Big Data Analytics (FDP)	Dr.S.Palanikumar	11-12-2017 to 23-12-2017
MATLAB with Image Processing(Workshop)	Dr.V.Mary Amala Bai	24-04-2018 to 25-04-2018
MATLAB with Image Processing(Workshop)	Ms.Y.Jeyasheela	24-04-2018 to 25-04-2018
MATLAB with Image Processing(Workshop)	Dr.T.Brindha	24-04-2018 to 25-04-2018
MATLAB with Image Processing(Workshop)	Mrs.M.B.Jayalekshmi	24-04-2018 to 25-04-2018
MATLAB with Image Processing(Workshop)	Dr.K.Sivasankar	24-04-2018 to 25-04-2018
MATLAB with Image Processing(Workshop)	Ms.T.V.Sindia	24-04-2018 to 25-04-2018
MATLAB with Image Processing(Workshop)	Ms.S.V.Divya	24-04-2018 to 25-04-2018
Two Day Workshop on Latex	Dr.M.Immaculate Mary	20-12-2017 to 21-12-2017
Two Day Workshop on Latex	Dr.P.B.Sarasija	20-12-2017 to 21-12-2017
Two Day Workshop on Latex	Dr. T.M Selvarajan	20-12-2017 to 21-12-2017
Two Day Workshop on Latex	Dr.S. Kumerasan	20-12-2017 to 21-12-2017

Two Day Workshop on Latex		Dr. K.UmaSamundesvari	20-12-2017 to 21-12-2017
Two Day Workshop on Latex		Dr.R.Binthiya	20-12-2017 to 21-12-2017
Two Day Workshop on Latex		Dr.P.Nageswari	20-12-2017 to 21-12-2017
Two Day Workshop on Latex		Dr.K.Uma Devi	20-12-2017 to 21-12-2017
Two Day Workshop on Latex		Dr, D. Sheeba Singh	20-12-2017 to 21-12-2017
Two Day Workshop on Latex		Dr.M.Sudha	20-12-2017 to 21-12-2017
Two Day Workshop on Latex		Mr.G.VictorJeya Chandra	20-12-2017 to 21-12-2017
Two Day Workshop on Latex		Mrs.P.JebaSheeja	20-12-2017 to 21-12-2017
Two Day Workshop on Latex		Dr . John Arul Singh	20-12-2017 to 21-12-2017
Two Day Workshop on Latex		Ms. C. Saranya	20-12-2017 to 21-12-2017
Two Day Workshop on Research Methodology		Dr.M.Immaculate Mary	08-03-2018 to 09-03-2018
Two Day Workshop on Research Methodology		Dr, D. Sheeba Singh	08-03-2018 to 09-03-2018
Advance research in material science		Prof.S.Raja	02-05-2018
Physics of Semiconductors		Dr.B. Bindhu	15-08-2017 to 20-11-2017
Physics of Semiconductors		Dr.R.Ganapathi Raman	15-08-2017 to 20-11-2017
Exploring Experimental Learning In Higher Education		I.Mani Prabha	19-12-2017
6.3.4 Faculty and Staff recruitment (no.for permanent/fulltime recruitment):			
Teaching		Non-teaching	
Permanent	Fulltime	Permanent	Fulltime
270	270	411	411
6.3.5 Welfare schemes for			
Teaching	Health Care through NIMS Hospital Group Insurance scheme Loans given for various purpose by Noorul Islam Staff Welfare Association – NISWA Rent Free Quarters for Faculty Medical facility in the NICHE health center		
	MoU with banks for personal loans at lower rate of interest		

Non teaching	Health Care through NIMS Hospital Two sets of Uniforms are provided for all the supporting staff Fee concision provided for the wards of Non-Teaching Staff Medical facility in the NICHE health center			
Students	Medical facility in the NICHE health center Sports facility Faculty-advisory system for mentoring students Counseling facility for the students			
6.4 Financial Management and Resource Mobilization				
6.4.1 Institution conducts internal and external financial audits regularly (with in 100 words each)				
The institute has a mechanism for internal and external audit. We have our own internal audit mechanism where internal audit is a continuous process in addition to the external auditors to verify the entire Income and Expenditure and the Capital Expenditure of the Institute each year. Qualified Internal Auditors from external resources have been appointed and a team of staff under them do a thorough check and verification of all vouchers of the transactions that are carried out in each financial year. Likewise an external audit is also carried out. There have been no major findings/objections. Minor errors or missions when pointed out by the audit team are immediately corrected/rectified and precautionary steps are taken to avoid such errors in future. The institute regularly follows Internal & external financial audit system.				
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 :-				
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 Academic Affairs
Administrative	No		Yes	Director Academic 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)				
NICHE officials interact with the parents during admission. Parents and teachers discuss about the difficulties in teaching learning and try to bridge the gap in the two. Parent Teacher Meetings help to communicate growth and the academic progress of their children. Keeping this goal in mind Parent Teacher Meetings or facilitated whenever necessary. This meeting is a platform to offer suggestions for further improvement and development of their students.				
6.5.4 Development programmes for support staff (at least three)				
6.5.5 Post Accreditation initiative(s) (mention at least three)				
6.5. 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
	-			

CRITERION VII – 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						
Title of the programme		Period (from-to)		Participants		
-				Female		Male
7.1.2 Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:						
The university has started taking initiatives to conserve energy by resorting to renewable energy sources. 10 KW Solar						
Photovoltaic Energy Production System has been installed in the Marine Hostel of the university to provide power to the hostel.						
Water harvesting measures have been taken by NICHE for keeping the ground water level safe. Water harvesting pits have						
7.1.3 Differently abled (Divyangjan) friendliness						
Items Facilities			Yes/No		No. of Beneficiaries	
Physical facilities						
Provision for lift			No		-	
Ramp/ Rails			Yes		All differently abled students	
Braille Software/facilities			-		-	
Rest Rooms			Yes		All students	
Scribes for examination			No		-	
Special skill development for differently abled students			No		-	
Any other similar facility			No		-	
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
7.1.5 Human Values and Professional Ethics						
Code of conduct (handbooks) for various stakeholders						
Title		Date of Publication		Follow up (maximum 100 words)		
7.1.6 Activities conducted for promotion of universal Values and Ethics						

Activity	Duration (from-----to-----)	Number of participants
7.1.7 Initiatives taken by the institution to make the campus eco-friendly (at least five)		
The students are not allowed to use the powered vehicles in the campus. Only LPG cylinders are used in hostels and other places for cooking. Use of renewable energy. Efforts for Carbon Neutrality. A number of trees have been planted in the campus.		

7.2 Best Practices

NIUSAT Nano Satellite

Noorul Islam University realized a Nano satellite named NIUSAT with the main objective of providing an opportunity for the students and faculty of the University to get first-hand knowledge and expertise in satellite technology and its societal applications. With the advent of miniaturization in electronics, Nano technology and the availability of Commercial off the Shelf (COTS) components, many useful payloads are being realized for the Nano satellite applications. The NIUSAT Nano satellite developed at Noorul Islam Centre for Higher Education (NICHE) under ISRO-Student Nano satellite program is a generic Nano satellite which can accommodate various payload options like messaging payload, data collection payloads, voice audio broadcasting payloads Automatic Identification System (AIS), Nano Technology Demonstration (NTD) because of its common bus architecture. The NIUSAT Nano satellite is a three axis stabilized satellite of size 275X275X195 mm cuboid as mainframe, accommodating all the house-keeping subsystems like telemetry, tele-command, Electrical Power system, Attitude Determination and Control System (ADCS) and on-board computers etc. The payload is an RGB camera developed under the guidance of SAC/ISRO and mounted on the top deck. After successfully completing all the stringent testing by the ISRO experts NIUSAT was launched into Orbit on 23rd June

2017 in PSLV C38. After separation, NIUSAT Antenna and Solar Panels deployed successfully and started sending the house keeping data to the Mission Control Centre at Noorul Islam Centre for Higher Education.

NIUSAT Features

② NIUSAT Mk1 is the first three axis stabilized Nano satellite using indigenously developed sun sensors, micro reaction wheels, magnetic torquers and using MEMS three axis gyroscopes and magnetometers.

② NIUSAT Mk1 uses the indigenously developed 30 m resolution and 60 km swath 3 band (RGB) multispectral camera.

② All sub systems are fully redundant to take care of any single point failure

- ② Four quadrant PSD based two axis sun sensors, magneto sensitive resistor based magneto meters and MEMS based 3 axis gyroscopes as attitude sensors.
- ② Four micro reaction wheels with 10mnms angular momentum capacity and 1.5 mNm torque in tetrahedral mounting and orthogonally mounted magnetic torquer coils as control actuators.
- ② Control algorithms for detumbling mode, sun pointing mode, 3 axis stabilization mode and momentum dumping mode
- ② 40 W power generation using 4 numbers of deployable solar panels
- ② 10 ah li-ion battery for power storage
- ② 64 numbers programmable current limited mosfet switches for sub system ON/OFF
- ② High performance dual core 32 bit e200 power architecture processor
- ② 8 GB storage flash for payload data
- ② UHF band for HK telemetry and VHF for tele-command operations
- ② Monopole antenna for UHF/VHF data transmission and reception
- ② High gain patch antenna for S-band transmitter
- ② Passive and Active thermal control systems
- ② NIUSAT Mk1 overall size: 275x275x195 mm³
- ② Overall mass: ~ 14.5 kg

7.3 Institutional Distinctiveness

Centre for Satellite Technology and Applications (CSTA)

Forethought of NICHE

On 26th December 2004, Tsunami struck the shores of India. It hit hard the shores of Southern India, especially Tamil Nadu, and Kanyakumari and the nearby places causing havoc hitherto unknown or never experienced by the people there. The devastation to life and property was shocking and terrifying. The impact of the Tsunami was acutely felt all over the country and the world. Loss of life was alarming. In the wake of the 2004 Tsunami, what became very clear was the lack of prediction measures of natural disasters before they struck.

The total lack of preparedness to tackle and manage the ravages caused by such disasters was another matter of concern. The scale of destruction brought by Tsunami to the Indian coast, especially to the coastal areas of Tamil Nadu and Kerala was distressing and disquieting. Disaster preparedness and disaster management became all the more important to countries like India in the wake of the large scale destruction and devastation caused by the hitherto unknown and unheard of

Tsunami. People living on the shores of Tamil Nadu and other states were taken unawares by Tsunami before understanding what was happening.

Overture

The Chancellor of Noorul Islam University was acutely aware of the lack of prediction systems in Tamil Nadu and India of the devastating natural calamities like earthquakes, tsunami and floods. Therefore, an earnest investigation into the possibilities of prediction of natural calamities became a disturbing botheration with the institution. The same was discussed with Sri. A. E. Muthunayagam, an expert in Propulsion Technology in Indian Space Programme, ISRO and Advisor of NICHE. With such high goals as to protect the lives and properties and even infrastructure during natural disasters, the NIU, ventured into building and launching a Nano Satellite into space with the support of space organizations of the Indian Government. And this has resulted in the NIU Nano Satellite Project in alliance with ISRO, Govt. of India. The purpose of building the nano satellite is for disaster mitigation and for developing an disaster management support system to support the costal peoples of kanyakumari district.

NICHE initiated the vital program for Satellite Technology development in association with ISRO & Industries, established facilities like Clean room for assembly, integration, testing and check out of the satellite, Ground station for command and control of orbiting satellite, Mission control center for monitoring the health of the orbiting satellite, controlling it and receiving data from it, R&D laboratories for a few subsystems development, and interface with ISRO for launching the Satellite. The students and faculties of NICHE are associated with these activities.

Noorul Islam Centre for Higher Education has started a separate state of the art Research Facility “CENTRE FOR SATELLITE TECHNOLOGY AND APPLICATIONS” for the development of Nano Satellites with the participation of Students and Faculty alongside industrial collaboration with other leading research organizations of the country to monitor the Indian land mass continuously and help the disaster managers by providing timely data during the onset of a disaster. Center for Satellite Technology & Applications (CSTA), has the following as its main aims and objectives:

- ② Establish State of the Art Knowledge base in Small Satellite Technology
- ② Develop in-house Infrastructure for Small Satellite Technology, including , Assembly, Integration, Checkout and Clean room facilities, Mission Control Centre and Ground Station, R&D and Data Processing Laboratories
- ② Establish Academic Programs and Award Post Graduate Degrees and Diplomas with appropriate Teaching and Learning Environment.
- ② Implement R&D programs to Develop Optimized satellite bus Architecture, Application Specific High Resolution Payloads and Data Processing Applications.
- ② Collaborate with National and International institutions for Technology Developments, Facility Establishment and production for commercialization
- ② Contribute to the National and global Small Satellite Programs by supplying Components and sub systems and providing Technology assistance.
- ② Develop a Geo Information System Based Application System to cater the needs of the Rural Public.