

ANNUAL REPORT

2015-16

CONTENTS

ANNUAL REPORT 2015 - 16

	Page no.
1.0 INTRODUCTION	4
1.1 Mission statement	4
1.2 Vision	4
1.3 Education system	4
1.4 New initiatives	4
2.0 AN OVERVIEW	4
2.1 Historical background	4
2.2 Location	4
2.3 Campus	4
2.4 Administration	4
2.5 Academic programme	4
2.6 Programme Offered	5
2.7 Admission procedure	6
2.8 Students	6
2.9 Examination & Evaluation	7
2.10 Placement	7
2.11 Games and Sports	7
2.12 Staff position	8
2.13 Notable Achievements	8
3.0 THE STAFF	11
3.1 Academic Staff (Teaching)	12
3.2 Non-Academic Staff (Non – Teaching Staff)	19
3.3. Training status	24
3.4 Placement of Staff for academic excellence	25
4.0 TEACHING PROGRAMMES	25
4.1 Programmes Offered	25
4.2 Courses-wise enrolment with sex, caste break-up	27
4.3 Admission Statistics –UG/PG Programmes, Coursewise	28
4.4 Student's Intake	31
4.5 The Hostels	35
4.6 Scholarships/Assistantships	36
4.7 Games and Sports	36
4.8 Awards	36
4.9 Examination details	37
4.10 Technology Business Incubator (TBI)	38
4.11 Technical Education Quality Improvement Programme (TEQIP)	39
5.0 RESEARCH AND DEVELOPMENT ACTIVITIES	39
5.1 Ph.D Programmes-Existing and Proposed	39
5.2 Details of Ph.D done so far	59

5.3	Proposed plan for Research	59
5.4	Institute – Industry Collaboration	62
5.5	Innovations and Technology Transfer	65
6.0	THE COUNCIL, BOG, AND OTHER COMMITTEES	65
6.1	Institute’s council	65
6.2	Board of Governors	65
6.3	Finance Committee	65
6.4	Building and Works committee	
	66	
7.0	CONCESSION FOR SC, ST AND HANDICAPPED STUDENTS	66
7.1	Concessions provided for Students	66
7.2	Concessions provided for Staff	66
8.0	FINACIAL STATUS	66
8.1	Analysis of Plan and Non-Plan grants	66
8.2	Expenditure Position for last three years	67
9.0	CENTRAL FACILITIES AND SEVICES	67
9.1	Computing and ITservices	67
9.2	Workshop	67
9.3	Educational Technology and Library	68
9.4	Laboratories	71
9.5	Hospital, Post office, Shopping centre	79
9.6	Physical facilities (Games and Sports)	79
9.7	Other facilities	79
10.0	NOTABLE ACHIEVEMENTS	82
10.1	Past achievements	82
10.2	Achievements that took place during the year	85
11.0	ANNEXURES	153
11.1	Institute’s Seneate	153
11.2	Board of Governors	155
11.3	Finance, Building and Works and other Committees	155
11.4	Research projects and Consultation jobs	156
11.5	Faculty Position	161
11.6	Administrative and other Staff	162
11.7	Staff Members deputed/Sponsored for Training, Learning	165
11.8	Scholarships and Awards	165
11.9	The Parent Teacher Association	166
11.10	National Service Scheme	166
11.11	Training & Placement statistics	167

1.0 INTRODUCTION

1.1 MISSION STATEMENT

To develop high quality technical education and personnel with a sound footing on basic engineering principles, technical and managerial skills, innovative research capabilities and exemplary professional conduct to lead and to use technology for the progress of mankind, adapting themselves to changing technological environment with the highest ethical values as the inner strength.

1.2 VISION

International standing of the highest calibre.

1.3 EDUCATION SYSTEM

Institute offers technical education based on a state of the art curriculum. The syllabi are designed and continuously updated in consultation with the experts and with the approval of the Senate. To meet with national requirement of high quality man power, Institute is not keeping any fixed number of the Ph.D Scholarship but proactively encourage the enrollment. All Undergraduate and Post graduate programmes have been designed in line with the IIT System, giving appropriate weights for the theory and practice.

1.4 NEW INITIATIVES

From 2002 admissions onwards, the curriculum & syllabi followed for the programmes offered in the institute are framed internally and vetted by experts in the relevant area. The institute senate finalizes the curriculum, syllabi, ordinances rules & regulations of various programmes. Major initiatives include the commencement of interdisciplinary and multidisciplinary programmes in cutting edge technology fronts.

2.0 AN OVERVIEW

2.1 HISTORICAL BACKGROUND

The National Institute of Technology Calicut (NITC), originally established in 1961 as a Regional Engineering College and got transformed to NIT on 26th June 2002, is one of the 30 similar institutions in the country. It is fully funded by Government of India. It is an Institute of National Importance under NIT Act 2007. This Institute mentors NIT Sikkim, which is one among the 10 new NITs added in the year 2009.

2.2 LOCATION

The institute is located at Chathamangalam, 22 km east of Calicut city, along the Kunnangalam-Mukkam road and covers an area of over 120 hectares, at the foot of the Western Ghats. The Calicut Railway Station and Airport are respectively 22 km and 45 km away from the Campus.

2.3 CAMPUS

The library, computer centre and laboratories of the institute are well equipped. The institute campus has all the essential amenities required. There is a campus school managed by a society formed by faculty members, a branch of State Bank of India, a Post Office, a Telephone exchange and canteens functioning within the institute campus. The institute has a Health centre to look after the medical needs of the students, employees and their families. The institute has adequate facilities for indoor and outdoor games, recreation and co-curricular activities. There are ten hostels and 45 apartments for the boys. One hostel with four blocks with an attached recreational centre and a megahostel with 500 rooms are available for girls. One International hostel with twenty semi-furnished rooms is also available. The institute has a good number of staff quarters and a guest house with 20 rooms.

2.4 ADMINISTRATION

2.4.1 GOVERNANCE

Institute is governed by the NIT Act 2007 and the statutes. Board of Governors and the senate are the authority of the Institute. President of India is the visitor to the Institute. Chairperson of the Board of Governors is nominated by the visitor.

2.4.2

Institute follows the multi-tier hierarchical administrative structure, with proper delegation from top to bottom. Director appointed by the Government of India is at the helm of the affairs. Five Deans spearhead the consultative mechanism that assists the Director in administration and management. The academic units of Departments and Schools are headed by faculty and the administrative sections are headed by officers of appropriate rank.

2.5 ACADEMIC PROGRAMMES

The institute imparts technical education at the degree and post graduate levels viz., (1) Under-Graduate (UG) programme of four years duration leading to B.Tech Degree, (2) UG programme of five years duration

leading to B.Arch. degree, (3) Post-Graduate (PG) programme of two years duration leading to M.Tech degree, (4) PG programme of two years duration leading to M.Sc degree (5) PG programme of three years duration leading to M.Sc (Tech) degree (6) a programme of three years duration leading to the Master of Computer Applications (MCA) degree and (7) a two year MBA programme. All the programmes are offered in credit-semester pattern. In addition, Ph.D programmes in all disciplines are also offered.

2.6 PROGRAMMES OFFERED

(a) Bachelor of Architecture (B. Arch)

(b) Bachelor of Technology (B. Tech) in the following disciplines:

Biotechnology
 Chemical Engineering
 Civil Engineering
 Computer Science and Engineering
 Electronics and Communication Engineering
 Electrical and Electronics Engineering
 Engineering Physics
 Mechanical Engineering
 Production Engineering

(c) Master of Technology (M. Tech) Programmes

Department/School	Department/School code	M. Tech Programmes	Pgm. Code
Civil Engineering	CE	Structural Engineering	CE61
		Traffic and Transportation Planning	CE62
		Offshore Structures	CE63
		Environmental Geotechnology	CE64
		Water Resources Engineering	CE65
Computer Science & Engineering	CS	Computer Science and Engineering	CS61
		Computer Science & Engineering (Information Security)	CS62
Electrical Engineering	EE	Instrumentation and Control Systems	EE61
		Power Systems	EE62
		Power Electronics	EE63
		Industrial Power and Automation	EE64
		High Voltage Engineering	EE65
Electronics and Communication Engineering	EC	Electronics Design and Technology	EC61
		Microelectronics and VLSI Design	EC62
		Telecommunication	EC63
		Signal Processing	EC64
Mechanical Engineering	ME	Industrial Engineering and Management	ME61
		Thermal Sciences	ME62
		Manufacturing Technology	ME63
		Energy Engineering and Management	ME64
		Material Science and Technology	ME65
		Machine Design	ME66
Nano Science and Technology	NST	Nanotechnology (NS61)	NS61

(d) Master of Science (Technology)

M. Sc (Tech) in the following disciplines:

1. Polymer Science and Technology (CY61)
2. Mathematics and Scientific Computing (MA61)
3. Photonics (PH 61)

(e) Master of Science

M.Sc (Tech) programmes listed in (d) above have been replaced by M. Sc in the following disciplines from 2012 admissions onwards:

1. Chemistry
2. Mathematics
3. Physics

(f) Master of Computer Applications (M C A)

M C A Programme is offered by the department of Computer Science and Engineering.

(g) Master of Business Administration (M B A)

M B A Programme is offered by the school of Management Studies.

(h) Doctor of Philosophy (Ph. D)

Ph. D programmes are offered by all the departments/schools.

2.7 ADMISSION PROCEDURE

Admission to B.Tech /B.Arch. programmes offered at NIT Calicut is made under the following categories:

Sl. No.	Category	Basis of Admission	Sanctioned Intake
1	Candidates from Kerala state (Home State Quota) †	*JEE Rank	469
2	Candidates from Other State (Other State Quota)†	*JEE Rank	468
3	Candidates from Lakshadweep & Kandvi (Home State Quota) †	*JEE Rank	33
4	Foreign Nationals \$	Marks in the Qualifying Examination	16
5	MEA Welfare Scheme #	Marks in the Qualifying Examination	02
6	Direct Admission of Students from Abroad (DASA) scheme	SAT II Score	94
Total			1082

† Reservations as per Rules of Gol.

* Joint Entrance Examination (Main), conducted by the Central Board of Secondary Education (CBSE), New Delhi.

\$ Nominated by Ministry of External Affairs (Students Cell), Gol, through Indian Council for Cultural Relations (ICCR).

Nominated by Ministry of External Affairs

PG Programmes

- The admission to PG programmes in Engineering and Technology with fellowship is based on GATE score.
- The admission to PG sponsored seats are based on the written test/interview conducted by the respective department.
- The admission to PG programmes if M.S.c Tech and MBA without fellowship is based on Institute's Criteria

Ph.D. Programmes

The admissions to Ph.D. programmes are based on merit and the written test/interview conducted by the Institute.

2.8 STUDENTS

The Students Affairs Council (SAC) 2015 -16 was elected and constituted with 64 Branch councilors and 12 Executive council members. The Annual Techno - Management Festival Tathva '15 was successfully conducted in November 2015. The event witnessed an all - time high registration count of 2000 external participation. "Avishkaar" was conducted as social initiative of Tathva '15. The project was to equip the old age home named Daivadaan in koothauparambu, Kannur with a solar water heater and a biogas plant. The whole equipment was set and assembled by the students. The annual culture festival RAGAM 2016 was organized in April 2016. Sneharagam was organized this year also as a Pre-Ragam event, exclusively for physically challenged students of different schools of northern Kerala which witnessed excellent participation. The event marked an all - time record in terms of registration with above 2000 external participation

2.9 EXAMINATION & EVALUATION

All academic programmes of the Institute follow the credit-semester system. Minimum credits to be earned for the award of various degrees are specified in the respective curricula. The modalities for continuous evaluation of various courses being offered by the departments are decided by the Institute Senate from time to time and are followed scrupulously. Slow learners are given adequate chances to pursue the studies.

2.10 PLACEMENT

During the session 2015-16, 118 companies visited the campus for recruitment. 118 firms made a total of 633 offers. The details are shown in Annexure I.

B.Tech Programme: 488 out of 682 eligible B.Tech students (70.4%) got placed. The B.Tech placement details are shown in Annexure I. The highest salary (CTC) offered for B Tech is 27 lakhs by Directi. The institute average salary is 5.8 L

	2015-16	Total	Placed Students	Max Salary	Min salary	Avg salary
B.Tech	Bio technology	14	7	5	3.5	3.8 L
	Chemical Engg	70	40	11.5	3	6.4l
	Civil Engg	100	33	11.5	3	4.84L
	Computer science	126	114	26	3.5	8.9L
	E & C Engg	109	106	14	3.5L	6.4L
	EEE	113	80	9	3.5	5.9L
	EP	11	7	6	3.5	4.2L
	Mechanical	107	80	11.5	3	6.2L
	Production Engg	32	13	6	3	5.4L

20Lakhs and above	=	7 offers
10Lakhs and 20 lakhs	=	64 offers
5 Lakhs and 10 Lakhs	=	379 offers
3 Lakhs and 5 Lakhs	=	183 offers

B.Arch Programme: Since the students were doing projects outside the campus, the students could not attend the campus placement.

M.Tech Programme: Out of the 325 M.Tech students 103 students got placed. Overall 31% got placed.

MCA Programme: Out of the 32 students 22 students got placed leading to 68% placement.

MBA Programme: Out of 34 students 17 students got placed.

2.11 GAMES AND SPORTS

PHYSICAL EDUCATION OBJECTIVES

Unlike the REC days, where physical education and sports was a voluntary activity and optional in the curriculum, the NIT scenario has physical education as a compulsory entity in the curriculum. The OT programme included in the time table comprise of classroom orientation of freshers and a one-credit course in physical education (Code: ZZ1093). Mass participation and interclass activities run simultaneously aiding in talent search, formation of institute teams, providing them specialist training by professional coaches and exposing them in as many interscholastic tournaments as possible. Olympic values programme stress on character development through sports & event-managerial abilities. Tae Kwon - do equipped girl students with courage and skill to defend themselves and fight in justice.

2.12 STAFF POSITION

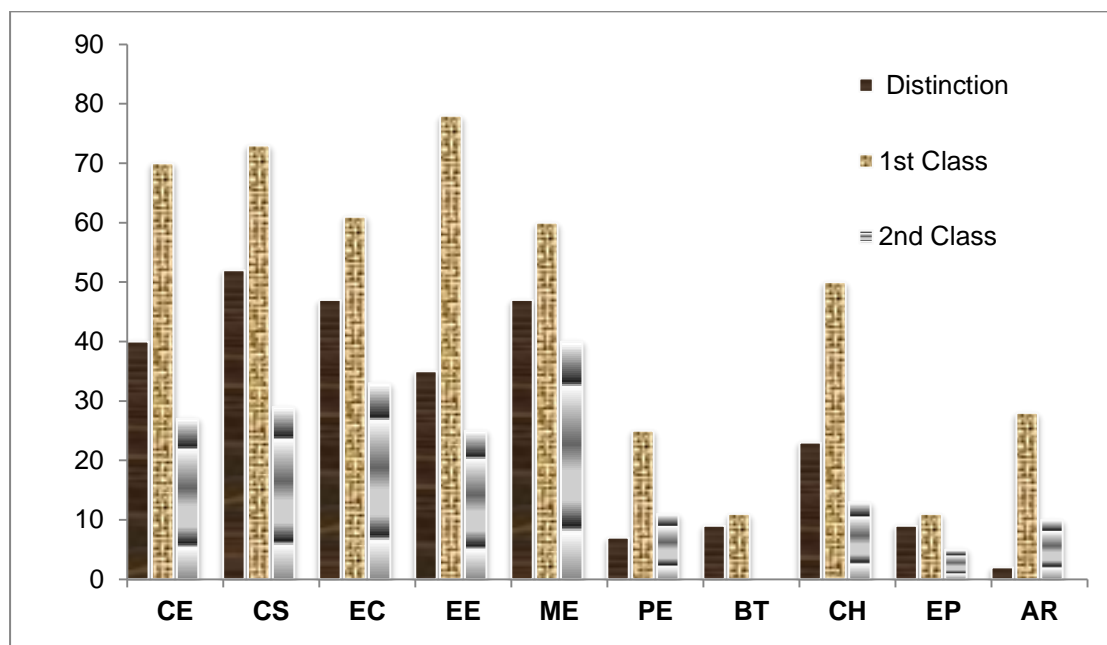
Teaching Staff

The sanctioned strength of teaching staff is 282. The department wise break-up of the sanctioned and in position strength of faculty is given below.

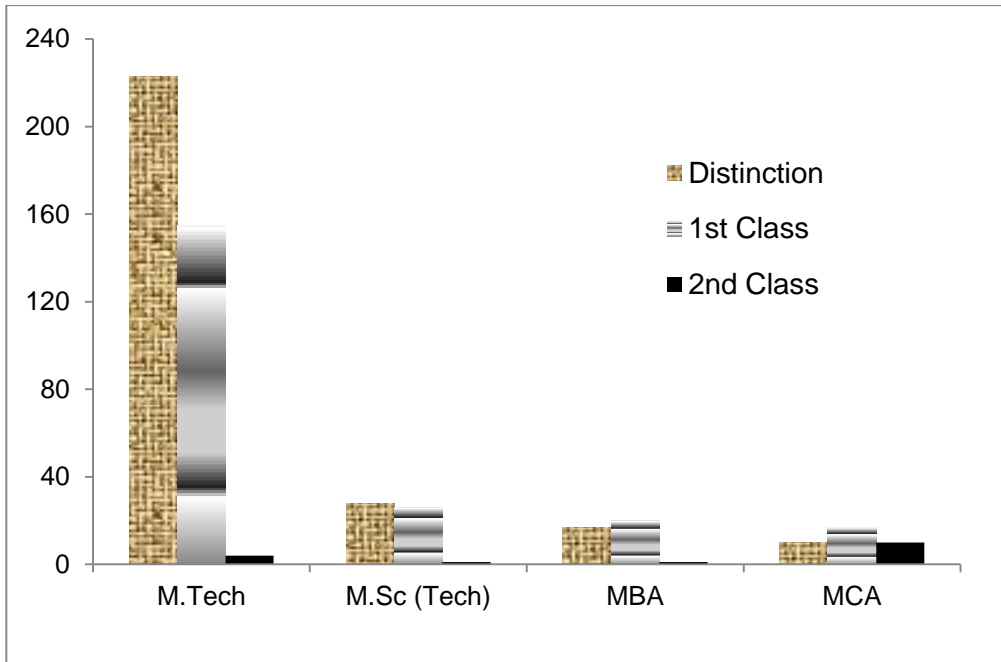
Department	Sanctioned	In position as on 31.03.2016
Architecture	12	7
Chemical Engineering	12	9
Civil Engineering	41	27
Computer Science & Engineering	33	20
Electrical & Electronics Engineering	38	25
Electronics & Communication Engineering	34	24
Mechanical Engineering	52	31
Mathematics	19	15
Physics, Chemistry and Humanities	18	14
Training & Placement & Physical Education	4	3
Biotechnology	---	7
School of Management Studies	---	4
School of Nanoscience & Technology	---	6
Additional Posts Sanctioned	19	---
Total	282	192

2.13 NOTABLE ACHIEVEMENTS (using Graphs, Charts, Diagrams)

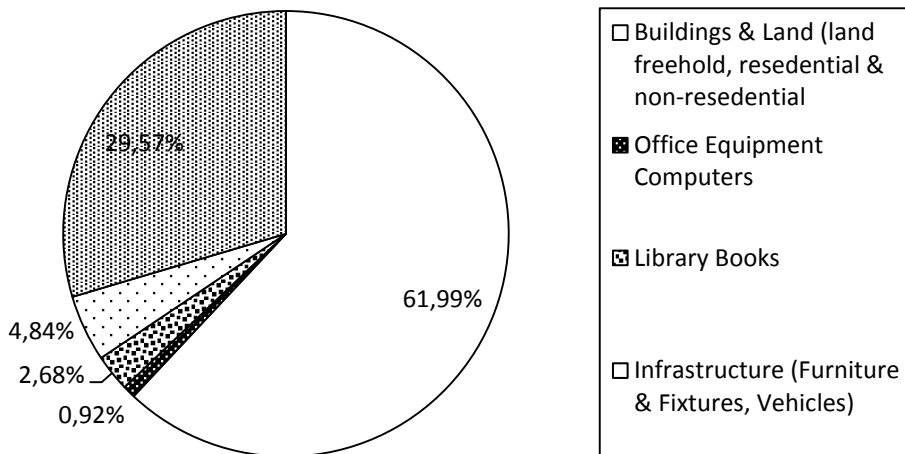
(i) Details of B.Tech & B.Arch students passed out in 2015-2016



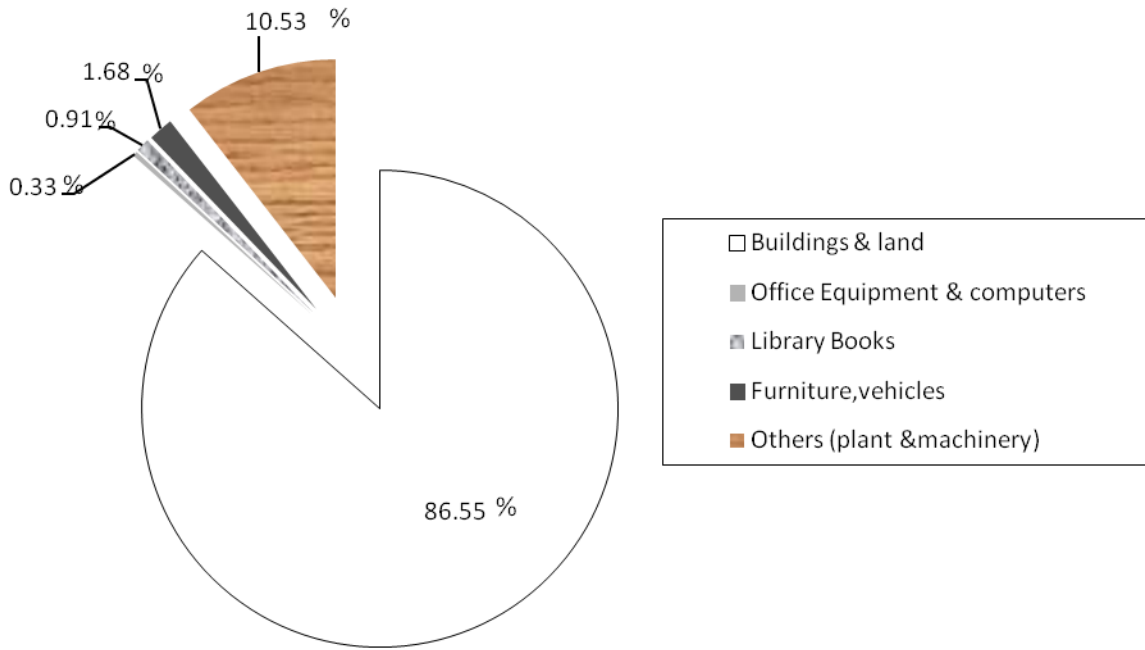
(ii) Details of M.Tech.MCA & MSc.Tech.Students passed out in 2015-2016



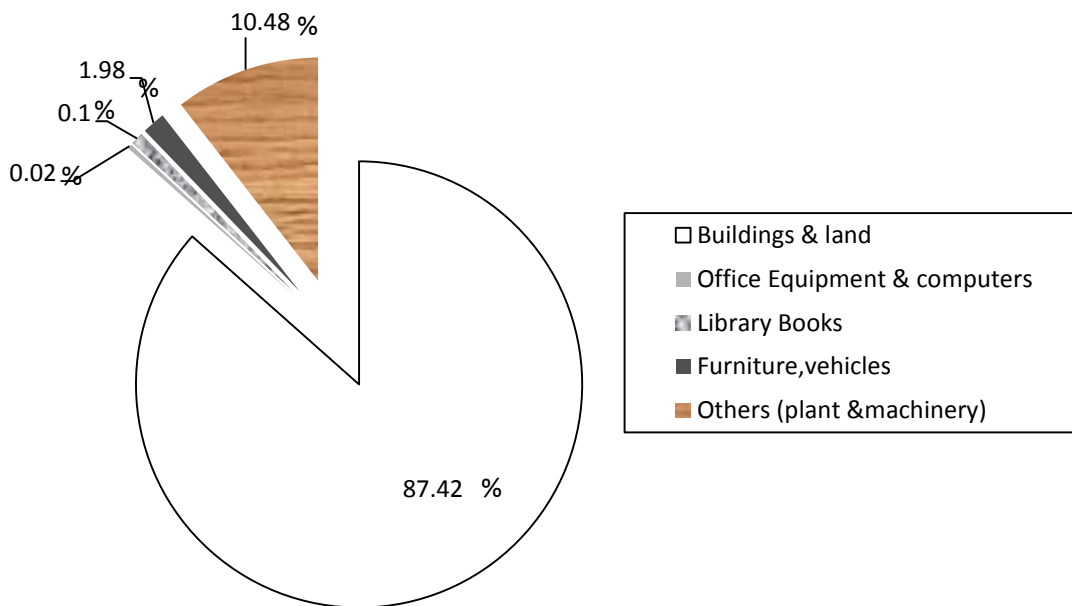
(iii) Details of Assets as on 31.03.2013



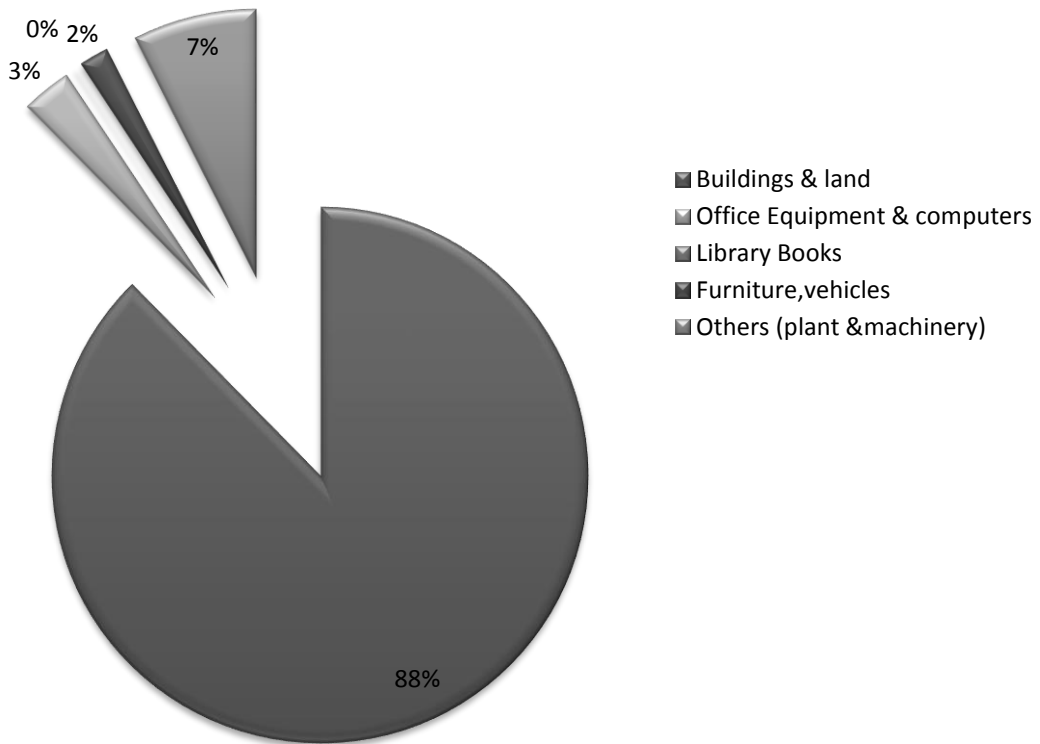
(iv) Details of Assets as on 31.03.2014



(v) Details of Assets as on 31.03.2015



(vi) Details of Assets as on 31.03.2016



3.0. THE STAFF

DIRECTOR: Dr.Sivaji Chakravorti

REGISTRAR: Dr. B. Sukumar

DEANS

Dr.A. P. Shashikala	:	Academic
Dr. S. Chandrakaran	:	Planning & Development
Dr.Abraham T Mathew	:	Research and Consultancy
Dr.R Sridharan	:	Faculty Welfare
Dr.G Unnikrishnan	:	Students Welfare

ASSOCIATE DEANS

Dr.A. Santhiagu	:	Academic
Dr.Lity Alen Varghese	:	Academic
Dr.V .Sajith	:	Planning & Development
Dr.K Krishnamurthy	:	Planning & Development
Dr.A. Sujith	:	Research and Consultancy
Dr.Satyananda Panda	:	Faculty Welfare
Dr.Mohammed Firoz	:	Students Welfare

3.1 ACADEMIC STAFF (Teaching)

DEPARTMENT OF ARCHITECTURE

Sl. No	Name	Designation	Qualification	Specialization
1.	Dr. Naseer M.A	Associate Professor & Head	B. Tech, MCP, Ph. D	Architectural Engg., City Planning
2.	Dr. P.P Anil Kumar.	Associate Professor	B. Tech, MCP, Ph. D	Architectural Engg., City Planning
3.	Dr. Kasthurba A. K	Associate Professor	B. Arch, M. Tech, Ph. D	Building Technology, Architectural Conservation
4.	Dr. Mohammed Firoz C	Assistant Professor	B. Arch, MURP, Ph. D	Architecture, Urban and Regional Planning
5.	Ms. Chithra .K	Assistant Professor	B. Arch, M Planning	Architecture, Town Planning
6.	Ms. Shyni (On QIP to IIT Kgp)	Assistant Professor	B. Tech, M Planning	Architectural Engg, Housing
7.	Mr. Bimal P	Assistant Professor	B. Arch, MCP	Architecture, City Planning
8.	Mr. Sundeep Kumar	Adhoc Faculty	B. Arch, MCP	Architecture, City Planning
9.	Ms. Suzana Jacob V	Adhoc Faculty	B. Tech, M. Tech	Urban planning
10.	Ms. Samiksha Srichandan	Adhoc Faculty	B. Arch M. Arch	Architectural Conservation
11.	Ms. Jyothi Anna John	Adhoc Faculty	B. Arch M. Plan	Environmental Planning
12.	Ms. Jasna Bhargavan	Adhoc Faculty	B. Arch MCP	City Planning
13.	Mr. George Tharakan	Adhoc Faculty	B. Tech M. Tech	Civil Engineering, Geotechnical Engineering
14.	Ms. Priyanka Singh	Adhoc Faculty	B. Arch M. Plan	Environmental Planning
15.	Ms. Anu V V	Adhoc Faculty	B. Tech M. Tech	Civil Engineering, Geotechnical Engineering
16.	Ms. Lakshmi M	Adhoc Faculty	B. Arch MUD	Urban Design
17.	Ms. Aruna S Reddi	Adhoc Faculty	AIIA, MURP, MRP, Ph. D	GIS
18.	Mr. Sangeeth K	Adhoc Faculty	B. Arch, M. Plan	Urban Transport Planning
19.	Mr. Jayaram J	Adhoc Faculty	B. Tech, M. Tech	Civil Engineering, Marine Structures
20.	Ms. Deepika Goram	Adhoc Faculty	B. Tech M. Plan	Civil Engineering, Urban Planning
21.	Ms. Dipti D Kamath	Adhoc Faculty	B. Tech M. Tech	Civil Engineering, Environmental Engg.
22.	Mr. Abey E Thomas	Adhoc Faculty	B. Tech M. Tech Ph. D	Civil Engineering, Structural Engineering
23.	Ms. Jinu T P	Adhoc Faculty	B. Tech M. Plan	Civil Engineering, Housing
24.	Ms. Anisha Ranjit	Adhoc Faculty	B. Tech M. Plan	Civil Engineering, Urban Planning
25.	Mr. Muhammed Ashik T K	Adhoc Faculty	B. Tech M. Tech	Civil Engineering, Structural Engineering
26.	Mr. Shashikant Nishant Sharma	Adhoc Faculty	B. Plan M. Plan	Planning, Urban Planning

DEPARTMENT OF CHEMICAL ENGINEERING

Sl. No.	Name	Designation	Qualification	Specialization
1	Dr. Shiny Joseph	Associate Professor & Head	Ph.D	Mass transfer and Hydrodynamics
2	Dr. V.Sivasubramanian	Associate Professor	MBA, PhD	Fluidization Engineering
3	Dr. Lily Alen Varghese	Associate Professor	Ph.D	Polymer Technology
4	Dr. Aparna. K	Assistant Professor	Ph.D	Heat Transfer
5	Dr. N. Selvaraju	Assistant Professor	Ph.D	Modelling & Simulation
6	Dr.Malladi V Pavan Kumar	Assistant Professor	Ph.D	Process control
7	Dr. S. Bhuvaneshwari	Assistant Professor	Ph.D	Bio separation Technology
8	Mr. Vineesh Ravi	Assistant Professor	M. Tech.,	Fuel cell
9	Mr. K. Haribabu	Assistant Professor	M.E.	Separation and water treatment technology

DEPARTMENT OF CIVIL ENGINEERING

Sl. No.	Name	Designation	Qualification	Specialisation
1	Dr. M.V.L.R. Anjaneyulu	Professor & Head	Ph.D	Transportation Engg.
2	Dr. S.Chandrakaran (Dean, P & D)	Professor	Ph.D	Geotechnical Engg
3	Dr. N.Ganesan	Professor	Ph.D	Structural Engg.
4	Dr. P.V.Indira	Professor	Ph.D	Structural Engg.
5	Dr. T.M.Madhavan Pillai	Professor	Ph.D	Structural Engg.
6	Dr. Mohammed Ameen	Professor	Ph.D	Structural Engg.
7	Dr. V.Mustafa	Professor	Ph.D	Structural Engg.
8	Dr. N.Sankar	Professor	Ph.D	Geotechnical Engg
9	Dr. Santosh.G. Thampi	Professor	Ph.D	Hydraulics
10	Dr. A.P.Shashikala (Dean, Acad.)	Professor	Ph.D	Structural Engg.
11	Dr. T.P.Somasundaran	Professor	Ph.D	Structural Engg
12	Dr. J.Sudhakumar	Professor	Ph.D	Building Technology
13	Dr. T.Zachariah Varghese	Professor	Ph.D	Structural Engg.
14	Dr. K. Krishna Murthy	Associate Professor	Ph.D	Transportation Engg.
15	Dr. Praveen Nagarajan	Associate Professor	Ph.D	Structural Engg.
16	Sri K.Saseendran	Associate Professor	B.Sc. (Geo.), M.Tech.	Geology
17	Dr. K Sasikumar	Associate Professor	Ph.D	Water Resources Engg.
18	Dr. Chitra N R	Assistant Professor	M.Tech	Hydraulics & Water Resources Engg
19	Dr. George K Varghese	Assistant Professor	M.Tech	Environment Engg.
20	Dr. Harikrishna M	Assistant Professor	M.Tech	Transportation Engg.
21	Dr. Kodi Ranga Swamy	Assistant Professor	Ph.D	Geotechnical Engg
22	Dr. Mini Remanan	Assistant Professor	Ph.D	Structural Engg.
23	Dr. Pramada S K	Assistant Professor	M.Tech	Water Resources Engg
24	Smt. Reesha Bharath K (Pursuing Ph.D under QIP)	Assistant Professor	M.Tech	Construction Technology
25	Dr. Sajith A S	Assistant Professor	M.Tech	Structural Engg.
26	Dr. Sathish Kumar D	Assistant Professor	M.Tech	Remote Sensing & GIS
27	Sri. Siva Kumar M	Assistant Professor	M.Tech	Transportation Engg.
28	Dr. Nisha L	Adhoc Faculty	Ph.D	Environment Engg.
29	Dr. Caleb Ronald Munigety	Adhoc Faculty	Ph.D	Transportation Engg
30	Ms. Nivya George	Adhoc Faculty	M.Tech	Transportation Engg
31	Mr. Akhil K S	Adhoc Faculty	M.Tech	Geotechnical Engg.

32	Ms. Rekhasree K S	Adhoc Faculty	M.Tech	Geotechnical Engg.
33	Ms. Anu Jose	Adhoc Faculty	M.Tech	Geotechnical Engg.
34	Ms. Sreeju K B	Adhoc Faculty	M.Tech	Water Resources Engg
35	Ms. Sreelakshmi Babu	Adhoc Faculty	M.Tech	Transportation Engg
36	Ms. Nasma Noor	Adhoc Faculty	M.Tech	Offshore Structures
37	Ms. Subha S Raj	Adhoc Faculty	M.Tech	Remote sensing
38	Mr. Abdul Akbar M	Adhoc Faculty	M.Tech	Structural Engg.
39	Mr. Goutham Sarang	Adhoc Faculty	M.Tech	Transportation Engg
40	Dr. Athira P	Adhoc Faculty (Under Inspire)	Ph.D	Water Resources Engg

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Sl. No.	Name	Designation	Qualification	Specialisation
1	Dr. V K Govindan	Professor	Ph. D	Image Processing, Medical Imaging, Agent Technology, Pattern Recognition, Document Imaging, Operating Systems
2	Dr. Vineeth Kumar Paleri	Professor	Ph. D	Programming Languages & Compilers.
3	Dr. Priya Chandran	Professor	Ph. D	Computer Architecture, Algorithms
4	Dr. S.D Madhu Kumar	Associate Professor	Ph. D	Middleware, DBMS, Software Engineering
5	Dr. Abdul Nazeer K A	Associate Professor & Head	Ph. D	Database Systems, Bioinformatics
6	Dr. Murali Krishnan K	Associate Professor	Ph. D	Algorithms and Complexity, Coding Theory
7	Dr. Vinod P	Associate Professor	Ph. D	Information Security Management
8	Mr. Saidalavi Kalady	Associate Professor	M. E	Data Mining, Operating Systems
9	Ms. Saleena N	Assistant Professor	M. Tech.	Program Analysis , Compilers
10	Ms. Subhasree M	Assistant Professor	M. E	Computational Geometry
11	Dr. Subashini R	Assistant Professor	Ph. D	Algorithms and Data Structures
12	Mr. Sumesh T A	Assistant Professor	M. Tech.	Computer Networks, Computer Vision
13	Mr. Sreenivasa T M	Assistant Professor	M. Tech.	DNA Computing
14	Mr. Sreenu Naik Bhukya	Assistant Professor	M. Tech.	Computer Networks
15	Ms. Lijiya A	Assistant Professor	M. Tech.	Image Processing
16	Mr. Jimmy Jose	Assistant Professor	M. Tech.	Cryptography and Security
17	Ms. Anu Mary Chacko	Assistant Professor	M. Tech.	Computer Security
18	Ms. Pournami P.N.	Assistant Professor	M. Tech.	Image Processing, Data Structures
19	Mr. Jayaraj P B	Assistant Professor	M. Tech.	High Performance Computing
20	Dr. Sudeep K.S	Assistant Professor	Ph. D	Algorithms, Graph Theory
21	Dr. Gopakumar G	Assistant Professor	Ph. D	Bioinformatics, data Mining

DEPARTMENT OF ELECTRICAL ENGINEERING

Sl. No	Name	Designation	Qualification	Specialization
1	Dr. Abraham T Mathew	Professor	Ph.D.	Instrumentation & Control
2	Dr. Ashok S	Professor	Ph.D.	Power & Energy Systems

3	Dr. Jeevamma Jacob	Professor & Head	Ph.D.	Control Systems
4	Dr. M. P. Nandakumar	Professor	Ph.D.	Control Systems
5	Dr. Paul Joseph K.	Professor	Ph.D.	Biomedical Instrumentation
6	Dr. Saly George	Professor	Ph.D.	Power Electronics
8	Dr. K S Sivanandan	Professor	Ph.D.	Instrumentation & Control
9	Dr. Susy Thomas	Professor	Ph.D.	Control Systems
10	Dr. M V Vaidyan	Professor	Ph.D.	Control Systems
11	Mr. P. Ananthkrishnan	Associate Professor	M.Tech.	Power Electronics & Drives
12	Mr. K. S. Suresh Kumar	Associate Professor	M.Tech.	Power Electronics
13	Dr. Elizabeth P. Cheriyan	Associate Professor	Ph.D.	Power Systems
14	Dr. Preetha. P.	Associate Professor	Ph.D.	High Voltage Engg.
15	Dr. Rijil Ramchand	Associate Professor	Ph.D.	Power Electronics
16	Ms. Hema Rani.P	Assistant Professor	M.Tech (IIT Kanpur)	Power Electronics
17	Dr. Jagadanand G	Assistant Professor	Ph.D.	Signal Processing
18	Dr. Kumaravel S	Assistant Professor	Ph.D.	Power Systems
19	Dr. Mija S J	Assistant Professor	Ph.D.	Control Systems
20	Dr. Mukti Barai	Assistant Professor	Ph.D.	Power Electronics
21	Dr. Sindhu T K	Assistant Professor	Ph.D.	Power Systems & High Voltage Engg.
22	Dr. Subha. D.P	Assistant Professor	Ph.D.	Biomedical Engineering
23	Mr. Subhash K.M.	Assistant Professor	M.Tech (NIT Calicut)	Instrumentation & Control
24	Dr. T K Sunil Kumar	Assistant Professor	Ph.D.	Power Systems
25	Dr. Sunitha K	Assistant Professor	Ph.D.	High Voltage Engg.
26	Dr. Sunitha. R	Assistant Professor	Ph.D.	Power Systems

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Sl. No.	Name	Designation	Qualification	Specialization
1	Dr. Elizabeth Elias	Professor & Head	Ph. D	Digital Signal Processing
2	Dr. Lillykutty Jacob	Professor	Ph. D	Computer Networks
3	Dr. P.C.Subramaniam	Professor	Ph. D	Optical Communication
4	Dr. P. S. Sathidevi	Professor	Ph. D	Digital Speech & Audio Processing
5	Dr. G. Abhilash	Associate Professor	Ph. D	Signal Theory
6	Ms. Lyla.B.Das	Associate Professor	M. Tech	Digital Communication
7	Dr. C.K.Ali	Associate Professor	Ph. D	Communication Engineering
8	Dr. A.V.Babu	Associate Professor	Ph. D	Communication Engineering
9	Mr. R.Suresh	Associate Professor	M.Tech	Digital Electronics
10	Dr. S.M.Sameer	Associate Professor	Ph. D	Wireless Communication
11	Dr. Rama Subrahmaniam	Associate Professor	Ph. D	VLSI & Microelectronics
12	Mr. Jaikumar.M.G	Associate Professor	M.Tech	Microelectronics
13	Dr. Sreelekha.G	Associate Professor	Ph. D	Signal Processing
14	Dr. Deepthi.P.P	Associate Professor	Ph. D	Communication
15	Mr. Dhanaraj K.J	Assistant Professor	M. Tech	Digital Systems & Communication
16	Mr. V. Sakthivel	Assistant Professor	M. Tech	Advanced communication systems
17	Mr. Bhuvan B	Assistant Professor	M. Tech	Electronic Design & Technology
18	Mr. Raghu C V	Assistant Professor	M. Tech	Electronic Design & Technology

19	Dr. Suja K J	Assistant Professor	Ph. D	Opto-Electronics
20	Dr. Bindiya T S	Assistant Professor	Ph. D	VLSI Design
21	Dr. Ameer P M	Assistant Professor	Ph. D	Telecommunication
22	Mr. Jayakumar E P	Assistant Professor	M. Tech	VLSI Design
23	Dr.Sudhish N George	Assistant Professor	Ph. D	Signal processing

DEPARTMENT OF MECHANICAL ENGINEERING

Sl. No	Faculty Name	Designation	Qualification	Specialization
1.	Dr. Allesu K	Professor & Head	PhD.	Manufacturing Science
2.	Dr. Ghulam Jilani	Professor	PhD.	Thermal Engineering
3.	Dr. Jayaraj S	Professor	PhD.	Computational Fluid Dynamics
4.	Dr. Jose Mathew	Professor	PhD.	Manufacturing Science
5.	Dr. Joseph M A	Professor	PhD.	Production Engineering
6	Dr. Joy M L	Professor	PhD.	Machine Design & Tribology
7	Dr. Muraleedharan C	Professor	PhD.	Refrign & Air Conditioning
8	Dr. Prabhakaran Nair K	Professor	PhD.	Machine Design & Tribology
9	Dr.Rajendra Kumar P K	Professor	PhD.	Machine Design & Tribology
10	Dr. Ramachandran N	Professor	PhD.	Unconventional Machining
11	Dr. Sridharan R	Professor	PhD.	Industrial Engineering
12	Dr. Biju T. Kuzhiveli	Associate Professor	PhD.	Cryogenics
13	Dr.Madhusudanan PillaiV	Associate Professor	PhD.	Industrial Engineering
14	Dr. Manu R	Associate Professor	PhD.	Manufacturing Engineering
15	Dr. Narayanan M D	Associate Professor	PhD.	Solid Mech. & Design
16	Dr. Shaija A	Associate Professor	PhD.	CFD and Heat Transfer
17	Dr. Arun P	Assistant Professor	PhD.	Energy Engineering
18	Dr. Dhanish P B	Assistant Professor	PhD.	Production Engineering
19	Dr. Gangadhara Kiran Kumar L	Assistant Professor	PhD.	Fluids and Thermal Sciences
20	Dr. Jagadeesha T	Assistant Professor	PhD.	Manufacturing Technology
21	Dr. Jayadeep U B	Assistant Professor	PhD.	Solid Mechanics & Design
22	Sri. Manu P V	Assistant Professor	M. Tech.	Propulsion Engineering
23	Dr. Radha Ramanan T	Assistant Professor	Ph.D.	Industrial Engineering
24	Sri. Ratnakumar K	Assistant Professor	M. Tech.	Industrial Management
25	Sri. Rohini Kumar B	Assistant Professor	M. Tech.	Thermal Engineering
26	Dr. Sarvoththama Jothi TJ	Assistant Professor	PhD.	Thermal and Fluids Engineering
27	Dr. Sekar K	Assistant Professor	PhD	Manufacturing Technology
28	Dr. Sudheer A P	Assistant Professor	PhD	Manufacturing Engineering / Robotics
29	Sri. Sreenath A M	Assistant Professor	M. Tech.	Machine Design
30	Dr. Srinivas M	Assistant Professor	PhD.	Energy Engineering
31	Dr. Varaprasad G	Assistant Professor	Ph.D.	Industrial Engineering & Management
32	Dr. Vinay V. Panicker	Assistant Professor	Ph.D.	Industrial Engineering

DEPARTMENT OF MATHEMATICS

Sl. No.	Name	Designation	Qualification	Specialization
1	Dr. M.J. Jacob	Professor	M.Sc., Ph.D.	Stochastic Processes
2	Dr. Jessy John C	Professor	M.Sc., Ph.D.	Time series Modelling
3	Dr. V. Narayanan	Associate Professor	M.Sc., Ph.D.	Queuing Theory
4	Dr. Chithra. A.V.	Associate Professor & Head	M.Sc., Ph.D.	Operator Theory, Graph theory
5	Dr. Sunil Jacob John	Associate Professor	M.Sc., M. Phil., Ph.D.	Generalized Set Theory, Topology
6	Dr. M.S. Sunitha	Associate Professor	M.Sc., M. Phil. Ph.D.	Fuzzy Graph Theory
7	Dr. C. M. Sushama	Associate Professor	M.Sc., Ph.D.	Fuzzy Optimization

8	Dr. Satyananda Panda	Associate Professor	M.Sc., Ph.D.	Computational Fluid Dynamics, Modeling & Scientific Computing
9	Dr. Lineesh. M.C.	Assistant Professor	M.Sc.	Time Series Analysis and Wavelet Theory.
10	Dr. Sanjay. P.K.	Assistant Professor	M.Sc, Ph.D.	Harmonic Analysis
11	Dr. Krishnan Paramasivam	Assistant Professor	M.Sc., Ph.D.	Algebraic Graph Theory, Algorithms & Complexity
12	Dr. Sunil Mathew	Assistant Professor	M.Sc. ,Ph.D.	Fuzzy Graph Theory, Biocomputational modeling, Fractal Geometry
13	Dr. Mahesh Kumar	Assistant Professor	M.Sc., Ph.D.	Applied Statistics, Reliability of systems
14	Dr. Suresh Kumar Nadupuri	Assistant Professor	M.Sc. , Ph.D.	Numerical Methods and Scientific Computing.
15	Dr. Ashish Awasthi	Assistant Professor	M.Sc. ,Ph.D.	Numerical Analysis, Singular Perturbation

DEPARTMENT OF CHEMISTRY

Sl. No.	Name	Designation	Qualification	Specialization
1	Dr. G. Unnikrishnan	Professor	M. Sc. Ph.D.	Polymer Science & Technology
2	Dr. Lakshmi C.	Associate Professor	M. Sc. Ph.D.	Bio-organic Chemistry
3	Dr. Lisa Sreejith	Associate Professor & Head	M. Sc. M Phil, Ph.D.	Surface Chemistry
4	Dr. Sujith A	Assistant Professor	M. Sc. Ph.D.	Polymer Technology
5	Dr. Suni Vasudevan	Assistant Professor	M. Sc. Ph.D.	Inorganic Chemistry
6	Dr. C. Arunkumar	Assistant Professor	M. Sc. Ph.D.	Bio-inorganic Chemistry
7	Dr. Parameswaran Pattiyil	Assistant Professor	M. Sc. Ph.D.	Theoretical & Computational Chemistry

DEPARTMENT OF PHYSICS

Sl. No.	Name	Designation	Qualification	Specialization
1.	Dr. P. Predeep	Professor	M.Sc., Ph.D.	Condensed Matter Physics – Molecular Electronics, Photonics and Advanced Materials
2.	Dr. Chandrasekharan. K.	Professor	M.Sc., Ph.D.	Solid state physics, Nonlinear Optics
3.	Dr. Raghu Chatanathodi	Associate Professor	M.Sc., Ph.D.	Computational Condensed Matter Physics
4.	Dr. M. K. Ravi Varma	Associate Professor & Head	M.Sc., Ph.D.	Atmospheric Optics & Instrumentation
5.	Dr. Vari Sivaji Reddy	Assistant Professor	M.Sc., M.Phil, Ph.D.	Condensed Matter Physics – Organic and Nano Electronics, Photonics
6.	Dr. P. K. Madhavan Unni	Assistant Professor	M.Sc., Ph.D.	Soft condensed matter physics, Critical point phenomena
7.	Dr. Aji A. Anappara	Assistant Professor	M.Sc, M.Phil, Ph.D.	Light-matter interaction in nanoscale, Semiconductor heterostructures, Graphene Photonics

CENTRE FOR TRAINING & PLACEMENT

Sl. No.	Name	Designation	Qualification	Specialization
1.	Dr T. K. Suresh Babu	Professor (T & P)	M.E.,Ph.D	Management Science

PHYSICAL EDUCATION SECTION

Sl. No.	Name	Designation	Qualification	Specialization
1	Dr. A.M. Najeeb	Associate Professor	M.A., M.Phil., Ph.D	Exercise Physiology, Olympic Values Education, Sports Infrastructure management.
2	Sri. Sunil M.S	Assistant Professor	M.P.Ed., M.Phil.	Physiology, Soccer training.

SCHOOL OF NANO SCIENCE & TECHNOLOGY

Sl. No.	Name	Designation	Qualification	Specialization
1	Dr. C.B. Sobhan	Professor	Ph.D.	Micro and Nanoscale heat transfer
2	Dr. N. Sandhyarani	Associate Professor & Head	Ph.D.	Nanoscience/Spectroscopy
3	Dr. Sajith V.	Assistant Professor	Ph.D.	Optical Measurements, Nanofluids, Nano materials
4	Mr. Shijo Thomas	Assistant Professor	M. Tech	Nanofluids, Heat Transfer, IC Engines
5	Mr. Hanas T.	Assistant Professor	M. Tech	Materials Science
6	Dr. Soney Varghese	Assistant Professor	Ph.D.	Polymer/Nano Technology

SCHOOL OF MANAGEMENT STUDIES

Sl. No.	Name	Designation	Qualification	Specialization
1	Dr. N. Ramachandran	Professor & Head	Ph.D.	Unconventional Machining
2	Dr. N Sudarsan	Professor	PhD	Human Resources Management
3	Dr.K Muhammad Shafi	Assistant Professor	PhD	Finance & General Management
4	Dr. S. Sunitha	Assistant Professor	PhD	Economics
5	Dr. Preeti Navaneeth	Assistant Professor	PhD	Communication

SCHOOL OF BIOTECHNOLOGY

Sl. No.	Name	Designation	Qualification	Specialization
1	Dr. Md. Anaul Kabir	Associate Professor & Head	Ph.D	Molecular Genetics, Genetic Engineering
2	Dr. Santhiagu. A	Associate Professor	Ph.D	Bioprocess Technology, Recombinant Technology, Enzymology
3	Dr. Rajanikant.G.K	Associate Professor	Ph.D	Radiation biology Neuroscience
4	Dr. Prem Raj Pushpakaran	Assistant Professor	Ph.D	Biochemistry, Microbiology, Molecular biology
5	Dr. R. Aswati Nair	Assistant Professor	Ph.D	Molecular plant biotechnology, Molecular biology
6	Dr. Suchithra T.V	Assistant Professor	Ph.D	Microbiology, Enzymology, Biofuels
7	Dr. Rathinasamy	Assistant Professor	Ph.D	Cell biology, Cancer research, Apoptosis

CENTRE FOR BIOMECHANICS

FACULTY

Dr. Mohammed Ameen (Head), Professor of Civil Engineering
Dr. T. M. Madhavan Pillai, Professor of Civil Engineering
Dr. P.K. Rajendrakumar, Professor of Mechanical Engineering
Dr. G. Abhilash, Associate Professor of Electronics Engineering

ADJUNCT FACULTY

Dr T.S. Gopakumar, Professor & Head, Department of Orthopaedics, Medical College, Trivandrum.
Dr George Joseph, (Retd.) Professor & Head, Department of Physical Medicine & Rehabilitation, Medical College, Calicut.
Sri. M. Sreekumar, Prosthetic & Orthotic Engineer, Department of Physical Medicine & Rehabilitation, Medical College, Calicut.
Sri. M. Sreekumar, Prosthetic & Orthotic Engineer, Department of Physical Medicine & Rehabilitation, Medical College, Calicut.

3.2. NON-ACADEMIC STAFF (NON-TEACHING STAFF)

Sl. No.	Name	Designation	Qualification
1	Dr. B. Sukumar	Registrar	Ph.D.
2	Sri. P.T. Jose	Officer on Special Duty (on deputation)(Stores & Purchase) up to 29.07.2015, Officer on Special Duty (in-charge of Estt. Section) up to 29.07.2015	MA
3	Sri. Mohanakrishnan. C	Officer on Special Duty (on deputation) (Academic) from 01.05.2015 to 11.01.2016 Officer on Special Duty (on deputation) (Store & Purchase) from 29.07.2015 to 04.09.2015.	MBA, CAIIB, DME
4	Sri. V.S. Pradeep Kumar	Deputy Registrar (Store & Purchase) from 05.09.2015 onwards	MA, M.Sc.
5	Dr. A. Santhiagu	Dy. Registrar (Academic) in-charge	Ph.D
6	Dr. Raghunadhan T	Dy. Registrar(Academic), NITC from 11.01.2016 onwards	PhD
7	Sri. B. Sabarinathan	Dy.Registrar (Finance) (on deputation) Dy. Registrar (in-charge of Estt. Section) 29.07.2015 upto 05.08.2015	B.Sc, PGDPM, CISA,CFE, CIA, CRMA
8	Smt. Jayaprabha Ravindran	Dy. Registrar (Establishment Section) from 06.08.2015 onwards	MA
9	Sri. V Muraleedharan	Internal Audit Officer (on deputation) from AG's office	B Sc. SAS. RAE & CPD
10	Dr. Celine A.A	Resident Medical Officer	BSc, MBBS
12	Smt. Sweetly Mathew	Lib.Gr.III (Hr.Gr)	M.Sc., M L I Sc , UGC NET
13	Smt. Lalitha Kumari P.S	Librarian Gr.IV (Hr.Gr)	BA, Bachelor of Lib and Information (Rtd. On 31.07.2015)
14	Smt. Sobhana J	Librarian Gr.IV (Hr. Gr)	MA, Bachelors Degree in Library & Information Science
15	Sri. Jayarajan.T	Librarian Gr.IV (Hr. Gr)	BA, Bachelor of Lib and Information, M L I Sc.
16	Smt. Latha. C	Librarian Gr.IV (Hr. Gr)	MA, B L I Sc., Master of Degree in Library and Information Science, UGC. NET
17	Sri. C P Balan	Library Attender	SSLC (failed) (Retired on 30.09.2015)
18	Sri. K P Shaju	Librarian Gr.IV	SSLC, Certificate in Library Science
19	Sri. M K Chandramohan	Graphic Artist (Hr. Gr)	Bachelor of Fine Arts in Applied Arts

20	Sri. K Jayaraman	Offset Machine Operator (Hr. Gr)	SSLC, Diploma in Printing and Technology
21	Sri. P Abraham	Pharmacist	SSLC, Diploma Course in Pharmacy
22	Smt. Rosamma V J	Staff Nurse (Hr. Gr)	SSLC, Certificate in General Nursing and Midwifery Examination
23	Smt. Stella V C	Fair Copy Superintendent.	SSLC, Typewriting English & Malayalam (Lower & Higher), Short hand English (Lower)
24	Sri. T Vijayan	Sr. Gr. Typist	SSLC, Typewriting English & Malayalam (Higher) (Retired on 30.11.2015)
25	Smt. Subhadra C K	Confidential Assistant Sl.Gr	SSLC, Typewriting English & Malayalam Higher Short hand English Lower
26	Smt. V Vilasini	Confidential Assistant Sr.Gr.I	SSLC, Typewriting English & Malayalam Higher , Short hand English Lower (Retired on 30.09.2015)
27	Smt. Veluthakki C	Confidential Assistant Gr.II (Hr. Gr.)	SSLC, Typewriting English & Malayalam Higher , Short hand English Lower
28	Sri. Sathianandan.P	UD Steward	SSLC, Typewriting English lower
29	Sri. Narayanankutty. P	U.D Steward	SSLC
30	Sri. Anwar Sadath. C	L.D Steward	PDC, Restaurant Counter Service, Typewriting English (lwr)
31	Smt. Devaki P P	Sr. Supdt	PDC (Retired on 30.06.2015)
32	Smt. C.P Rugmini	Sr.Supdt	SSLC Typewriting Eng.(H)
33	Sri. A. Balan	DA	SSLC, Typewriting (E) Lower
34	Sri. M. Reejish Kumar	Jr. Supdt	SSLC
35	Sri. P. Muraleedharan	Jr.Supdt	SSLC
36	Smt. K.Mini	Js.Supdt	SSLC
37	Smt. P. Prama	U D Clerk	SSLC
38	Sri. A. Venugopal	Jr.Supdt	PDC (Retired on 31.10.2015)
39	Sri. V. Hassan Mohammed	U D Clerk	SSLC (Retired on 30.06.2015)
40	Smt. P.M Madhavi	U D Clerk	SSLC, Typewriting English Lower (Retired on 30.11.2015)
41	Sri. S.M Shafi	U D Clerk	SSLC
42	Sri. P. Praveen Kumar	U D Clerk	BA
43	Sri. Petson Andrew	U D Clerk	BBA,MBA, Master of journalism & Mass communication
44	Sri. N. Sukumaran Nair	U D Clerk	BA
45	Sri. Prasad .M.V	DA	BA, PGDCA(Software)
46	Sri. Sasikumar K.T	U D Clerk	PDC
47	Sri. K. Unnikrishnan	U D Clerk	BA, Typewriting English Higher, Malayalam Lower, Part time course on Data Base
48	Smt. Soosy Kutty J.L	U D Clerk	BSc, Typewriting English Higher Malayalam Lower
49	Smt. Juliet Das P.D	U D Clerk	MA, Typewriting English Higher
50	Sri. Sethumadhavan Mecheri	UD Clerk	SSLC,Typewriting English Lower
51	Sri. K.N Purushothaman Pillai	U D Clerk	BA, Typewriting English Higher
52	Smt. C.K Kanakambujam	L D Clerk (on leave)	PDC
53	Smt. G. Chandrika	U D Clerk	PDC
54	Smt. P. Sindu	U D C	BA, MA, Type writing English Lower ,Word Processing-

			Computer Course, Office Automation Course
55	Smt. Smera K.S.	U D Clerk	M.Sc. Computer Science,
56	Smt. Mereena John	U D Clerk	B.Sc., Typewriting English Lower, Computer Word Processing.
57	Smt. Sobhana T.	U D Clerk	B.Sc., PGDCA, Higher Diploma in Co-operation.
58	Sri. M.T Varughese	Assistant Engineer, EMU	PDC, NTC Trade-Electrician ,Diploma in EE, Wireman License Certificate of Electrical Wiring
59	Sri. T.E Thomas	Assistant Engineer, Engg. Unit	SSLC, Diploma in CE, Part-time course Architectural Draughtsman-ship, PT course on structural design and tall buildings
60	Sri. P.Keraleeyan	Sr. Foreman, MED	SSLC, NTC-Mechanic Refrigeration & Air Conditioning Diploma in M.E, B.Tech.-ME.
61	Sri. K.P Venugopalan	Instructor, ECED	SSLC, NTC Mechanic General Electronics, NTC Electrician trade, Diploma in EE, Post Diploma in Communications, B.Tech. (ECE)
62	Sri. T.K Sasidharan	Instructor, EED	PDC, NTC Electrician trade, Diploma in EE
63	Sri. P. Anil Kumar	Supervisor, MED	SSLC, ITI Trade- Mechanic R&A/c, Diploma in ME
64	Sri. A. K. Mohan Kumar	Asst.Engineer	SSLC, Diploma in Civil Engg., B.Tech.-CE.
65	Sri. E. Pradeep Kumar	Supervisor, MED	Diploma in Mechanical Engg.
66	Sri. T.V Varghese	Senior Mechanic (Sl.Gr), Engineering Unit	SSLC, English Typewriting lower ,Certificate in CE (2 years course)
67	Sri. B. Venugopal	Sr.Mechanic Sl.Gr.EMU	SSLC, NTC-wireman, Diploma in EE
68	P.T. Ashoka Kumar	Sr.Mechanic Sl.Gr.EED	SSLC, Certificate Exam in EE, Diploma in EE
69	Sri. A. Rajagopalan	System Analyst (Hr.Gr), CSED	BSc, PG Diploma in Operations Research & computer application, MSc, M.Tech.
70	Sri. Santhosh Kumar. S	System Programmer, CSED	B.Sc., M.Sc.(maths), M.Sc in Information System, PG Diploma in Computer Engg, & in Software Tech., Degree of master of science in information system (University of Chester)
71	Sri. G. Sasidharan Pillai	Computer Technician, CSED	BSC, Typewriting English & Malayalam Higher, Computer programming (COBOL), Console Operator Cum Programmer Asst. (NCVT), PG Diploma in computer Application
72	Sri. V.R Ajayachandran	Computer Operator (Hr. Gr), CSED	PDC, Diploma in ME, Post Diploma in Computer Application
73	Pradeep Kumar K K	Instructor , MED	SSLC, ITI Trade- Mechanic Motor Vehicle, Diploma in ME
74	Rajendran M.K	Instructor , MED	SSLC, NTC Trade –Mechanic Gen. Electronics, Diploma in ME

75	Abhilash A	Sr. Mechanic, Sl. Gr. MED	ITI Fitter, Diploma in ME
76	Anandan P	Sr. Mechanic, Sl. Gr. MED	SSLC, Certificate Exam In Automobile Engineering
77	Joseph George P G	Sr. Mechanic, Sl. Gr. MED	SSLC, NTC-Turner
78	Mohan T P	Sr. Mechanic, Sl. Gr. MED	ITI Diesel Mechanic, SSLC
79	Sasi. K K	Sr. Mechanic, Sl.Gr. MED	Pre Degree, Diploma in Computer Engg, Type Writing English Lower
80	Velayudhan Kutty N P	Sr. Mechanic, Sl. Gr. MED	P D C, NCVT Electrical & Electronics, Diploma in ME
81	Ajayan A	Sr. Mechanic Sl.Gr. MED	J.T.S L C(Foundry), NTC Electrician (Foundry)
82	Eldho P Varghese	Sr. Mechanic ,MED	SSLC, NTC Mechanic Diesel, VHSE, Diploma in ME
83	George T M	Sr. Mechanic Sl.Gr. MED	SSLC, NTC Trade-Fitter
84	Manoj KG	Sr. Mechanic, MED	THSLC (Trade-Turning), Diploma in ME
85	Prasad Mochikkal Variath	Sr. Mechanic , MED	SSLC, NTC Welder, Diploma in ME
86	Raghu P V	Sr. Mechanic Sl.Gr.,MED	JTSLC, Sheet Metal Diploma in M.E
87	Sanal P R	Sr. Mechanic Sl.Gr, MED	P D C, NTC Mechanist (Trade)
88	Shali Joseph	Sr. Mechanic MED	SSLC, NTC(Foundry Trade)
89	Suresh K.C	Sr. Mechanic Sl.Gr,MED	SSLC, NTC Trade-Welder
90	Surendran. P.K	Sr. Mechanic Sl.Gr.MED	SSLC, Trade Mechanist-NAC
91	Unnikrishnan R	Sr. Mechanic MED	Pre Degree, Diploma in M.E (Machinist)
92	Vasu TC	Sr. Mechanic Sl.Gr.MED	SSLC, NTC- Mechanic (Diesel)
93	Sri. Mohanlal .D	Sr. Mechanic, Sl.Gr.CED	SSLC, NTC Trade Welder
94	Sri. P. Sreenivasan	Sr. Mechanic, Sl.Gr.CED	SSLC, NTC Trade Plumber
95	Sri. K. Shibu	Instructor, CED	SSLC, NTC Trade Plumber , Diploma in CE, Computer Shikshan
96	Sri. K. Sahadevan Nair	Sr.Mechanic,Sl.Gr.EED	VIIIth Std (Retired on 31.05.2015)
97	Sri. N.K Mohammed Sali	Sr. Mechanic, Sl.Gr.EED	SSLC, NTC Trade Electrician, Diploma in EE
98	Sri. K. A Somanath	Sr. Mechanic, Sl.Gr.EED	SSLC, NTC Trade Electrician, Diploma in EE
99	Sri. Sasesh A.R	Sr. Mechanic, Sl.Gr.EED	SSLC, NTC Trade Electrician, Diploma in EE
100	Sri. Nanda Kumar K	Sr. Mechanic, EED	JTSLC, NTC Electrician ,B.com, Diploma in EE ,PT course in Data Entry and console operation
101	Sri. Suresh Kumar. G	Sr.Mechanic, Sl.Gr. ECED	SSLC, NTC Trade Mechanic General Electronics
102	Sri. V. Krishnan Kutty	Sr. Mechanic, Sl.Gr.ECED	JTSLC, Trade Certificate Mechanic General Electronics
103	Sri. Anandan K.R	Sr. Mechanic, Sl.Gr.ECED	SSLC, NTC-Mechanic Radio & Television, NAC Trade Electronic Mechanic
104	Sri. Abdul Sathar V.M	Sr. Mechanic, CSED	Pre Degree, NTC Data preparation and Computer Software, Diploma IT
105	Sri. Narayana Lal M	Sr. Mechanic, MED	SSLC, ITI Electronics 1 year Diploma
106	Sri. Beljith P	Sr. Mechanic ,Bio-Mechanics	Pre Degree, Typewriting English Lower & Higher, B.Sc. Maths, Business Professional Programmer
107	Sri. T. Rajendran Pillai	Sr.Mechanic, CED	Army Trade Brick layer Construction (Ex-Military)
108	Sri. Noushad K.K	Sr.Mechanic, CED	Diploma in Computer Engg.,

			NTC Data Preparation & Computer Software, Typewriting English (lower), Business professional programmer O' Level
109	Sri. Ajaya Kumar. R	Sr.Mechanic, CED	SSLC, NTC-D'man Civil
110	Sri. Jayan V.S	Sr.Mechanic, EED	SSLC, NTC Electrician, Electrical wireman license
111	Sri. Praveen H Babu	Sr. Mechanic, ECED	SSLC, NTC ElectronicMechanic, Typewriting English (Lower), Job Training course in Advanced Electronics
112	Smt. Sreeja .V	Sr.Mechanic, CSED	Diploma in Computer Engg. – O' level, M.Sc
113	Sri. Biju Francis	Sr.Mechanic, CSED	PD1C, Data Preparation & Computer Software (NTC) Typewriting English Lower, Word Processing and Data Entry Techniques
114	Sri. Raju K P	Sr. Mechanic, EMU	SSLC, NTC Electrician, Wireman
115	Sri.Santhosh Kumar MV	Sr.Mechanic, EMU	SSLC, Electrician NTC
116	Sri. Mahesan K A	Sr.Mechanic, EMU	SSLC, Electrician NTC, Diploma in EE
117	Sri. Sudheer P R	Sr.Mechanic Engg. Unit	SSLC, NTC-Plumber
118	Sri. Jayesh Kumar P	Sr.Mechanic Engg.Unit	PDC, NTC- Plumber
119	Sri. T K Sadanandan	Sr. Mechanic SI.Gr., EED	NTC-Plumber
120	Sri. P Divakaran	Sr. Mechanic, (SI.Gr.) Engg.Unit	SSLC, NTC-Plumber
121	Sri. K Alavikutty	Sr. Mechanic SI.Gr.Engg.Unit	SSLC failed, NTC-Plumber
122	Sri. Mathew Varghese	Sr. Mechanic Engg.Unit	PDC, NTC-Plumber
123	Sri. Abdul Sidheek P K	Sr. Mechanic Engg.Unit	SSLC, NTC-Plumber
124	Sri. Sathyan P K	Sr. Mechanic SI.Gr.CED	SSLC, NTC-Plumber
125	Sri. A M Mathew	Sr. Mechanic, (SI.Gr.) Engg. Unit	SSLC, NTC-Plumber
126	Sri. C R Climson	Sr. Mechanic EMU	SSLC, NTC-Electrician Trade, Type writing (E) Lower, Wireman Licence
127	Sri. M K Radhakrishnan	Sr. Mechanic EMU	SSLC, NTC Electrician Trade
128	Sri. C V Abraham	Lab Assistant (Hr. Gr), Physics	PDC, Certified Course in Computer Programme
129	Sri. Prakash Peter	Lab Assistant, Chemistry	B.Sc(Chemistry) , CCCA M.Sc(Applied Psychology)
130	Sri. M K Sadanandan	Sr. Mechanic SI.Gr, Architecture	SSLC, Intermediate exam,
131	Sri. C. P Hariharan	System Programmer, MED	AISSE, Pre-degree, B.Tech
132	Smt. A. Sumathi	Peon (Hr.Gr)	Ist Std
133	Sri. P. Apputty	Peon	SSLC Failed
134	Sri. C. Gopalan	Peon	Vth Std. (Retired on 31.05.2015)
135	Smt. T.P. Ravia	Peon	Vth Std.
136	Sri. B. Mohanan Nair	Peon	IIIth Std.
137	Sri. K.V.Chandu	Peon	IVth Std
138	Smt. Sangeetha P.K.	Peon	SSLC Failed
139	Sri. M. Rajan	Watchman	SSLC Failed
140	Sri. K. Abdul Hameed	Watchman	VIIth Std.
141	Sri. P. Aravindan	Watchman	VIIIth Std.
142	Sri. N.K. Ummerkutty	Watchman	VIIth Std.
143	Sr. M. Sivaraman	Watchman	VIIth Std.
144	Sri. T. Janardhanan	Watchman cum Gardener	SSLC
145	Sri. Sadanandan M.M.	Watchman cum Gardener	SSLC
146	Sri. Mamukoya M.	Watchman cum Gardener	VIIth Std.
147	Sri. Abdul Razak P.	Watchman cum Gardener	VIIIth Std.
148	Sri. C. Preman	Watchman cum Gardener	SSLC Failed
149	Sri. T. Narayanan	Watchman cum Gardener	VIIIth Std.
150	Sri. M.K. Rajan	Watchman cum Gardener	SSLC
151	Sri. P V. Bhagyanathan	Watchman cum Gardener	SSLC
152	Sri. Vinod K.P.	Watchman cum Gardener	IXth Std. Not completed

153	Sri. Revi V.	Watchman cum Gardener	IVth Std. (Rtd on 31.01.2016)
154	Sri. K. Bhaskaran	Watchman cum Gardener	SSLC
155	Sri. K.T. Balakrishnan	Watchman cum Gardener	SSLC
156	Smt. V. Pushpavally	Sanitation Worker	VIth Std.
157	Smt. K. Thankamani	Sanitation Worker	IVth Std.
158	Smt. Freeda S. Balan	Sanitation Worker	SSLC Failed
159	Smt. O. Chandramathi	Sanitation Worker	IV Std. (rtd on 30.06.2015)
160	Smt. I. Siamala	Sanitation Worker	SSLC Failed
161	Smt. K.K. Santha	Sanitation Worker	SSLC Failed
162	Smt. K.P. Devi	Sanitation Worker	VIIIth Std.
163	Smt. Devi Poolakkal	Sanitation Worker	SSLC Failed
164	Smt. E. Visalakshi	Sanitation Worker	SSLC Failed
165	Smt. Saroja T.M	Sanitation Worker	SSLC Failed
166	Smt. Sasikala L.	Sweeper cum Sanitation Worker	SSLC Failed
167	Smt. C.Geetha	Sweeper cum Sanitation Worker	SSLC
168	Smt. C Thanka	Sweeper cum Sanitation Worker	SSLC
169	Smt. Jameela A.K.	Sweeper cum Sanitation Worker	SSLC Failed
170	Sri. K Parameswaran	Bearer cum Roomboy	SSLC Failed
171	Sri. P. Abdurahiman	Bearer cum Roomboy	SSLC Failed
172	Sri. Unnikrishnan C.	Vehicle Cleaner	SSLC Failed

3.3. TRAINING STATUS

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Sl. No	Name of Faculty member	Details of Training programme
1	Mr. G. Gopakumar	Presented a paper titled "Clustering of protein-protein interaction network using fractal dimension of protein sub networks, in " TENCON 2015 – 2015 IEEE Region 10 Conference, Macao, 2015, pp. 1-5.doi: 10.1109/TENCON.2015.7372789
2	Ms. Pournami P N	Attended CVIP2016 international Conference on computer vision and image processing at IIT Roorkee, 25th to 28th Feb 2016
3	Mr. Sreenu Naik Bhukya	Participated national knowledge network fourth annual workshop "NKN at the core of Cyber Space" 21-22 January 2016,JNTU,Hyderabad
4	Mr. Sreenu Naik Bhukya	Presented a research paper titled "EEL-AODV:Energy Efficient Load Balancing Ad Hoc On-demand Distance Vector Routing Protocol" at Hyderabad at international conference on emerging trends in engineering and technology at Hyderabad 5th July 2015
5	Mr Jayaraj P B	HiPC 2015 (High Performance Computing), International Workshop from Dec 16 - 19, 2015 at Bangalore, India.
6	Mr Jayaraj P B	Two days national workshop on "Programming with Intel Phi Co-processors" from 17th to 18th July 2015 at IIT Madras.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Sl. No	Name of Faculty member	Details of Training programme
1	Lillykutty Jacob	International Conference: Ieee Tencon, Macau, 1-4 Nov 2015 National Workshop: "Game Theory And Mechanism Design", Iisc Bangalore, 11-15 Jan 2016
2	Jayakumar E.P.	Participated in an international conference MALSIP 2015 at Melaka, Malaysia during December 2015
3	Danaraj K J	Participated in an international conference 2015 International JointConference on Neural Networks (IJCNN), July 12-17, 2015

DEPARTMENT OF ELECTRICAL ENGINEERING

Sl.No	Name of faculty member	Details of Training programme
1	Dr Paul Joseph K	2015 IEEE Region 10 conference, 1-4 Nov 2015, Macau China.
2	Dr.Subha D.Puthankattil	Complex System Approach to Self-Organisation", CSAS 2016, held at IIT Madras from 1-5 February 2016

3	Subhash K.M.	1. International Conference on Signal Processing and Communications (SPCOM 2016) June 12 to 15 2016. IISc Bangalore. 2. 3 rd International Conference on Signal Processing & Integrated Networks. 11 th -12 th February 2016. AMITY University.
4	Dr. Mija S. J.	IEEE International Conference on Industrial Technology, Seville, Spain during 17 Mar - 19 Mar 2015

SCHOOL OF NANO SCIENCE AND TECHNOLOGY

Sl.No	Name of faculty member	Details of Training programme
1	Dr Sajith V	ASME 2015 International Mechanical Engineering Congress & Exposition , Houston, Texas, 13- 19 th November 2015

3.4. PLACEMENT OF STAFF FOR ACADEMIC EXCELLENCE

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Sl. No.	Name	Academic Excellence
1	Dhanaraj k.J.	Submitted Ph.D. Thesis at IIT Delhi

SCHOOL OF NANO SCIENCE AND TECHNOLOGY

Sl. No	Name	Academic Excellence
1.	Dr.C.B. Sobhan	Visiting Short-term Scholar at the School of Mechanical Engineering, Georgia Institute of Technology, US, during June 1 st to July 10 th , 2015
2	Dr. Sajith V.	Post doctoral research at Dept. of Material Science and Nano Engineering at RICE University, Texas, USA during 25 th August to 25 th December 2015.

4.0 TEACHING PROGRAMMES

4.1 Programmes Offered

DEPARTMENT OF ARCHITECTURE

- i) B.Arch.
- ii) Ph.D.
- iii) M. Plan

DEPARTMENT OF BIOTECHNOLOGY

- i) B.Tech. (Biotechnology)
- ii) Ph.D. in Biotechnology

DEPARTMENT OF CHEMICAL ENGINEERING

- i) B.Tech. (Chemical Engineering)
- ii) Ph.D. (Chemical Engineering)
- iii) Ph.D (Chemical Engineering)

DEPARTMENT OF CHEMISTRY

- i) M.Sc (Chemistry)
- ii) Ph.D. Organic, Inorganic, Physical, Polymer, Theoretical, Bio-Organic and Bio-inorganic Chemistry

DEPARTMENT OF CIVIL ENGINEERING

- i) B.Tech. (Civil Engineering)
- ii) M.Tech. (Structural Engineering)
- iii) M.Tech. (Traffic & Transportation Planning)
- iv) M.Tech. (Offshore Structures)
- v) M.Tech. (Environmental Geotechnology)
- vi) M.Tech. (Water Resources Engineering))
- vii) Ph.D.

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

- i) B.Tech. (Computer Science & Engineering)
- ii) MCA

- iii) M.Tech. (Computer Science & Engineering)
- iv) M.Tech. (Computer Science & Engineering (Information Security))
- v) Ph.D.

DEPARTMENT OF ELECTRICAL ENGINEERING

- i) B.Tech. (Electrical & Electronics Engineering)
- ii) M.Tech. (Instrumentation & Control Systems)
- iii) M.Tech. (Power Systems)
- iv) M.Tech. (Power Electronics)
- v) M.Tech. (Industrial Power & Automation)
- vi) M. Tech (High voltage Engineering)
- Vii) Ph.D various areas of Electrical Engineering

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

- i) B. Tech. (Electronics and Communication Engineering)
- ii) M.Tech. (Electronics Design and Technology)
- iii) M.Tech. (Microelectronics and VLSI Design)
- iv) M.Tech. (Telecommunication)
- v) M.Tech. (Signal Processing)
- vi) Ph. D

DEPARTMENT OF MATHEMATICS

- i) M.Sc. (Tech.) (Mathematics and Scientific Computing)
- ii) M.Sc (Mathematics)
- iii) Ph.D
- iv) B. Arch
- v) MCA
- vi) M.Tech

DEPARTMENT OF MECHANICAL ENGINEERING

- i) B.Tech. (Mechanical Engineering)
- ii) B.Tech. (Production Engineering)
- iii) M.Tech. (Industrial Engineering and Management)
- iv) M.Tech. (Thermal Sciences)
- v) M.Tech. (Manufacturing Technology)
- vi) M. Tech. (Energy Engineering and Management)
- vii) M.Tech. (Materials Science and Technology)
- viii) Ph. D. (All area Mechanical engineering)

SCHOOL OF NANO SCIENCE AND TECHNOLOGY

- i) M Tech (Nanotechnology)
- ii) Ph.D

DEPARTMENT OF PHYSICS

- i) B.Tech (Engineering Physics) – 4 years
- ii) M.Sc (Tech) Photonics – 3 years
- iii) M.Sc Physics – 2 years
- iv) Ph.D

SCHOOL OF MANAGEMENT STUDIES

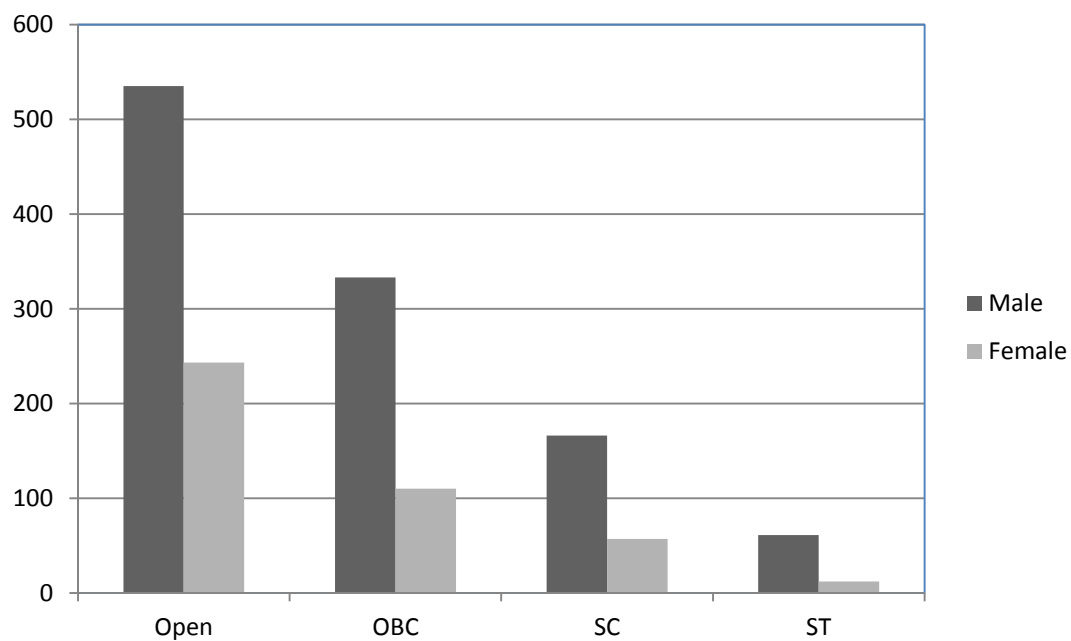
- i) MBA
- ii) Ph.D.

DEPARTMENT OF PHYSICAL EDUCATION

One Credit Course in Physical Education ZZ1093 for 1st year Students during I & II Semester

4.2 COURSE-WISE ENROLMENT WITH SEX, CASTE, BREAK UP: 2015 -2016

Level	Open		OBC		SC		ST		Total		TOTAL
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
B.Tech./B.Arch.	292	125	226	46	101	35	49	8	668	214	882
M.Tech.	171	51	72	37	48	12	11	2	303	100	403
MCA	18	5	10	3	5	0	1	2	34	10	44
MBA	10	12	8	1	1	1	0	0	19	14	33
M.Sc.	12	19	4	13	4	5	0	0	20	37	57
Ph.D.	32	34	13	10	7	4	0	0	52	48	100
Total	519	228	328	108	163	55	61	12	1071	403	1474



4.3. Admission Statistics-UG/PG Programmes, course-wise

4.3.1. 1st semester B.Tech/B.Arch Admission 2015 -16

SPECIALISATION	OP	OP(PH)	OB	OB(PH)	SC	SC(PH)	ST	ST(PH)	NRI	DASA	FOREIGN	MEA (WELFARE)	MALE	FEMALE	TOTAL
Architecture	17	1	14	1	6	2	4	0	0	4	1	0	27	22	49
Bio Technology	12	0	6	0	4	0	1	0	0	5	0	0	13	15	28
Civil Engineering	57	2	42	1	21	0	9	1	0	11	3	1	109	39	148
Chemical Engineering	37	2	29	1	14	0	4	0	0	9	0	0	72	24	96
Computer Science and Engineering	67	2	37	1	13	1	10	0	0	13	1	0	112	39	151
Electrical and Electronics Engineering	58	2	36	1	21	0	6	0	0	12	0	1	102	35	137
Electronics and Communication Engineering	66	1	38	1	20	0	8	0	0	12	1	1	96	52	148
Engineering Physics	10	0	10	0	5	0	1	0	0	3	0	0	19	10	29
Mechanical Engineering	60	2	41	1	19	0	10	1	0	13	0	0	141	6	147
Production Engineering	19	1	12	0	6	0	2	0	0	3	0	0	37	6	43
Total	403	13	265	7	129	3	55	2	0	85	6	3	728	248	976

4.3.2. 1st Semester M.Tech. 2015 -2016

Sl.No	Departments and Programmes	CODE	OPEN		OPEN-PD		OBC		OBC-PD		SC		ST		QIP		QIP (POLY)		SP		DASA		TOTAL	TOTAL			
ARCHITECTURE																											
			M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F			
1	Urban Planning	AR61	3	4	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	10
CIVIL ENGINEERING																											
1	Structural Engineering	CE61	8	2	0	0	5	1	0	0	2	1	1	1	0	0	0	0	0	0	0	0	0	0	16	4	20
2	Traffic And Transportation Planning	CE62	5	4	1	0	0	6	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	7	12	19
3	Offshore Structures	CE63	8	2	0	0	2	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	13	5	18
4	Environmental Geotechnology	CE64	3	7	0	0	1	4	0	0	2	1	2	0	0	0	0	0	2	0	0	0	0	0	10	12	22
5	Water Resources Engineering	CE65	3	3	0	0	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	5	6	11
CHEMICAL ENGINEERING																											
1	Chemical Engineering	CH61	3	3	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	6	3	9
COMPUTER SCIENCE AND ENGINEERING																											
1	Computer Science And Engineering	CS61	8	1	1	0	5	1	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	17	3	20
2	Computer Science And Engg.(Information Security)	CS62	8	2	0	0	3	2	0	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0	15	4	19
ELECTRONICS AND COMMUNICATION ENGINEERING																											
1	Electronics Design And Technology	EC61	8	2	0	0	3	2	0	0	1	3	2	0	0	0	0	0	0	0	0	0	0	0	14	7	21
2	Microelectronics & Vlsi Design	EC62	8	2	0	0	4	1	0	0	2	1	1	1	0	0	0	0	0	0	0	0	0	0	15	5	20
3	Tele Communication	EC63	2	5	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	9
4	Signal Processing	EC64	4	3	0	0	2	3	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	5	7	12
ELECTRICAL ENGINEERING																											
1	Instrumentation And Control Systems	EE61	8	2	0	0	5	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	18	2	20
2	Power Systems	EE62	10	0	0	0	5	0	1	0	2	1	0	0	0	1	0	0	1	1	0	0	0	0	20	3	23
3	Power Electronics	EE63	9	1	0	0	5	1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	18	2	20
4	Industrial Power And Automation	EE64	9	1	0	0	2	4	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	14	5	19
5	High Voltage Engineering	EE65	3	3	1	0	3	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	9	3	12
MECHANICAL ENGINEERING																											
1	Industrial Engineering And Management	ME61	9	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	13	0	13
2	Thermal Sciences	ME62	10	0	0	0	6	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0	20	0	20
3	Manufacturing Technology	ME63	9	1	0	0	6	0	0	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0	19	1	20
4	Energy Management	ME64	10	0	0	0	5	1	0	0	3	0	1	0	0	0	0	0	1	0	0	0	0	0	20	1	21
5	Materials Science And Technology	ME65	9	0	0	0	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	13
6	Machine Design	ME66	7	0	0	0	3	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	13	0	13
NANO SCIENCE AND TECHNOLOGY																											
1	NANO TECHNOLOGY	NS61	4	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	5	2	7
Total			168	48	3	0	71	36	1	1	48	12	11	2	0	1	1	0	4	1	1	0	310	101	411		

4.3.3. M.Sc. (Tech.), MCA & Ph.D. 2015 - 2016

DEPARTMENT	COURSE	OPEN	OP-PD	OBC	OBC-PD	SC	SC-PD	ST	ST-PD	MALE	FEMALE	TOTAL
Mathematics(MMA)	M.Sc	10	0	6	0	3	0	0	0	9	10	19
Physics(PHA)		11	0	5	0	3	0	0	0	9	10	19
Chemistry(CYA)		10	0	6	0	3	0	0	0	2	17	19
	Total	31	0	17	0	9	0	0	0	20	37	57
	MCA	23	0	13	0	5	0	3	0	34	10	44
	MBA	22	0	8	0	2	0	0	0	19	14	33

Ph. D

Departments	Category										Full Time	Internal	Part Time	External	QIP	QIP (Poly)	Visvesvaraya	Total
	OPEN		OBC		SC		ST		Total									
	M	F	M	F	M	F	M	F	M	F								
Architecture	1	0	1	0	0	0	0	0	2	0	2	0	0	0	0	0	0	2
Biotechnology	1	2	0	1	1	1	0	0	2	4	6	0	0	0	0	0	0	6
Chemical Engineering	2	5	0	4	0	1	0	0	2	10	9	0	3	0	0	0	0	12
Civil Engineering	6	6	1	2	0	0	0	0	7	8	0	0	0	0	0	0	0	15
Computer Science and Enginnering	2	1	0	1	0	1	0	0	2	3	4	0	0	0	0	0	1	5
Chemistry	0	4	1	1	0	0	0	0	1	5	5	0	0	1	0	0	0	6
Electrical Engineering	2	2	0	0	2	1	0	0	4	3	4	1	0	0	0	0	2	7
Electronics Engineering	4	5	3	0	3	0	0	0	10	5	8	0	2	0	3	0	2	15
Mathematics	2	5	4	0	0	0	0	0	6	5	11	0	0	0	0	0	0	11
Mechanical Engineering	8	0	2	0	1	0	0	0	11	0	10	0	0	0	1	0	0	11
Nano Science and Technology	4	1	0	1	0	0	0	0	4	2	5	0	0	1	0	0	0	6
Physics	0	3	1	0	0	0	0	0	1	3	4	0	0	0	0	0	0	4
School of Management Studies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	32	34	13	10	7	4	0	0	52	48	68	1	5	2	4	0	5	100

4.4. Student's Total Strength 2015-16

4.4.1 B.Tech. /B.Arch.

Sl. No	Branch	OPEN			OP-PH			OBC			OB-PH			SC			SC-PH		
		M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
1	ARC	11	7	18	1	0	1	7	7	14	1	0	1	3	3	6	0	0	0
2	SBT	3	9	12	0	0	0	5	1	6	0	0	0	1	3	4	0	0	0
3	CHED	25	12	37	2	0	2	24	5	29	0	1	1	11	3	14	0	0	0
4	CED	41	16	57	1	1	2	35	7	42	0	1	1	17	4	21	0	0	0
5	CSED	43	24	67	1	1	2	33	4	37	1	0	1	16	3	19	1	0	1
6	EED	41	17	58	2	0	2	27	9	36	1	0	1	14	7	21	0	0	0
7	ECED	38	28	66	1	0	1	33	5	38	1	0	1	10	10	20	0	0	0
8	Physics	6	4	10	0	0	0	6	4	10	0	0	0	3	2	5	0	0	0
9	MED	56	4	60	2	0	2	40	1	41	1	0	1	19	0	19	0	0	0
10	Production Engineering	17	2	19	1	0	1	11	1	12	0	0	0	6	0	6	0	0	0
	Total	281	123	404	11	2	13	221	44	265	5	2	7	100	35	135	1	0	1

Sl. No	Branch	ST			ST-PH			DASA			FN			MEA			Grand Total		
		M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
1	ARC	3	1	4	0	0	0	0	4	4	1	0	1	0	0	0	27	22	49
2	SBT	1	0	1	0	0	0	3	2	5	0	0	0	0	0	0	13	15	28
3	CHED	4	0	4	0	0	0	6	3	9	0	0	0	0	0	0	72	24	
4	CED	7	2	9	1	0	1	4	7	11	2	1	3	1	0	1	109	39	148
5	CSED	8	2	10	0	0	0	8	5	13	1	0	1	0	0	0	112	39	151
6	EED	6	0	6	0	0	0	10	2	12	0	0	0	1	0	1	102	35	137
7	ECED	7	1	8	0	0	0	4	8	12	1	0	1	1	0	1	96	52	148
8	Physics	1	0	1	0	0	0	3	0	3	0	0	0	0	0	0	19	10	29
9	MED	10	0	10	1	0	1	12	1	13	0	0	0	0	0	0	141	6	147
10	Production Engineering	0	2	2	0	0	0	2	1	3	0	0	0	0	0	0	37	6	43
	Total	47	8	55	2	0	2	52	33	85	5	1	6	3	0	3	728	248	976

4.4.2. 1st Semester M.Tech

Sl. No	BRANCH	OPEN		OP-PH		OBC		OB - PH		SC		ST		QI-P		QIP (POLY)		SP		DASA		TOTAL		TOTAL	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
			AR61	3	4	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
1	CE61	8	2	0	0	5	1	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0	16	4	20
2	CE62	5	4	1	0	0	6	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	7	12	19
3	CE63	8	2	0	0	2	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	13	5	18
4	CE64	3	7	0	0	1	4	0	0	2	1	2	0	0	0	0	0	2	0	0	0	0	10	12	22
5	CE65	3	3	0	0	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	5	6	11
1	CH61	3	3	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	6	3	9
1	CS61	8	1	1	0	5	1	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0	17	3	20
2	CS62	8	2	0	0	3	2	0	0	3	0	1	0	0	0	0	0	0	0	0	0	0	15	4	19
1	EC61	8	2	0	0	3	2	0	0	1	3	2	0	0	0	0	0	0	0	0	0	0	14	7	21
2	EC62	8	2	0	0	4	1	0	0	2	1	1	1	0	0	0	0	0	0	0	0	0	15	5	20
3	EC63	2	5	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	9
4	EC64	4	3	0	0	2	3	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	5	7	12
1	EE61	8	2	0	0	5	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	18	2	20
2	EE62	10	0	0	0	5	0	1	0	2	1	0	0	0	1	0	0	1	1	0	0	0	20	3	23
3	EE63	9	1	0	0	5	1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	18	2	20
4	EE64	9	1	0	0	2	4	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	14	5	19
5	EE65	3	3	1	0	3	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	9	3	12
1	ME61	9	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	13	0	13
2	ME62	10	0	0	0	6	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	0	20	0	20
3	ME63	9	1	0	0	6	0	0	0	3	0	1	0	0	0	0	0	0	0	0	0	0	19	1	20
4	ME64	10	0	0	0	5	1	0	0	3	0	1	0	0	0	0	0	1	0	0	0	0	20	1	21
5	ME65	9	0	0	0	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	13	0	13
6	ME66	7	0	0	0	3	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	13	0	13
1	NS61	4	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	5	2	7
	TOTAL	168	48	3	0	71	36	1	1	48	12	11	2	0	1	1	0	4	1	1	0	310	101	411	

4.4.3. M.TECH., M.Sc. & Ph.D.

BRANCH	OPEN			OPEN-PC			OBC			OBC-PC			SC			ST			TOTAL		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
ARCH	3	4	7	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0	3	7	10
CED	27	16	43	1	0	1	9	15	24	0	1	1	9	5	14	3	0	3	49	39	88
CH	3	3	6	0	0	0	1	0	1	0	0	0	2	0	2	0	0	0	6	3	9
CSD	16	3	19	1	0	1	8	3	11	0	0	0	5	1	6	2	0	2	32	7	39
ECD	22	12	34	0	0	0	9	8	17	0	0	0	4	4	8	3	2	5	36	26	62
EED	39	7	46	1	0	1	20	5	25	1	0	1	13	1	14	0	0	0	78	13	91
MED	54	1	55	0	0	0	24	1	25	0	0	0	14	0	14	3	0	3	95	2	97
NST	4	0	4	0	0	0	0	1	1	0	0	0	1	1	2	0	0	0	5	2	7
Total	168	46	214	3	0	3	71	36	107	1	1	2	48	12	60	11	2	13	304	99	403
MCA	18	5	23	0	0	0	10	3	13	0	0	0	5	0	5	1	2	3	34	10	44
MBA	10	12	22	0	0	0	8	1	9	0	0	0	1	1	2	0	0	0	19	14	33
M.Sc.	12	19	31	0	0	0	4	13	17	0	0	0	4	5	9	0	0	0	20	37	57
Ph.D.	32	34	66	0	0	0	13	10	23	0	0	0	7	4	11	0	0	0	52	48	100

4.4.4 Total number of Students of all semesters and all courses as on 31.03.2016

Programme	2015-2016 Admission	2014-2015 Admission	2013-2014 Admission	2012-2013 Admission	2011-2012 Admission
B. Tech	838	863	859	921	875
B. Arch	44	44	44	47	44
M. Tech	411	414	376	401	375
M.C.A	44	38	42	46	46
M. Sc(Tech)	-	-	-	-	33
M. Sc	57	56	51	43	-
MBA	33	38	33	25	26
Ph.D.	100	117	99	115	106
Total	1527	1570	1504	1598	1505

4.5 THE HOSTELS

Accommodation

There are eleven hostels for the men and two hostels for the ladies. Apart from these hostels, 24 flats are also occupied by the men. The total capacity of all hostels and flats currently available is 5000. Present strength in the hostels is 4968 out of this 3636 are men (as on 31.03.2016). All the hostels have Common room and Recreational centre where newspapers, magazines, TV's and indoor sports/games facilities are available. Free twenty four hour internet and computational facilities are available in almost all hostels; it is getting extended to other hostels too. Twenty four hour water and electricity (with DG power back up) is part of the all the hostels. Mini canteen, milma, amul kiosks, DTP centre, co-operative stores, Text book shop are functioning in Students Amenity Centre. The ladies hostel has ladies gym, stitching and tailoring centre, hostel library, fitness parlour, indoor sports centre, DTP centre, extension of co-operative stores. Guest room facilities are available in the hostels for the relatives/guests of hostel inmates on chargeable basis.

Day to day administration and management of the hostels is vested with the Warden council headed by the Chief Warden appointed by the Director; based on the recommendation of Hostel & Mess Committee consisting of the student's representatives. Warden's council is supported by Stewards/Caretakers/hostel staffs.

Chief Warden: Dr. Ashok. S

Wardens: (as on 31.03.2016)

1. Dr. Sunil Kumar, EEE (Office Warden)
2. Dr. George K. Varghese, CED
3. Dr. Rajanikant G. K, Biotechnology
4. Dr. Ameer P M, ECE
5. Dr. V. Sakthivel, ECE
6. Mr. Bimal P, Architecture
7. Dr. Santhosh G Thampi, CED
8. Dr. Sathish Kumar D
9. Dr. Rama Subrahmanyam Komaragiri, ECED
10. Dr. K Krishnamurthy, CED
11. Dr. Praveen Sankaran, ECE
12. Dr. Sreenath A M, MED
13. Dr. Aji A. Anappara, Physics
14. Dr. C.Arunkumar, Chemistry
15. Mr. SaidalaviKalady, CSE
16. Dr. SreenuNaik B, CSE
17. Mr. Shijo Thomas, SNST
18. Dr. Muhammed Shafi, SOMS
19. Mr. Rohinikumar, MED
20. Dr. A. P. Sudheer, MED
21. Dr. M Srinivas, MED
22. Dr. Gangadhara Kirankumar.L, MED
23. Dr. Mija S J, EEE
24. Dr. S. Bhuvaneshwari, Chem Engg.
25. Dr. S.Sunitha, SOMS
26. Dr. Pramada S. K, CED

Hostel Manager (Officiating): Sri. Reejish Kumar M

Stewards:

1. Sri. Sathyanandan P
2. Sri. Narayanankutty .P
3. Sri. Anwar Sadath

Peon: Sri.Chandu. K V

4.6 SCHOLARSHIPS/ ASSISTANTSHIPS

Financial Assistance to M.Tech Students:

Teaching Assistantship/Research Assistantship/Scholarships are awarded to eligible M.Tech. Students as per rules formulated by the Govt. of India and the Institute for such awards from time to time, subject to availability of funds. Currently an amount of Rs.12,400/- per month for 22 months will be given to candidates admitted through GATE score. This facility will not be available to sponsored candidates, foreign nationals and dependants of NRIs.

Financial Assistance to Research Scholars:

Teaching Assistantship/Research Assistantship/Scholarships are awarded to eligible full time research scholars as per the rules formulated by the Institute for such awards from time to time. Currently the scholarships are at the rate of Rs.25, 000/- per month for the first two years and Rs. 28,000/- per month for another three years. This facility will not be available to UGC/CSIR Fellowship/National Doctoral Fellowship Holders, sponsored candidates, foreign nationals and dependants of NRIs

4.7 GAMES AND SPORTS

Academic activities commenced with the class room sessions for all 14 batches of first year students as part of one credit course ZZ1093. Talent spotting and NITC teams 2015-16 for all games were selected by January 2016. Teams were soon trained and sent out to participate in National level Inter NIT tournaments at various NITs of the country. Inter NIT tournaments in Basketball (men & women) & Cricket were hosted at NIT Calicut during 26-29 March 2016. This was one of the biggest Inter NIT tournaments ever in the history with over 1000 participants enjoying our hospitality. In campus mass participation activities were conducted on a satisfactory note. Nano-cricket, Willow cup cricket, FORZ Soccer were the leading activities, which attracted hundreds of students and exhibited the managerial prowess of student-organizers. As usual, the Intramural interclass competition was held for both boys and girls. Participation was total and the organization was ably assisted by OVEP students as part of their credit-course project. Kozhikode District League championship is one tournament we frequent every year. Participation was complete in events like Football, Cricket, Basketball, Badminton, Volley ball, Hockey, Table tennis, Kabaddi, Kho-kho and Tennis.

4.8. AWARDS

DEPARTMENT OF PHYSICS

Sl. No	Name	Award
	Vari Sivaji Reddy	Bhaskara Advanced Solar Energy (BASE) Fellowship-2015 supported by the Department of Science and Technology (DST), Govt. of India, and the Indo-US Science and Technology Forum (IUSSTF).

PHYSICAL EDUCATION SECTION

Sl. No.	Award/ Laurel won
1.	Champion, Inter NIT Hand ball at NIT Agarthala
2.	Third place ,Inter NIT Volley ball at NIT Kurukshetra
3.	Runner up in team event. Inter NIT Tennis at NIT Calicut Championship singles.
4.	Third place ,Inter NIT Table Tennis at NIT Bhopal
5.	Third Place ,Inter NIT Kabadi at NIT Calicut
6.	Third place, Inter NIT Hockey at NIT Calicut

DEPARTMENT OF CHEMICAL ENGINEERING

Sl. No.	Name	Award
1	Dr.V.Sivasubramanian	Felicited with "universal achievers gold medal award" on the occasion of 11 th Unity conference, July 2015, Universal Achievers Foundation, Salem, Tamil Nadu.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Sl. No.	Name	Award
1	Dr. Lillykutty jacob	Distinguished engineering teacher of kerala, 2015-16 instituted by REC/NIT Calicut Alumni Association

DEPARTMENT OF MECHANICAL ENGINEERING

SI No.	Name	Award
1	Dr A. Shaija	Best paper award in the 'Third International Conference on Developments in Science, Management and Engineering' organized by International Organization of Scientific Research and Development, (ISORD) India, for the paper entitled Theoretical Prediction of Pressure Drop and Under Rib Velocity of Single Serpentine and Repetitive Five Pass Spiral Flow fields for Polymer Electrolyte Membrane Fuel Cells"
2	Dr.R. Sridharan and Dr.Vinay V. Panicker	Best Paper (Track: Industrial Engineering) in International Conference on "Advances in Manufacturing and Thermal Engineering" organized by the Department of Mechanical Engineering, M. A. College of Engineering, Kothamangalam, Kerala in association with KSCTE and SAE during February 8 – 9, 2016 for paper entitled "A New Layout for On-screen Keyboard for Handheld Devices"
3	P.V. Manu	Best paper award on the occasion of the 4th National Convention on Hydrogen Energy and Advanced Materials (NCHEAM'15) organized by Energy Center, MANIT, in association with University of Kerala & IAHEAM, during 28th - 29th November 2015, at MANIT Bhopal.
4	AeroUnwired group	Best overall award, in SAE-INDIA Aero Design Challenge 2016, Chennai (under the supervision of Dr. TJS Jothi and Mr. A. M. Srinath

SCHOOL OF NANO SCIENCE AND TECHNOLOGY

SI No.	Name	Award
1	Dr.Sajith V	Sir Dorabji Tata-T R Anantharaman Faculty Fellowship (SDT-TRA-FF) 2015 for the post doctoral research as Dept. of Material Science and Nano Engineering, RICE University, Houston, Texas, USA.
2	Dr.Sajith V	Young Researcher Award (Engineering /Mechanical) 2015, VENUS International Foundation
3	Mr.Hanas T.	Won Best Paper Award in First International Conference and Expo on Magnesium – 2016, iMagCon 2016.

4.9

EXAMINATION DETAILS

B.Tech./B.Arch. Result

Pgm. Code	Total Registered	1st class with Distinction	1st Class	2nd Class	Total Pass	Percentage
CE	143	40	70	27	137	95.80
CS	161	52	73	29	154	95.65
EC	146	47	61	33	141	96.58
EE	141	35	78	25	138	97.87
ME	148	47	60	40	147	99.32
PE	48	7	25	11	43	89.58
BT	21	9	11	-	20	95.24
CH	90	23	50	13	86	95.56
EP	28	9	11	5	25	89.29
TOTAL	926	269	439	183	891	96.22
AR	42	2	28	10	40	95.24

Detail of M.Tech,MCA,MBA & Ph.D Students passedout

Pgm. Code	Total Registered	1st class with Distinction	1st Class	2nd Class	Total Pass	Percentage
CE61	20	8	11	1	20	100.00
CE62	17	13	4	0	17	100.00
CE63	16	9	7	0	16	100.00
CE64	19	16	2	0	18	94.74
CE65	8	5	3	0	8	100.00
CS61	26	14	12	0	26	100.00
CS62	14	8	6	0	14	100.00
EE61	21	15	5	0	20	95.24
EE62	19	11	6	1	18	94.74
EE63	17	8	7	1	16	94.12
EE64	20	9	11	0	20	100.00
EE65	12	6	5	0	11	91.67
EC61	22	9	11	0	20	90.91
EC62	19	10	9	0	19	100.00
EC63	18	8	6	1	15	83.33
EC64	13	9	4	0	13	100.00
ME61	18	9	8	0	17	94.44
ME62	20	8	12	0	20	100.00
ME63	17	14	3	0	17	100.00
ME64	16	8	8	0	16	100.00
ME65	20	13	7	0	20	100.00
ME66	12	6	6	0	12	100.00
NS61	9	7	2	0	9	100.00
TOTAL M.Tech	393	223	155	4	382	100.00
MA62	15	10	5	0	15	100.00
CY61	18	7	11	0	18	100.00
PH61	22	11	10	1	22	100.00
Total M.sc (Tech)	55	28	26	1	55	100.00
MBA	38	17	20	1	38	100.00
MCA	37	10	17	10	37	100.00
Ph.D	28	0	0	0	28	100.00
TOTAL	103	27	37	11	140	100.00

4.10. TECHNOLOGY BUSINESS INCUBATOR (TBI)

National Institute of Technology Calicut has set up a Technology Business Incubator (TBI-NITC) in 2003-04 with the support of National Science & Technology Entrepreneurship Development Board (NSTEDB) Department of Science and Technology, Govt. of India to incubate startup industries in IT and Electronics. TBI is registered as a society under the society's registration Act XXI of 1860 on 16 Sep 2009. The following table shows what TBI is so far:

1	Total number of units in Technology Business Incubator	14
2	Number of units joined during 2015 – 2016	6
3	Number of units graduated from TBI during 2015 - 2016	1
4	Number of units preparing to graduate	1
5	Total number of units so far assisted by TBI	52
6	Total number of employees in the incubated companies	800

Programmes conducted by TBI

- Three days workshop on Start up 2020 for college students conducted during 27th Feb , 28 Feb & 01 Mar' 2015.
- Two days workshop on BreakThrough Innovation and Entrepreneurship Camp for student entrepreneur conducted on 7th and 8th Sep 2015.
- Participated Swasraya Bharat 2015 exhibition during 15 to 21 Oct 2015 at Swapna Nagari, Kozhikode
- Two days workshop on Open Fuel Launch pad – Business Modeling conducted on 20 & 21 Feb 2016
- FACULTY DEVELOPMENT PROGRAMME ON ENTREPRENEURSHIP conducted during 08 to 18 Mar' 2016.

4.11. TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME (TEQIP)

This Institute has been selected for funding under TEQIP-II Sub Component-1.2. The total allocation under the TEQIP-II is 12.5 Crores Rupees and the period has been extended till October 2016. Funding under TEQIP-II is intended mainly for scaling up post graduate education, research and other related activities. During 2015-16, 33 faculty members have been deputed for International and National Conferences, Workshops, Training Programme etc. and 17 faculty members conducted workshops and academic support for weak students. 30 faculty members have attended the Faculty training in Outcome Based Education and Curriculum Design Process (NITTTR). 15 Research scholars and 46 PG and UG students have been sponsored for the Conferences, Research project work and Training Programme in India and abroad. Ten non faculty members attended the short term course in various National organizations. 14 Student research projects have been supported. The procurement of equipment for strengthening the Institution is in progress and the procurement plan has been drawn for an amount more than the 45% of the allocation so that the funds can be effectively utilized well within the project period and before October 2016. Six Faculty Development Programme have been conducted by the faculty of the Institute with support from TEQIP II. Institute has embarked in Tier I Accreditation of all UG and PG Engineering Degree Programmes with the help of TEQIP II. Institute has signed Memorandum of Understanding with various reputed National and International Institutions using support from TEQIP.

5.0 RESEARCH AND DEVELOPMENT ACTIVITIES

5.1 Ph.D PROGRAMMES-EXISTING AND PROPOSED

DEPARTMENT OF ARCHITECTURE

a. Ph. Ds completed under Existing Scheme

Sl. No.	Name	Guide	Area of Specialization	Scheme (QIP/Part Time/Full time)
1	Ar. Josna Raphael	Dr. Kasthurba A K	Spatial development of Historic Cities	PT

b. On-going Ph. Ds under the Existing Scheme:

Sl. No.	Name	Guide	Area of Specialization	Scheme (QIP/PT/FT)
1.	A.R. Bimal. P, NIT Calicut	Dr. P P Anilkumar	Land use impacts and parametric characterization of Kerala's urban pattern –	PT(Internal)
2.	A.R. Chithra K, NIT Calicut	Dr. P P Anilkumar and Dr. Naseer M A	Land use Impacts' analysis in a medium scale urban area -	PT(Internal)
3.	A.R. Muhammed Sharief, Karpagam	Dr. P P Anilkumar and	Climatic comfort as applied in	PT

	School of Architecture Coimbatore.	Dr. Naseer M A	vernacular architecture	
4.	A.R. Katiravan, Chief Architect, Venkitaraman Associates, Coimbatore.	Dr. P P Anilkumar & Dr. Arun	Norms for green buildings for the Indian context	PT
5.	A.R. Pradeep R, Engineer planner, Town planning Dept. of Kerala	Dr. P P Anilkumar	Built up space vs Infrastructure capacity assessment.	PT
6.	A.R. Amritha P K, Landscape Architect.	Dr. P P Anilkumar	Solid waste disposal through landscape development and maintenance	FT
7.	A.R. Anjana Bhagyanathan	Dr. Kasthurba A K	Environmental conservation of Sacred Groves in Malabar	FT
8.	A.R. Rajina Rahiman V	Dr. Naseer M A	Urban Transportation	PT
9.	Ms. Vidya G Mohan	Dr. Naseer M A	Urban transportation	PT
10.	Shine George	Dr. P P Anilkumar	Deliverance of Community Housing in the Aftermath of Natural Disasters–	PT
11	Mr. Binoy B V	Dr. Naseer M A & Dr. P P Anilkumar	Application of remote sensing for the land value studies in Kerala	FT
12	Mr. Alex Jose	Dr. Kasthurba A K	Sustainable Masonry Blocks	FT

DEPARTMENT OF CHEMICAL ENGINEERING

a. Ph. Ds completed under Existing Scheme

Sl. No	Name	Guide	Area of Specialization	Scheme (QIP/Part time/Full time)
1.	Mr.Naveen Sankaran	Dr.V.Sivasubramanian	Modeling and Simulation of Industrial accidents	FT
2.	Mr. K. Haribabu	Dr.V.Sivasubramanian	Effluent treatment using Inverse Fluidized Bed Reactor	PT
3	Ms. A.Najuma	Dr.Lity Alen Varghese	Adhesives & surface coatings	FT
4	Mr. Anu	Dr.Selvaraju	Modelling and simulation	FT
5	Mr.Rangabashiyam	Dr.N.Selvaraju	Biosorption of hexavalent chromium	FT

b. On-going Ph. Ds under the Existing Scheme

Sl. No	Name	Guide	Area of Specialization	Scheme (QIP/Part time/Full time)
1.	Mr.Vineesh Ravi	Dr.Shiny Joseph	Microdirect methanol fuel cell modelling and simulation	PT
2.	Mr.Hariharan	Dr.Shiny Joseph	Preparation and characterisation of activated carbon from biomass	FT
3.	Mr.R.Sivashankar	Dr.V.Sivasubramanian	Degradation of Dye stuff using Immobilisation and nano particles	FT
4.	Ms.Uma Krishnakumar	Dr.V.Sivasubramanian	Optimization of Biodiesel Production using solid metal oxide catalyst	FT
5.	Mr.M.A.Vishnuganth	Dr.N.Selvaraju	Waste water treatment using photocatalytic reactor	FT
6.	Mr.Rahul Antony	Dr.Selvaraju	Microfluidics: Modelling & Control of Microfluidic Reaction	FT
7.	Ms.A.B.Sathya	Dr.V.Sivasubramanian	Biopolymer production	FT
8.	Ms.P.Sreedha	Dr.V.Sivasubramanian	Design and operation of a	PT

			novel fixed biofilm reactor for the waste treatment	
9.	Ms. A. Dhanya	Dr.K.Aparna	Study on the degradation of dyes in textile effluent using a photocatalytic reactor	FT
10.	Mr. Anish Mathew	Dr.Malladi V. Pavan Kumar	Process control in Reactive Distillation column	PT
11.	Mr. Giri Nandagopal	Dr.N.Selvaraju	Microfluidics	FT
12.	Ms. E.Suganya	Dr.Lity Alen Varghese	Biosorption of hexavalent chromium	FT
13.	Mr. K.Vasantharaj	Dr.V.Sivasubramanian	Biodesulfurization	FT
14.	Ms. Lovey Jacob	Dr.Shiny Joseph	Membrane separation	FT
15.	Mr. Abdul Habid Pullichola	Dr.Lity Alen Varghese	Polymer technology	PT
16.	Ms. J.Kanimozhi	Dr.V.Sivasubramanian	Biopolysachcharide production	FT
17.	Mr. A.Surendhar	Dr.V.Sivasubramanian	Application of Computational Fluid Dynamics in Food Preservation	FT
18.	Mr. Nithin sreekumar	Dr.N.Selvaraju	Biofuel from microalgae	FT
19.	Ms. Sonly Heartson	Dr.Shiny Joseph	Fuel cell control	FT
20.	Mr. N.Mohanraj	Dr. S.Bhuvaneshwari	Electroadsorption	FT
21.	Mr. E.Nakkeeran	Dr.N.Selvaraju	Chromium removal using biosorbents	FT
22.	Mr. Suchith chellappan	Dr.K.Aparna	Biodiesel production	FT
23.	Mr. N.Shankar	Dr.V.Sivasubramanian	Process control	FT
24.	Mr. C.Vigneshwaran	Dr.V.Sivasubramanian	Biosurfactants production	FT
25.	Mr. V.Aneesh	Dr.N.Selvaraju	Process control	FT
26.	Mr. Abdul Jaleel	Dr.K.Aparna	Process control	FT
27.	Mr. M.Jerold	Dr.V.Sivasubramanian	Biosorption of dyes using algae	FT
28.	Ms. Sindhu	Dr.V.Sivasubramanian	Biofuels	FT
29.	Ms. Anju sunny	Dr.K.Aparna	Process control	FT
30.	Mr.Anish Thomas	Dr.Malladi V.Pavan Kumar	Process control	FT
31.	Mr.P.Murugan	Dr. S.Bhuvaneshwari	Waste water treatment using membranes	FT
32.	Ms.Remya Balakrishnan	Dr.Lity Alen Varghese	Polyurethane foams	PT
33.	Mr.Surej Rajan	Dr.Lity Alen Varghese	Boiling heat transfer characteristics of nanofluids	PT
34.	Sony George	Dr.Malladi V.Pavan Kumar	Spray drying of food products	PT
35.	Mr.Haisel Harison	Dr.Shiny Joseph	Boiling heat transfer	PT
36.	Aswani M. T	Dr.Malladi V.Pavan Kumar	Microbial degradation of pesticides	FT
37.	N. Saranya	Dr.N.Selvaraju	Waste water treatment using adsorption	FT
38.	Vidyeshwari D.	Dr. S.Bhuvaneshwari	Microbial fuel cell	FT
39.	Nivedita S	Dr.Shiny Joseph	Removal heavy metal using ultra filtration	FT
40.	M. Sathis Kumar	Dr.Malladi V.Pavan Kumar	Control of non-minimum-phase systems	PT
41.	Aswathy Asok	Dr. Haribabu K	Studies on Treatment of wastewater using an Inverse Fluidized Bed Bioreactor	PT (Internal)
42.	Keerthi R	Dr. Selvaraju N	Air quality modeling	FT
43.	Kavya VR	Dr. Aparna K	Optimization and control of fuel cell	FT
44.	Sumisha A	Dr. Haribabu K	Microbial fuel cell	FT
45.	Vinila M. L	Dr. Aparna K	Control of distillation column	PT
46.	Sreepriya S	Dr. Aparna K	pH Control	PT

DEPARTMENT OF CIVIL ENGINEERING

a. Ph. Ds completed under Existing Scheme

Sl. No	Name	Guide	Area of specialisation	Scheme (QIP/PT/FT)
1	Anjana A	Dr. M.V.L.R. Anjaneyulu	Transportation Engineering	FT
2	Chithra N.R.	Dr. Santosh G. Thampi	Water Resources Engineering	PT
3	Seema P	Dr. N. Ganesan & Dr. P.V.Indira	Structural Engineering	QIP
4	Asha C. Raju	Dr. George K. Varghese & Dr. S. Mathava Kumar	Environmental Engineering	FT

b. On-going Ph. D under existing scheme:

Sl. No.	Name	Guide	Area of specialization	Scheme (QIP/PT/FT)
1	V Vishnu	Dr. P Syamala	Water Resources Engineering	PT
2	Madhu Raj P C	Dr. J Sudhakumar	Building Science Engineering	QIP
3	Savitha C	Dr. S Chandrakaran Dr T.M. Madhavan Pillai	Geotechnical Engg	FT
4	Anil Kumar P.S	Dr. N Sankar Dr. S Chandrakaran	Geotechnical Engg	QIP
5	Hari G	Dr. N Sankar Dr. S Chandrakaran	Geotechnical Engg	PT
6	Gopan M	Dr. Santosh G Thampi	Environmental Engineering	PT
7	Shamla Rasheed	Dr. K Sasikumar Dr P Syamala	Water Resources Engineering	PT
8	K Smitha	Dr. Santosh G Thampi	Water Resources Engineering	FT
9	Sreela P K	Dr MVL R Anjaneyulu	Transportation Engineering	QIP
10	Sivakumar M	Dr MVL R Anjaneyulu	Transportation Engineering	PT (internal)
11	Sabna V	Dr. Santosh G Thampi	Environmental Engineering	FT
12	Aneesha Balaji	Dr. T M Madhavan Pillai Dr. Praveen Nagarajan	Structural Engg	PT
13	Manjula N.K.	Dr. Praveen Nagarajan Dr. T M Madhavan Pillai	Structural Engg	FT
14	Yashida Nadir	Dr. Praveen Nagarajan Dr. Mohammed Ameen	Structural Engg	FT-QIP
15	Sri. Ragesh P.P.	Dr. V Mustafa	Offshore Structures	FT-QIP
16	Smt. Sreelekha M.G.	Dr MVL R Anjaneyulu	Transportation Engineering	FT-QIP
17	Sri.B.Venkata Subbaiah	Dr. V Mustafa Dr. Santhosh G Thampi	Offshore Structures	FT-QIP-Poly
18	Safeerali Abbas Ali	Dr. Arun C	Building Science Engg.	FT
19	Mohammed Abdul Akbar	Dr. V Mustafa	Structural Engg.	FT
20	Lila P.C.	Dr MVL R Anjaneyulu	Transportation Engineering	PT
21	V.S.Sanjay Kumar	Dr. C Arun	Construction Management	PT
22	Bybin Paul	Dr MVL R Anjaneyulu	Transportation Engineering	PT
23	Nidhi M	Dr. P V Indira	Structural Engg	FT
24	Raghu Kumar C.	Dr. Vinu Palliserry Dr. T P Somasundaran	Bio Mechanics	FT
25	Beena B.R.	Dr. A P Shashikala	Structural Engg	PT
26	Shiji P.	Dr. C Arun	Construction Management	FT
27	Bindu Sugunan	Dr. Santhosh G Thampi	Environmental Engg.	PT
28	Muneera C.P.	Dr. K Krishnamurthy	Transportation Engineering	FT
29	Saji K.P.	Dr. T M Madhavan Pillai Dr. Sajith A S	Structural Engg	PT

30	Abey E.Thomas	Dr. T P Somasundaran Dr. Sajith A S	Structural Engg	FT
31	Biju M.S.	Dr. Santhosh G Thampi	Environmental Engg.	PT
32	Anil Joseph	Dr. S Chandrakaran Dr. N Ganesan	Geotechnical Engg	PT
33	Ansu V	Dr MVL R Anjaneyulu	Transportation Engineering	QIP
34	Devika Babu	Dr MVL R Anjaneyulu	Transportation Engineering	FT
35	Harikumar M	Dr. S Chandrakaran Dr. N Sankar	Geotechnical Engg	FT
36	Greeshma Nizy Eujine	Dr. S Chandrakaran Dr. N Sankar	Geotechnical Engg	FT
37	Lamanto T. Somervell	Dr. Santhosh G Thampi	Hydraulics	FT
38	Prashob P S	Dr. T P Somasundaran	Offshore Structures	FT
39	Sahana Ranganatha	Dr. N Ganesan Dr. P V Indira	Structural Engg	FT
40	Sivakumar B	Dr. K Krishnamurthy	Transportation Engineering	PT
41	Sabitha N M	Dr. Santhosh G Thampi Dr. Sathish Kumar D	Hydraulics	PT
42	Dipty Sarin Isaac	Dr. S Chandrakaran Dr. K Rangaswamy	Geotechnical Engg	PT
43	Arun Baby Zacharia	Dr. Hari Krishna M Dr MVL R Anjaneyulu	Transportation Engineering	FT
44	Drisy a.T	Dr. Sathishkumar D	Hydraulics	FT
45	Mandala Siva Priyanka Yadav	Dr. Mathavakumar S	Geotechnical Engg	FT
46	Neena.M.Joseph	Dr. Hari Krishna M Dr MVL R Anjaneyulu	Transportation Engineering	FT
47	Ciby Jacob Cherian	Dr. Sajith A S Dr. T M Madhavan Pillai	Structural Engg	FT
48	Irshad Abdul Azeez.P	Dr. P V Indira Dr. N Ganesan	Structural Engg	FT
49	Prakash.C	Dr. Santhosh G Thampi	Environmental Engg.	PT
50	Sandeep.M.S	Dr.Praveen Nagarajan Dr. A P Shashikala	Structural Engg	FT
51	R.Sathya Prakash	Dr. K Krishnamurthy	Transportation Engineering	FT
52	M. Drisy a	Dr. K Krishnamurthy	Transportation Engineering	FT
53	Femy M Makkar	Dr. K Rangaswamy Dr. S Chandrakaran	Geo. Tech	FT
54	Sukanya J Nair	Dr. K Sasikumar	Water Resources Engineering	FT
55	Minu Ann Peter	Dr. Sajith A S Dr. Praveen Nagarajan	Structural Engg	FT
56	Sherin K S	Dr. N Sankar Dr. S Chandrakaran	Geo. Tech.	PT
57	Himasree P R	Dr. P V Indira Dr. N Ganesan	Structural Engg	FT
58	Muhammed Siddik A	Dr. George K Varghese	Environmental Engg.	PT
59	Akhila M	Dr. K Rangaswamy	Environmental Engg	FT
60	Sangeetha M	Dr MVL R Anjaneyulu Dr. Hari Krishna M	Transportation Engineering	FT
61	K T Vipin	Dr. P V Indira Dr. N Ganesan	Structural Engg	FT
62	Rinku Varghese	Dr. K Rangaswamy Dr. S Chandrakaran	Geo. Tech	FT
63	Dharmesh Lal	Dr. N Sankar Dr. S Chandrakaran	Geo. Tech	FT
64	Sathish Kumar V	Dr. P V Indira Dr. N Ganesan	Structural Engg	FT
65	Regi P Mohan	Dr. K Rangaswamy	Geo. Tech	FT

66	Poonam Mohan	Dr. A P Shashikala Dr. T P Somasundaran	Structural Engg	FT
67	Ajith Kumar	Dr. T M Madhavan Pillai Dr. Praveen Nagarajan	Structural Engg	FT
68	Unnikrishnan S	Dr. J Sudhakumar Dr. V Mustafa	Construction Management	PT
69	Narayanan N I	Dr. N Ganesan Dr. P V Indira	Structural Engineering	PT
70	Remya V R	Dr. Santhosh G Thampi Dr. Pramada S K	Water Resources Enigneering	FT
71	Jisha John	Dr. Santhosh G Thampi Dr. Chithra N R	Water Resources Enigneering	FT
72	Lincy Christy D	Dr. T M Madhavan Pillai Dr. Praveen Nagarajan	Structural Engineering	FT
73	Surya T V	Dr. Santhosh G Thampi	Water Resources Enigneering	FT
74	Anand Raj	Dr. A P Shashikala Dr. Praveen Nagarajan	Offshore Structures	FT

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

a. Ph. Ds completed under Existing Scheme:

Sl. No	Name	Guide	Area of specialisation	Scheme (QIP/PT/FT)
1	Mr. Manu J Pillai	Dr. M P Sebastian, Dr.S.D Madhu Kumar	Mobile Networks	PT
2	Mr. Jereesh A S	Dr.V K Govindan	Image Processing	PT

b. On-going Ph. Ds under the Existing Scheme

Sl. No.	Name	Guide	Area of specialisation	Scheme (QIP/PT/FT)
1.	Mr. K.S.Valasaraj	Dr. Vineeth Paleri	Compilers	QIP
2.	Mr. Shyam P Joy	Dr. Priya Chandran	Information Security	PT
3.	Mr. Saidalavi Kalady	Dr. V K Govindan	Intelligent agents	PT (Internal)
4.	Ms. Saleena N	Dr. Vineeth K Paleri	Compilers	PT (Internal)
5.	Ms. Anu Mary Chacko	Dr.S D Madhu Kumar	Network Security	PT (Internal)
6.	Ms. Rekha R.	Dr. Vineeth K Paleri	Compilers	FT
7.	Ms. Pournami P.N.	Dr. V.K. Govindan	Image Processing	PT (Internal)
8.	Mr. Vinith R	Dr. V.K. Govindan	Image Processing	PT
9.	Ms. Pamela Vinita Eric	Dr. K. Murali Krishnan	Algorithms	PT
10.	Mr. Jayaraj P B	Dr. K. Murali Krishnan	Operating Systems	PT (Internal)
11.	Ms. Lijiya A	Dr. V.K Govindan	Image Processing	PT (Internal)
12.	Mr. Jithin R	Dr. Priya Chandran	Information Security	FT
13.	Mr.Unnikrishnan P	Dr. V.K.Govindan	Pattern Recognition	FT
14.	Ms.Shabeera T P	Dr. S D Madhu Kumar	Cloud Computing	FT
15.	Ms. Nishamol P H	Dr. G. Gopakumar	Bioinformatics	PT
16.	MR. K Nagaraju	Dr.Sudeep K S	Algorithms & Graph Theory	FT
17.	Ms.Jeethu V Devasia	Dr. Priya Chandran	Algorithms	FT
18.	Ms.Sreejini K S	Dr. V.K.Govindan	Image Processing	FT
19.	Ms Sameera Muhammed Salam	Dr. K Muralikrishnan	Graph Theory	FT
20.	Ms Remya K Sasi	Dr. V.K Govindan	Image Processing	FT
21.	Ms Nandini J Warriier	Dr. K Muralikrishnan	Graph Theory	FT
22.	Ms Daphna Chacko	Dr. K Muralikrishnan	Graph Theory	FT
23.	Mr Arun K S	Dr. V.K.Govindan	Image Processing	FT
24.	Ms Anita Brijit Mathew	Dr. S D Madhu Kumar	Cloud Computing	FT
25.	Mr Ojus Thomas Lee	Dr. S D Madhu Kumar, Dr.Priya Chandran	Cloud Computing	FT
26.	Mr Sunil Kumar P V	Dr. G. Gopakumar	Bioinformatics	FT
27.	Mr Sarang Sukumar A	Dr. G. Gopakumar	Bioinformatics	PT

28.	Mr Giles M P	Dr. S D Madhu Kumar	Cloud Computing	FT
29.	Ms Mahija K C	Dr. K A Abdul Nazeer	Bioinformatics	FT
30.	Mr Vishak R	Dr. K A Abdul Nazeer	Bioinformatics	FT
31.	Ms Shamna P	Dr. V.K Govindan, Dr. K A Abdul Nazeer	Image Processing	FT
32.	MsJeena Kleenankandy	Dr. K A Abdul Nazeer	Natural Language Processing	FT
33.	Mr. Sreenu Naik Bhukia	Dr. Sudeep K S and Dr A V Babu (ECED)	Wireless Mobile adhoc Networks.	PT
34.	Manu Madhavan	Dr. G. Gopakumar	Bioinformatics	FT
35.	Rani M.R	Dr. Subhashini R	Design and analysis of fixed parameter tractable algorithms	FT
36.	Sankaranarayanan P. N	Dr. K A Abdul Nazeer	Biological Data Mining	FT
37.	Saritha Murali	Dr. K Muralikrishnan	Bioinformatics, NLP, Machine Learning	FT
38.	Sithara Kanakaraj	Dr. G. Gopakumar,	Image Processing and Computer Vision	FT

DEPARTMENT OF ELECTRICAL ENGINEERING

a. Ph. Ds completed under Exixiting Sheme:

SI No	Name	Guide	Area of specialization	Scheme (QIP/PT/ FT)
1	Reeda K	Dr. Paul Joseph K	Biomedical Signal Processing	FT
2	C. Jayachandran	Dr. Paul Joseph K	Biomedical Signal Processing	FT
3	Surya S Nair	Dr. Paul Joseph K	Biomedical Signal Processing	FT
4	John George	Dr.T. L. Jose and Dr. Jeevamma Jacob	FACTS Controllers for Power Quality Improvement	FT
5	Ismayil	Dr. R Sreeram Kumar & Dr. Sindhu T K	Power Systems	QIP
6	Siny Paul	Dr. Sindhu T K	Nanocomposite Insulators	PT
7	Rajeev T.	Dr. Ashok S.	Power Systems	QIP
8	Vasanthi V.	Dr. Ashok S.	Power Electronics	QIP
9	Maya G	Dr. Elizabeth P Cheriyan and Dr.Jeevamma Jacob	Power Systems	FT
10	Thasneem Fathima N K	Dr. Paul Joseph K.	Biomedical Engineering	FT

b. Ongoing Ph. Ds under the Existing Scheme:

SI. No	Name	Guide	Area of specialization	Scheme (QIP/PT/ FT)
1	Sreekanth M	Dr. Abraham T Mathew	Control Systems	FT
2	Shyma Muhammed	Dr. Abraham T Mathew	Control Systems	FT
3	Mary Reena K E	Dr. Abraham T Mathew	Control Systems	QIP
4	Ajay Babu	Dr. Ashok S	Investigations on Plug-in Vehicles	FT
5	Sujo George	Dr. Ashok S	Adaptive Relaying for Microgrid Protection	FT
6	Parthish Kumar Paul	Dr. Jeevamma Jacob	Control Systems	PT
7	M Pala Prasad Reddy	Dr. Jeevamma Jacob	Control Systems	FT
8	Shalu George	Dr. K S Sivanandan	Control Systems	QIP
9	Jinu K T	Dr. K S Sivanandan	Control Systems	PT
10	Ashmi M	Dr. K S Sivanandan	Control Systems	FT
11	Sujalakshmi V	Dr. K S Sivanandan & Dr. K M Moideenkutty	Control of self-balancing system	PT
12	RehnaNalakath	Dr. M P Nandakumar.	Control Systems, Optimal Control	FT

13	K Dheeraj	Dr. M P Nandakumar.	Control Systems, Optimal Control	FT
14	T Ananthan	Dr. M. V. Vaidyan	Control Systems	FT
15	Shijoh V	Dr. M. V. Vaidyan	Control Systems	FT
16	Anirudh K M	Dr. Mukti Barai	Power Electronics	FT
17	Meenu D Nair	Dr. Mukti Barai	Power Electronics	FT.
18	Vivek G	Dr. Mukti Barai	Power Electronics	FT
19	Subhash K M	Dr. Paul Joseph K	EMG Signal Processing	PT(Internal)
20	Saritha M	Dr. Paul Joseph K. & Dr. Abraham T Mathew	Biomedical image processing	FT
21	Ahammed Muneer	Dr. Paul Joseph K.	Biomedical image processing	PT
22	K. G. Jolly	Dr. R. Sreeram Kumar & Dr. R. Vijaya Kumar	Intelligent Task Planning and Action selection in a Multi- agent Robot-Soccer System	PT
23	Binu K Baby	Dr. Saly George	Power Electronics	FT
24	Nisha P V	Dr. Sindhu T K & Dr. Elizabeth P Cheriyian	Electromagnetic interference	PT
25	Sony Kurian	Dr. Sindhu T K & Dr. Elizabeth P Cheriyian	Power Systems	FT
26	Devika KB	Dr. Susy Thomas	Control Systems	FT
27	Rinu Alice Koshy	Dr. Susy Thomas	Control Systems	PT
28	Mini V	Dr. T. K. Sunil Kumar	Power Systems	QIP
29	Priya N	Dr. T. K. Sunil Kumar	Control Systems	FT
30	Shinghare D Y	Dr. T. K. Sunil Kumar	Power Systems	QIP (Poly)
31	Suresh P Damodaran	Dr. T. K. Sunil Kumar	Power Systems	QIP
32	Febina Beevi P	Dr. Jeevamma Jacob & Dr. T. K. Sunil Kumar	Control Systems	FT
33	Guguloth Ramesh	Dr. T. K. Sunil Kumar	Power Systems	FT
34	Suraj Damodaran	Dr. T. K. Sunil Kumar & Dr. A. P. Sudheer	Image processing and its application to robotics	FT
35	Joseph Peter	Dr. Rijil Ramchand	Constant switching frequency hysteresis controllers	FT
36	Biju K	Dr.RijilRamchand	Grid interfacing of renewable energy sources using multilevel inverters	PT
37	Pratheesh K J	Dr.Rijil Ramchand, Dr. Jagadanand G	Multi-Level Inverters	FT
38	Deepthi S Nair	Dr. Saly George, Dr. Jagadanand G	Torque ripple reduction in BLDC motors	FT
39	Nithin Raj	Dr. Saly George, Dr. Jagadanand G	Condition monitoring of Induction Machine	FT
40	Abhilash T Vijayan	Dr. Ashok S	Visual Servoing for a Robotic Manipulator	QIP
41	Jino M Pattery	Dr. Elizabeth P. Cheriyian & Dr. Rijil Ramchand	Power Systems	PT
42	Sivaprasad	Dr. Kumaravel S & Dr. S Ashok	Optimal Interfacing strategies for Micro-Grids	FT
43	Rajashree Raghavan	Dr. Susy Thomas	Control Systems	QIP
44	M J Laly	Dr. Elizabeth P Cheriyian & Dr. Abraham T Mathew	Control Systems	QIP
45	Sandeep J	Dr. Rijil Ramchand & Dr. S Ashok	Matrix converter topology for VF Drives	FT
46	Rohit K Mathew	Dr.Ashok S & Dr Kumarvel S.	Reliability vs Resilience of Microgrid	FT
47	Haseena K A	Dr.Jeevamma Jacob & Dr. Abraham T Mathew	Control Applications in Power Systems	FT
48	Jaya C K	Dr. Sunitha R & Dr. Abraham T Mathew	Control Applications in Power Systems	FT

49	Smt.Parvathy	Dr. M. P. Nandakumar	Optimal Control	FT
50	Avinash V Nelson	Dr. Preetha P/ Dr. Sunitha K	Nanodielectrics	FT
51	Jineeth Joseph	Dr Sindhu T K	Condition monitoring of power apparatus	FT
52	Rohikaa Micky	Dr.Sunitha R & Dr.Ashok. S	Dynamic Security Assessment of Microgrids	FT
53	Anjana K G	Dr. Mukti Barai	Power Electronics	FT
54	Aswini Kumar Muthavarapu	Dr. Mukti Barai	Power Electronics	FT
55	Akhil Vinayak B	Dr. Jagadanand G	Fault detection in Induction Motor Drives.	FT
56	Nidya M V	Dr. Jeevamma Jacob and Dr. Mija S J	Modelling and Control of 3 dof Helicopter	FT
57	Nimmy John T.	Dr.Subha D.P.	Biomedical Engineering	FT
58	Binukrishnan	Dr. Mija S. J. & Dr. Elizabeth P. Cheriyan	Power System Control	FT
59	Vinu Thomas	Dr. Kumaravel S & Dr. S Ashok	Power & Control System	FT
60	Joseph P. Varghese	Dr. Ashok S. & Dr. Kumaravel S.	Transmission Line Congestion Management	PT
61	Sigi C. Joseph	Dr. Ashok S.	V2G and V2H applications in Smart grids	PT
62	Ravishankar A N	Dr. Ashok S. & Dr. Kumaravel S		FT
63	Grace Sadhana Samuel	Dr. Ashok S. & Dr. Kumaravel S	Microgrid stability Analysis	FT
64	Anjali Anand K	Dr. Saly George, Dr. Jagadanand G	Fault Detection of Machines & Drives	FT
65	Jayakrishnan S R	Dr. Elizabeth P Cheriyan, Dr. Sindhu T K	Power Systems	FT
66	Retheep Raj	Dr. K S Sivanandan	Biomedical engineering	QIP
67	Sreekanth M	Dr. Abraham T Mathew	Control Systems	FT
68	Shyma Muhammed	Dr. Abraham T Mathew	Control Systems	FT
69	Mary Reena K E	Dr. Abraham T Mathew	Control Systems	QIP

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

a. Ph. Ds completed under Existing Scheme :

Sl. No.	Name	Guide	Area of Specialization	Scheme (QIP/ PT/ FT)
1	Shaheen K.	Dr. Elizabeth Elias	Cosine modulated digital filter banks	FT
2	Muneer P	Dr Sameer S. M.	Wireless Communication	FT
3	Suja K J	Dr Rama SubramaniamKomaragiri	MEMS	PT

b. On-going Ph. Ds under the Existing Scheme:

Sl. No.	Name	Guide	Area of Specialization	Scheme (QIP/ PT/ FT)
1	Nisha Haridas	Dr. Elizabeth Elias	Farrow structure Digital filters and applications	FT
2	V. Sakthivel	Dr. Elizabeth Elias	Modulated Digital Filter Banks	PT
3	Bindima T.	Dr. Elizabeth Elias	Two Dimensional Digital filters	QIP
4	Amir A.	Dr. Elizabeth Elias	Multirate signal Processing	FT
5	I. Raghu	Dr. Elizabeth Elias	Cognitive Radio	FT

6	Anil Jacob	Dr. Lillykutty Jacob	Medical Sensor Networks	FT
7	M. J. Jalaja	Dr. Lillykutty Jacob	Under Water Sensor	QIP
8	Shamna H. R.	Dr.Lillykutty Jacob	Cooperative Networks	QIP
9	Mary Reena	Dr.Lillykutty Jacob and Dr.Abraham T. Mathew	Networked Control Systems	QIP
10	Deepthi Renjith	Dr.Lillykutty Jacob	Low Power LossyWireless Networks	QIP
11	Gilesh M. P.	Dr.Lillykutty Jacob and Dr.S. D. Madhukumar	Cloud Computing	QIP
12	Susan Dominic	Dr. Lillykutty Jacob	5G Mobile Networks	FT
13	Remya Jayachandran	Dr. P. C. Subramaniam	VLSI	FT
14	Sreelatha G	Dr. P.S.Sathidevi	Medical Image Processing	QIP
15	Jayakumar E.P.	Dr P.S.Sathidevi	Speech Enhancement	PT
16	Lekshmi M.S.	Dr. P.S.Sathidevi	CASA	PT
17	Nisha K.	Dr Sreelekha G & Dr.P.S.Sathidevi	Medical Image Processing	FT
18	Arunsankar M.S.	Dr.P.S.Sathidevi	Speech Coding	FT
19	Athulya Nair	Dr.P.S.Sathidevi	Speaker Recognition	FT
20	V Meena	Dr.G. Abhilash	Signal Theory	PT
21	Gayatri Parthasarathi	Dr.G. Abhilash	Signal Theory	FT
22	Shahnaz K V	Dr.C. K. Ali	Wireless Communication	PT
23	Deepak P M	Dr.C. K. Ali	Wireless Communication	FT
24	Syam Chandran	Dr.C. K. Ali	OFDM and MIMO systems	FT
25	Namitha A. S.	Dr.Sameer S. M.	Wireless System Design	FT
26	FintoRaphel	Dr.Sameer S. M.	Multimedia Transmission over Wireless Networks	FT
27	Nishanth N.	Dr.Sameer S. M.	Security Issues in Wireless Networks	PT
28	Nandakumar R	Dr.Deepthi P.P. &Dr.Sameer S.M.	Light Weight Cryptography	PT
29	Sanoop Kumar P.S.	Dr.Sameer S. M.	Wireless Communication	FT
30	Najlah C. P.	Dr.Sameer S. M.	Wireless Communication	FT (Visweswarayya Ph.D Scheme)
31	Sidharth Shelly	Dr.A.V. Babu	Vehicular Ad Hoc Networks	FT
32	K.S. Deepak	Dr.A.V. Babu	Wireless Body Area Networks	QIP
33	K.S Geethu	Dr.A.V. Babu	Underwater Acoustic Sensor Networks	FT
34	K. Ram Babu	Dr.A.V. Babu	Relay Assisted Multi-hop	FT
35	Upama Rajan	Dr.A.V. Babu	Millimeter wave Wireless Networks	QIP
36	Poornima S	Dr.A.V. Babu	Cognitive Cooperative Communication	FT
37	Celine Mary Stuart	Dr.Deepthi P.P.	Secure channel coding	QIP
38	Jilna P.	Dr.Deepthi P.P.	Hardware efficient integrated secure system	FT
39	Amit S. Unde	Dr.Deepthi P.P.	Distributed secure source coding	FT

40	Lakshmi V S	Dr.Deepthi P.P.	Secure distributed storage	QIP
41	Aneesh M Koya	Dr.Deepthi P.P.	Secure data processing in body area network	FT
42	Abhilash Antony	Dr.Sreelekha G	Video Compression	FT
43	Arun Varghese	Dr.Sreelekha G	Video Analytics	QIP
44	Supriya Unnikrishnan	Dr.Sreelekha G	Hardware Architectures for Video processing	FT
45	Sudhi Sudharman	Dr.Bindiya T. S.	Multirate Signal Processing	FT
46	Mridula K M	Dr.Ameer P. M.	Wireless Networks	FT
47	Roy Thankachan	Dr.Ameer P. M.	Wireless Networks	PT
48	Nidheesh	Dr.Ameer P M, Dr.Nazeer (CSE)	Bioinformatics	QIP
49	Abdu Rahiman V	Dr.Sudhish N Dr. George	Image Super-Resolution	PT
50	Sameera MhdSageer	Dr.Sudhish N George	Medical Image Denoising	FT
51	Nishanth Augustine	Dr.Sudhish N George	Remote Sensing Image Fusion and its Applications	PT
52	Baburaj M	Dr.Sudhish N George	Low Rank Matrix Recovery and its applications in Signal Processing	PT
53	Hari C V	Dr.Praveen Sankaran	Pattern Classification	PT
54	Rashmi M	Dr.Praveen Sankaran	Pattern Classification	FT
55	Deepa Nair	Dr.Praveen Sankaran	Image Processing	FT
56	Shameer F	Dr.Praveen Sankaran	Pattern Classification	FT
57	Kalpana George	Dr.Praveen Sankaran	Image Processing	FT

DEPARTMENT OF MECHANICAL ENGINEERING

a. Ph. Ds completed under Existing Scheme:

Sl. No.	Name	Guide	Area of Specialization	Scheme (QIP/PT/FT)
1	M. Srinivas	Dr. S. Jayaraj	Energy Engineering	PT
2	Bharatbhushan V Kamble	Dr. Biju T Kuzhiveli	Thermal Sciences	PT
3	Jesseela S	Dr. C. B. Shoban and Dr. Sarith P Sathian	Nano Technology	QIP
4	A.P. Sudheer	Dr. R. Vijayakumar and Dr. Mohandas	Robotics	PT
5	Sekar K	Dr. Allesu Kanjirathinkal and Dr. M A Joseph	Al alloy pressure casting	PT
6	Deepa Mohan	Dr. N. Sudarsan	Industrial Management	PT
7	Basil Kuriachen	Dr. Jose Mathew	Manufacturing	FT
8	Sajan T John	Dr. R. Sridharan	Reverse logistics	FT
9	Rani S	Dr. K. Prabhakaran Nair and Dr. ML Joy	Development of a new lubricant	QIP
10	Arunkumar O.N	Dr. T. Radha Ramanan	Working capital Management	FT

b. On-going Ph. Ds under the Existing Scheme:

Sl. No	Name	Guides	Area of Specialization	Scheme (FT/PT /QIP)
1	Bipin Balaram	Dr. M.D. Narayanan & Dr. P. K. Rajendra kumar	Design	FT

2	Vipindas K.	Dr. Jose Mathew	Micromachining	FT
3	Shijo Thomas	Dr. C. B. Shoban	Nano Technology	PT
4	Joseph Babu	Dr. ML Joy and Dr. K. Prabhakaran Nair	Development of a new grease	FT
5	Favas T K	Dr. Ghulam Jilani	Thermal Science	PT
6	Rohinikumar. B.	Dr. C. Muraleedharan	Analysis of solar thermal water pumping system	PT
7	Umarali K	Dr. T. Radha Ramanan and Dr. R. Sridharan	Scheduling	PT
8	Rajesh T N	Dr. T J Sarvoththama Jothi and Dr. T.	Experimental Studies in Vortex Chamber	PT
9	Sajith K.G.	Dr. C. Muraleedharan	Studies on hybrid solar thermal-pv system	PT
10	J. Laxmi Lalitha	Dr. V. Madhusudanan Pillai	Manufacturing execution system	PT
11	N. Jayasree	Dr. T. Radha Ramanan and Dr. R. Sridharan	Forecasting	QIP
12	Vinod V	Dr. M.D. Narayanan	Synchronization in mechanical systems	FT
13	PV Manu	Dr. A. Ramaraju	Thermal Science	PT
14	Premchand VP	Dr. M.D. Narayanan and	Nonlinear vibration absorbers	FT
15	Pradeepmon T G	Dr.R. Sridharan and Dr. Vinay V. Panicker	Quadratic Assignment Problem	PT
16	Kishor Kumar V V	Dr. Biju T Kuzhiveli	Thermal Sciences	PT
17	Nidhi M. B.	Dr. V. Madhusudanan Pillai	Green supply chain management	PT
18	Rakesh Hari	Dr. C. Muraleedharan	Entropy estimation during	FT
19	K Pratheesh	Dr. M A Joseph, Dr. M Ravi	Al alloy structure modification	PT
20	Eby Dabid	Dr. R. Manu	Manufacturing Technology	FT
21	Rajesh VR	Dr. Biju T Kuzhiveli	Thermal Sciences	PT
22	Amit Aravind	Dr. ML Joy and	Development of a new	FT
23	Salumuri. S. L. Rao	Dr. A. Shaija and Dr. S. Jayaraj	Design and development of Fuel Cell	QIP
24	Remil George Thomas	Dr. R. Manu	Manufacturing technology	PT
25	Chacko Preno Koshy	Dr. Rajendrakumar, P.K.	Design	FT
26	Monikantan V	Dr. M. A. Joseph and Dr. P K Rajendrakumar	Wear studies of nanocomposite	FT
27	Anish M N	Dr. Dhanish P B and	Quality management	QIP
28	Jobin M.V.	Dr. T. Radha Ramanan	Lean Manufacturing	PT
29	Pretheesh K	Dr. Allesu Kanjirathinkal, M A	Strengthening of Al castings	PT
30	Saijal KK	Dr. K. Prabhakaran Nair and Dr. ML Joy	Optimization of helicopter rotor	PT
31	Shaiju M R	Dr. S Jayaraj and Dr. Arun P	Gas turbine diagnostics	PT
32	Rony Johnson	Dr. S Jayaraj and Dr. Arun P	Solar thermal hybrid systems	PT
33	Abdul Nazar K. P	V. Madhusudanan Pillai	Analysis of pull control policies for multi-product	FT
34	Madhu V V	Dr. Dhanish P B	Quality management	PT
35	Eldose KK	Dr. R. Sridharan	Supply chain scheduling	PT

36	Mithun Paul	Dr. T. Radha Ramanan Dr. R Sridharan	Scheduling	FT
37	Ajith Kuriakose	Dr. M.D. Narayanan	Modeling of complex systems using fractional calculus	FT
38	Mubarak M	Dr. A. Shaaja and Dr.T.V. Suchithra	Expt. investigations on the use of biofuels produced from <i>Salvinia molesta</i> and <i>Chlorella</i>	FT
39	Sreejith B J	Dr. N. Sudarsan	Industrial Engineering	PT
40	Vinod O M	Dr. Dhanish P B	Statistical Process Analysis	QIP
41	Deepan Raj B	Dr. S. Jayaraj Dr. V. Subramaniam	Bio-gasification	FT
42	Solomon Joseph	Dr. R. Sridharan	Cross docking in supply chains	PT
43	Joby George	Dr. V. Madhusudanan Pillai	Analysis of inventory policies in supply chain	FT
44	Rupesh S	Dr. Arun P and Dr. C Muraleedharan	Biomass gasification	FT
45	Ramesh M	Dr. Dhanish P B	Quality management	FT
46	Dileep K	Dr. S. Jayaraj	Thermal Science	PT
47	Jobin Varghese	Dr. P.K. Rajendra kumar	Design	FT
48	Jabir E	Dr. R. Sridharan and Dr. V. Vinay Panicker	Green Logistics	FT
49	Ladeesh V G	Dr. R. Manu	Electrochemical Discharge Machininig	FT
50	Anjana Viswanath	Dr. R. Sridharan	Flow shop scheduling	FT
51	Kiran Mohan	Dr. V. Madhusudanan Pillai	Ergonomic Design of Agricultural Implements	FT
52	Rajesh Kana	Dr. A. Shaaja	Expt. investigations on the use of biofuels produced from	FT
53	Srinivasala Rao	Dr. A. Shaaja	Flame acoustic interaction applicable to gas turbines	PT
54	Lokesh. B paradeshi	Dr. S. Jayaraj	Thermal Engineering	FT
55	Shruthi C M	Dr. M.L. Joy and Dr. Sudheer A P	Robotics	FT
56	Arun P Raj	Dr. PB Dhanish	Metrology	FT
57	Rakesh. L	Dr. T.J.S. Jothi	Jet Flows	FT
58	Ajyuk J Raj	Dr. R. Sridharan and Dr. V. Vinay Panicker	Integrated Airline Fleet Assignment and Crew	PT
59	Jilse Sebastian	Dr. C. Muraleedharan and Dr. Santhiagu	Enzymatic Transesterification of Vegetable Oils	FT
60	Joel George	Dr. C. Muraleedharan and Dr. Arun P	Experimental Analysis of Fluidesed Bed Gasification	FT
61	K. Srikanth	Dr. R. Vijayakumar and Dr. Abraham T Mathew	Robotics	FT
62	Deepak G. Dilip	Dr. Jose Mathew and Dr Satyananda Panda	Micromachining	FT
63	Anoop K. P.	Dr. Vinay V. Panicker	Food grain Supply Chain	FT
64	Sabarinath	Dr. K. Prabhakaran Nair and P.K. Rajendra	Tribology	FT
65	Ambika PS	Dr. K. Prabhakaran Nair and P.K. Rajendra	Tribology	FT
66	Derick Abraham	Dr. Biju T Kuzhiveli	Cryogenic cooler	FT
67	Sajeeb A.M.	Dr. Rajendrakumar P.K	Tribology	PT
68	Rahul.S. Arackal	Dr. TJS Jothi	Jet flows and Acoustics	FT
69	Vishnu S B	Dr. Biju T Kuzhiveli	Thermal stratification problem in liquid oxygen tank	FT

70	Nimmy.J.S	Dr. V Madhusudanan Pillai	Collaboration in Supply Chain Performance	FT
71	Arun K Raj	Dr. S. Jayaraj	Modeling of PCM based Thermal Energy Systems	FT
72	T sivakrishna	Dr. Biju T Kuzhiveli	Stirling Cryocooler	FT
73	Aju Zachariah Mani	Dr. Jayadeep U B	case study on wear characterization of nano coated surfaces	FT
74	Akhil V M	Dr. P K Rajendrakumar Dr. K S Sivanandan,	On the dynamics of a pneumatically activated human	FT
75	Renju Mohan	Dr. R Manu, Dr. Jayadeep U.B.	Fracture Behavior of Friction Stir Welded Joints	FT
76	Vishnu Prasad	Dr. M. A Joseph Dr. K Sekhar	Material Science	FT
77	Anilkumar E N	Dr. R. Sridharan	Supply Chain Management	FT
78	Jees George	Dr. R. Manu Dr. Jose Mathew	Wire- EDM	FT

DEPARTMENTS OF MATHEMATICS

a. Ph.D.s completed under Existing Scheme

Sl. No.	Name	Guide	Area of Specialization	Scheme (QIP//Full time)
1	K R Sandeep Narayan	Dr. M.S Sunitha	Studies on distance parameters in graphs and connectivity in complement of Fuzzy graphs.	PT
2	Mini Tom	Dr. M S Sunitha	Connectivity, Sum distance, boundary and interior nodes in Fuzzy graphs.	PT
3	Anjali Kishore	Dr. M.S Sunitha	On injective coloring of graphs and chromaticity of fuzzy graphs.	PT
4	Mini Rani	Dr. Sunil Mathew	Studies on iterated function systems and Topology of fractal space.	FT
5	Lineesh M C	Dr. JessyJohn.C	Modeling of Nonstationary-Non linear Time Series by applying wavelet Theory.	PT (Internal)

b. On-going Ph.Ds under the existing Scheme:

Sl. No.	Name	Guide	Area of Specialization	Scheme (QIP/PT/FT)
1	Deepak D	Dr.Sunil Jacob John	Rough sets	FT
2	Bajeel.P.N	Dr. Mahesh Kumar	Reliability of Systems	FT
3	Naveen.P	Dr. Chithra.A.V	Algebraic Graph Theory	FT
4	Rubell Marion Lincy	Dr. Jessy John	Stochastic Modelling	FT
5	VijithaMukundan	Dr.AshishAwasthi	Computational methods for nonlinear partial differential equations	FT
6	Siju.K.C	Dr. Mahesh Kumar	Reliability estimation and Analysis	FT
7	Lakshmi C	Dr. AshishAwasthi	Splines based numerical methods for nonlinear partial differential equations	FT
8	Dhanyamol M.V	Dr. Sunil Mathew	Convexity in weighted graphs	FT
9	Shijina V	Dr.Sunil Jacob John	Multiple sets	FT
10	GayathriVarma	Dr.Sunil Jacob John	Rough sets	FT

11	Anjali N	Dr. Sunil Mathew	Connectivity in Weighted Graphs	FT
12	Lisna P.C	Dr. M.S.Sunitha.	On b- coloring of Graphs	FT
13	Ramyamol PC	Dr. Mahesh Kumar	Acceptance Sampling Plans for Reliability	FT
14	Eda Suresh Reddy	Dr. Satyananda Panda	Shape Optimization	FT
15	ManimaranJ	Dr. Jessy John	Stochastic modeling – Time series modeling	FT
16	Aswin V.S	Dr. AshishAwasthi	Numerical Analysis and Numerical methods of differential equations	FT
17	Aswathy R.K	Dr. Sunil Mathew	Fractal and Chaos	FT
18	Kiran Kumar Patra	Dr. Satyananda Panda	Thin Fluid Film Dynamics	FT
19	SameehaRehmani	Dr. M.S. Sunitha	Fuzzy graphs	FT
20	Ratheesh K.P	Dr. Sunil Jacob John	Soft Sets	FT
21	Deepa V	Dr. Sunil Jacob John	Soft sets	FT
22	Athul P	Dr. Chithra.A.V	Operator Theory	FT
23	Mohammed Hussain K K	Dr. Chithra.A.V	Matrix Analysis	FT
24	Bibin Mathew	Dr.Sunil Jacob John	Graph theory	FT
25	Praveen M	Dr. Sunil Mathew	Chaos and Fractals	FT
26	V DhanyaVarma	Dr. Suresh Kumar Nadupri	Numerical Methods of PDE	FT
27	Dibu.A.S	Dr.M.J Jacob	Stochastic Processes	FT
28	ShravaniRao	Dr.Krishnan Paramasivam	Graph Theory	FT
29	Prajeesh.A.V	Dr.Krishnan Paramasivam	Graph Theory	FT
30	Binu M	Dr. Sunil Mathew	Connectivity in Fuzzy Graphs	FT
31	Serin Elizabeth Joy	Dr. Sunil Mathew	Fractal Theory	FT
32	Shinoj T K	Dr.Sunil Jacob John	Multi sets	PT
33	Boby P Mathew	Dr.Sunil Jacob John	Rough sets	PT
34	Shinto K G	Dr.Sushama C M	Integer DEA Models	PT
35	Shija.G	Dr.M.J.Jacob	Stochastic Processes	PT
36	Chitralekha K	Dr.Jessy John C	Time Series Modelling and Forecasting	PT
37	ShanasBabu P	Dr. Chithra A V	Graph Theory	PT
38	Jinesh P Joseph	Dr. AshishAwasthi	Numerical Techniques for singular perturbation Problems	PT
39	Shinoy George	Dr. Sushama C M	Common Weights in DEA	PT
40	RinjuBalu K.K.	Dr. Sunil Mathew	Fractal Theory	PT
41	Jincy.N	Dr. Sunil Mathew	Graph Theory	PT
42	Anoop N Nair	Dr.M.J.Jacob	Queuing Theory	PT
43	Dhanya V Mukundan	DrSatyananda Panda	Fiber Dynamics	PT
44	Jaya Paul	Dr. Sunil Jacob John	Fuzzy sets	PT
45	Mubeen M	Dr. V. Narayanan (MAT) & Dr. G. Abhilash (ECD)	Wavelets Analysis	PT
46	Dharshanlal M Nair	Dr. Sunil Mathew	Weighted Graph Theory	PT
47	Jahfar.K.T	Dr. Chithra .AV	Spectral Graph Theory	PT
48	Manjusha O.T	Dr. M.S. Sunitha	Domination in Fuzzy graphs	PT
49	Suma P	Dr. Sunil Jacob John	Multisets	PT
50	Priyadarsan K P	Dr. Satyananda Panda	CFD	PT
51	Deepak P	Dr. Satyananda Panda	Structural Dynamics, Modeling and Simulation	PT
52	Dhaneesh P	Dr. M.S. Sunitha	Coloring in graphs and fuzzy graphs-	PT
53	Shahida.A.T	Dr. M.S.Sunitha.	Topological Graph Theory	PT
54	K.M. Abdushukoor	Dr. C.M.Sushama	Mathematical Programming.	PT

DEPARTMENT OF CHEMISTRY

a. Ph. Ds completed under Existing Scheme:

Sl. No	Name	Guide	Area of specialisation	Scheme (QIP/PT/FT)
1	Dr. Soudha	Dr. Lisa Sreejith	Soft Materials	FT
2	Linet Rose	Dr. Lisa sreejith	Surface Chemistry	FT
3	Rojisha V.C.	Dr. Parameswaran P	Computational Chemistry	FT
4	Rahul Soman	Dr. C Arunkumar	Bio-inorganic Chemistry	FT
5	Riyasudheen N	Dr. Sujith A	Biomaterials	FT
6	Rafeeque P	Dr. G. Unnikrishnan	Polymer Science & Technology	PT
7	Jasila K	Dr. Lisa Sreejith	Surface Chemistry	FT

b. On-going Ph. Ds under the Existing Scheme

Sl. No.	Name	Guide	Area of Specialization	Scheme (QIP/PT/FT)
1	Suraj Varma	Dr. G. Unnikrishnan	Polymer Science & Technology	FT
2	Sangeetha C	Dr. G. Unnikrishnan	Polymer Science & Technology	PT
3	Abineesh Babu	Dr. Lakshmi C	Bio-organic chemistry	FT
4	Sruthi C	Dr. Suni Vasudevan	Bioinorganic Chemistry	PT
5	Sheeja	Dr. Sujith A	Polymer science & Technology	FT
6	Fasalu Rahman	Dr. Arunkumar C	Bio-inorganic Chemistry	FT
7	Reshmi C.R.	Dr. A. Sujith	Polymer Science & Technology	FT
8	Nijesh K	Dr. Parameswaran P	Computational Chemistry	PT
9	Manju Chembath	Dr. Lakshmi C	Bio-organic chemistry	External Submitted thesis
10	Anusha C	Dr. Parameswaran P	Computational Chemistry	FT
11	Nimisha K	Dr. G. Unnikrishnan	Polymer Science & Technology	FT Submitted thesis
12	Indu P	Dr. Parameswaran P	Computational Chemistry	FT
13	Divya T.T.	Dr. Lakshmi C	Bio-organic chemistry	FT
14	Premjith U.P.	Dr. Suni Vasudevan	Bioinorganic Chemistry	PT
15	Bindu M.	Dr. G. Unnikrishnan	Polymer Science & Technology	FT
16	Amritha B.	Dr. Suni Vasudevan	Bioinorganic Chemistry	FT
17	Ramesh J.	Dr. Arunkumar C	Bio-inorganic Chemistry	FT
18	Shyvindraj U.P.	Dr. Lakshmi C	Bio-organic chemistry	PT
19	Janisha Jayadevan	Dr. G. Unnikrishnan	Polymer Science & Technology	FT
20	Yoganandan G	Dr. Lakshmi C	Bio-organic chemistry	External Submitted thesis
21	Tesi Thomas	Dr. Sujith A	Polymer science & Technology	PT
22	Nishad K.V.	Dr. G. Unnikrishnan	Polymer Science & Technology	PT
23	Amitha G.S	Dr. Suni Vasudevan	Bioinorganic Chemistry	FT
24	Dijo Prassannan.	Dr. Arunkumar C	Bio-inorganic Chemistry	FT
25	Shebi.A	Dr. Lisa Sreejith	Soft materials	FT
26	Sabarish.R	Dr. G. Unnikrishnan	Polymer Science & Technology	FT
27	Renu Jose	Dr. G. Unnikrishnan	Polymer Science & Technology	FT
28	Manoj.M	Dr. Sujith A	Polymer science & Technology	PT
29	Roy.K.J	Dr. Sujith A	Polymer science & Technology	FT
30	Jithinraj.T.K	Dr. Lakshmi C	Bio-organic chemistry	FT
31	Vintu M.	Dr. G. Unnikrishnan	Polymer Science & Technology	FT
32	Reja Henna M.	Dr. Lisa Sreejith	Surface Chemistry	FT
33	Manaf O.	Dr. Sujith A	Polymer Science & Technology	FT
34	Anitha S.	Dr. G. Unnikrishnan	Polymer Science & Technology	PT
35	Sunitha K.	Dr. G. Unnikrishnan	Polymer Science & Technology	PT
36	Ms. Suja P. Sundaran	Dr. Sujith A	Polymer Science & Technology	FT
37	Mrs. Muhasina P. V.	Dr. Parameswaran P	Computational Chemistry	FT
38	Ms. Anjana George	Dr. Parameswaran P	Computational Chemistry	PT

39	Mr. Satheesh Kumar B.	Dr. G. Unnikrishnan	Polymer Science & Technology	PT
40	Mrs. Hannathamleena A.	Dr. Parameswaran P	Computational Chemistry	Internal
41	Mr. Saeed P. A.	Dr. Sujith A	Polymer Science & Technology	FT
42	Mr. Subburaj K.	Dr. C Arunkumar	Bio-inorganic Chemistry	Internal
43	Mr. Muhammed Adnan P. K.	Dr. Lisa Sreejith	Surface Chemistry	FT
44	Ms. Swetha C.	Dr. Lisa Sreejith	Surface Chemistry	FT
45	Ms. Rarima R.	Dr. G. Unnikrishnan	Polymer Science & Technology	FT
46	Ms. Sagitha P.	Dr. A. Sujith	Polymer Science & Technology	FT
47	Ms. Lashmi	Dr. G. Unnikrishnan	Polymer Science & Technology	External
48	Ms. Monisha M	Dr. C. Arunkumar	Bio-inorganic Chemistry	FT
49	Mr. Shafeeq H.	Dr. G. Unnikrishnan	Polymer Science & Technology	FT

DEPARTMENT OF PHYSICS

a. Ph.D. completed under existing scheme:

Sl. No.	Name	Guide	Area of specialization	Scheme (QIP/ FT/PT)
1.	Mr. Smijesh N	Dr. Chandrasekharan. K	Nonlinear optics	FT
2.	Mr. Siji Narendran N K	Dr. Chandrasekharan. K	Nonlinear optics	FT

b. Ongoing Ph.D. under existing scheme:

Sl. No	Name	Guide	Area of specialization	Scheme
1.	Jayan Manuel	Dr. P. Predeep	Organic Electronics	FT
2.	Murali Krishnan M	Dr. P. Predeep	Spintronic	External
3.	Kulkarni Prabhanjan Dilip	Dr. P. Predeep	Spintronic	External
4.	Praveen T	Dr. P. Predeep	Organic Electronics	FT
5	Shiju K	Dr. P. Predeep	Organic Electronics	FT
6.	Rosemary Davis	Dr. P. Predeep	Organic Electronics	FT
7.	Siji Narendran	Dr. Chandrasekharan .K	Nonlinear optics	FT
8.	Divyasree M. C	Dr. Chandrasekharan .K	Nonlinear optics	FT
9.	Vijisha M V	Dr. Chandrasekharan .K	Photonic Crystals	FT
10.	Shiju E	Dr. Chandrasekharan .K	Nonlinear optics	FT
11	Vasudevan K	Dr. Chandrasekharan .K	Photonic Crystal	FT
12.	Ayishabi .P.K	Dr. Raghu Chatanathodi	Electronic Structure, Surface Phenomena	PT
13.	Lakshmikanth .G	Dr. Raghu Chatanathodi	Electronic Structure, Surface Phenomena	FT
14.	Daughty John	Dr. Raghu Chatanathodi	Electronic Structure of Graphene and other Nano-structures	PT
15.	Satheesh Chandran. P. M	Dr. M. K. Ravi Varma	Applied Optics	FT
16.	Issac S. I.	Dr. M. K. Ravi Varma	Applied Optics	PT
17.	Suhail Kuttoth	Dr. M. K. Ravi Varma	Spectroscopy	FT
18.	Arun R	Dr. M. K. Ravi Varma	Spectroscopy	FT
19.	Yoosuf Ameen	Dr. Vari Sivaji Reddy	Organic Solar cells	FT
20	Mr. Shamjid P	Dr. Vari Sivaji Reddy	Organic Solar cells	FT
21	Mr. Abhijith	Dr. Vari Sivaji Reddy	Organic Solar cells	FT
22	Mr. Naseer A. P.	Dr. P. K. MadhavanUnni	Phase Transition, Critical Point Phenomena	FT
23	Ms. Santhikrishna U	Dr. P.K MadhavanUnni	Phase Transition, Critical Point Phenomena	FT
24	Julin Joseph	Dr. Aji A Anappara	Optical properties of Carbon Quantum Dots (Material Science)	FT

25	Nishaina Sahadev	Dr. Aji A Anappara	Photothermal studies of Graphene & Graphene NanoComposites (Material Science)	FT
26	Saju K John	Dr. Aji A Anappara	Optical Properties of Two-dimensional crystals (Material Science)	FT
27	Simimol. A	Dr. Aji A. Anappara (Internal guide)	Optical and Electrical properties of ZnO Nanowires (Material Science)	External
28	Prajith K.	Dr. Aji A. Anappara (Internal guide)	Synthesis and characterization of Si Nanowires for SERS applications	External
29	Sreevalsa K.	Dr. Aji A Anappara	Photo-to-thermal conversion studies of Inorganic Solids	FT

DEPARTMENT OF PHYSICAL EDUCATION

a. On-going Ph. Ds under the Existing Scheme

Sl. No.	Name	Guide	Area of Specialization	Scheme (QIP/PT/FT)
1	Baby Salini	Dr. A.M. Najeeb	Physical education sciences	PT(under Karpagam University)

SCHOOL OF MANAGEMENT STUDIES

a. On-going Ph. Ds under the Existing Scheme

Sl. No.	Name	Guide	Area of Specialization	Scheme (QIP/PT/FT)
1	Shobitha Poullose	Dr.N Sudarsan	Human Resources Management	FT
2	Salwa C H	Dr. N. Sudarsan	Marketing	FT
3	Abdul Latheef Kiliyanni	Dr. Sunitha S	Strategic Financial Management	FT
4	Lisbeth Mary John	Dr.K Muhammad Shafi	Human Resources Management	FT
5	Shanujas V	Dr.N. Sudarsan	Gen. Management	FT
6	Biju Mathew	Dr. Sunitha S	Economics	PT
7	Smitha Syed Ali	Dr.N Sudarsan	Human Resources Management	PT
8	Sreekumar P Pillai	Dr. T Radha Ramanan Dr. Madhu Kumar S D	System	PT
9	Binesh Jose	Dr. T Radha Ramanan and Dr. Madhu Kumar S D	Strategic Management	PT
10	Pratap Kumar S	Dr.K Muhammad Shafi	Gen. Management	PT
11	Preethi M	Dr. T Radha Ramanan	Technology Transfer	PT

SCHOOL OF BIOTECHNOLOGY

a. Ph. Ds completed under Existing Scheme:

Sl. No	Name	Guide	Area of specialisation	Scheme (QIP/PT/FT)
1	Ms .Geethu Chellappan	Dr. Aswati R Nair	Plant Biotechnology	FT
2	Mr. Pradeep H	Dr. Rajanikant. G.K	Neuroscience	FT
3	Mr. Arun Anirudhan	Dr. Rajanikant. G.K	Bioinformatics	FT

b. On-going Ph. Ds under the Existing Scheme:

Sl. No	Name	Guide	Area of specialization	Scheme (QIP/PT/ FT)
1	Mr. Praveen Kumar Reddy	Dr. Md. Anaul Kabir	Molecular Biology	FT
2	Ms. Aswathy.N	Dr. Md. Anaul Kabir	Protein folding	FT
3	Mr. WasimUddin	Dr. Md. Anaul Kabir	Drug Resistance	FT
4	Mr. Dileep. P	Dr. Md. Anaul Kabir	Gene Regulation	FT
5	Mr. Darshan Rajesh Dhabalia	Dr. Md. Anaul Kabir	Gene Regulation & Drug Resistance	FT
6	Mr. Udaya Prakash	Dr. Md. Anaul Kabir	Molecular Biology & Genetic Engineering	FT
7	Ms. Vidhuna Sadanandan	Dr. Santhiagu. A	Enzyme technology	FT
8	Mr. Yuvaraj. K.R	Dr. Santhiagu. A	Herbal Biotechnology	FT
9	Ms. Divya. A	Dr. Santhiagu. A	Bioprocess technology	FT
10	Mr. Saravana Perumal	Dr. Santhiagu. A	Bioprocess technology	FT
11	Ms. Joji. K	Dr. Santhiagu. A	Bioprocess technology	FT
12	Ms. NishaSalim	Dr. Santhiagu. A	Bioprocess technology	FT
13	Mr. Adarsh. V.K	Dr. Santhiagu. A	Bioinformatics& Drug Discovery	FT
14	Ms. Manjusha C M	Dr. Santhiagu. A	Molecular Biology & Bioprocess Technology	FT
15	Ms. Bincy. B.c	Dr. Santhiagu. A	Drug Discovery & Synthesis	FT
16	Mr. Pradeep H	Dr. Rajanikant. G.K	Neuroscience	FT
17	Mr. S. Md. Fayaz	Dr. Rajanikant. G.K	Bioinformatics	FT
18	Mr. SinoySugunan	Dr. Rajanikant. G.K	Bioinformatics	FT
19	Mr. Arun Anirudhan	Dr. Rajanikant. G.K	Bioinformatics	FT
20	Mr. Suvanish Kumar	Dr. Rajanikant. G.K	Bioinformatics	FT
21	Ms. SreekalaNampoothiri	Dr. Rajanikant. G.K	Bioinformatics	FT
22	Mr. Charles K Davis	Dr. Rajanikant. G.K	Bioinformatics	FT
23	Ms. Jyotirekha Das	Dr. Rajanikant. G.K	Neuroscience	FT
24	Mr. Lakshmi Mohan	Dr. Rathinasamy	Cancer biology	FT
25	Mr. Arul Kirubakaran	Dr. Rathinasamy	Cancer biology	FT
26	Mr. Darpan Raghav	Dr. Rathinasamy	Cancer biology	FT
27	Mr. Sushobhan mahanty	Dr. Rathinasamy	Cancer biology	FT
28	Ms. Shabeeba Ashraf	Dr. Rathinasamy	Cancer biology	FT
29	Ms .GeethuChellappan	Dr. Aswati Nair	Plant Biotechnology	FT
30	Ms .KeerthiDivakaran	Dr. Aswati Nair	Plant Biotechnology	FT
31	Mr. Ganapathy.G	Dr. Aswati Nair	Plant Biotechnology	FT
32	Ms.Princy. C.P	Dr. Aswati Nair	Plant Biotechnology	FT
33	Ms. Sharmila Raj. T	Dr. Aswati Nair	Plant Biotechnology	FT
34	Ms.Saumya Mary Mathew	Dr. Suchithra T.V	Enzymology	FT
35	Ms. Anna SajuKynadi	Dr. Suchithra T.V	Bioplastics	FT
36	Ms. Sareena.C	Dr. Suchithra T.V	Multidrug resistance	FT
37	Mr. Ilshad Sabah	Dr. Suchithra T.V	Microbiology & Bioprospecting	FT
38	Ms. Aswani T	Dr. Suchithra T.V	Microbiology & Bioprospecting	FT

SCHOOL OF NANO SCIENCE & TECHNOLOGY

a. PhD's completed under existing scheme:

Sl. No.	Name	Guide	Area of Specialization	Scheme (QIP/PT/ FT)
1	Uvais V. N.	Dr.Soney Varghese	Ferroelectric nonvolatile memory devices	FT
2	Abdul Rasheed	Dr.N. Sandhyarani	Early Stage Diagnosis of Cancer	FT
3	Joe Francis T.	Dr.Sarith P. Sathian & Dr.V.Sajith	Fluid Transport through Nanoscale Systems	PT
4	Reny Thankam Thomas	Dr.N. Sandhyarani	Nanomaterials for environmental remediation	FT
5	Raji K.	Dr.C. B. Sobhan	Carbon Nano Tubes	FT

b. Ongoing PhD's under existing scheme:

Sl. No.	Name	Guide	Area of Specialization	Scheme (QIP//Full time)
1	Ajin C. Sajeevan	Dr.V. Sajith	Synthesis of Catalytic Nano particles and its application as Fuel additives	FT
2	S. Balamurugan	Dr.V. Sajith	Investigation on the Effect of Catalytic Nano particles in fuels on Combustion using Optical measurement Techniques	FT
3	Anjan R. Nair	Dr.Sarith P Sathian and Dr.V. Sajith	DSMC Study of solid rocket motor exhaust plume	FT
4	Loksani Bhanu Prakash	Dr.Soney Varghese	Multiscale nanocomposite for structural applications	FT
6	Subash C K	Dr.Soney Varghese	Piezoelectric polymer nanocomposite for Pressure sensors and Energy harvesting	FT
7	Robin Joyce	Dr.Soney Varghese	Role of Anodic Bonding in Packaging of MEMS Devices; RF Switches and Pressure Sensors	FT
8	Rahul T K	Dr.N. Sandhyarani	Photonic crystals	FT
9	Vibin Antony	Dr.V. Sajith	Convective heat transfer studies in Corona discharge systems	FT
10	Nair Thulasi Radhakrishnan	Dr.N. Sandhyarani	Development of Nano electrocatalysts for fuel cell applications	FT
11	Preseetha Paul	Dr.Soney Varghese	Pyroelectric energy harvesting devices	PT
12	Nimmy John	Dr.N. Sandhyarani	Liquid crystal display	FT
13	Jamsheed K	Dr.Soney Varghese	Design and Development of Curcumin Nanoparticles and Nanoconjugates to Enhance Bio-availability	FT
14	Arun Kumar V	Dr.Sarith P Sathian and Dr.V. Sajith	Computational Studies On the Evaporation of Nanodroplets	FT
15	Arjun Ajith Mohan	Dr.N. Sandhyarani	Development of efficient bio fuel cell	FT
16	Jaison Jhon	Dr. V.Sajith	Corona discharge particulate filter	FT
17	Manu Mohan	Dr.C. B. Sobhan	Optical measurements in flow and heat transfer	FT

18	Anish R Nath	Dr.N. Sandhyarani	Nanomaterial based energy storage devices	FT
19	Vinay T V	Dr.Soney Varghese	Nanofluidics	FT
20	Preseetha K P	Dr.Soney Varghese	Nonlinear optics	FT
21	Biyas Posha	Dr.N. Sandhyarani	Development of sensitive biosensors using nanomaterials	FT
22	Varun R	Dr.N. Sandhyarani	Targetted drug delivery of cisplatin	External
23	Panchal Bhargav	Dr.Soney Varghese	MEMS	FT

5.2 DETAILS OF Ph.D DONE DEPARTMENT WISE

Sl. No	Department	No.of Ph.D Completed	Scheme		
			QIP	FT	PT
1	Architecture	1	-	-	1
2	Civil Engineering	4	1	2	1
3	Computer Science & Engineering	2	-	-	2
4	Electrical Engineering	10	3	6	1
5	Electronics and Communication Engineering	3	-	2	1
6	Mechanical Engineering	10	2	3	5
7	Mathematics	5	-	1	4
8	Chemistry	7	-	6	1
9	Physics	2	-	2	-
10	School of Nano Science & Technology	5	-	4	1
11	School of Biotechnology	3	-	3	0
12	Chemical Engineering	5	-	4	1

5.3 PROPOSED PLAN FOR RESEARCH

DEPARTMENT OF ARCHITECTURE

- Department is developing a virtual design studio for furthering interaction in Architectural Design studio work with other universities.
- Department is also developing Architectural Photography and Documentation lab.
- It is proposed to further develop the building science lab in the areas of acoustics, illumination, thermal studies and wind flow studies.

DEPARTMENT OF CIVIL ENGINEERING

- The Department proposes to enhance the research activities by attracting more number of sponsored research programmes from industries, apart from taking up routine research programmes funded by funding agencies like CSIR, DST, AR & DB, MHRD etc. The Department also wishes to encourage more and more Scientists / Engineers from R & D institutions to avail the External Registration Scheme to enroll for Ph.D programmes. The Department also wishes to undertake collaborative research work leading to the award of Ph.Ds.
- The Department carries out / propose to carry out research on the following areas/topics:
 - Studies on Development of Ferro cement as a substitute for timber and steel
 - Strength and behavior of Reinforced Geopolymer Concrete frames under reverse loading
 - Strength and behavior of reinforced concrete multi storeyed frames with different infills
 - Studies on Ferro Geopolymer Concrete Structural Sections under Flexure
 - Investigation on the development of a sustainable cement concrete composite
 - Strength and Behaviour of Hybrid Fibre Reinforced Geopolymer Concrete Structural Elements
 - Investigation on Strength and Behaviour of Multi storied building with ferro cement and fibre concrete as in-fills
 - Studies on Bamboo Reinforced concrete structural elements
 - Studies on Hybrid Fibre Reinforced HPC Beam- Column-Slab Joints under Reverse Cyclic Loading
 - Structural Control using mass dampers and Performance based design of Structures
 - Predicting the impact of changes in climate and land use on water resources in the river basins in Kerala
 - Environmental Forensics and Environmental Risks

DEPARTMENT OF CHEMICAL ENGINEERING

- To develop an efficient reverse osmosis membrane for various applications in water purification
- To develop a catalyst for the thermal pyrolysis of the plastic and biological system
- To develop an innovative system to meet the demands of future in wastewater treatment using chemical and biological systems
- To develop an eco friendly water based adhesive
- To develop mathematical and experimental techniques in monitoring of pollutants, treatment of effluents and recovering energy and resource from effluent.
- To develop advance control schemes for reactive distillation columns and fluid catalytic cracking unit
- To develop a novel photo catalyst for application in dye effluent treatment
- To develop of bioelectrodes for wastewater treatment by electrochemical method.
- To develop a Novel Membrane Bioreactor for Wastewater Treatment

DEPARTMENT OF ELECTRICAL ENGINEERING

Department has identified six major areas for research and development and planned to enhance the research activities. There are 76 research scholars working presently in the Department under the guidance of faculty members. Department has also undertaken sponsored research activities for strengthening the areas of expertise. There are five major sponsored research projects ongoing with faculty members in the Department.

Dept. faculty are proposing to submit research proposals to various funding agencies in the following area:

- High Voltage Engineering.
- Power Quality Research.
- Adaptive Control System
- Distribution Generation
- Robotic Facility and Automation.
- MicroGrid & Smart Grid Control
- Power Electronics
- Biomedical Engineering

DEPARTMENT OF CHEMISTRY

The main areas of research in the Department of Chemistry are as follows

One of the areas that the bio-organic chemistry laboratory focuses on is the development of low molecular weight stimuli responsive sensors for cations, anions and biologically important molecules. Development of fluorogenic peptides to explore peptide aggregation and conformational transitions is a rather under explored area and effort will be made to study the detailed mechanism that underlies these phenomena. Design and synthesis of smart materials, the properties of which can be controlled externally, will be attempted in the coming year.

Polymer research group mainly focuses on the development and characterization of multi – phase polymer systems. This includes blends and short natural fiber reinforced polymer composites. The group is also interested in polymer – based nano composites. The development and characterization of polymer membranes for the separation of liquid mixtures, including azeotropes, forms the major research interest in the next two years. Soft Materials research group will concentrate on the study of the possible structural transitions in micellar media, which can have applications in various fields of interest. To materialize a molecular DLVO incorporating surfactants with zeolites, polymers, latex, their characterization, a biocompatible packing material from natural resources and a temperature tunable optical sensor/filter are the plans for the coming year. The group also focuses on developing energy conversion technology from waste materials. Developing an ecofriendly solution for the safe use of plastic products of daily purpose is another area that is actively pursued.

Bio-Inorganic Chemistry team focuses on developing transition metal based coordination complexes for binding interaction studies with mammalian DNA. This will give more insight into the mechanism and modes of binding, which will in turn facilitate development of new generation drugs with site specific activities. The research of computational chemistry group mainly focuses on the applications of theoretical and computational methods to solve problems in organic, organometallic and main group chemistry as well as nano-materials. The most key aspect of the studies are structure, bonding, reactivity, reaction mechanism in molecular level and the growth of nanomaterial, their properties and reactivities in the nanoscale.

DEPARTMENT OF PHYSICS

Prof. P.Predeep's Molecular Electronics and Photonics (LAMP) group has been engaged in the development and use of novel combinations of organic and molecular materials in electronic and optoelectronics devices, especially Organic Solar Cells (OSC), OLED, OFET, Organic memory (OM), and Schottky diodes. The fast emerging polymer electronics invariably adds to the already complicated environmental vows of plastic waste disposal and considering this the group has earmarked the development of green organic semiconductors as one of their prime research objectives. This group had succeeded in developing simple techniques to synthesis organic semiconductors from a host of natural materials polyisoprene (Natural Rubber), Plumeria, Jackfruit etc. enzymes and successfully demonstrated their applications in organic devices. LAMP members have two patents and 6 other filed in this area besides considerable number of publications. During the last six years the group had implemented five major and a number of minor externally funded research projects. Development of Elastomer – fullerene derivatives as a cost effective alternative to prohibitively costly organic electron acceptors currently available in the market is the current priority of the group. Future plans include development of high efficiency Lead-Free Organic-Inorganic Perovskite Solar Cells.

Dr. Chandrasekharan's Non-linear Optics Laboratory is involved in developing photonic crystal with defect for nonlinear optical application study. The influence of photonic band gap structure can be exploited to enhance the nonlinear optical properties of materials. One well known property of defect in photonics crystal is the localization of electromagnetic energy near the defect. The localization of energy association with defect enhances the third order process in one dimensional Photonic crystal. The present aim is to fabricate a one dimensional photonic crystal with a defect layer of NLO materials and explore the possibility of applying it in optical signal processing. Currently two R& D projects (DST Government of India and KSCSTE Government of Kerala) are running in line with the proposed plan

Computational Materials Science Laboratory under Dr. Raghu Chatanathodi is involved in Electronic Structure calculations and computational and theoretical modeling of molecules and solids, study of adsorption and other interesting surface phenomena, design of photo active molecular materials for energy storage, study of low dimensional systems. The lab has a 24-core cluster for performing electronic structure modeling of solid state systems

Dr. M K Ravi Varma works in the field of Spectroscopy, Development of Instrumentation for Atmospheric, and Environmental monitoring using principles of Optics, Radiative transfer and aerosol forcing on Climate (Global and Regional). Currently Dr. M K Ravi Varma has two ongoing sponsored research projects funded by the Department of Science and Technology (DST), Government of India and Kerala State Council for Science, Technology and Environment (KSCSTE).

Dr. P.K MadhavanUnni is working on Realisation of Quarduple Critical Point (QCP) in the quaternary system Methyl Ethyl Ketone + sec-Butyl Alcohol and Water, Light Scattering studies close to the QCP and Developing static light scattering setup for light scattering study close to a liquid-liquid critical point.

Dr. Aji A Anppara works on Optics of carbon quantum dots: The research interests of the group are in the tailoring the optical properties of nanosystems for several opto-electronic applications. The research areas include the synthesis and development of carbon based nanoparticles for chemical sensing, white-light emission applications; as well as the development of organic/inorganic nanomaterials for photo-to-thermal conversion of cold-light (electromagnetic radiation in the UV-vis range). Two sponsored research projects (one from DST-NanoMission and another from DST-Fast Track scheme), are being carried out by the group.

Dr. Vari Sivaji Reddy is an experimental condensed matter physicist working on development of novel organic semiconductor devices such as solar cells, light emitting diodes and memory devices; and the development of new techniques to improve device performance. With the help of funding projects, a laboratory for research in the field of organic electronics and photovoltaics has been set up in the Department. Dr. Reddy is also investigating the plasmonic effects of metal nanostructures on the performance of polymer bulk heterojunction solar cells as a part of this fellowship at Northwestern University, USA.

DEPARTMENT OF ELECTRONICS ENGINEERING

Department of Electronics plans to continue its research activities by admitting more Ph.D scholars and bringing more R&D projects in the areas of Digital Signal Processing, Speech and Audio Processing, Digital Filter Banks, Image and Video Processing, Signal Theory, Multirate Signal Processing, Compressive Sensing, Communications, Communication Networks, Wireless Communications, Wireless Networks, Secure Communications, Computer Communication Networks, OFDM and MIMO systems, VLSI and Micro – Electronics, Multimedia Encryption, Cryptography, Micro Electro Mechanical Systems (MEMS/NEMS), Nano Electronics, Semi-Conductor Devices / Technology and allied areas. Department also plans to focus research work leading to chip development as part of the SMDP-III project.

DEPARTMENT OF MECHANICAL ENGINEERING

Design Innovation Center (DIC) is established by a MoU signed between NIT Calicut and IISc, Bangalore. Dr. P.K. Rajendrakumar, Professor, MED and Dr. U.B. Jayadeep, Assistant Professor, MED have been nominated as the Coordinators of the Centre. The objective of this center is to promote a culture of innovation and creative problem solving, to promote knowledge sharing and to enhance interdisciplinary design- focused education, research and entrepreneurial activities. It is also intended to disseminate product design concepts among all the stakeholders including students, faculty and staff of NIT Calicut, and the society at large, by conducting workshops, courses and exhibitions, and to develop marketable products. As per the above MoU, an amount of Rs. 75 Lakhs has been sanctioned to NIT Calicut to setup the Design Innovation Center and to carry out various activities of the center.

SCHOOL OF BIOTECHNOLOGY

Research is planned in the following areas:

1. Gene Regulation
2. Molecular Genetics
3. Protein Folding
4. Protein Engineering
5. Genetic Engineering
6. Bio modeling and Drug Design
7. Plant Molecular Biology
8. Neurobiology
9. Immuno Technology
10. Enzyme Technology
11. Cell Biology
12. Cancer Research
13. Biofuel Research
14. Bioprospecting

SCHOOL OF NANO SCIENCE AND TECHNOLOGY

Research is planned in the following areas:

Nanotechnology Research Laboratory: Focuses on Nanofluids, Thermal engineering applications, Thermophysical property measurement, Carbon Nanotechnology.

Nanoscience Research Laboratory: Involved in research on Bio-sensors, Targeted drug delivery systems, Environmental problems, Fuels cells.

Fuels and Combustion Laboratory: Dedicated to research on the application of nanotechnology in fuels, lubricants and coolants. A collaborative project on development of PCM based Nano fluids for NTPC is being carried out in the lab. Research is also being done on the development of corona discharge assisted DPF for the control of diesel engine emissions.

Nanomaterials and Devices Research Laboratory: Carries out research in nanopatterning, Non-linear optics applications and Liquid crystal Displays, Graphene/CNT based nano composites

5.4 INSTITUTE – INDUSTRY COLLABORATION

DEPARTMENT OF CIVIL ENGINEERING

Sl. No.	Organisation
1	Airport Authority of India, Calicut Airport.
2	CPWD, Calicut
3	Wayanad District Panchayat
4	Tirur Municipality, Malappuram
5	Southern Railway
6	LIC of India

7	L & T, ECC division
8	Steel Complex Ltd. P.B No. 42, Feroke, 673631, Calicut
9	Kerala State Electricity Board
10	Kerala Water Authority
11	Malabar Institute of Medical Science Ltd. Calicut-16
12	The Assistant Engineer, N H Bypass Junction Nellikode, Civil Station, Kozhikode
13	The Secretary, Uralungal Labour Contract Co-Operative Society Ltd. Vatakara.
14	IVRCL Infrastructures & Projects Ltd, Indraneelam, Madathil Lane, Chevayoor (P.O), Kozhikode-17
15	Minor irrigation division, Kasargode
16	M/S Aban Constructions (P) Ltd. KWA - JBIC Drinking Water Project, Perumannamuzhi(Post), Kozhikode-673528
17	Mangalore port trust
18	The Assistant Executive Engineer, Office of the Assistant Executive Engineer, KRP Subdivision No.II, Vazhavatta.
19	Kalamassery Municipality, Cochin
20	Mahe Municipality
21	National High way authority of India Kalamassery, Eanakulam - 683 104
22	Prasar Bharathi Broad Casting Corporation of India, O/o the Additional Director General(E), Chennai
23	Aluva Muncipality, Aluva – 683101
24	Kochi Metro Rail Project, Eastern Entry Tower, Eranakulam Southern Railway Station Kochi - 686 016
25	The Muncipal Secretary, Cherthala
26	The Regional Engineer, Kerala State Nirmidhi Kendra, Regional Nirmidhi Kendra, Kozhikode
27	The Asst. Executive Engineer, Fishery Harbour Project, Sub-Sub Division, Harbour Engineering Dept., Koyilandy
28	M/S KITKO, Cochin
29	Palakkad District Panchayat
30	Kottakkal Municipality, Malappuram Dist.
31	Centre for Water Resources Development and Management, Calicut
32	Kozhikode District Panchayat, Calicut
33	Food corporation of India, Regional office, Thiruvananthapuram
34	CSIR-Central Road Research Institute, New Delhi
35	Road safety council, Kozhikode district
36	Regional Town & Country Planning Office, Kozhikode
37	Town Planner, Regional town&country Planning office, Kozhikode
38	Kannur International Airport Ltd., Registered Office, Parvathy T.C 36/1, Chacka, NH Bypass, Thiruvananthapuram 695 624
39	Mr. Abdul Sathar, Managing Director, Technospan Structures Pvt. Ltd., No.5, Second Floor, A V Bureux, Green Layout, Bangalore.
40	Hindustan Profab Ltd, Thycaud, Trivandrum
41	Office of the Divisional Forest Officer, Timber sales Division, Vanasree Complex, Mathottam, Arakinar 673 028
42	Office of the executive Engineer, Harbour Engineering Division, Kozhikode, Puthiyappa.
43	Many other Govt., Semi Govt. and Private Organisations

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Sl. No.	Name	Firm & Description of the work
1	Academic Collaboration with Tata Consultancy services (TCS) as part of Academic Interface Programme (AIP)	<ul style="list-style-type: none">• Partial delivery of the Software Engineering course• Student internships• Best Outgoing Student Award• Best Student Project Award• Faculty Development Programmes• Workshops for students (4 per year)
2	SAP Labs, Bangalore (2013) CSED, NITC is part of SAP University Alliance Programme.	<ul style="list-style-type: none">• Invited Lectures• Research collaboration (in the area of Software Testing)• Student Internships
3	Part of IBM University Relations	<ul style="list-style-type: none">• Workshops for students• Student internships• Sponsoring Technical events (Tathva)

DEPARTMENT OF CHEMISTRY

Sl. No.	Name	Firm & Description of the work
1	G. Unnikrishnan	<ol style="list-style-type: none">1. Choice Rubbers, Koodaranji, Calicut.2. Hevea Rubbers, Calicut.Consultancy for Rubbers. Adhesives etc.

DEPARTMENT OF ELECTRICAL ENGINEERING

Department signed MOU for various activities with KSEB Ltd, M/s VI microsystem Pvt Ltd Chennai and M/s Entuple Technologies Pvt Ltd, Bangalore

Major activities:

- Faculty undertake consultancy and testing projects from KSEB Ltd (Investigation on technical issues associated with Chimmony SHEP 2.5 MW, Testing of HT fuse, AB switch, Insulators, Cables etc.), Technical assistance to M/s VI Micro systems in developing educational micro-smart grid test systems.
- Students of M. Tech. Industrial Power and Automation are mandatorily required to undergo industrial Training for period of two months after their second semester.
- M Tech (Industrial Power & Automation) project of Mr. Ashin Das under paid Internship Scheme from M/s ABB Ltd, Bangalore, M Tech (Industrial Power & Automation) projects of Dilshad M R and V Meher Anusha under paid Internship Scheme from M/s Robert Bosch Engineering and Business Solutions Pvt Ltd, Coimbatore.
- Mr. Peter K Abraham M Tech (Industrial Power & Automation) student under the guidance of Dr Ashok S developed "Vector Controlled PMSM with Ultracapacitor based regenerative braking system" with the help from M/s Entuple Technologies Pvt Ltd, Bangalore.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING.

Sl. No.	Title of the Project	Firm & Description of work
1	University Alliance	Texas Instruments ,Bangalore,India 'Modernisation of Embedded Systems Lab'

DEPARTMENT OF MECHANICAL ENGINEERING

The M.Tech Industrial Engineering students with three three research scholars and faculty members namely Dr. V. M. Pillai and Dr. Vinay V Panickar visited Amphenol Fci, Mulanthuruthy, Ernakulam which was sponsored by TEQIP.

DEPARTMENT OF PHYSICS

A new project proposal on organic solar cells in collaboration with Agilent technologies is proposed

SCHOOL OF NANO TECHNOLOGY

Sl. No.	Name	Firm & Description of the work
1	Dr. Sajith V., Shijo Thomas and Dr. C.B. Sobhan	National Thermal Power Corporation : Development of stable nanofluids for heat exchanger for improved cooling in thermal power plants” Cost: 56.6 Lakhs

5.5. INNOVATIONS AND TECHNOLOGY TRANSFER

DEPARTMENT OF ARCHITECTURE

The B. Arch programme offered is designed to instill a good understanding of Building Climatology, Structures and Construction. It also enables better understanding of the Architecture practice through comprehensive training in realization of projects. The knowledge transfer emphasizes on adequate field exposure through case studies, professional training, studios and thesis work. Guest Lectures, Visiting Faculty interactions and short term courses are chosen to expose the students to career and subject possibilities even while providing the faculty opportunities for development.

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

Extended IT Support to NIRAVU, a Calicut based Residential Forum, to promote Organic Farming(IT@Niravu Project)

- Developed a web- portal on Agricultural Information
- Conducted Workshop for the rural youth on Android Applications Development

DEPARTMENT OF PHYSICS

Dr. P Predeep Developed and demonstrated the potential of natural rubber as a cost effective and innovative semiconductor

6.0 THE COUNCIL, BOG, AND OTHER COMMITTEES

6.1 INSTITUTE'S COUNCIL

The Senate is the institute council to decide upon all academic matters. The Senate of the institute consists of the following members:

- ⊙ The Director, ex-officio, who shall be the Chairman of the Senate
- ⊙ The Professors appointed or recognized as such by the institute for the purpose of imparting instruction in the Institute
- ⊙ Three persons, one of whom shall be a woman, not being employees of the institute, to be nominated by the Chairman.BOG in consultation with the Director from among educationists of repute, one each from the field of science , engineering and humanities
- ⊙ Such other members as laid down in the Statutes

6.2 BOARD OF GOVERNORS

Constitution of Board of Governors

- ⊙ The Chairperson to be nominated by the Visitor.
- ⊙ The Director, ex officio.
- ⊙ Two persons not below the rank of the Joint Secretary to the Government of India to be nominated by the Central Government from amongst persons dealing with technical education and finance.
- ⊙ Two persons to be nominated by the Government of the State in which the Institute is situated from amongst persons, who, in the opinion of that Government, are technologists or industrialists of repute.
- ⊙ Two persons, at least one of whom shall be a woman, having special knowledge or practical experience in respect of education, engineering or science to be nominated by the Council and
- ⊙ One professor and one assistant professor or a lecturer of the Institute to be nominated by the Senate.

6.3 FINANCE COMMITTEE

The Finance Committee consists of the following members:

- ⊙ The Chairperson Board of Governors, ex-officio Chairman
- ⊙ The Director, ex-officio member
- ⊙ Joint Secretary dealing with National Institutes of Technology or his nominee and Financial Advisor (Human Resource Development) or his nominee members
- ⊙ Two persons nominated by the Board from amongst its members and
- ⊙ The Registrar, ex-officio Member Secretary
Provided that in addition to the above, the Chairman may, in consultation with the Director, co-opt a member as and when found necessary.

6.4 BUILDING AND WORKS COMMITTEE

The Building and works committee consists of the following members:

- ⊙ The Director, ex-officio Chairman
- ⊙ One member nominated by the Central Government not below the rank of Director or Deputy Secretary
- ⊙ One member nominated by the Board of Governors
- ⊙ The Registrar, ex-officio, Member Secretary
- ⊙ Dean, Planning & Development or similar position – Member and
- ⊙ One expert each from Civil and Electrical Engineering Wing of Central or State Government or any autonomous body of repute - Member

7.0 CONCESSION FOR SC, ST& HANDICAPPED STUDENTS

7.1 Concessions provided for students:

Educational Concession to SC/ST/OEC/SEBC (under KPCR) students: Students from Kerala are eligible for educational concessions from the SC & ST development Departments as per the norms of Government of Kerala. Students from other states can apply for scholarships as per the rules of the respective states. In addition, National scholarships are also offered to persons with disabilities for pursuing technical and professional courses for recognized institutions by the National Handicapped Finance and Development Corporation (NHFD) Faridabad on behalf of Ministry of Social Justice & Empowerment, Govt. of India subject to fulfill the conditions laid out by them.

A New Central Sector Scholarship Scheme to the first top 12 SC and 5 ST students of Top Class Education given by the Central Government (Ministry of Social Justice and Empowerment & Ministry of Tribal Affairs, respectively) [i.e. Institute Tuition Fee + Boarding charges + Books & Stationary + Cost of a PC- (P-IV Computer, UPS, Printer, Multimedia)] based on their entrance rank. Family income limit is Rs.4.5 lakhs per annum.

Merit cum Means Scholarship for eligible Minority Communities in Kerala and other states given by the Ministry of Minority Affairs, Govt. of India.

District Merit Scholarships to eligible students in Kerala by the Directorate of Collegiate Education, Thiruvananthapuram.

Central Sector Scholarship Scheme for eligible College & University students by the Department of Higher Education, Ministry of Human Resources Development, Govt. of India.

7.2 Concessions provided for staff: Faculty members are given concession in fee for PT

8.0 FINANCIAL STATUS

8.1 ANALYSIS OF PLAN AND NON-PLAN GRANTS

(Grant received)

Particulars	Rs. in lakhs				2015- 2016
	2011-2012	2012-2013	2013- 2014	2014-2015	
Govt. of India – Grant (Non-Plan)	3700.00	4800.00	7020	6000	--
State Govt. Grant (Non-Plan)	-	-	-	-	--
Govt. of India Grant (Plan-General)	3900	5949.99	1375	975	3000
Govt. of India (Plan-OSC)	1700				

8.2. EXPENDITURE POSITION FOR LAST THREE YEARS

Particulars	Rs. in lakhs			
	2012-2013	2013-2014	2014-2015	2015- 2016
Expenditure- (a) Under Plan(General)	2673.92	1824.79	2649.10	3131.34
Expenditure -(b) Under Plan(OSC)				
Expenditure-Under Non-Plan	6871.51	7050.86	7904.74	9735.52

9.0 CENTRAL FACILITIES AND SERVICES

9.1 COMPUTING & IT SERVICES

9.1.1 CENTRAL COMPUTER CENTRE

Central Computer Centre (CCC) is the central facility in NIT Calicut which caters for the computing requirements of the whole community of this institution. The Centre has state of the art infrastructure with four fully operational terminals spanning over three floors of the building. Decision Support System (DSS) of the institute also operate from the Computer Centre building. The Centre has nearly 200 client machines for usage. CCC hosts some of the high end servers and a parallel processing cluster machine. Servers include DELL PowerEdge T620 which has a dual Hexa-core processor and HP ProLiant Rack server which has a dual Quad-core processor. A state of the art Super Computing Facility with 20 Tera FLOPS computing power meet the research needs of the institute. This Hybrid cluster contains 1 master node and 8 compute nodes (out of which 6 nodes are GPU enabled) are interconnected through infiniband. Each GPU compute nodes contains 2 Tesla K20 GPU cards. All Compute nodes carry dual E5-2640 Intel chip as processors. The Facility can be accessible by all the departments and schools anywhere in the campus through networking. All Post graduate, Ph. D scholars and UG students (those who have computationally intensive projects) are using this facility for research activities. Some of the computational software's and packages for the other departments run from the servers maintained in the CCC as well. The centre possesses a bundle of software, packages for diversified applications. Some of the numerous applications which support academic and creative needs of the student are ANSYS, MATLAB, etc. Centre is fully air-conditioned and has UPS power backup for the whole setup. The Centre works 16 hours a day (7am – 12am) 7 days a week except national holidays unless instructed otherwise.

9.1.2 CAMPUS NETWORKING CENTRE

The Campus Networking Centre (CNC) is the Central Facility providing the software, hardware and networking support to the entire student and staff community of NITC Campus spread around 400 acres. CNC manages the Internet connectivity (both wired and wireless), Institute website, IP Phones and also provide hardware, software and all other IT related solutions for the entire Institute. The campus is interconnected with about 30 KMs of fibre optic backbone network with 80 routed internal networks, managed by the Unified Threat Management system. The Centre is equipped with Firewall, Authentication Server, Log Analyser, Routers, Core Distribution switches, Domain Name Server, Web Server, Proxy Servers, Antivirus central server and IP Phone Server etc. Presently the network is served by 1 Gbps of Internet connectivity provided by BSNL under NKN scheme of MHRD and 12 Mbps by RELIANCE. All the hostels are served with Internet connectivity through wired mode. The Institute website is managed by CNC. CNC functions on a 24x7 basis 365 days without any holidays. IP Phones are installed in all academic and administrative sections. The IP Phones and IP Phone servers are also implemented, configured and managed by CNC. Hardware maintenance unit of CNC provides quality service support to minimize system downtime in the entire campus. The services include installation, troubleshooting and maintenance of computer and peripheral devices, software and operating system installations.

9.2 WORKSHOP

CENTRAL WORKSHOP - FACILITIES AND WORKS UNDERTAKEN

The Central Workshop under the Department of Mechanical Engineering forms a central facility and it caters to the requirements of all departments. The facilities in Central Workshop are effectively utilized for the conduct of practical class for the students of all first year undergraduate programmes. The primary motive is to impart them with the basic ideas of manufacturing. For the UG students of Mechanical Engineering and Production Engineering programmes, advanced training in various skills during the higher semesters builds up their confidence in practical fields of design and manufacturing. Workshop facilities are extended for carrying out UG/PG project works, research works requiring fabrication, assembly & testing, and consultancy related works from various departments. Apart from the regular practical classes, Institute-wide requirements involving fabrication are carried out in central workshop with the help of experienced technical staff of the workshop. This centre has ample facilities to undertake consultancy and fabrication

works in all manufacturing fields. Modernisation of Central workshop is being done with funds from TEQIP/MHRD Plan Fund.

The workshop sections are equipped with the following major machineries/equipments.

- Centre Lathes - 44 nos.
- Shaping Machines - 8 nos.
- Slotting Machine.
- Milling Machines- 3 nos.
- Radial Drilling Machines- 2 nos.
- Drilling Machine- 4 nos.
- Tool & Cutter Grinde.
- Band Saw Machine
- Hack Saw Machine
- Portable Arc welding transformer
- Gas welding equipment
- Gas tungsten / metal arc welding setup
- Submerged arc welding outfit with flux drying oven
- Portable Flame cutting machine-
- MIG Welding Set Up
- Air plasma Cutting machine
- Spot welding Machine
- All carpentry tools- Hand tools- chisels, Mallet, Hand Saws, G Clamps etc.
- Power operated tools for carpentry, sheet metal and fitting works
- Metal cutting band saw
- Wood cutting band saw machine
- Wood working lathes - 3 nos.
- Universal wood working machine
- Jig saw machinewith accessories
- Universal edge bending and folding machine
- Shearing machine
- Fly Press- Pillar type
- Hydraulic Pipe Bending Machine
- Edge Folding Machine
- Shell testing equipment
- Oil fired tilting Furnace
- Heavy-duty workbench with fittings

9.3 EDUCATIONAL TECHNOLOGY & LIBRARY

Educational Technology& Library (ETL) presently comprises of Central Library and Digital Library. Both the Library & Digital Library are working form 8 a.m to 11 p.m on all days except Sundays and Public Holidays.

9.3.1 CENTRAL LIBRARY

Central library offers its services to about 5000 users comprising of undergraduate, postgraduate students, research scholars, faculty and Supporting Staff from various Departments of the Institute/Centres/Sections. The Library uses LIBSYS Software version 7.0 for its operations. Collection is fully bar coded and offers Web OPAC service throughout the Campus LAN.

Current Print Holdings:-

(a) Print Books

Sl. No.	Category	Books at the end of the year 2014-15	Books added during the year 2015-16	Total books as on March 2016
1.	General books	102277	1973	104250
2.	Books for SC/ST	13959	1449	15408
3.	Reference books	5900	562	6462
	Total	122136	3984	126120

(b) Print Journals / Magazines/ Dailies

Sl. No.	Category	Print Journals / Magazines/Dailies at the end of the year 2014-15	Print Journals/ Magazines /Dailies added during the year 2015-16	Total Print Journals/ Magazines/ Dailies as on March 2016
1.	National	17	NIL	7
2.	International (P + O)	NIL	NIL	NIL
3.	Dailies+ Weekly	17	12	29
	Total	34	12	36

9.3.2. DIGITAL LIBRARY

The Digital Library - NALANDA- serves members of the campus in meeting their academic & research needs by providing timely and up-to-date information with value added services in all the areas of Science/Engineering/Technology. Apart from the Digital Library Reading Room, members can access the Nalanda from the entire campus.

Other services

- 1) Web-OPAC useful for searching books in the library and knowing their status online. This service is available in NITC intranet.
- 2) An educational server on the open source moodle platform is reinstated for the faculty of all departments to run their courses. This server will be accessible outside NITC too.
- 3) D Space: For the project / thesis reports of NITC students an ETD server (electronic theses and dissertations) maintained using D space (an open-source institutional repository package) has been initiated. All abstracts are visible for everyone within NITC and privileged access is given to the full contents. International standards (BIS and ASTM) could also be accessed from this server; access being restricted to NITC intranet
- 4) NPTEL(National Program on Technology Enhanced Learning)
A local copy of all NPTEL course materials (provided by IIT, Madras), already available in public domain) which could be accessed from within the Digital Library.
- 5) Services of Turnitin - online plagiarism checker for the use of researchers of the institute.
Current Alexa Rank of NALANDA Digital Library shows 231,228, which is the highest among NITs'

Current Alexa Rank of NALANDA Digital Library shows 231,228, which is the highest among NITs'.
E-Resources-subscription

Category	Total as on March 2015	Total as on March 2016
Online e-Journals (through INDEST consortia)	1485	1485
E-books	2117	2413
E-Journals	3205	3348
E-Databases (EI-Village 2, Indian Standards, ASTM etc)	31647	31647
NITC Resources (Faculty reports, Students' thesis, Course notes)	1401	2159
Journal Back Vol.s	14,411	14,411
Total	54266	55463

Major Hardware / Facilities of Digital Library

HP Storage server DL 3800, Wipro NET Power z2215
3 Dual Xeon processor Compaq servers (Proliant ML 350 G4)
Dual Pentium Processor Compaq Server (Proliant ML 350 G2)
2 Quad – core Intel Xeon Processor HP (Proliant DL 350 G5)
2 Xeon Processor Workstation (HP XW 8200)

69 Pentium IV Microsoft Windows XP client machines.
 14 CoreTM 2duo Microsoft Windows XP client machine
 Sonic WALL NSA 3500 Firewall, HP 6730 Note Book Computer
 Canon make A3 Color Scanner, Nikon cool pix 5700 Digitak Camera,
 Datamax Barcode Printer, 2 KVM Switch. 30KVA APLAB UPS
 5 Cisco SRS 2024 switches

9.3.2 EDUSERVER

This will provide facility for faculty to offer common and additional on line topics/subjects as the part of the curriculum including on-line tutorials, evaluation and simulation etc.

List of courses offered by the Edu server

Civil Engineering Department

CE6141 Orthopaedic Biomechanics

CE3001 Structural Analysis II

Electronics and Communication Engineering Department

EC2011 Network Theory

Mathematics Department

MA1001 Mathematics I

MA6202 Linear Algebra

School of Bio Technology

BT4001 Ethics & Regulations in BioTechnology

BTP705 Environmental BioEngineering

BT3005 Environmental Studies

BT3023 Food BioTechnology

Computer Science and Engineering

CS6213 Foundations of Information Security

9.3.4 Programmes organized by ETL during 2015 – 16

Demos on

- Grammarly@edu writing tools and Plagiarism checker by bridge people on 21.08.2015
- Web of Science on 06.01.2016
- Scopus on 11.01.2016.

9.3.5. Staff position

Chairperson (ETL) : Dr.Saly George
 Vice Chairman (ETL) : Dr. Vinod Pathari
 Librarian (Gr.I) : Vacant
 Librarian (Gr.1I) : Vacant

Sweety Mathew	Librarian Gr.III (Hr.Gr)(Librarian In – charge)
P.S Lalithakumari	Librarian Gr IV (Hr.Gr) (Retired on 31.07.2015)
J Sobhana	Librarian Gr IV (Hr.Gr)
T. Jayarajan	Librarian Gr IV (Hr.Gr)
C Latha	Librarian Gr IV (Hr.Gr)
K P shaju	Librarian Gr IV
M K Chandramohan	Graphic Artist (Hr.Gr)
K Jayaraman	Offset Machine Operator (Hr.Gr.)
C. P Balan	Attender Library (Retired on 30.09.2015)

Supporting office staff

Siamala I	Sanitary worker
Vinod K P	Watchman cum Gardner

Project Digital Library Technical Assistant	: 2
Project Digital Library Computer Assistant	: 3
Adhoc Library Assistant	: 12
Adhoc Library Helper	: 7
Adhoc Office Assistant	: 2

9.4 LABORATORIES

DEPARTMENT OF ARCHITECTURE

Sl. No	Name of the Lab	Available Area Size m ² .	Maximum Batch size	Weekly Hours Required as per Curricula	No. of experiments	
					Prescribed	Conducted
1	Building Science Lab	228	6 batches x 7 students=42	4	12	12
2	CADD Lab	175	50 individual	3	3	3
3.	Creative Arts Lab	228	50 individual	4	12	12
4.	IMD Lab	175	40 individual	3	3	3

DEPARTMENT OF CIVIL ENGINEERING

1. Transportation Engineering Lab
2. Structural Engineering Lab
3. Concrete Lab
4. Strength of Materials Lab.
5. Geotechnical Engineering Lab.
6. Survey Lab.
7. Offshore Structures Lab
8. Water Resources Engineering Lab
9. Environmental Engineering Lab
10. CAD Lab

Assets / Equipment Acquired:

SI .No.	Name of the equipment	Quantity
1	Cube mould, cylindrical mould, Beam mould	12
2	Profo meter and accessories	1
1	Universal Testing Machine 20T	1
2	Brinnel Hardness Testing machine	1
3	Torsion Testing Machine	1
4	Spring Testing Machine	1
5	Grips for Round specimen and Rack Jaws	4
6	0.25 Micro meter	1
1	Micro optic Theodolite	10

2	Dumpy Level	6
3	Pentax Battery	3
1	Hot plate	1
2	Large Direct Shear Box	1
3	Cast iron weight for large scale direct shear box	1
4	Servo controlled cyclic Termal testing apparatus	1
5	Weighing Balance	2
6	Metal Tray	1
7	Test Sieves	4
8	Direct Shear Box	1
9	Cast iron weight for large scale direct shear box	1
10	lenovo Thinkcentre Computers and monitors	10
11	CBR and Compaction mould	4
1	Hydraulic Jack	4
2	LVDT with accessories	1
3	Ball valve and accessories	1
4	Microsoft windows 7 Pro	1
1	Electronic balance	1
2	PH poct tester	1
3	Dissolved oxygen/Temperature Meter	1

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

SOFTWARE SYSTEMS LABORATORY

Established: 2006

Provide infrastructure for: Regular labs (Data Structures, DBMS, Computer Networks, Compiler, Operating Systems and Programming Languages) and Project works for the B. Tech Program.

Location: ITL 302, IT Laboratory Complex

Faculty In-charge: T A Sumesh, Assistant Professor, CSED

Staff In-charge: Ajayachandran V R, Computer Operator, CSED

Computational Facilities / Various Servers

Sl. No	Name of server	Specification
1	Athena Server	Dell Power Edge T620 series server Processor : 2 x Intel® Xeon® CPU E52650 v2 @ 2.60GHz, RAM : 64 GB DDR3 1600MHz, Storage : 4TB
2	Itus Server	Dell PowerEdge2950Series rack server Processor : Intel® Xeon® CPU E5430@ 2.66GHz RAM : 8GB, HDD : 292.3GB(Present)
3	Edu Server	FUJITSU Primergy PY RX300S8 8X2.5 Dual system board for Xeon DP processor Processor : Intel Xeon E52697v2 12C/24T 2.7GHz 30MB RAM : 64GB DDR3 RAM, HDD : 5x500GB SAS HDD RAID Ctrl SAS 6G 5/6 512MB (D2616)
		Dell PowerEdge2950Series rack server Processor : Intel® Xeon® CPU E5430@ 2.66GHz RAM : 8GB, HDD : 292.3GB(Present)
4	Mirror Server	Dell PowerEdge 1950 Series Server Processor : Quard Core Intel Xeon CPU E5310@1.60GHz RAM : 4 GB, HDD : 500 GB

5	Media Server	Dell Precision T3400 series server Processor : Intelcore2.ExtremeCPUX9650@3.00GHzx4 RAM : 4 GB Graphics : Quadro NVS 290/pcl/SSE2 HDD : 500 GB
6	Backup Server	Dell Precision T3400 series server Processor : Intelcore2.ExtremeCPUX9650@3.00GHzx4 RAM : 4 GB, HDD : 500 GB Graphics : Quadro NVS 290/pcl/SSE2
7	Fujitsu Server	FUJITSU Primergy PY RX300S8 8X2.5 Dual systemboard for Xeon DP processor Processor : Intel Xeon E52697v2 12C/24T 2.7GHz 30MB RAM : 64GB DDR3 RAM HDD : 5x500GB SAS HDD RAID Ctrl SAS 6G 5/6 512MB (D2616)

Computational Facilities | Workstations

FUJITSU CELSIUS M740power | Processor : Xeon E52630v3 2.40GHz 20MB Turbo Boost | Chipset: Intel C612 | RAM : 16GB DDR4 RAM | Graphics : NVIDIA Tesla K20 and NVIDIA Quadro K620 2GB | HDD :2x1 TB SATA HDD

NETWORK SYSTEMS LABORATORY

Established: 2006

Provide infrastructure for: Regular labs (Data Structures, DBMS, Computer Networks, Hardware and Programming Languages) and Project works for the MCA and B. Tech programmes.

Location: ITL 304, IT Laboratory Complex

Faculty In-charge: Jayaraj P.B, Assistant Professor, CSED

Staff In-charge: Biju Francis Senior Mechanic, CSED

Computational Facilities / Various Servers

Sl. No	Name of server	Specification
1	Andromeda Server	FUJITSU Primergy PY RX300S8 8*2.5 CPU : INTEL Xeon E5-2697v2 12c/24T 2.7 GHz 30 MB, RAM : 8GB 1*8 DDR3-1600, HDD : 2.5 TB, RAID : 5+1
2	Andromeda Backup Server	Dell PowerEdge 2950 Series Server CPU : Intel(R) Xeon CPU E5430@2.66GHz, RAM : 8GB HDD : 292.3 GB (Present), RAID : 2+1
3	Server 3	Dell PowerEdge 2950 Series server, CPU : Intel Xeon CPU E5430@2.66GHz, RAM : 8GB, HDD : 438.5GB (Present)

Computational Facilities | Work stations

FUJITSU CELSIUS M740power | CPU : XEON E5-2630 v3 2.40 Ghz 20 MB turbo boost, RAM : 4GB DDR4,HDD : 1000 GB | Graphics card NVIDIA Quadro K620 2 GB

DELL PRECISION T3610 (2 Nos.) | CPU: Intel(R) Xeon(R) CPU E5-1620 v2 @ 3.70GHz, RAM: 8GB,HDD: 1TB | Graphics Card: NVIDIA Quadrok200 (2GB)

HARDWARE & EMBEDDED SYSTEMS LABORATORY

Established: 2006

Provide infrastructure for: Regular labs (*Hardware*) and Project works for the B. Tech and MCA Programmes

Location: ITL 301, IT Laboratory Complex

Faculty In-charge: Saidalavi Kalady, Associate Professor, CSED

Staff In-charge: Sreeja V, Senior Mechanic, CSED

Computational Facilities

Sl. No	Items	Specification
1	Desktop Computer (28 Nos)	Dell HW-OptiPlex-7010 (26 Nos), Memory:3.8 GiB, Processor: Intel® Core™ i5-3470 CPU @ 3.20GHz x 4, Disk:480.4 GB
2	Digital IC Trainer (45 Nos.)	
3	ARM Cortex M4 Embedded Development Kit (5 Nos)	
4	IC TESTER (3 Nos)	
5	Regulated DC Power Supply(Model LQ6324) (10 Nos.)	
6	3MHZ Function Generator (10 Nos)	
7	DC Stepping Motor	
8	Lan-T Trainer	
9	Oscilloscope (10 Nos)	

BIG DATA AND BIOCOMPUTING LABORATORY

Established: 2009

Provide infrastructure for: Regular labs and Project works for the M. Tech program

Long term objective: To develop into a 'Centre of Excellence in Big Data and Biocomputing' with collaboration from institutes of national and international repute.

Location: Second Floor, Central Computer Centre

Faculty In-charges: Madhukumar S D, K A Abdul Nazeer, Gopakumar G, CSED

Staff In-charge: Biju Francis, CSED

Computational Facilities

Server: 1 No

HPML 150 GEN 9 E52630V3855 FF SERVER | RAM 16GBX4 | HDD 900GB X6 RAID

Desktop Computers - 70 Nos

HP PRO DESK 600G1 SFF | PROCESSOR : i5-4570I, RAM : 8GB, HDD : 1 TB, Monitor :18.5 LED -22

CLOUD COMPUTING LABORATORY

Established: 2010

Provide infrastructure for: First year M. Tech students and PhD students working in the area of Cloud Computing like Resource allocation in clouds, Cloud Security, Big Data Analytics, Software Defined Networks, Cloud Storage and Cloud for Telecom sector

Location: MB 210, Main Building

Faculty In-charge: Madhukumar S D, Associate Professor, CSED

Staff In-charge: Abdul Sathar V M , Senior Mechanic, CSED

Computational Facilities

Sl. No	Items	Specification
1	Desktop Computers - 24 Nos	Dell Optiplex 7010 (2 Nos), Processor : Intel Core i73770, Quad Core CPU@3.4GHz, RAM : 16 GB, HDD : 1 TB
3	Desktop Computers - 23 Nos	DELL OPTIPLEX 760, Processor : Intelcore2DouCPUE4500@2.2GHz x2, RAM : 2 GB

MACHINE LEARNING LABORATORY

Established: 2003 as part of a project "Centre for Speech and Natural Language Processing", with a view to promote research activities in areas like Artificial Intelligence, Bio-Informatics, Natural Language Processing, Knowledge based Systems and Information Retrieval.

Provide Infrastructure for: M. Tech students for their project and research activities

Location: MB 202, Main Building

Faculty In-charge: K A Abdul Nazeer, Associate Professor, CSED

Staff In-charge: Abdul Sathar, Senior Mechanic, CSED

Computational Facilities | Servers

Dell PowerEdge2950Series rack server (2 Nos) | Processor : Intel® Xeon® CPU E5430@ 2.66GHz | RAM : 8GB, CPU Cores : 4 ,HDD : 292.3GB(Present)

Fujitsu Primergy RX 300 S8 (1 No) | Processor: Intel Xeon E5-2697v2 12C/24T 2.7GHz 30MB,RAM : 64GB DDR3 ,HDD : 5*500GB,OS : Cent OS 6.6

Computational Facilities | Workstations and Desktops

Sl. No	Items	Specification
1	Desktop - 32 Nos	DELL OPTIPLEX 7010, Processor : Intel Core i5-3470 CPU@3.20GHz, RAM : 4 GB,HDD : 500 GB
2	Workstation - 1 No	DELL PRECISION T3610, Processor : Intel Xeon E51620Vz Quad core HT 3.7 GHz TURBO RAM : 8 GB ,HDD : 1 TB
3	Desktop (High End) - 2 Nos	DELL OPTIPLEX 7010 MT, Processor : Intel Core i7-3770 Quad core CPU@3.4GHz ,RAM : 16 GB, HDD : 1TB

IMAGE PROCESSING AND MULTIMEDIA LABORATORY

Established: 2006

Provide infrastructure for: First year M. Tech students for their project and course activities

Location: Main Building (1 st Floor) Room No :MB 211

Faculty-In-charge: Pournami P N , Assistant Professor ,CSED

Staff-In-charge: Abdul Sathar VM, Senior Mechanic, CSED

Computational Facilities | Servers

Cloud Computing Server - Dell Power Edge T620, Processor: Intel Xeon 65 2690v2 @ 3.0GHz, RAM: 256 GB,HDD: 6TB

Computational Facilities | Workstations and Desktops

Sl. No	Items	Specification
1	Desktop - 34 Nos	Dell Optiplex 7010, Processor : Intel Core i53470 CPU@3.20GHz, RAM : 4 GB, HDD : 500 GB
2	Work Stations (2Nos)	Dell Precision T3610 -1 No, Processor : Intel Xeron E51620v2 Quard Core HT3.76GHz Turbo, RAM : 8GB, HDD : 1TB
3	High end Desktop – 1 No	Fujitsu Celsius M740 Power, 1 No Processor : Intel Xeon E5-2630v3 2.40GHz 20MB Turbo Boost, RAM: 16GB, HDD: 2*1 TB

SECURE COMPUTING LABORATORY

Established: 2005

Provide infrastructure for: PhD scholars for doing research in various aspects of security in computing

Location: ITL 303, IT Laoratory Complex

Faculty-in-charge: Priya Chandran, Professor, CSED

Staff –in-charge: Abdul Sathar V.M, Senior Mechanic, CSED

Computational Facilities

Server Rack

1. HP ProLiant DL 360 4p Server
2. Cisco 2800 Series Router
3. Cisco Catalyst 3560 G Series 24 port Switch
4. Master View plus KVM Switch CS 9138
5. Procurve Networking 24 Port Switch
6. HP L1766 Monitor

Servers

7. Sun Blade 1500 (2 Nos)
8. Dell Power Edge SC1420 (1 No)
9. IBM System x3100 M4, Intel Xeon E31120 V2, 16GB ECC-SER RAM, 1TB HDD
10. Dell PowerEdge T620, Intel Xeon E5-2690 V2, 3 GHz HT, 256 GB RAM, 6TB HDD

Work Stations

1. Dell Precision T 3400
2. Dell Precision T 3610, Intel Xeon E5 1620 V2, 8GB DDR3, 1 TB HDD (3 Nos)

High End PC

1. Dell Optiplex 7010MT, Intel Core i7, 16GB DDR3 RAM, 1 TB HDD (7 Nos)

HIGH PERFORMANCE COMPUTING FACILITY

Established: 2010

Provide infrastructure for: PhD scholars for doing research in the area of high performance computing

Location: Second Floor, IT Laboratory Complex

Faculty-in-Charge: Abdul Nazeer K A (Associate Professor)

Staff-in-Charge: Ajayachandran V R, Computer Operator, CSED

Computational Facilities

High Performance Cluster | 1 Master Node (2xHaswell 8C E5-2640 V3 2.6GHz 20M 8.0GT/s OPI, Memory: 8x8 GB DDR4 Reg. ECC 2133 MHz with 16 DIMMs, Storage: 4x600GB Hot-swap SAS 10K RPM, Infiniband Adapter: 1xSingle-port FDR 56Gbps card) | 2 Compute Nodes (2xHaswell 8C E5-2640 V3 2.6GHz 20M 8.0GT/s OPI, Memory: 8x8 GB DDR4 Reg. ECC 2133 MHz with 24 DIMMs, Storage: 2x600GB Hot-swap SAS 10K RPM, Infiniband Adapter: 1xSingle-port FDR 56Gbps card) | 1 Storage Node (2xHaswell 8C E5-2640 V3 2.6GHz 20M 8.0GT/s OPI, Memory: 8x8 GB DDR4 Reg. ECC 2133 MHz with 16 DIMMs, Storage: 2x600GB Hot-swap SAS 10K RPM, Infiniband Adapter: 1xSingle-port FDR 56Gbps card) | 1 Storage Area Network (SAN) system of 30TB | 1

Infiniband Switch of 56 Gbps and 36 ports

All the laboratories are equipped with wired and wireless Internet connectivity

DEPARTMENT OF ELECTRICAL ENGINEERING

UG Laboratories:

Electrical Machines Laboratory, Electrical Measurements Laboratory, Control Systems Laboratory, Electronics Circuits Laboratory, Electrical & Electronics Workshop, Power Engineering Laboratory, UG Power Electronics Laboratory.

PG and Research Laboratories:

Electrical Simulation Laboratory, Power System Laboratory, PG Power Electronics Laboratory, Industrial Power & Automation Laboratory, Embedded System Application Lab, DCS Applications Lab, Process Automation Lab, Distributed Energy Research Lab, Bio Signal Processing Lab, High Voltage Engineering Lab.

Following new laboratories are proposed:

Instrumentation lab, Advanced Control System lab, Industrial Drives lab, Advanced Power system lab, HV

measurements lab, HV nondestructive testing lab,

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

1. Electronics Circuits Lab
2. Communication Engineering Lab
3. Integrated Circuits Lab
4. Digital Signal Processing Lab
5. Embedded Systems Lab
6. VLSI and Microelectronics Lab
7. Telecommunication Technologies Lab
8. Electronics Workshop
9. Programmable System on Chip (PSoC) Lab
10. Signal Processing and Communication (SPCom) Lab
11. DST FIST Lab
12. Simulation Lab
13. R & D Lab

DEPARTMENT OF MECHANICAL ENGINEERING

Sl. No.	Name of laboratory
1	Metrology lab
2	Industrial Engineering lab
3	Production Engineering Lab
4	Heat Engines lab
5	Thermal Science Lab
6	Vibration, Acoustics & Tribology Lab
7	Fluid Mechanics and Fluid Machinery lab
8	Solar Energy Centre
9	Mechatronics and Robotics Lab
10	CAD/CAM Lab
11	Computer Aided Graphics & Design Lab
12	Material Sciences Lab
13	Advanced Manufacturing Centre
14	Sophisticated Instruments Centre
15	Center for Advanced studies in Cryogenics (CASC)
16	Fuel Cell Laboratory
17	Heat Treatment Laboratory
18	Central Workshop
19	Design Innovation Centre
20	Energy Management Laboratory
21	Supply Chain and System Simulation Laboratory
22	Mechanisms Laboratory
23	Green energy lab

DEPARTMENT OF CHEMISTRY

1. B.Tech Laboratory-I & -II
2. PG Physical Chemistry Laboratory
3. PG Instrumentation Laboratory
4. Sophisticated Instrumentation Laboratory (.)
5. Thermal Analysis Laboratory (with DSC, TGA, FTIR, UV etc)
6. Computational laboratory (Common facility)
7. Polymer Science & Technology Research Laboratory
8. Soft Materials Research Laboratory
9. Materials Research Laboratory
10. Bio-organic Research Laboratory
11. Bio-inorganic Materials Research Laboratory
12. Inorganic and Bioinorganic Research Laboratory
13. Theoretical and Computational Chemistry Research Laboratory

DEPARTMENT OF PHYSICS

1. B.Tech I year Physics Lab
2. B.Tech EP General Physics Lab
3. B.Tech EP Electronics Lab
4. B.Tech EP Solid State Physics Lab
5. M.Sc (Tech) General Physics Lab
6. M.Sc (Tech) Electronics Lab
7. M.Sc (Tech) Optics Lab
8. Computer Centre & Computational Lab
9. Critical Point Phenomena & Polymer Dynamics Lab
10. Unconventional Electronics and Photonics Lab
11. Laser and nonlinear optics Lab
12. Computational Materials Science Lab Research Labs
13. Applied Optics and Instrumentation Lab
14. Organic and Nano electronics laboratory
15. Photonic Materials and Devices Laboratory

DEPARTMENT OF CHEMICAL ENGINEERING

1. Chemical Technology Laboratory
2. Fluid Mechanics Laboratory
3. Mass Transfer Laboratory
4. Heat Transfer Laboratory
5. Environmental Engineering Laboratory
6. Chemical Reaction Engineering Laboratory
7. Process control Laboratory
8. Research Laboratory
9. Project Laboratory

SCHOOL OF BIOTECHNOLOGY

1. Biochemistry Laboratory
2. Microbiology Laboratory
3. Bioprocess Laboratory
4. Molecular Biology Laboratory
5. Immunology Laboratory
6. Bioinformatics Laboratory
7. Plant Biotechnology and Enzyme Kinetics Laboratory

SCHOOL OF NANO SCIENCE & TECHNOLOGY

1. Microscopy centre
2. Nanotechnology Research Laboratory
3. Nano Science Research Laboratory
4. Fuels and Combustion Research Laboratory
5. Computational Nanotechnology Research Laboratory
6. Nanomaterials and Devices Research Laboratory

9.5 HOSPITAL, POST OFFICE, SHOPPING CENTRE

HOSPITAL

Institute has a Health Centre providing the medical needs of students, staff and their families.

1. Dr.Celine .A.A. is working as Resident Medical Officer
2. Dr. Balasubramanian.MD. was appointed in the Health Centre on contract basis on every Wednesdays
3.00 pm to 5.00 pm
3. Dr.Sreejith.C and Dr. Melvin Cyriac were appointed as R.M.O s on Adhoc basis

Paramedical Staff

- a) Smt. Rosamma.V.J. - Staff Nurse
- b) Sri. Abraham.P. - Pharmacist
- c) Smt. Sasikala.L - Sanitation Worker

Adhoc Staff

- a) Staff Nurse -1
- b) Lab-Technician -1
- c) Nursing Assistant cum Attender -1

NIT Health centre Medical laboratory.

A newly constructed well equipped Medical Laboratory is functioning in the Health Centre from 2007 onwards

POST OFFICE

There is a branch of State Bank of India, a Post and Telegraph Office and a Telephone exchange functioning in the Institute Campus

SHOPPING CENTRE

There is also a shopping centre run by the co-operative society of the employees of the institute staff Functioning in the Campus.

9.6 PHYSICAL FACILITIES (GAMES & SPORTS)

Academic activities commenced with the class room sessions for all 14 batches of first year students as part of one-credit course ZZ1093 which archde practical sessions in play grounds. Talent spotting and NITC teams 2014-15 in all games were selected by January 2015.Teams were soon trained and sent out to participate in National level Inter NIT tournaments at various NITs of the country. Inter NIT tournament in Tennis, Hockey, Kabadi were hosted at NIT Calicut on 16-19 April 2015.

In-Campus Mass Participation Activities were conducted were on a satisfactory note. Nano-cricket, Willow cup cricket, FORZ Soccer were the leading activities. These activities attracted hundreds of students and exhibited the managerial prowess of student-organisers. As usual, the Intramural interclass competition was held for both boys and girls. Participation was total and the organization was by OVEP students.

Kozikode District League championship is one tournament we frequent every year. Participation was complete in events like Foot ball, Cricket, Basket ball, Badminton, Volley ball, Hockey, Table tennis and Tennis.

9.7. OTHER FACILITIES

9.7.1. CENTRE FOR BIOMECHANICS

The Centre for Biomechanics, inaugurated on September 10, 1998, is a unique centre in which active and useful academic interactions take place between doctors and engineers. Such centres, although essential for the benefit of society, unfortunately is not common in our country. R & D work of an interdisciplinary nature is carried out here, with Faculty drawn from various departments of this Institute and Adjunct Faculty from other institutions.

i. Proposed plan of Research

- a. Research interactions are going on with the Department of Physical Medicine and Rehabilitation and the Department of Orthopaedics, Calicut Medical College and a few other medical/rehabilitation centres. A few inter-disciplinary research initiatives have taken place in areas like gait analysis, deformity corrections etc.

- b. There are a few PhD students and PG students who have already shown interest and in working in Biomechanics related projects under the guidance of adjunct faculty in the Centre.
- c. The Centre plans to organise seminars, workshops/training courses in relevant fields of biomechanics so as to bring an exposure and awareness among the students and faculty about various interdisciplinary research areas in biomechanics.
- d. Updating the current facilities in the Centre for Biomechanics and reviving the R&D and consultancy activities are also planned.

ii. Other Facilities

Using the funds from Ministry of Human Resource Development, Thrust Area, (letter of sanction no. F.27-2/2000-TS-I, dated 20-03-98), a high precision, computer controlled, Universal Testing Machine was imported for a total cost of Rs. 12 lakhs.

iii. Notable Achievements

1. VDS Fixator: Such a configuration, arrived at by elaborate finite element analysis, has proved to be superior to the existing ones. Clinical trials support the conclusions arrived at by detailed parametric study conducted on the computer. This invention has lead to a patent (India Patent No. 194925).
2. Dynamic Wrist Fixator: The new and improved dynamic wrist fixator aimed to solve the problem of healing unstable fractures of the wrist, with nearly complete recovery of the original mobility of the wrist joint. Multi-centred clinical trials were carried out at a number of medical college hospitals in Kerala and the device is proven to be superior to the existing ones available in the market. This invention also has lead to a patent (India Patent No. 196326).
3. Extensive finite element analyses were carried out on Ilizarov fixator used for correcting tibial fractures and in bone-lengthening procedures. Results of parametric studies gives doctors directions on how to use them more effectively.
4. Dermotaxis: This is a term coined to describe a simple and innovative method of achieving closure of skin defects and wounds through continual stretching of the skin. The Centre has developed a tool for skin closure using K-wires, which seems to be a cost effective and quicker method, compared to conventional procedures. It also has the advantage of retaining the sensation of skin in contrast to the conventional methods where it is lost. A viscoelastic model was used to study the behaviour of human skin the results from which indicates the rate at which the skin could be stretched without inducing separation of epidermis.
5. Methods to assess the goodness of healing of a fractured wrist were developed. Certain statistical methods were developed to estimate the gripping strength of the wrist before fracture from measurements of gripping strength of the other (unbroken) hand.
6. Pinch-Force Meter: A simple device to measure the pinch force has been developed. This device is useful in assessing how good the healing of a wrist injury is. A person with a wrist injury usually loses ability to exert much of pinch force.
7. Simple device to measure the viscosity of blood was fabricated. The blood viscosity measure is an easy indicator for several diseases including heart attack.
8. Simple device to prepare a blood smear has been developed. Some more studies are necessary before it can be commercialised.
9. A surgical tourniquet has been developed as part of an M.Tech project work. It is possible now, with this experience, to design a fully automatic programmable digital electronic tourniquet. Tourniquet is useful for the bloodless operation of limbs.
10. Use of LTPP in Prostheses and Orthoses: Low-temperature thermoplastics (LTPP) are extremely useful in developing orthoses such as braces. The advantage comes from the special property of LTPP that it becomes malleable at a temperature of 70° C and hardens when cooled to room temperature. Thus, it can be moulded by pressing against the patient's body. This enables doctors to provide the orthoses to the patients in the quickest possible time resulting in a faster cure of the disability. Trials carried out have demonstrated that it is possible to use LTPP in a variety of situations including the fabrication of sockets of artificial limbs. A research project funded by DST has been completed which benefited a large number of patients visiting the Physical Medicine and Rehabilitation Centre of Calicut Medical College. DST has sent a letter of appreciation regarding this work. It is planned to extend and propagate this work so that more patients from different parts of the country are able to draw the benefits from this work. This work is being extended so that complete prostheses could be made out of LTPP. This will enable the patients to get the prostheses with very little waiting.

Several tests on glues and appliances used by the dentists were carried out by postgraduate dental students. This formed part of a few postgraduate theses by students from different Medical Colleges in and around the state of Kerala.

Patents

Tibial External Fixator Assembly—A new biomechanical configuration for improved treatment of fractures of the tibia

Dynamic Wrist Fixator—A new biomechanical device to facilitate treatment of unstable fractures of the distal radius (wrist)

9.7.2 CENTRE FOR TESTING & CERTIFICATION – CTC

The centre for testing and certification was established in 1999 with financial assistance from Ministry of Industries & Commerce, Government of Kerala. The centre was established mainly to help small scale entrepreneurs of the State of Kerala. Variety of testing equipments has been acquired for facilitating testing of electronic components, systems and gadgets.

Faculty in Charge : Dr.K.S.Sivanandan

9.7.3 ENGINEERING UNIT FOR CIVIL AND ELECTRICAL WORKS

The status of works as on 31.03.2016

Sl. No	Name of the Building	Present Stage
1	Construction of building for Central Library	90 % Completed
2	Mega Hostel – I	93 % Completed
3	Construction of 100 Nos. Residential Quarters	Completed (By CPWD)
4	Construction of 500 Unit Single bedded Ladies Hostel	Completed (By CPWD)
5	Construction of building for Classroom MBA Block Hostel Block Auditorium	By CPWD Completed Complete Complete Completed Except rectification
6	Construction of 1500 Rooms Mega Hostel -II	45 % Completed
7	Construction of Sewage treatment plant near Boys	Completed (By CPWD)
8	Construction of sheet roofed shed and compost pit for segregation and disposal of waste materials from campus	Completed

9.7.4. CAMPUS SCHOOL

Spring Valley School

Spring Valley School is a Senior Secondary Co-educational English Medium School, functioning in the institute campus as one of the staff welfare measures. The school is affiliated to the Central Board of Secondary Education, New Delhi with code No.930100. School is being managed by REC SPECTRA (Society for Promotion of Educational, Cultural and Training Activities), a charitable society registered under the Societies' Act (1860), the members of which are the faculty members of the institute. Most of the infrastructure facilities of the school like land, buildings, laboratories, playground, etc. have been made available by the institute. The School has always excelled in academics since its inception and could achieve 100% pass both in Class X and XII CBSE Examinations. Digitally enabled classroom facilities and the School Band have been provided to strengthen the academic and co-scholastic abilities of the students. The school celebrated its 23rd Annual Day on 8th January 2016.

Office Bearers as on 31.03.2016

- Dr. Sivaji Chakravorti, Director NITC, Chairman, REC SPECTRA
- Dr. G. Unnikrishnan, Vice Chairman, REC SPECTRA & President, School Managing Committee.
- Dr. R. Manu, Secretary, REC SPECTRA & Manager cum Correspondent, Spring Valley School.
- Dr. Sunil Mathew, Vice President, School Managing Committee.
- Dr. Sindhu T.K., Joint Secretary cum Treasurer, REC SPECTRA
- Prof. Unnikrishnan Nambeesan, Senior Principal
- Smt. Shiny A., Principal

10.0 NOTABLE ACHIEVEMENTS

10.1 PAST ACHIEVEMENTS

DEPARTMENT OF ARCHITECTURE

- The department has conducted several short term courses and summer/winter term courses sponsored by AICTE and IEI
- The department has three excellent centers:
 - i. Building Science Laboratory.
 - ii. CAAD Laboratory
 - iii. Material Museum
- The department has carried out large number of consultancy works and also plays a major role in industry- institute interaction.
- The department has also carried out large number of research projects.
- The faculty of the department has published papers in National/International Journals and National/International conferences.
- Workshops and Short term courses have been organized by the faculty of the Department.

DEPARTMENT OF CIVIL ENGINEERING

1. The department had taken up training of local unemployed youth for self-employment under the Nehru Rozgar Yoganas (NRY) funded by Kerala Urban Development Finance Corporation. The training was given in Plumbing, Carpentry, Masonry and Landscaping. About 300 youths were trained under this programme
2. The Department had three centres of excellence
 - a. Vehicle Motion Analyser Laboratory
 - b. Non Destructive Testing Laboratory
 - c. Biomechanics Laboratory
 - d. Centre for Transportation Research (CTR)
3. The Department has already conducted more than 43 summer/winter schools sponsored by Indian Society for Technical Education and All India Council for Technical Education.
4. The Department has organised in collaboration with Department of Training and Placement, more than 60 Short Term Courses in different fields of Civil Engineering
5. The Department has already produced 27 Ph.D Scholars in different fields of specialisation
6. The Department has carried out more than 41 sponsored Research Projects funded by MHRD, DST, ISCHMS, AICTE, Ministry of Water Resources etc.
7. The Department has been recognized as a Centre for Scrutinizing the Design of important Public Buildings, by the Government of Kerala.
8. The Department has generates on an average Rs. 25 lakhs per year through testing and consultancy
9. The Faculty of the Department published papers in the National and International Journals and National and International Conferences on an average of about 40 papers per year
10. The Ferro-cement technology transfer: Large scale water tank of 5,000 and 10,000 litres capacity, fabricated using Ferro-cement technology was transferred to JALANIDHI of Kerala Water Authority to be used under rain water harvesting schemes
11. Developed an effective retrofitting technique using ferrocement wrapping for RCC frames under distress.
12. Developed sustainable cementitious composites
13. The Department had received two patents in the area of Bio-mechanics for the following:
 - Dynamic External Wrist Fixator
 - External Fixator Assembly for Tibial Fracture
14. Community Services
 - Popularized the cost effective Ferrocement water tanks in the rural and urban sector
 - Design and Development of water conservation techniques such as rain water harvesting and construction of check dams
 - People participation programmes of Panchayats
 - Creating awareness of traffic rules and regulations in schools
 - Actively associated with the awareness building campaign in connection with the implementation of the Model Solid Waste Disposal Scheme in Calicut Corporation
 - Involved in a few biomechanics related projects which have benefited a number of patients visiting the Physical Medicine & Rehabilitation Centre of Calicut Medical College.
 - Organise special lectures on good construction practices at the Licensed Engineers and Supervisors Federation Kozhikode

- A project under the TEQIP under the Service to Community scheme titled “IT Training and Social Surveys for Chathamangalam Grama Panchayath”, October 2007 – March 2007
- Assists in implementing Model Solid Waste Disposal Scheme in Calicut City.
- Skill up-gradation of rural craftsmen and women workers under TEQIP
- Organized a 5-day Workshop on “Career Guidance and Preparation for Interview” for 80 students from colleges all over Kerala from November 29- December 3, 2007 as part of NSS activities, Conducted a 10 day special camp at Katippara Panchayat, Thamarassery, Kozhikode District from 7th December 2007 to 15th December 2007.
- Conducted “Self Enrichment programme” for a selected group of first year students of the Department of Civil Engineering, in association with Centre for Research & Education for Social Transformation (CREST), Kozhikode, 22nd December to 28th December 2012
- Ferrocement water tank for community water supply schemes
- Development of low cost precast structural elements such as walls, lintels, beams etc. For buildings in rural areas.

DEPARTMENT OF ELECTRICAL ENGINEERING

- B.Tech Programme in Electrical and Electronics Engineering got NBA Accreditation for 6 years from 2016 July onwards.
- Dept. signed MoU for University program between NIT Calicut and Texas Instruments in 2016.-Dr Jagadand G is the coordinator
- Dr. Ashok S was nominated as a Member of PRSG- “Advanced Automation & Process Optimization System for 1200 TPD, Malabar Cements Factory, Walayar, Palakkad”.
- Dr. Ashok S. was nominated as the member from academic institute for the technical committee for wind energy programs – Govt. of Kerala (2015- till date).
- Dr. Ashok S., was nominated as the technical adviser in micro-smart grid projects and associated products by M/s VI microsystem Pvt Ltd Chennai (2015 onwards).
- Dept. signed MoU for industry institute interaction programme between M/s Entuple Technologies Pvt Ltd, Bangalore and Industrial Power Group, EED NIT Calicut. Dr Ashok S is the coordinator
- Dept. signed MoU between CDAC, Trivandrum, and Industrial Power group, EED, NIT, Calicut for the project: “Investigations using Full Spectrum Simulator Mini (FSS Mini)”. Dr Ashok S is the coordinator
- Dept. signed MoU between CDAC, Trivandrum, and Industrial Power group, EED, NIT, Calicut for the project: “Development of Low Voltage DC (LVDC) architecture for residential applications”. Dr. Ashok S is the coordinator

DEPARTMENT OF MECHANICAL ENGINEERING

- Dr. Madhusudhanan Pillai : Developed a supply chain role play game – Version three is developed in this year. This game is similar to the ‘Beer Distribution Game’ of MIT, USA. The previous versions are very widely used for research and as a lab experiment/exercise for UG (Production Engineering) and PG (Industrial Engineering and Management) programmes. This Game is probably the first of its kind in India.
- Dr. Madhusudhanan Pillai : Developed a ‘Process Layout Planning Package’ in this year. Online and standalone versions are developed. Standalone version allows the optimal layout development. Simulated annealing based algorithm is used for near optimal development of layout. This algorithm based layout was used in the lab classes of UG (Production Engineering) and PG (Industrial Engineering and Management) programmes. This package is probably the first of its kind in India.
- Dr. Madhusudhanan Pillai : Developed an exercise for performance analysis of a four stage serial supply chain under P-system inventory control at all stages of the supply chain using Excel spread sheet. This is used as an exercise for PG (Industrial Engineering and Management) programme
- Dr. A. Shaija is selected as the joint secretary of Combustion Institute- Indian Section December, 2011

- Dr. Jose Mathew received ISTE- Certificate of Achievement 2012 National award (First Prize) for having guided the Best M. Tech thesis. Awarded in December 2012 at Hyderabad.
- Dr. Jose Mathew received International Travel Support Scheme award from DST for attending ASME International Conference at Chicago, USA during November 2012
- Dr. T.J.S. Jothi received Young Engineer Award 2012-2013: Awarded by Institution of Engineers, India (IEI) Young Engineers Award in Mechanical Engineering Discipline
- Dr. T.J.S. Jothi received JNCASR visiting scholar fellowship 2013-2014.

DEPARTMENT OF PHYSICS

- Dr. M. K. Ravi Varma has 15 peer reviewed publications and over 25 conference proceedings
- Dr. P. Predeep supervised 20 PhD theses, Published more than 200 papers, Eight books, two patents, Visiting professor assignment at the University of Nantes, France, Visited and lectured at various universities and institutes including USA, Russia, France, Italy, Germany, Czech, Spain, undertaken external projects worth more than INR 11 million, MoU with University Auburn, USA, UGC research award, INSA visiting Fellowships etc.

SCHOOL OF NANO SCIENCE AND TECHNOLOGY

- Publications from the faculty include around than 170 research papers , One international text book and filed 2 patents
- The school has obtained an R&D funding of about Rs. 3.5 Crores so far through 10 major funded projects from the Government (DST, DBT, DAE, DRDO, CSIR, KSCSTE) and industries (HPCL, Tata Steel)
- The Department has conducted 4 Faculty Development programmes and 1 Workshop on Nanotechnology
- Dr.Sajith. V received best Young Teacher award of NIT Calicut, for the performance during the year 2007 – 08
- Dr.Sajith V and Dr.Shijo Thomas received Dronacharya Award for the Best Faculty Advisor of the teams participated in the BAJA SAE India 2012 Competition

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

- Organized the International Symposium on Biocomputing (ISB 2010) at Calicut, Kerala, jointly with the Indiana University Purdue University Indianapolis (IUPUI), USA, with cooperation from the Association for Computing Machinery (ACM).
- Organized the Indo-US Workshop on Biocomputing (ISB 2011) at Calicut, Kerala, jointly with the Indiana University Purdue University Indianapolis (IUPUI), USA, with cooperation from the IUSSTF and NSF.
- Organized the IEEE International Conference on Signal Processing, Informatics, Control and Energy Systems (IEEE SPICES) jointly with the Departments of Electrical Engineering and Electronics and Communication Engineering, NIT Calicut in February 2015.
- Dr. Muralikrishnan K won the 'Best Ph. D Thesis Award' from the Indian Institute of Science (IISc), Bangalore in the year 2008.
- Dr. S.D Madhu Kumar has been selected as 'Big Data' Track- Co-Chair for the IEEE International Conference - Recent Advances in Intelligent Computing Systems (RAICS 2013)
- Dr. S.D Madhu Kumar has been selected as an External Examiner for evaluating the Computer Science courses offered by the colleges under Glasgow Caledonian University, UK.
- Dr. S.D Madhu Kumar has been Invited speaker in the International Conference on Advances in Computing, Communications and Information Science (ACCIS'14) at TKM College of Engineering Kollam.
- Dr. S.D Madhu Kumar has been selected as Algorithms Tracks Co-Chair along with Dr.Priya Chandran and Dr.K Murali Krishnan for Seventh International Conference on Cotemporary Computing (IC3 2014)-
- Dr. S.D Madhu Kumar has been selected as Program Chair for the International Workshop on Access Control Policies, Models and Mechanisms (ACPM-2014), Delhi.
- Dr.S.D Madhu Kumar has been selected as Vice Chair- ACM Trivandrum Professional Chapter.

- Dr. S.D Madhu Kumar has been selected Publications and Web Support Chair for the IEEE Malabar Subsection.
- Dr. S.D Madhu Kumar has been selected as Publicity Co-Chair for the ACM DEBS 2014.
- Dr. S.D Madhu Kumar has been selected as Cloud Computing Track co-Chair for the ACM SAC 2014.
- Dr. S.D Madhu Kumar has been selected as TPC Member for the 3rd International Workshop on Collaborative Cloud (CollabCloud 2014) of 10th IEEE International Conference on Collaborative Computing: Networking, Applications and Worksharing, Miami, Florida, United States
A paper by titled “A Computational Method for Drug Repositioning using Publicly Available Gene Expression Data” authored by Shabana K M, Abdul Nazeer K A, Meeta Pradhan and Mathew J Palakal won the “Best paper Award” in the 4th IEEE International Conference on Computational Advances in Bio and Medical Sciences (ICCABS-2014) held at Florida, USA in June 2014.
- Two of the three members of the Organizing Committee of ACM SAC-2016, Piza,Italy - Cloud Computing Track, are from this department - Dr. Priya Chandran (Professor) and Dr. Madhukumar S D (Associate Professor)

DEPARTMENT OF CHEMICAL ENGINEERING

- The Department has conducted various, seminars, workshops, summer and winter school.
- Department of has bagged 1 funded research projects from various funding agencies.
- The department has established sophisticated instruments lab.

DEPARTMENT OF ELETRONICS & COMMUNICATION ENGINEERING

- The department has conducted several workshops, short term courses and summer/winter courses.
- The department has conducted one IEEE international conference on its own in 2011 and one IEEE international conference jointly with EEE and CSE departments in 2015.
- The department has also carried out a number of research projects.
- The faculty members of the department have published large number of published papers in National/International Journals and National/ International conferences.
- The department is a member of SMDP project by Government of India.

10.2 ACHIEVEMENTS THAT TOOK PLACE DURING THE YEAR 2015-2016

DEPARTMENT OF ARCHITECTURE

a. Publications

i) Journals

SI No	Name of the Author	Title of the Paper	Publications/ Journals	Vol., Year, p.p
1	Kasthurba A K and Josna Raphael P	The Integration of Tangible and Intangible Cultural heritage values for the Sustainable development of the cultural capital of Kerala: Thrissur, India.	International Journal in Management & Social Science	(ISSN -2321–1784) Vol. 4, 2015
2.	Kasthurba A K and Josna Raphael P	Social Logic of Morphological Evolution of Temple Towns of Kerala, India: Understanding the cultural influence on the spatial configuration of Temple Towns.	Journal of Chemical, Environmental and Biological Sciences (IJCEBS)	ISSN 2320 – 4079 Vol. 5 , 2015
3.	Kasthurba A K	Sustainable Construction Technique Utilizing Waste materials: Coconut shell sandwich Panel construction	Journal of IIA November	Vol 80 (11), 2015, pp 35-38

4.	K. Chithra, P. P. Anilkumar and M. A. Naseer	Quantification of Residential Land Use Characteristics from an Impact Generation Potential Perspective	Indian Journal of Science and Technology,	DOI:10.17485/i jst/2015/v8i28/ 84016, Vol 8(28),2015
5.	P. P. Anilkumar, K. Chithra	Land use Generator Based Solid Waste Estimation for Sustainable Residential Built Environment in Small/Medium Scale Urban Areas	Indian Journal of Science and Technology,	DOI:10.17485/i jst/2016/v9i6/8 7699 Vol. 9, Issue 6, 2016,
6.	P P Anilkumar	Implementing Campus Greening Initiatives (A chapter in the editor volume)	Springer Switzerland	2015

ii) International Conferences

Sl. No.	Name of the Author	Title of Paper	Name of International conference	Vol., Year,
1	P P Anilkumar, Chithra K	Land use generator based solid waste estimation for sustainable residential built environment in small/medium scale urban areas	Indian Journal of Science and Technology,	Volume 9, Issue 6, February 2016, 10.17485/ijst/20 16/v9i6/87699
2	Chithra K, P. P. Anilkumar and M. A. Naseer	Quantification of Residential Land Use Characteristics from an Impact Generation Potential Perspective	International Conference on "Sustainable Technologies in Building & Environment" (ICSTBE 2015) organized by Department of Architecture, Sathyabama University, Chennai)	15-17 th July 2015
3	Amritha P K, P P Anilkumar	Sustainable solid waste management through landscaped landfills	International Conference on "Sustainable Technologies in Building & Environment" (ICSTBE 2015) organized by Department of Architecture, Sathyabama University, Chennai	15-17 th July 2015
4	P P Anilkumar	Scattered development to Compact development; managing 86 paradigm shift in Urbanisation Policy in Kerala	International conference on Urban Planning and Property Development (UPPD 2015) by GSTF at Hotel Fort Canning, Singapore	5 – 6 th October, 2015
5	P P Anilkumar, Chithra K	Landuse based modeling of solid waste generation for sustainable residential development in small/medium scale urban areas	5 th International conference on Solid Waste Management at the Indian Institute of Science, Bangalore	24-27 th November 2015
6	P P Anilkumar, Chithra K	Municipal Solid Waste Management, a major impacted sector of urban environment due to residential landuse activities- Study of Kozhikode city	5 th International conference on Solid Waste Management at the Indian Institute of Science, Bangalore	24 - 27 th November, 2015
7	Amritha P K, P P Anilkumar	Development of Landscaped landfills using organic waste for Sustainable Urban waste Management	5 th International conference on Solid Waste Management at the Indian Institute of Science, Bangalore	24 - 27 th November, 2015

iii) National Conference

Sl. No	Name of the Author	Title of Paper	Name of National conference	Vol,Year, p.p
1	P P Anilkumar, Pradeep R	Inclusive Cities, Inclusive DCRs, Inclusive F.A.R. for ensuring inclusiveness of built up space through DRC	63 rd ITPI national Conference held at Chennai	9 - 11 th January 2015
2	Kasthurba A K	Preserving the Cultural identity of Historic urban cores: A case study of Kuttichira Muslim settlement in Calicut, Kerala	Re discovering cities NCRC-2015, organized at MM Univesity and IIA Chandigah, India	10-11 th April 2015
3	Kasthurba A K, Jeeja Menon	Innovative techniques in Masonry applications based on sustainable principles- Case studies	National conference on Technological for sustainable Infrastructure TISI 2015 held at NIT Calicut	13-14 th March 2015

b. Community Services:

Providing technical support for the development projects to Government School at Avala Kuttoth School.

c. Other Academic and Administrative Services

Sl. No	Name of Faculty	Academic and Administrative Services
1.	Dr. Naseer M A	<ul style="list-style-type: none"> - HOD - Member BoAC - Member In-house Construction Projects - Member Department Vigilance Committee - Member in Doctoral Committee - B Arch Program in charge - Member, Building works Technical Advisory Committee - Reviewed research papers for the International Journal "Building and Environment" published by Elsevier - Invited to review research paper for the Journal of Institution of Engineers (India) - Member of Doctoral Committee at National Institute of Technology Thiruchirappalli
2.	Dr. Kasthurba A.K.	<ul style="list-style-type: none"> - FA to 2014 Batch - Staff in Charge- CA Lab - NBA coordinator
3.	Dr. P. P. Anilkumar	<ul style="list-style-type: none"> - Member, IRCC - Ph. D Coordinator - Consultancy Coordinator - Staff in Charge- BS Lab - Reviewer for a number of International Journals published by UN Scholar One, Elsevier, Taylor and Francis etc.
4.	Ar. Chithra K.	<ul style="list-style-type: none"> - FA to 2005 & 2011 Batch - Faculty in charge – Literary & Debating Club, NITC - Member, Student Guidance Cell, Building works Technical Advisory Committee, Library advisory committee - Research Projects & Consultancy coordinator - DCC Secretary - Thesis Coordinator
6	Ar.Bimal P	<ul style="list-style-type: none"> - Faculty Advisor for 2009 & 2015 Admission - Hostel Warden - Faculty in-charge of IMD Lab - Faculty in-charge of Association of Student Architects, - Department Time Table in charge - ASA Faculty In charge - Staff in Charge- CAAD Lab

7	Dr. Mohammed Firoz C	<ul style="list-style-type: none"> - Staff in Charge-Workshop, Department Library - Jury Examination Coordinator - DSS Representative
---	----------------------	--

d. Consultancy and Testing

Sl. No	Nature of Service	Organization	Revenue earned	Status
1.	Acoustic design and Interior layout preparation for the Auditorium complex of Koyilandy Municipality.	Koyilandi Municipality	10 Lakhs	Completed

DEPARTMENT OF CHEMICAL ENGINEERING

a. Publications

b. Journals

Sl. No	Name of the Author	Title of Paper	Name of Journal	Vol., Year, p.p.
1	B. Deepanraj, V. Sivasubramanian, S. Jayaraj	Experimental and kinetic study on anaerobic digestion of food waste: The effect of total solids and pH, Energy –	Journal of Renewable and Sustainable	7(6) (2015) 063104
2	R. Sivashankar, A.B. Sathya, Uma krishnakumar, V. Sivasubramanian	Synthesis of Magnetic Biocomposite for Efficient Adsorption of Azo Dye from Aqueous Solution	Ecotoxicology and Environmental Safety	Vol.121, 2015, 149 - 153
3	Deepanraj, V. Sivasubramanian, S. Jayaraj	Kinetic Study on the Effect of Temperature on Biogas Production Using a Lab Scale Batch Reactor,–	Ecotoxicology and Environmental Safety	Vol.121, 2015, 100 – 104
4	M.Jerold, C.Vigneshwaran, V.Sivasubramanian	Macrophytes: A Potent Bio - Sorbent for the Sequestration of Heavy Metals,	International Advanced, Research Journal in Science, Engineering and Technology	2(10) (2015) 16-26
5	S.Bhuvaneshwari, N.Mohanraj, Murugan, Dr.V.Sivasubramanian	Equilibrium, Kinetics and Thermodynamic Studies for Adsorption of CR (VI) onto Natural Adsorbents,	International Advanced Research Journal in Science, Engineering and Technology	2(8) (2015) 78-91.
6	Shankar N., Aneesh V. and Sivasubramanian V	Aspen Hysys based Simulation and Analysis of Crude Distillation Unit	International Journal of Current Engineering and Technology	5(4) (2015) 2833-2837
7	R. Sivashankar, V. Sivasubramanian	, Adsorption of Organic Dye on to Novel Magnetic Biocomposite:	Kinetics and Equilibrium Studies, Res. J Chemistry Env.	19(6) (2015) 48-57
8	N. Minju, K. Venkat Swaroop, K. Haribabu, V. Sivasubramanian & P. Senthil Kumar	Removal of fluoride from aqueous media by magnesium oxide-coated nanoparticles,	Desalination and Water Treatment	53 (2015) 2905–2914.
9	Padmanaban V C, M.S.Giri Nandagopal Madhangi Priyadharshini.G , Maheswari.N , Janani Sree.G and N. Selvaraju	"Advanced Approach for Degradation of Recalcitrant by NanoPhoto catalysis Using Nano Composites and their Future Perspectives	International Journal of Environmental Science and Technology	13(2016) 1591-1606

10	Padmanaban V C, M.S.Giri Nandagopal Anant Achary,Vasudevan V N and N. Selvaraju	Optimization of radiolysis of Reactive red 120 dye in aqueous solution using ionizing 60Co gamma radiation by response surface methodology	Water Science and Technology (IWA Publishing Group,	Vol.73, issue 12, 2016, 3041- 3048
11	Aneesh V, Rahul Antony, Ganesh Paramasivan and N. Selvaraju	Distillation Technology and need of Simultaneous Design and Control:- A Review	Chemical Engineering and Processing: Process Intensification ()	Vol 104, June 2016, 219-242
12	Nidhin Sreekumar,M.S.Giri Nandagopal ,Rahul Antony, Aneesh V and N. Selvaraju	"Marine microalgal culturing in open pond systems for biodiesel production - critical parameters"	Journal of Renewable and Sustainable Energy (American Institute of Physics)	Vol. 8, April 2016, Issue 2, pp. 023105(1-18)
13	Nakkeeran E, Saranya N, M.S.Giri Nandagopal, Santhiagu A and N. Selvaraju	"Hexavalent chromium removal from aqueous solutions by a novel powder, prepared from Colocasia esculenta leaves	" International Journal of Phytoremediation	Vol. 18, Issue 8, August 2016, pp. 812-821
14	Nakkeeran E, Rangabhashiyam S, M.S.Giri Nandagopal, and N. Selvaraju	Removal of Cr(VI) from aqueous solution using Strychnos nux-vomica shell as an adsorbent. "	Desalination and Water Treatment	Vol.57, issue 50,2016, 23951 – 23964
15	Rangabhashiyam S, M.S.Giri Nandagopal ,Nakkeeran E, Keerthi.R and N. Selvaraju	Use of Box-Behnken design of experiments for the adsorption of Chromium using immobilized macroalgae"	Desalination and Water Treatment	Vol.57, issue 50,2016, 1 - 13
16	Aneesh V, Rahul Antony, M.S.Giri Nandagopal, Ganesh Paramasivan and N. Selvaraju	Resilient Controller Design Availing Recursive Technique Rooted Lyapunov Function for a Dynamic System	Microsystem Technologies	13(6),2016, 1591 – 1606
17	E.Suganya, Rangabhashiyam S, Lity Alen Varghese and N. Selvaraju	Removal of hexavalent chromium from aqueous solution by a novel biosorbent Caryota urens seeds:Equilibrium and kinetic studies	Desalination and Water	Vol.57, issue 50, 2016, 23940 - 23950
18	Hariharean Thangappan, Arjun V P, Shiny Joseph	Surface characterization and methylene blue adsorption studies on a mesoporous adsorbent from chemically modifies Areca triandra palm shell	Desalination and Water Treatment	Vol.57, issue 44, 2015, 21118 – 21129
19	M A Rao, MVP Kumar, TSNS Narayanan, SS Rao, N Narasiah	Failure analysis of a low pressure turbine blade in a coal based thermal power plant	Journal of Failure Analysis and Prevention	15(7), 750-7572015
20	M A Rao, MVP Kumar	An investigation of a Dryer can failure in a paper mill	Journal of Failure Analysis and Prevention	15(2),251-257 2015

ii. International Conferences

Sl. No	Name of the Author	Title of Paper	Name of International conference	Vol., Year
1	R.Sivashankar, Jimna George, A.B.Sathya V.Sivasubramanian,:	Magnetic Powder MnO ₂ @Sm composite – A Novel Material for Sequestration of Organic Dye from Aqueous Solution, Bioenergy and Green Technology	Challenges and Opportunities, KCET, Virudhunagar, Tamil Nadu	Feb 25-26, 2016.
2	A.B.Sathya, Chitra Sebastian, Aswani,R.Sivashankar, A.Santhiagu V.Sivasubramanian,	Production And Characterization Of Polyhydroxy Alkanates By Pseudomonas Aeruginosa, Bioenergy and Green Technology	Challenges and Opportunities , KCET, Virudhunagar, Tamil Nadu	Feb 25-26, 2016.
3	Nangarthody Sindhua, Prasanth N U, Sivasubramanian V	Kinetic Analysis and Modeling of Pyrolysis of Jack Wood Biomass	International Conference on Advances in Chemical Engineering, NITK Surathkal	December 20-22, 2015,
4	Sivasubramanian V	Production of dextran from sugarcane extract by Leuconostoc mesenteroides NCIM 2073,	Fourth International conference on Natural Polymers, BioPolymers, BioMaterials, their Composites, Nanocomposite Blends, IPNs, Polyelectrolytes and Gels: Macro to Nano Scales (ICNP – 2015), Mahatma Gandhi University, Kottayam, Kerala, India	April 2015
5	Sivasubramanian V	Production of Biopolymer Polyhydroxy Alkanate by Chlorella Pyrenoidosa, TC IFES 015:	International Conference on Technological convergence for Information, Health, Food and Energy Security, CLRI, Chennai, Tamil Nadu	May 2015
6	Sivasubramanian V	Influence of Apical Meristem and Chemotherapy on Production of Virus Free Sugarcane Plants, TC IFES 015:	International Conference on Technological convergence for Information, Health, Food and Energy Security, CLRI, Chennai, Tamil Nadu	May 2015
7	Vineesh Ravi, Shiny Joseph	'Influence of Feed Vapour Fraction on the Performance of Direct Methanol Fuel Cell	ICACE2015 , NITK Surathkal	December 21-22
8	Jaunty J, Abdul Vahid, Kevin Jones, Hariharan T, Shiny Joseph	Competitive adsorption of dyes from aqueous solution on coconut coir fibre activated carbon	ICACE2015 , NITK Surathkal	December 21-22
9	Aparna K, Abdul Jaleel	Identification of Benzene Toluene Distillation column using Neuro Fuzzy Algorithms	INDICON 2015	December 2015, New Delhi
10	Aparna K, Abdul Jaleel	Identification of Ethylene – Ethylene Distillation column using Neural network and ANFIS	ICICI-2015 , Kochi	September 2015

iii. **National Conference**

Sl. No.	Name of the Author	Title of Paper	Name of National Conference	Vol., Year
1.	Shankar N, V.Sivasubramanian	Simulation and Optimization of Crude oil Distillation using Aspen HYSYS,	National Conference on Innovative Eng. Technologies (IEEE), Christ University, Christ University, Kengeri, Bangalore	March 2016,
2.	Kanimozhi Jeyaram, S.Santhana Bharathi, I.Ganesh Moorthy, V.Sivasubramanian	Screening of Fermentation Factors for Dextran Production by Leuconostoc Sp using Statistical Designs, Bioenergy and Green Technology:	Challenges and Opportunities, KCET, Virudhunagar, Tamil Nadu –	Feb 25-26, 2016, Won the Best Paper Award.
3.	R.Sivashankar, Jimna George, A.B.Sathya, V.Sivasubramanian	Magnetic Powder MnOFe ₂ O ₃ @Sm composite – A Novel Material for Sequestration of Organic Dye from Aqueous Solution,	Bioenergy and Green Technology: Challenges and Opportunities, KCET, Virudhunagar, Tamil Nadu	Feb 25-26, 2016
4	A.B.Sathya, Chitra Sebastian, Aswani, R.Sivashankar, A.Santhiagu, V.Sivasubramanian	, Production and Charecterization of Polyhydroxy Alkanoates by Pseudomonas Aeruginosa,	Bioenergy and Green Technology: Challenges and Opportunities, KCET, Virudhunagar, Tamil Nadu	Feb 25-26, 2016,

c. **Community Services :**

Dr.Lity Alen Varghese- Ph.D Thesis Examiner
 Dr.V Sivasubramanian (Editor, Reviewer, - Ph.D Thesis Examiner)
 Dr.N Selvaraju (Reviewer, - Ph.D Thesis Examiner)
 Dr.Shiny Joseph (Reviewer)

d. **Other Academic and Administrative Services:**

Name of Staff	Academic and Administrative Services
Dr.Shiny Joseph	HOD, Purchase committee member, faculty Advisor, Faculty In charge – fluid mechanics lab
Dr.V.Sivasubramanian	Faculty advisor, Chairman, Purchase committee member, Chairman – S8 Project Review committee, Faculty In charge –Environmental Lab, Project guide
Dr.Lity Alen Varghese	Associate Dean – Academic, Purchase committee member, S7 class committee chairman, Faculty Incharge – Chemical technology Lab, Department students guidance cell coordinator, Project guide, Final year project coordinator
Dr.Aparna K	Faculty advisor, Library Incharge, LAC member, NBA representative, Project guide, Faculty Incharge – PDC Lab, Project guide for B.Tech, Ph.D
Dr.M.V.Pavankumar	Faculty Advisor, DCC secretary, Department PTA coordinator, Faculty Incharge – Mechanical operations lab, Project guide, Seminar course coordinator
Dr.N.Selvaraju	Deputy Chairperson – PG Admissions, Ph.D coordinator, Class committee chairman, faculty advisor, faculty Incharge – Mass transfer lab
Dr.S.Bhuvaneshwari	Faculty Advisor, Class committee chairman, Faculty Incharge – Research Lab, Department Training and placement Incharge, NBA – Member, Ladies Hostel Warden, Project guide, Department Time table Incharge
Mr.Vineesh Ravi	Faculty Advisor, Department Library Incharge, Project committee member, Faculty Incharge - Heat transfer, Project Guide, Department purchase coordinator
K.Haribabu	Faculty coordinator – DRAV'15 – Students Technical Fest,CHEA, EWB, Faculty Incharge – Students Activities, Chemical reaction Engineering Lab, Faculty Advisor, Project review committee member

e. Conferences/Summer/Winter School/Short term Courses/ Workshops conducted

Sl.No	Title	Coordinators	Duration & Period
1	DRAV – Students Technical Fest	Dr.K.Haribabu, Dr.M V Pavan Kumar	Feb 27-28
2	FDP-Novel Separation Technologies	Dr.N Selvaraju, Dr.S Bhuvanewari, Dr.Lity Alen Varghese	June 13-19, 2015

f. Expert lecturers delivered in Conferences/Seminar/workshops

Sl. No.	Name of Staff	Title of the Programme	Period	Organization
1	Dr.M V Pavan Kumar	Reactive Distillation: Design and Control	23 July 2015	College of Technology, Osmania University, Hyderabad
2	Dr.M V Pavan Kumar	Control of Solar Thermal Power Plants	10 May 2015	Mechanical Engineering, NITC
3	Dr.M V Pavan Kumar	Introduction to Chemical Process Control	20 Oct 2015	Vimal Jyothi Engineering College Kannur
4	Dr. N Selvaraju	National Meet for Research Scholars in Mechanical Engineering	July 2015	Mechanical Engineering NITC
5	Dr.N Selvaraju	Recent trends in wastewater management and scope of adsorbents in zero liquid discharge	June 2015	Environmental consultancy company Association of Kerala at Cochin
6	Dr.N Selvaraju	Modeling and Simulation Using MatLab in chemical and environmental engineering problems	May 2015	Mechanical Engineering NITC

g. Details of Faculty, who acquired Higher Qualification:

Dr.K Haribabu- Doctor of Philosophy

h. Participation in conferences/ Seminar/workshop/other training programmes:

Sl. No	Name of Staff	Title	Year
1	Dr.Lity Alen Varghese	Academic Leadership programme conducted by IIM, Kozhikode	22.06.15-27.06.15
2	Mr.Vineesh Ravi	ICACE2015, NIT Surathkal	December 21-22, 2015
3	Dr.Shiny Joseph	ICACE2015, NIT Surathkal	December 21-22, 2015
4	Dr.K Aparna	ICACE2015, NIT Surathkal	December 21-22, 2015

DEPARTMENT OF CIVIL ENGINEERING

(a) Publications:

(b) Journals

Sl. No.	Name of the Authors	Title of paper	Name of Journal/conference	Vol., Year, p.p.
1	Manjula N.K, N.Praveen, T.M.M. Pillai, S. Karthiga	On the relevance of Nonlinear Static Procedures for buildings with Vertically Asymmetric Setbacks”	Advances in Structural Engineering	Vol.19, 2016, 1009 – 1026

2	A.Balaji, M.Luquman N.Praveen, T.M.M. Pillai	"Studies on the behavior of Reinforced Concrete Short Column subjected to fire"	Alexandria Engineering Journal	Vol.55, 2016, 475 - 486
3	A.Balaji, M.LuqumanN. Praveen, T.M.M. Pillai	"Prediction of Response of Reinforced Concrete Frames Exposed to Fire"	Advances in Computational Design,	Vol.1, 2016, 105 – 117
4	Varghese, George K., Babu J. Alappat, and Muhammed Siddik Abdul Samad	"MT3DMS and Genetic Algorithm in Environmental Forensic Investigations"	Procedia Environmental Sciences	30 (2015): 85-90.
5	Samad, Muhammed Siddik Abdul, George K. Varghese, and Babu J. Alappat	Environmental Forensics in India–Four Years after the National Green Tribunal Act, 2010"	Procedia Environmental Sciences	30 (2015): 91-96.
6	Abey E T, Somasundaran T P and Sajith A S	"Selection of best suited structural system for bridges based on factorial analysis"	Proc. ICMSC, TKM College of Engineering,	Dec. 2015, 64 -67
7	Abey E T, Somasundaran T P and Sajith A S	"Abutment Modelling and its Effect in Seismic Response of Bridges"	International Journal of Earth Sciences and Engineering	Vol.9(1), 2016, 134 – 141
8	Abey E T, Somasundaran T P and Sajith A S	"A Study on Seismic Performance Enhancement in Bridges based on Factorial Analysis"	Earthquake Engineering and Engineering Vibration, Springer	Accepted
9	N. Ganesan, Sabeena and P.V.Indira	"Constitutive Behaviour of Confined Hybrid Fibre Reinforced HPC Under Uniaxial Compression"	Magazine of Concrete Research, ICE, London	Vol: 68, Issue: 1, January, 2016, pp.1-11. 2015
10	N.Ganesan, P.V.Indira and Seena	"Reverse cyclic tests on high performance cement concrete shear walls with barbells"	Advances in Structural Engineering: Materials, Springer	Vol.3, 2015, pp.2309-2321
11	N.Ganesan,P.V.Indira and Seena, P	"High Performance Fibre Reinforced Concrete Squat Shear Walls with Barbells"	The Indian Concrete Journal	No.4, Vol.89, April 2015, pp.41-51
12	N. Ganesan, P.V.Indira and Anjana Santhakumar	"Effect of Steel Fibres on Shear Strength of Geopolymer Concrete Beams"	Journal of Structural Engineering	Vol.41, No.6, Feb.- Mar, 2015, pp.575-582
13	N.Ganesan, Ruby Abraham and Deepa Raj	"Effect of Fibres on the Strength and Behaviour of GPC Columns"	Magazine of Concrete Research, ICE, London	Vol: 68, Issue: 2, January, 2016, pp.99- 106
14	N. Ganesan, Ruby Abraham, Deepa Raj and Divya Sasi	"Development of Stress Block Parameters for Geopolymer Concrete"	The Indian Concrete Journal	No.9, Vol.89, Sept. 2015, pp.47-58
15	N.Ganesan, Ruby Abraham and S.Deepa Raj	"Durability Characteristics of Steel Fibre Reinforced Geopolymer Concrete"	Construction and Building Materials, ELSEVIER	Vol.93,2015,pp.471-476

(i) **Conferences**

Sl. No.	Name of the Authors	Title of paper	Name of Journal/conference	Vol., Year, p.p.
1	Athira S, Chithra NR, and Santosh G Thampi	Estimation of probable maximum flood at the Peringalkuthu dam using CWC method and Snyder's method"	Proc. Second National Dam safety conference, IISc Bangalore, India	12-13 January 2016

2	Ansa Thasneem S, Santhosh G Thampi and Chithra N R	"Identification of the most sensitive parameters for assessment of the impact of climate change on stream flow in the Chaliyar river basin"	Proc. 28th Kerala Science Congress Calicut University	Jan 2016
3	Chithra N R, Santosh G Thampi, Dilber Shahul, Sankar Muralidhar, Upas Unnikrishnan and Akhil Rajendran K	"Change point analysis of air temperature in india"	Proc. Int. Conf. on Water Environment, Energy & Society-2016 , Organised by Texas A & M University, USA & AISECT University, Bhopal, India,	15-18 March, 2016
4	Dipty Sarin I, Rangaswamy K, & Chandrakaran S.	"Effect of confining stress and density on undrained response of soft clays"	Proc.2 nd International conference on emerging trends in Technology and applied sciences ,Kottayam,	April 30 to May 2, 2015
5	Rangaswamy K	"Geotechnical characterization of soft clay treated with bottom & fly ash mixture"	Proc.4 th Geochina international conference on sustainable civil infrastructures, Shandong, China,	July 25-27, 2016
6	Akhila M, RangaSwamy K and Sankar N.	"Earthquake analysis on liquefiable soil with building load"	Proc. International workshop on Deep Foundation technologies for infrastructure development in India, IISC Bangalore	28-30 September 2015.
7	Manicka Priya and Rangaswamy K.	"Compressibility and strength characteristics of soft clay treated with bottom ash"	Proc. Indian Geotechnical Conference IGC-2015, Pune.	Dec. 17-19, Paper No. 357, pp: 441 – 448
8	Rintoo Johnson and Rangaswamy K.	"Improvement of soil properties as a road base material using Nano-chemical solution"	Proc. Indian Geotechnical Conference IGC-2015, Pune.	Dec. 17-19, Paper Id. 379, pp: 363– 371
9	Muhammed Ashraf K, Arun Baby Zacharia, Harikrishna M and Anjaneyulu M. V. L. R.	"Estimation of roundabout capacity under heterogeneous traffic conditions"	Proc.3 rd Conference of Transportation Research Group of India (3rd CTRG)	December 17-19, 2015
10	Muhammed Ashraf K., Arun Baby Zacharia, Harikrishna M. and Anjaneyulu M V L R ,	"Capacity Estimation of Roundabouts in Heterogeneous Traffic Conditions"	Proc. Conf. on Transportation Systems Engineering and Management, (CTSEM 2015), NIT Trichy	May 01-02, 2015
11	Aswathy K.P., Harikrishna M. and Anjaneyulu M V L R ,	"Traffic Stream Characteristics on Two Lane Two Way Non-Urban Roads"	Proc. Conf. on Transportation Systems Engineering and Management, (CTSEM 2015), NIT Trichy	May 01-02, 2015
12	Ani K.S., Harikrishna M. and Anjaneyulu M V L R	"Analysis of Queue Discharge Characteristics at Signalised Intersections"	Proc. Conf. on Transportation Systems Engineering and Management, (CTSEM 2015) ,NIT Trichy	May 01-02, 2015
13	Srikanth K., Harikrishna M. and Anjaneyulu M V L R	"Evaluation of Robustness of a Road Network"	Proc. Conf. on Transportation Systems Engineering and Management, (CTSEM 2015) ,NIT Trichy	May 01-02, 2015

14	Duleep Janeiro J., Harikrishna M. and Anjaneyulu M V L R	"Mode Choice behaviour for Vegetable and Grocery Shopping in Calicut City"	Proc. Conf. on Transportation Systems Engineering and Management, (CTSEM 2015) ,NIT Trichy	May 01-02, 2015
15	Sheikh Khasim Peera., Harikrishna M. and Anjaneyulu M V L R	"Effect of Volume on Gap Acceptance Behaviour at Uncontrolled Intersections"	Proc. Conf. on Transportation Systems Engineering and Management, (CTSEM 2015) ,NIT Trichy	May 01-02, 2015
16	Avinash P., Athulya . S. George, Gopika Raveendran, George.K.Varghese	"Development of a risk based index for ranking landfills and its application in Kerala, India"	Proc. Society for Risk Analysis World Congress,Singapore	19-22 July 2015
17	George K. Varghese, Babu J. Alappat, Muhammed Siddik	"MT3DMS and Genetic Algorithm in Environmental Forensic Investigations"	iENFORCE 2015 University Putra Malaysia, KL,	19-20 August 2015
18	Muhammed Siddik, George K. Varghese, Babu J. Alappat	"Environmental Forensics in India –Four years after the National Green Tribunal Act, 2010"	iENFORCE 2015 University Putra Malaysia, KL,	19-20 August 2015
19	A P Shashikala, Anilkumar PM, George Joseph, Jestin John and Lijith K P	"Experimental Investigations on Use of Rubber Concrete in Railway Sleepers"	Proc. 2 nd R N Raiker Memorial International Conference on Advances in Science and Technology of Concrete, Mumbai	18-19 December 2015
20	Abey E T, Somasundaran T P and Sajith A S	"Modal Analysis and its Significance in Bridge Design"	Proc. 2nd International Conference on Emerging Trends in Technology and Applied Sciences (ICETTAS'15) ,Saintgits,	3-10, April 2015. ISBN 978-93-84743- 79-6
21	Abey E T, Somasundaran T P and Sajith A S	"Selection of best suited structural system for bridges based on factorial analysis"	Proc. ICMSC, TKM College of Engineering,	Dec. 2015
22	N.Ganesan, M.Nidhi and P.V.Indira	"Effect of Slab on Strength and Behaviour of Exterior RC Beam Column Joint"	2nd RN Raikar Memorial Intl. Conference & Banthia-Basheer Intl. Symposium on Advances in Science & Technology of Concrete, Organisedby India Chapter of ACI, The Lalit, Mumbai,	18 th & 19 th Dec. 2015, pp.528-533
23	M.Nidhi, N.Ganesan and P.V.Indira	"Effect of slab on the strength and behaviour of HPC interior beam column joint under reverse cyclic Loading"	Proc. UKIERI Concrete Congress Concrete Research Driving Profit and Sustainability, Dr B R Ambedkar National Institute of Technology Jalandhar, India	2 - 5 Nov. 2015, pp.2619-2631
24	R Sahana, N. Ganesan and P.V. Indira	"Mechanical properties of geopolymers concrete under ambient and steam curing"	Proc. UKIERI Concrete Congress Concrete Research Driving Profit and Sustainability, Dr B R Ambedkar National Institute of Technology Jalandhar, India	2 - 5 Nov. 2015pp. 308-322
25	Dr. Pramada S K and Anjana T R	"Modeling Leachate Migration"	Proc. Int. Conf. on Water, Environment, Energy and	ICWEES-2016), March 15-18 2016,

			Society	AISECT university, , Bhopal, India
26	Chandrakaran.S., Anil Joseph and Sanker .N	“Ground improvement method using lime fly ash column method”	Proc. Second Int. Conf. on Soft ground improvement	Vol 1 pp-76-80, 2016
27	Ansu V, Jijo V Manohar & Anjaneyulu M. V. L. R	“Determination of the latent variables of mode choice for fish transport”	Proc.3 rd Conf. of Transportation Research Group of India, Kolkata	17-20 Dec., 2015
28	Anjana Sadanandan & Anjaneyulu M.V.L.R	“Development and application of safety performance functions for urban uncontrolled intersections”	Proc.3 rd Conference of Transportation Research Group of India (3 rd CTRG), Kolkata	17-20 Dec., 2015
29	Anitha Jacob & Anjaneyulu M.V.L.R.	“Geometric Design Consistency and Safety Evaluation of Combined Curves on Two-Lane Rural Highways”	Proc.3 rd Conference of Transportation Research Group of India (3 rd CTRG), Kolkata	17-20 Dec., 2015
30	Anju KR, Anjaneyulu M.V.L.R.	“Effects Of Village/Town Characteristics On Travel Attributes”	Proc. Conf. on Transportation Systems Engineering and Management, (CTSEM 2015) , NIT Trichy.	May 01-02, 2015
31	Ansu V, Jijo V Manohar, Anjaneyulu M.V.L.R.	“Determination Of The Latent Variables Of Mode Choice For Vegetable Transport”	Proc. Conf. on Transportation Systems Engineering and Management, (CTSEM 2015) , NIT Trichy.	May 01-02, 2015
32	Darshan R, Anjaneyulu M.V.L.R.	“Continuum Modelling Approach For Traffic Stream Models”	Proc. Conf. on Transportation Systems Engineering and Management, (CTSEM 2015) , NIT Trichy.	May 01-02, 2015
33	Geethu Ashok, Sivakumar B, Krishnamurthy K, Anjaneyulu M.V.L.R	Estimation Of WillingnessTo Pay Value For Crash Reduction	Proc. Conf. on Transportation Systems Engineering and Management, (CTSEM 2015) , NIT Trichy.	May 01-02, 2015
34	Indhu Siharthan, DevikaBabu, Anjaneyulu M.V.L.R.	Travel Behaviour Modelling Of Workers Incorporating Household Interactions	Proc. Conf. on Transportation Systems Engineering and Management, (CTSEM 2015) , NIT Trichy.	May 01-02, 2015
35	Neena M Joseph, Anjaneyulu M.V.L.R.	Use Of Speed Variations In Crash Modelling On Urban Road	Proc. Conf. on Transportation Systems Engineering and Management, (CTSEM 2015) , NIT Trichy.	May 01-02, 2015
36	Santo Oommen Alexander, Anjaneyulu M.V.L.R.	Trip Attraction Characteristics Of Special Generators - Regional Office Complex	Proc. Conf. on Transportation Systems Engineering and Management, (CTSEM 2015) , NIT Trichy.	May 01-02, 2015
37	Sikha P, Sivakumar B, Krishnamurthy K, Anjaneyulu M.V.L.R	Cost Analysis Of Road Traffic Crashes Based On Human Capital Approach	Proc. Conf. on Transportation Systems Engineering and Management, (CTSEM 2015) , NIT Trichy.	May 01-02, 2015
38	Ansu V., Jijo.V.M., and Anjaneyulu M.V.L.R	“Underlying Structure of the Mode Choice Variables of Domestic Transport of Fruits”	Proc. Transportation Young Researchers Symposium (TYReS 2015), National Institute of Technology Warangal,	May 10-15, 2015

Books published:

- Dr. George K Varghese: Environmental Engineering Laboratory manual (For in house use)
- Dr. N Ganesan: Recent Advances in Structural Engineering – Contributed one chapter on Ferrocement, Universities Press, 2005

Awards:

- Dr. S Chandrakaran & Miss KALYANI Krishna received best paper Award given by IGS –AISAT for the best M.Tech Thesis in geotechnical engineering

MOUs:

- Dr. Anjaneyulu M V L R (2014): Signed MoU with CSIR-Central Road Research Institute, New Delhi
- Dr. Anjaneyulu M V L R (2014): Signed MoU with National Transportation Planning and Research Centre, A Research Institution of Kerala State Council for Science, Technology & Environment, Trivandrum

(b) Community services

Dr. George K Varghese:

- As NSS coordinator, completed the construction of a house for a desolate cancer patient living near campus
- Motivation classes at GHS Karuvampoyil for the 10th Standard students about the different streams in Engineering and the opportunities in engineering field to build a career (Jan 2016)

Dr. M V L R Anjaneyulu:

- Member, Road safety council, Kozhikode district
- Expert advice on “Planning of an efficient and effective city bus transportation system for Calicut urban area”, Regional Town & Country Planning Office, Kozhikode
- Expert advice on “Preparation of Trip Generation Manual for Kerala state”, Regional Town & Country Planning Office, Kozhikode

(c) Other Academic and administrative services

Name of Faculty	Academic and administrative services
Dr. N. Ganesan	<ul style="list-style-type: none"> • Member in many of the Doctoral Committees • Member of Senate of NITC • Programme co-ordinator, M.Tech (Structural Engg.), 2013 admission • Professor In-charge of Departmental security
Dr. V Mustafa	<ul style="list-style-type: none"> • Chairman/Member in many of the Doctoral Committees • Member of Senate of NITC
Dr. T P Somasundaran	<ul style="list-style-type: none"> • Chairman Institute Canteen Committee • Member of Senate of NITC • Member, Buildings and Works committee, Central University of Kerala, Kasargod, Kerala • Member, Buildings and Works committee, Malayalam University, Tirur, Kerala
Dr. S. Chandrakaran	<ul style="list-style-type: none"> • Dean (Planning and Development), NIT Calicut • Expert member of TRDM to review water shed projects submitted to Govt. of Kerala • Member of Senate of NITC • Member in many of the Doctoral Committees • Reviewer of Indian Geotechnical Journal • Reviewer of Journal of structural engineering • Reviewer of International journal of geotextiles and geomembranes
Dr. T Zacharia Varghese	<ul style="list-style-type: none"> • Faculty adviser for students of B.Tech (Civil) 2013 Admission • Member of Senate of NITC • I/C of strength of materials, concrete and structural engg. Lab. • Faculty in charge of ICI Students Chapter, NITC
Dr. J Sudhakumar	<ul style="list-style-type: none"> • Member of Senate of NITC
Dr. N Sankar	<ul style="list-style-type: none"> • I/C of Geotechnical Engineering Lab. • Member of Senate of NITC • Chairman examination vigilance committee • Member in many of the Doctoral Committees • Coordinator of M.Tech programme in Environmental Geotechnology
Dr. M V L R Anjaneyulu	<ul style="list-style-type: none"> • Head of the Department, Department of Civil Engineering • Head, Centre for Transportation Research

	<ul style="list-style-type: none"> • Member of Senate of NITC • Coordinator of M.Tech programme in Traffic and Transportation planning • Coordinator, State Technical Agency, Pradhan Mantri Gram Sadak Yojana, National Rural Roads Development Agency • Member, Advisory Committee, Centre of Excellence in Transportation Engineering, National Institute of Technology, Trichy • Member (AICTE Nominee), Board of Governors, Government Engineering College Wayanad • Member, Consultative Committee, Transportation Research Centre, College of Engineering, Trivandrum
Sri K Saseendarn	<ul style="list-style-type: none"> • I/C of Geotechnical Engineering Lab. - assistant • Department Secretary
Dr. Mohammed Ameen	<ul style="list-style-type: none"> • Member of Senate of NITC • Member of the Library Advisory Committee of NITC
Dr. P V Indira	<ul style="list-style-type: none"> • Coordinator, Centre for Continuing Education • Member of Senate of NITC • Member in many of the Doctoral Committees • Faculty adviser for students of B.Tech (Civil) 2015 Admission • PhD Programme Coordinator of the Department • Chairperson Internal Complaints Committee • Purchase committee member • Member of the Board of Examiner for Evaluating Ph. D Thesis for Anna University Chennai, Kerala University, JNTU Hyderabad etc
Dr. A P Shashikala	<ul style="list-style-type: none"> • Dean (Academic) • President of Civil Engineering Association • I/C Offshore Engineering Lab • Member of Senate of NITC • PG Programme Coordinator 2014 Admissions • Faculty adviser for students of B.Tech (Civil) 2014Admission • Member in many of the Doctoral Committees, DCC, DPC
Dr. T M Madhavan Pillai	<ul style="list-style-type: none"> • Head, Centre for Bio-Mechanics • Adviser, (WS & FS, Weaker students & Foreign Students), NITC • Coordinator SC/ST cell of the Institute, NITC • Programme co-ordinator, M.Tech (Structural Engg.), 2014 admission • Member of Senate of NITC • Departmental information facilitation in-charge for Annual Report etc • Faculty Advisor for Civil batch 2015 • Member of Building Works Technical Advisory Committee (BWTAC) of the Institute since 25/05/2012 • Member of the Board of Examiner for Evaluating Ph. D Thesis for Kerala University • Reviewer of International Journal of Structural Engineering and Mechanics, Journal of Structural Engineering, International Journal of Ocean Engineering, The Icfai University Journal of Structural Engg, International Journal of Construction and Building Materials
Dr. Santosh G Thampi	<ul style="list-style-type: none"> • Member in many of the Doctoral Committees
Dr. K Sasikumar	<ul style="list-style-type: none"> • Faculty adviser for students of B.Tech (Civil) 2012 admissions
Dr. Sajith A S	<ul style="list-style-type: none"> • Faculty Adviser 2012 Admissions (Civil) • Lab in charge UG CAD Lab, CED • Department Academic coordinator, TEQIP • Convener, Academic Reforms Committee(ARC) of NITC
Dr. Praveen Nagarajan	<ul style="list-style-type: none"> • Faculty adviser for students of B.Tech (Civil) 2012 Admissions • Co-cordinator, Dept. consultancy projects • I/C of Examinations
Dr. George K Varghese	<ul style="list-style-type: none"> • Faculty adviser for students of B.Tech (Civil) 2015 Admission • Programme coordinator, NSS Cell • Lab-in charge, Environmental Engineering Lab • Warden, A Hostel • Member, Anti-Ragging Empowered Committee • Secretary, NITC Nursery Managing Committee • Member, NITC Green Mission • Member, Spring Valley School Managing Committee

Dr. Harikrishna M	<ul style="list-style-type: none"> • Deputy Chairperson, UG Admissions, NITC. • Assistance to Faculty i/c in Time table and Room allotment - 01-08-2012 to date • Member – Institute level Anti-ragging Empowered Committee, NIT Calicut • Faculty Advisor 2012 Admission batch • Faculty Co-ordinator - Student Guidance Cell- NIT Calicut – November 26, 2013- till date • Staff Editor, Institute Magazine – September 2013 – till date • Member, Central Library Advisory Committee • Nodal Officer for Equity Action Plan of TEQIP- Phase – II
Ms.Chitra N R	<ul style="list-style-type: none"> • Faculty mentor, Student Affairs Committee (SAC) • Library Advisory Committee (LAC) member for department
Dr. K Rangaswamy	<ul style="list-style-type: none"> • Faculty Advisor – 2010 admission • I/C of Geotechnical Engineering Lab
Dr. K Krishna Murthy	<ul style="list-style-type: none"> • Associate Dean (Planning and Development) • Programme Coordinator, M.Tech Traffic And Transportation Planning, 2014 Batch • Faculty Advisor, First Year B.Tech Civil, 2014 batch
Sri. M Sivakumar	<ul style="list-style-type: none"> • Faculty Advisor for Civil batch 2015
Dr. Mini Ramanan	<ul style="list-style-type: none"> • Faculty Advisor for Civil batch 2012 • Asst. Lab in charge of Strength of Materials Lab, Concrete Lab and Structures Lab
Dr. D Sathish Kumar	<ul style="list-style-type: none"> • Faculty Advisor for Civil batch 2011 • Vice-President of Civil Engineering Association
Dr. Pramada S K	<ul style="list-style-type: none"> • Faculty Advisor for Civil batch 2012 • I/C of Seminar Labrary • i/c Exam -Second i/c • Warden-LH

(d) Conferences/Summer/Winter Schools/ Short term Courses/Workshops Conducted:

SI No	Name of Staff	Title of the Programme	Organisation
1	Dr. Harikrishna M Dr. M V L R Anjaneyulu	Short - term Training programme on 'Choice Modelling'	Centre for Transportation Research, CED at National Institute of Technology Calicut from March 10 - 12, 2016
2	Dr. Harikrishna M Dr. M V L R Anjaneyulu	Two day hands – on Training Programme on Transportation Planning software	Centre for Transportation Research, CED at National Institute of Technology Calicut from April 25 - April 26, 2015
3	Dr. George K Varghese	3 day training program on Instruments for Environmental Quality Assessment (IEQA-2015)	NIT Calicut from 19 th to 21 st November, 2015
4	Sri. M Sivakumar Dr. M V L R Anjaneyulu	Two day workshop on "Alternative Materials and New Technologies for Rural Road Construction"	NIT Calicut from 20 th to 21 st July, 2015
5	Sri. M Sivakumar Dr. M V L R Anjaneyulu	Two day workshop on "Alternative Materials and New Technologies for Rural Road Construction"	NIT Calicut, April 10 – 11, 2015
6	Sri. M Sivakumar Dr. M V L R Anjaneyulu	Two day workshop on "Alternative Materials and New Technologies for Rural Road Construction"	NIT Calicut, October 06 – 07, 2015
7	Dr. A P Shashikala	ICI Fest "16 organized by NIT Calicut and Indian Concrete Association Calicut Chapter	12-13 March 2016, NIT Calicut
8	Dr. N Ganesan	Two days workshop on Retrofitting of RCC structures under distress	14 th & 15 th Nov 2015
9	Dr. M V L R Anjaneyulu	3 day training programme on "Transportation Systems Simulation"	February 4-6, 2016 at NITC
10	Dr. M V L R Anjaneyulu	5 day training programme on "Highway Design & Safety"	30th November - 4th December, 2015 at NITC

(e) Expert Lectures delivered in Conferences/Seminars/Workshops

Sl. No	Name of Staff	Title of the Programme	Organisation
1	Dr. Harikrishna M	"Theories of Choice Behaviour" in Short - term Programme on 'Choice Modelling'	National Institute of Technology Calicut from March 10-12, 2016.
2	Dr. Harikrishna M	"Data Requirements for Choice Models" in Short - term Programme on 'Choice Modelling'	National Institute of Technology Calicut from March 10-12, 2016.
3	Dr. Harikrishna M	"Goodness-of-fit Measures for Choice Models" in Short - term Programme on 'Choice Modelling'	National Institute of Technology Calicut from March 10-12, 2016.
4	Dr. Harikrishna M	"Mixed Logit Models" in Short - term Programme on 'Choice Modelling'	National Institute of Technology Calicut from March 10-12, 2016.
5	Dr. Harikrishna M	"Pedestrian Safety Measures" in Short term Programme on 'Highway Design and Safety'	National Institute of Technology Calicut from November30–December 04, 2015
6	Dr. Harikrishna M	"Bicycle Facilities" in Short term Programme on 'Highway Design and Safety'	National Institute of Technology Calicut from November30–December 04, 2015
7	Dr. Harikrishna M	"Safety Evaluation of Rural Highways" in Short term Programme on 'Highway Design and Safety'	National Institute of Technology Calicut from November30–December 04, 2015
8	Dr. Harikrishna M	"Geographical Information Systems in Transportation Research" in Short term Programme on 'Recent Advances in Transportation Engineering'	Government College of Engineering, Thrissur, Kerala on 8 th October 2015
9	Dr. P V Indira	Two day Workshop on " Retrofitting of RCC Structures Under Distress"	14 th and 15 th November 2015, TEQIP II Sponsored
10	Dr. N Ganesan	Keynote address on "Ferrocement - An Ideal Material for Retrofitting of Structural Members under Distress" at FS 2015-Third National Convention on "Ferrocement - Infra and Housing"	Ferrocement society at Pune, 27-29 Nov 2015
11	Dr. N Ganesan	Keynote paper in the International Conference on "Innovative Trends in Civil Engineering for Sustainability"	8 th and 9 th January 2016 at Toc H Institute of Science and Technology, Ernakulam
12	Dr. N Ganesan	Keynote paper in the 3rd National Conference on Emerging Trends in Engineering, (NET 2015)	30 th and 31 st of October 2015 at Govt. Engineering College, Kozhikode
13	Dr. N Ganesan	Keynote lecture and chaired the Civil Engineering session in the International Conference on New Frontiers in Science, Engineering and Technology (ICNFSET'15)	AWH Engineering College, Kozhikode on 8 th and 9 th of October 2015
14	Dr. George K Varghese	Keynote lecture on Water and Job in the World water day 2016 Celebrations	Federal Institute of Science and Technology, Angamaly (March 22)
15	Dr. George K Varghese	Keynote lecture on Environmental Regulations in India- Trends and Challenges in the National Conference on Recent Trends in Civil and Sustainable Engineering	UKF College of Engineering and Technology, Parippally, Kollam (31/03/2016)
16	Dr. George K Varghese	"Atomic Absorption Spectrometry" in the training programme on Instruments for Environmental Quality Assessment	NIT Calicut ,19 th November 2015
17	Dr. George K Varghese	"Water quality: An Indian scenario" in the training programme on Water Pollution: Contaminant Quantification and Treatment	Vimal Jyothi Engineering College, Chemperi, Kannur, (4/12/2015)
18	Dr. George K Varghese	"Risk based approach to environmental decision making" in the training programme on Advanced techniques for sustainable water resources and environmental management	TKM College of Engg., Kollam, (18 th February 2016)

19	Dr. A P Shashikala	"Modern trends in concrete Technology", two day workshop on "Prefabrication Techniques in Concrete Technology"	College of Engg., Vatakara on in association with the Institution of Engineers (India), 1 st and 2 nd March, 2016
20	Dr. Pramada S K	Chaired a session in an international conference on "Water , Environment, energy and society"	Organized by AISECT university , Bhopal and Texas A & M University, USA AISECT university , Bhopal, March 15-18, 2016
21	Dr. M V L R Anjaneyulu	Delivered an expert lecture on "Design of Flyovers and Intersections" at "Design, Construction, Maintenance And Management Of Urban Roads"	Department of Civil Engineering, R.V. College of Engineering, Bengaluru, for engineers of Engineers of Bruhat Bengaluru MahanagaraPalike., February12, 2016
22	Dr. M V L R Anjaneyulu	Delivered an expert lecture on "Geometrics for Urban Roads" at "Construction and Maintenance of Flexible Pavements"	Department of Civil Engineering, R.V. College of Engineering, Bengaluru, for engineers of Bangalore City Corporation, January 29, 2016.
23	Dr. M V L R Anjaneyulu	Delivered an expert lecture on "Design of Links for Safety" at "Road Safety Engineering"	Department of Civil Engineering, R.V. College of Engineering, Bengaluru, for engineers of Karnataka Public Works Department, November 6, 2015
24	Dr. M V L R Anjaneyulu	Delivered an expert lecture on "Design of Intersections for Safety" at "Road Safety Engineering"	Department of Civil Engineering, R.V. College of Engineering, Bengaluru, for engineers of Karnataka Public Works Department, August 28, 2015
25	Dr. M V L R Anjaneyulu	Chaired the Technical Session on "Transportation Planning", 2nd Conference on Transportation Systems Engineering and Management (CTSEM)	National Institute of Technology, Tiruchirappalli, May 1-2, 2015
26	Dr. M V L R Anjaneyulu	Delivered an expert lecture on "Design of Links and Intersections for Safety" at "Road Safety Engineering"	Department of Civil Engineering, R.V. College of Engineering, Bengaluru, for engineers of Karnataka Public Works Department, August 19, 2015

(f) Details of Faculty, who acquired Higher Qualification:

Mrs. Chithra N R: Doctor of Phylosophy, National Institute of Technology, Calicut

(g) Consultancy and testing

Sl. No.	Client/Organisation	Revenue Earned (INR)	Status
1	Town Planner, Regional town&country Planning office, Kozhikode	3,50,000	Completed
2	Airport Authority of India, Calicut International Airport, Calicut Airport PO	44,944	Completed
3	Exe. Engineer, NH Division, PWD Complex, Mananchira	16,854	Completed
4	Office of the executive Engineer, Calicut Central Division, MS Baburaj Road, Kallai.	16,854	Completed
5	Central PWD, Office of the Executive Engineer, Calicut Central division, M. S. Baburaj Road, Kallai	16,854	Completed
6	Kannur International Airport Ltd., Registered Office, Parvathy T.C 36/1, Chacka, NH Bypass, Thiruvananthapuram 695 624	28,500	Completed
7	Mr. Abdul Sathar, Managing Director, Technospan Structures Pvt. Ltd., No.5, Second Floor, A V Bureux, Green Layout, Bangalore.	1,14,000	Completed
8	V. R. Mahadevan, Managing Director, MRG Builders Pvt. Ltd., Thrissur	51,300	Completed
9	KSEB Ltd., Office of the Chief Engineer(Civil construction), North, Vydhuthi Bhavanam, Gandhi Road, Calicut	22,800	Completed
10	Hindustan Profab Ltd, Thycaud, Trivandrum	3,64,800	Completed
11	Programme Implementation Unit, Palakkad, Executive Engineer, PMGSY Programme implimentation Unit.	1,14,000	Completed
12	Department of post Civil, Office of the Executive Engineer,	40,000	Completed

	Postal civil Division, Manacaud P.O		
13	Shrikhande Constructions, KCRIP Phase IA Project Marathuparambu, chevayur, Calicut 673 017	9,618	Completed
14	Mr.chandramohan .V, Project Manager, POABS Ready Mix Concrete, Vattiyookavu, Trivandrum.	11,450	Completed
15	The ULCCS, Madappally College P.O, Vatakara, Kozhikode, Pin 673 102	34,350	Completed
16	Office of the executive Engineer, Harbour Engineering Division, Kozhikode, Puthiyappa.	85,875	Completed
17	Total amount for consultancy carried out during 2015-2016	13,22,199	
	Total amount for testing carried out during 2015-2016	11,06,727	Completed
	Grand Total	24,28,926	

(h) Participation in Conferences/Seminars/Workshops/other Training programmes

Sl. No	Name of Faculty	Title of the Programme	Duration and Period	Organisation
1	Dr. Chithra N R	International Conference on Water Environment, Energy & Society-2016	15-18 March, 2016	Texas A & M University, USA & AISECT University, Bhopal, India
2	Dr. George K Varghese	Society for Risk Analysis (SRA) World Congress, Singapore,	19-22 July 2015	Society for Risk Analysis (SRA) World Congress, Singapore,
3	Dr. George K Varghese	iENFORCE 2015, University Putra Malaysia, KL	19-20 August 2015	iENFORCE 2015, University Putra Malaysia, KL
4	Dr. Pramada.S.K	International conference on Water, Environment, Energy and Society (ICWEES-2016)	March 15-18 2016	Organized by AISECT university, Bhopal in association with Texas A& M university, USA
5	Dr. M.VL.R.Anjaneyulu	2ndConference on Transportation Systems Engineering and Management (CTSEM)	May 1-2, 2015	National Institute of Technology, Tiruchirappalli

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

a. Publications

b. Journals

Sl No	Name of the Author	Title of Paper	Name of Journal	Vol., Year, p.p.
1	Anita Brigit, M, MadhuKumar SD.	Novel Research Framework on SN's NoSQL Databases for Efficient Query Processing.	Inderscience International Journal of Reasoning-based Intelligent Systems.	Vol.3, No.3/4, 2015, 330 -338
2.	Shabana, KM, Abdul Nazeer KA, Pradhan M, Palakal M. 2015.	A computational method for drug repositioning using publicly available gene expression data.	BMC Bioinformatics	16 (Suppl 17): S5
3	Shabeera, TP, MadhuKumar SD.	Optimizing Virtual Machine Allocation in MapReduce Cloud for improved Data Locality.	Inderscience International Journal of Big Data Intelligence (IJD).	Vol.2 No.1 ch 2015
4	Narayanaswamy, NS, Subashini R.	Obtaining Matrices with the Consecutive Ones Property by Row Deletions	Algorithmica	2015. 71(3):758-773.
5	Subhasree Methirumangalath, Amal Dev Parakkat and Ramanathan Muthuganapathy	A unified approach towards reconstruction of a planar point set	Computers & Graphics	51:90-97, 2015.
6	Vankudothu Ramesh, Sreenu Naik B	EEL-AODV: Energy Efficient Load Balancing Ad Hoc On-demand Distance Vector	"International Journal of Innovative Research in Computer and	Vol. 3, Issue 9, September 2015

		Routing Protocol	Communication Engineering (An ISO 3297: 2007 Certified Organization)	
7	P. B. Jayaraj, Ajay mathias, M. Nufail, G. Gopakumar and U. C Jaleel	GPURFSCREEN: A GPU based virtual screening tool using Random Forest Classifier”,	International Journal of Cheminformatics (2016),	8:12, DOI 10.1186/s13321-016-0124-8

ii. International Conferences

Sl. No.	Name of the Author	Title of Paper	Name of International conference	Vol., Year, p.p.
1	Jeethu V. Devasia and Priya Chandran,	Who are the key players behind a disease state?": Outcomes of a new computational approach on cancer data	International Conference on Bioinformatics and Systems Biology (BSB-2016)" at Indian Institute of Information Technology-Allahabad (IIIT-A)	2016
2	Abin, JG, Gopakumar G, Pradhan M, AbdulNazeer KA, Palakal M.	A Self Organizing Map-Harmony Search Hybrid Algorithm for Clustering Biological Data.	IEEE International Conference on Signal Processing, Informatics, Control and Energy Systems Calicut India	2015
3	Nimish, J, Gopakumar G, Meeta P, AbdulNazeer KA, Palakal M.	Understanding SNP-Gene Associations in Pancreatic Cancer: A Systems Biology Approach.	IEEE International Conference on Signal Processing, Informatics, Control and Energy Systems, , Calicut India	2015
4	Binesh, J, MadhuKumar SD	Telecom grade cloud computing: Challenges and opportunities,	IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems (SPICES). , Calicut India	Feb 2015
5	Shilpa, P, MadhuKumar SD.	Feature Oriented Sentiment Analysis in Social Networking Sites to Track Malicious Campaigners,	Third edition of the International Conference on Recent Advances in Computational Systems (IEEE RAICS-2015). , Trivandrum	December 2015
6	Amritapatole, MadhuKumar SD, Chandran P, Shabeera TP	Load-Aware Replica Placement in Multiuser Hadoop Environment Using MST	Third edition of the International Conference on Recent Advances in Computational Systems(IEEE RAICS - 2015). Trivandrum	8 th December2015,
7	AnuMary, C, AjeebBasheer M, MadhuKumar SD.	Capturing Provenance for Big Data Analytics done Using SQL interface	IEEE UP Section Conference on Electrical, Computer and Electronics (IEEE UPCON2015). , Allahabad	4 th December 2015
8	AnitaBrigit, M, MadhuKumar SD.	Analysis of Data Management and Query handling in Social Networks using NoSQL Databases.	Fourth International Conference on Advances in Computing, Communications and Informatics (ICACCI-2015) (Accepted). Cochin, India: IEEE Explore	August 2015
9	Jimmy Jose, Dipanwita Roy Chowdhury	Four Neighbourhood Cellular Automata as Better Cryptographic Primitives”, AUTOMATA	21st International Workshop on Cellular Automata and Discrete Complex Systems, Turku, Finland,	8-10 th June , 2015, TUCS Lecture Notes, No. 24, pp. 74-82,

10	V R Deepthi and G Gopakumar,	Clustering of Protein-Protein Interaction Network Using Fractal Dimension of Protein Subnetworks, in TENCON 2015	IEEE Region 10 Conference	vol., no., pp.1-5, 1-4 Nov. 2015 doi: 10.1109/TENCON.2015.7372789
----	------------------------------	--	---------------------------	---

c. Community Services

Extended IT Support to NIRAVU, a Calicut based Residential Forum, to promote Organic Farming (IT@Niravu Project)

- Developed a web-portal on Agricultural Information
- Conducted Workshop for the rural youth on Android Application Development

d. Other Academic and Administrative Services

Name of Staff	Academic and Administrative Services
Dr. K A Abdul Nazeer	<p>Institute Level:</p> <ul style="list-style-type: none"> (ii) Administrative responsibility of CNC/CCC (as HoD, CSED) (iii) Convener, Screening Committee for Student Research Projects (for the award of financial assistance under TEQIP) (iv) Member, Anti Ragging Committee (v) Member, BOAC (vi) Invitee to the Senate <p>Dept. Level :</p> <ul style="list-style-type: none"> (i) Head of the Department (ii) Faculty in charge, Machine Learning Lab (iii) Faculty in charge, Big Data and Biocomputing Lab
Dr. Govindan V K	<p>Institute Level:</p> <ul style="list-style-type: none"> (i) Dean(Academic) (ii) Member-Senate (iii) BOAC Chairman, (iv) PTA President (v) IEEE SPICES Track Chair <p>Dept. Level:</p> <p>Faculty-in charge of Image Processing and Multimedia Lab</p>
Dr. Vineeth Paleri	<p>Institute Level:</p> <ul style="list-style-type: none"> (i) Central Library- LAC Member (ii) Secretary, Technology Business Incubator, NIT Calicut. <p>Dept. Level :</p> <ul style="list-style-type: none"> (i) Faculty in charge, NBA Accreditation (ii) Faculty Adviser , Ph.D (iii) Faculty in charge Examinations (iv) Programme Co-ordinator Ph.D. (v) In-charge of Faculty research (vi) Faculty in charge of CSED Website
Dr Priya Chandran	<p>Programme Co-ordinator, M. Tech(CSE) and M. Tech(CSE(IS)), Member of Senate Chairperson/ Member of several doctoral committees.</p> <p>Dept. Level :</p> <ul style="list-style-type: none"> (i) Faculty Adviser, B. Tech IV Year(2012 Admissions) (ii) Faculty in charge Secure Computing Lab (ii) Programme Co-ordinator M.Tech (CS) and CS(IS) (iii) In-charge of Faculty research (iv) Faculty in charge of Academic calendar Monitor (v) IEEE SPICES Track Chair (vi) Faculty in charge of Technical Report Publishing
Dr. S.D Madhu Kumar	<ul style="list-style-type: none"> i. Member- Institute Research Committee and PTA Secretary ii. Vice Chair- ACM Trivandrum Professional Chapter iii. IEEE Malabar Subsection- Publications and Web Support Chair

	<ul style="list-style-type: none"> iv. ACM DEBS 2014- Publicity Co-chair v. ACM SAC 2014 Cloud Computing Track co-chair vi. IEEE International Conference- Recent Advances in Intelligent Computing Systems (RAICS 2013)- Big Data Track co-chair vii. National Conference on Emerging Trends in computing (NCETIC 13)- Advisory Committee viii. ADCONS'13 NITK- TPC Member ix. International Workshop on Service- Oriented Architecture and Cloud Computing (SOAC-2013)- Program Chair x. ACM Goa Workshop on software Engineering- TPC member xi. International workshop on Virtualization and Cloud Computing (IWVCC 2014)- TPC Member xii. Organizing Chair, IEEE SPICES Conference-2015. xiii. Faculty in charge of CSEA iv Faculty in charge of Cloud Computing Lab
Dr. Muralikrishnan K	<ul style="list-style-type: none"> (i) Faculty Adviser, II Year B.Tech. (2013 admission) (ii) Faculty in charge, Examinations (iii) B.Tech Programme Coordinator
Dr. Vinod Pathari	<p><u>Institute Level:</u> Vice Chairman, Education Technology and Library</p> <p><u>Dept. Level:</u></p> <ul style="list-style-type: none"> (i) Faculty Adviser, B. Tech I Year (2015 Admissions) (ii) Faculty in charge , Student Project Archive (iii) Faculty in charge, Purchase Matters (i) In-charge of Faculty research (iv) Faculty in charge, Technical Report Publishing (v) Faculty in charge, Software Systems Laboratory
Mr. Saidalavi Kalady	<ul style="list-style-type: none"> (i) Faculty in charge, Examinations (ii) Hostel Warden (iii) Faculty in charge, Hardware and Embedded Systems Lab (iv) Faculty Adviser, M.Tech CS and CS (IS)- I and II Year) (v) Faculty in charge of Purchase Matters
Ms. Saleena N	<ul style="list-style-type: none"> (i) Faculty Adviser B. Tech IV Year(2012 Admissions) (ii) Faculty In-Charge of examinations (iii) Placement Committee Representative
Dr. Subashini R	<ul style="list-style-type: none"> i. IEEE SPICES Track Co-chair ii. Faculty Adviser, B. Tech II Year (2014 Admissions) iii. Faculty in charge, NITC-TCS Academic Interface Programme iv. Faculty in charge, Dept. Time Table
Ms. Lijiya.A	<ul style="list-style-type: none"> (i) Faculty Adviser of B. Tech I Year (2015 Admissions) (ii) Faculty in charge of Class Rooms Amenities (iii) Faculty In-Charge of Short Term Courses (iv) Faculty in charge of CSEA (v) Liaison with Industries/ TCS AIP
Ms. Anu Mary Chacko	<ul style="list-style-type: none"> (i) Faculty Adviser, Year B.Tech (ii) Secretary, Department Consultative Committee (iii)
Dr. Sudeep K S	<ul style="list-style-type: none"> (i) Faculty Adviser, MCA IIInd Year (2014 Admission) (ii) Faculty-in charge of DSS (iii) Programme Co-ordinator MCA (iv) In-charge of Faculty research (v) In-charge of faculty research (vi) Faculty in charge of consultancy and spored Reserch (vii) Faculty in charge of technical report publishing
Mr. Sreenu Naik Bhukya	<ul style="list-style-type: none"> (i) PG1 Hostel Warden & Faculty Adviser of B.Tech II Year (ii) Faculty Adviser, MCA Ist year (2015 Admission)
Ms. Pournami P.N.	<ul style="list-style-type: none"> (i) Faculty Adviser, MCA III Year (2013 Admission) (ii) Faculty-in charge of Image Processing and Multimedia Lab

Dr. Gopakumar G	(i) Faculty in Charge, Campus Networking Centre (ii) Faculty Adviser, B.Tech II Year (2014 Admissions) (iii) Faculty-in charge of Bio-Computing Lab (iv) TEQIP Dept. Coordinator (v) Faculty-in charge of CSED LAN (vi) IEEE SPICES Track Co-chair (vii) Faculty in charge of purchase Matters (viii) Faculty in charge of consultancy and sponsored reserch
Mr. Jayaraj P B	(i) Faculty in Charge of Central Computer Centre (ii) Faculty in Charge of Network Systems Lab
Mr. Sumesh T A	(i) Faculty in charge, Software Systems Lab (ii) Faculty in Charge of Dept. Information Cell/ RTI
Mr. Jimmy Jose	(i) Faculty Adviser, , B. Tech I Year (2015 Admissions) (ii) Faculty in Charge of Network Systems Lab

e. Conferences/Summer/Winter School/Short term Courses/ Workshops conducted

Sl. No	Title	Coordinators	Duration & Period
1	Conference of Computer Science Departments of All NITs (C-SCAN 2016)	Dr. S D Madhu Kumar Lijiya A	21 -22 nd Februuary 2016

f. Expert lecturers delivered in Conferences/Seminar/workshops

Sl. No.	Name of Staff	Title of the Programme	Duration and Period
1	Dr. S D Madhukumar	"Introduction to Big Data, Big Data Analytics and Cloud Databases" FDP lecture at TKM College of Engineering. FDP on Machine Learning and Natural Language processing	7 th January 2016
2	Dr. S D Madhukumar	"Glimpses into Few Key Research Topics in Cloud Computing", Lecture workshop on Internet of Things at Dr. G.R Damodaran college of Science , Coimbatore	26 th November 2015
3	Dr. S D Madhukumar	"Glimpses into key Research Topics in Cloud Computing", Keynote Speaker. TCS Digital week at Info Park Cochin	20 th November 2015
4	Dr. S D Madhukumar	"Cloud Computing: Current Research Directions", Lecture at National Seminar on Data Mining in Cloud Computing at St.Mary's College Thrissur	8 th October 2015
5	Dr. S D Madhukumar	"Cloud computing Research Directions" Keynote address in the National Conference on Innovative Developments in Engineering and Advanced Science (IDEAS '16) , UKF College of Engineering Paripally Kollam. DEVELOPMCIENCE	31 st March 2016
6	Mr. JimmyJose	Four Neighbourhood Cellular Automata as Better Cryptographic Primitives Conference: Automata 2015 - 21st International Workshop on Cellular Automata and Discrete Complex Systems	10th June, 2016 Turku, Finland
7	Dr. K A Abdul Nazeer	Expert Lecture on "Bioinformatics- Opportunities and Challenges" at the UGC Supported National Seminar on 'Research Trends in Computer Science', MES College, Ponnani	21 st January 2016

(f) Student achievements:

Rekha R (Research scholar) bagged ACM-W scholarship for attending Asian Symposium on Programming Languages and Systems (APLAS 2015) where she has an accepted paper.

DEPARTMENT OF ELECTRICAL ENGINEERING

a. Publications

i. Journals

Sl. No.	Name of the Author	Title of paper	Name of Journal / Int. Conference/ National Conference	Publication Details
1	P.Febena. Beevi, T.K.Sunil Kumar, and JeevammaJacob	Novel Design Method for Two Degree of Freedom Controllers,"	International Review of Automatic Control	DOI: org/10.15866/ireaco.v8i4.6330, Vol. 8, no. 4, pp. 281-288, Jul 2015.
2	G. Muralidhar Bairy, Shreya Bhat, Lim Wei Jie Eugene, U. C. Niranjan, Subha D. Puthankattil, and Paul K. Joseph	Automated Classification of Depression Electroencephalographic Signals Using Discrete Cosine Transform and Nonlinear Dynamics	Journal of Medical Imaging and Health Informatics	Vol. 5, no.3,1–6, 2015
3	Muralidhar Bairy G., U. C. Niranjan and Subha D. Puthankattil	Automated Classification of Depression EEG Signals using Wavelet Entropies and Energies	Journal of Mechanics in Medicine and Biology	Vol. 16, No. 2 (2016) 1650035 (13 pages)
4	U. Rajendra Acharya, Vidya K. Sudarshan, Hojjat Adeli, Jayasree Santhosh , Joel E.W. Koh , Subha D. Puthankattil, Amir Adeli	A Novel Depression Diagnosis Index Using Nonlinear Features in EEG Signals	European Neurology	Eur Neurol 2015;74:79–83
5	Siny Paul, Sindhu T K	A Neural Network Model for Predicting the Dielectric Permittivity of Epoxy Aluminum Nanocomposite and its Experimental Validation	IEEE Components, Packaging and Manufacturing Technology Society	Vol. 5, No. 8, 2015
6	Sony Kurian , Sindhu T. K, Elizabeth P. Cheriyan	Real time implementation of artificial neural networks-based controller for battery storage supported wind electric generation	IET Generation, Transmission, Distribution	Vol.9, issue 10,2015
7	Ismayil C., Sreerama Kumar R., Sindhu T.K	Optimal fractional order PID controller for automatic generation control of two-area power systems.	Int. Trans. Electr. Energ. Syst. , Wiley	Vol. 25, Issue 12, 2015
8	Anjana K, Sudheer A. P. and Mija S. J.	Optimal Trajectory Planning and Control of 2 DOF Robotic Manipulator	Asian Journal of Engineering and Technology	Vol.3, No.4, pp.363-367
9	Ajay Babu and Ashok S.	Energy and fuel efficient parallel mild hybrids for urban roads	Energy Conversion and Management, Elsevier	Vol.121, pp.305-320, 2016.
10	Kumaravel S. and Ashok S	Optimal Power Management Controller for a Stand-alone Solar PV/Wind/Battery Hybrid Energy System	International Journal on Energy Sources, A: Recovery, Utilization, and Environmental Effects, Taylor & Francis	Vol.37, No.4, 2015.
11	Varghese Vaidyan and Ashok S.	Resource optimized Reconfigurable Modular Parallel Pipelined Stochastic Approximation based self-tuning Regulator Architecture with reduced Latency	IET Journal of Engineering	pp. 1-8, 2015
12	Vasanthi V. and	High-performance bi-	IET Electrical Systems i	Vol.5, No.4, pp. 1-9,

	Ashok S.	directional Z source inverter for locomotive drive application	n Transportation	Dec. 2015
13	Ajay Babu and Ashok S.	Improved parallel mild hybrids for urban roads	Applied Energy	Vol 144, no.4, pp. 276-283, 2015
14	Subhadeep Paladhi and Ashok S	Power Quality Improvement of Wind Based DG Systems Using Solid State Transformer	International Journal of Scientific and Engineering Research	Vol-6, Issue-4, pp. 46-52, 2015
15	Sujo P. George and Ashok S	Coordination Issues in Over Current Relays due to Wind Farm Penetration	International Journal of Scientific and Engineering Research	Vol 6, Issue 5, pp. 325-329, 2015
16	Rohit K Mathew, Ashok S. and Kumaravel S	Analytical Modeling for Assessing the Impact of DG on Distribution system Reliability	International Journal of Scientific and Engineering Research	Vol.6, Issue 5, pp. 507-512, 2015
17	Sivaprasad A., Kumaravel S. and Ashok S	Design and Analysis of a Dual Input Buck-Boost Converter for Renewable Energy Application	International Journal of Scientific and Engineering Research	Vol. 6, Issue 5, pp. 330-334, 2015.
18	P.Raji and Ashok S.	Development of GSM and GPS based Cost Effective Telematics Module	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering	Vol. 4, Issue 5, 2015
19	Mithun Raj KK and Ashok S	Design and simulation of vertical axis wind turbine for highway wind power generation	International Journal of Electrical & Electronics Engineering	Vol.7, no 1, 2015.
20	Nalla Vikram and Ashok S	Vehicle detection methods for intelligent Road stud applications: A Review	International Journal of Electrical & Electronics Engineering	Vol.7, no 1, 2015
21	Sajeena Khadher, Anand S R and Ashok S	Optimal operation of pumped storage hydroelectric power plant	KSEB Hydel	Vol.61, 2015
22	Devika K B, Susy Thomas	Path Planning for Conflict Resolution in Free Flight System: Optimization Based on Linear Programming	International Review of Aerospace Engineering	http://dx.doi.org/10.15866/irease.v9i1.8467 , Vol. 9, No.1, 2016.
23	Retheep Raj, Dr K S Sivanandan	Estimation of elbow joint angle from Time domain features of SEMG signals using Fuzzy Logic for prosthetic control	International Journal of Current Engineering and Technology	Vol.5, No.3 (2015)
24	Retheep Raj, Dr K S Sivanandan	Experimental determination of relationship between the signal characteristics and elbow movements	International Journal of Current Engineering and Technology	Vol.5, No.3 (2015)
25	Sujo P George, Ashok S	Multiagent based Adaptive Protection in Smart Grids	KSEBEA Hydel Journal-National Journal	Vol.62, 2016, PP 31-36, ISSN 0970-4582

ii. Conferences

Sl. No	Name of the Author	Title of paper	Name of Journal / Int. Conference/ National Conference	Publication Details
1	Sujo P George and Ashok S	Multiagent based Adaptive Relaying for Distribution Network with Distributed Generation	IEEE International Conference on Energy , Power and Environment (ICEPE 2015), NIT Meghalaya,	June 12-13, 2015

2	Sreeram R. Kurup and Ashok S.	Grid Restoration Planning after a total Blackout	2015 International Conference on Control Communication & Computing India (ICCC)	Vol, No, pp- 280-284, November 2015
3	Abhilash T. Vijayan and Ashok S	A stable switched visual servoing with supervisory control	IEEE international Conference ICIC 2015, COEP Pune	pp. 223 - 227, May 2015
4	Rajana Sravanakumar, Sivaprasad A, Kumaravel S and Ashok S	Development of Dual Input-Single Output High Frequency Transformer Coupled DC-DC Converter for Renewable Energy Integration	ICE/IEEE International Technology Management Conference, June 2015, Belfast, Northern Ireland	pp. 1 - 5, June 2015.
5	Sanjoy Paik, M.P.Nandakumar and S.Ashok	Model Development and Adaptive Control Implementation of a 3-Axis Platform stabilization System	International Conference on Smart Technologies and Management for Computing, Communication, Controls, Energy and Materials (ICSTM)	pp.597-602, 6-8 May 2015.
6	Ashwin D, Manglesh Dixit, Vinila Chavan, Ashok S	Design optimization of 15 kW, 2-pole induction motor to achieve IE4 efficiency level with copper die-casting	IEEE International Conference on Technological Advancements in Power and Energy (IEEE TAP Energy 2015)	pp. 98-102, June 2015
7	Anitha Varghese, Hariram Satheesh, Simi Valsan, Greeshma Sekharan	Performance Analysis of ZigBee for Energy Transmission Monitoring in Smart Grids	2015 IEEE International Conference on Engineering, Technology and Innovation/ International Technology Management Conference (ICE/ITMC), Trivandrum	pp. 1-5, June 2015
8	Aakrati Agarwal, Sudheer A P, Ashok S	Ant Colony Based Path Planning for Swarm Robots	Proceedings of the 2015 Conference on Advances In Robotics	No.61, 2 - 4 July, 2015.
9	Kamaljitthan and Preetha P	Fault Diagnosis of Power Transformer Using Frequency Response Analysis	First International Conference on Advanced Materials for Power Engineering, Kottayam, Kerala	11-13 th December 2015.
10	Sanalkrishnan and Preetha P	Electric Field Analysis of 220kV Outdoor Polymeric Insulator with Surface Contaminations	First International Conference on Advanced Materials for Power Engineering, Kottayam, Kerala	11-13 th December 2015.
11	Kukkala Satya Prakash, Mukti Barai	Time-Variant Slope Compensation for Peak Current Mode Control (PCMC) of Boost Converter with Point-of-Load Applications	Proceedings of the 6 th IEEE International Conference on Power Systems, 2016 (ICPS 2016), IIT Delhi, New Delhi, India	4-6 th March 2016.
12	Kukkala Satya Prakash, Mukti Barai	Design and Implementation of Peak Current Mode Control (PCMC) for Boost Converter with Point-of-Load Application	Proceedings of the IEEE 7 th Power Electronics, Drive Systems Technologies Conference (PEDSTC 2016), Tehran , Iran,	16-18 th Feb 2016
13	G Vivek ,Meenu D Nair , Mukti Barai	Online reduction of fifth and seventh harmonics in single phase quasi square wave	Proceedings of the 2015 Annual IEEE India Conference (INDICON	17-20 th December 2015

		inverters	2015), Jamia Millia Islamia University, New Delhi, India,	
14	Meenu Nair, Vivek G, Mukti Barai	Performance Evaluation of Clamping Position Variation On Advanced Bus Clamping Strategies :Experimental Investigation	Proceedings of the 11 th International Conference on Power Electronics and Drive Systems (PEDS 2015) Sydney, Australia	9 -12 th June 2015
15	Sony Kurian, Sindhu T. K., Elizabeth P. Cheriyan	Composite Pricing Strategy for Energy Storage in Wind Electric Generation	7 th Asia Pacific Power and Energy Engineering Conference (IEEE PES APPEEC2015),Brisbane, Australia,	15 – 18 Nov. 2015
16	Deepthi Karun, Sindhu T K	Fuzzy logic based load frequency control of grid connected distributed generators	IEEE International Conference on Technological Advancements in Power and Energy TAP Energy 2015, Kollam, Kerala	24-26 th June, 2015
17	Dil Kumar T. R. and Mija S. J.	Dynamic SMC control scheme with adaptively tuned PID controller for speed control of dc motor	16 th IEEE International Conference on Industrial Technology, Seville, Spain	17 – 19 March 2015.
18	Anjana K, Sudheer A. P. and Mija S. J.	Robust trajectory tracking controller for a 5 dof robotic manipulator	Proceedings of the International Conference on Advances in Robotics, Robotics Society of India, Goa, India	2 -4 July 2015.
19	Anjana K, Sudheer A. P. and Mija S. J.	Optimal trajectory tracking control of 2 dof robotic manipulator	Proceedings of the International conference on Emerging Trends in Science and Technology, Kottayam, India	30 April – 2 May 2015.
20	Rohikaa Micky R, Lakshmi R, Sunitha R, Ashok S	Assessment of Voltage Stability in Microgrid	IEEE international conference on Electrical, Electronics, and Optimization Techniques (ICEEOT) – 2016, Chennai.	3 – 5 th March 2016
21	Sibi krishnan K., Prasanth Pathiyil, and Sunitha R	Battery Model for Hybrid Electric vehicles corrected for self-discharge and internal resistance	IEEE Conference on Advances in Electrical, Electronics, Information, Communication and Bioinformatics	pp. 213-218, Feb. 2016
22	Sibi krishnan K., Prasanth Pathiyil, and Sunitha R	Generic Battery Model Covering Self-discharge and Internal Resistance Variation	6 th IEEE International Conference on Power Systems (ICPS),	4- 6 March 2016
23	Aravind M N, Anju L S, Sunitha R	Application of Compressed Sampling to Overcome Big Data Issues in Synchrophasors	6 th IEEE International Conference on Power Systems (ICPS),	4- 6 March 2016
24	Jaya C.K., Sunitha R, Abraham T. Mathew	State Estimation Using Weighted Least Square Method with Minimum Measurement Data	International Conference on Control Communication & Computing India	19-21 November 2015, Trivandrum
25	Varghese Vaidyan and Ashok S.	Resource optimized Reconfigurable Modular Parallel Pipelined Stochastic Approximation based self-tuning Regulator Architecture with reduced Latency	IET Journal of Engineering	pp. 1-8, August 2015

26	Peter K A and Ashok S.	Design and Implementation of an efficient Regenerative Braking System for a PMSM Drive	3rd International Conference on Electrical Energy Systems (ICEES 2016), SSN College of Engineering, Chennai,	17 th -19 th March, 2016.
27	Abhilash T. Vijayan and Ashok S.	A Hybrid Approach in Robot Visual Feedback,	International Conference on Circuit, Power and Computing Technologies, Nooral Islam college, Kanyakum-ari,	18 th -19 th March, 2016.
28	Deepak Kumar Panda and Ashok S.	Sensorless speed estimation of Linear Induction motor under Variable discrete loading using MRAS Observer	IEEE International Conference on Electrical, Electronics and Sustainable Energy System, Sultanpur	March 11-12, 2016
29	Rohit K. Mathew, Ashok S. and Kumaravel S.	Resilience Assessment of Electric Power Systems: A Scoping Study	2016 IEEE Students' Conference on Electrical, Electronics and Computer Science, MANIT Bhopal	5 th -6 th March 2016
30	Lakshmi R, Rohikaa Micky R., Ashok S and Sunitha R.	Assessment of Voltage Stability in Microgrid	International Conference on Electrical, Electronics and Optimization Techniques(ICEEOT), DMI College of Engineering Chennai,	3 rd -5 th March, 2016.
31	Anuranj N J, Rohit K. Mathew, Ashok S and Kumaravel S.	Resiliency based Power Restoration in Distribution Systems using Microgrids	6 th IEEE International Conference on Power Systems (ICPS 2016), IIT Delhi,	4 - 6 th March 2016.
32	Dilshad and Ashok S.	An energy loss model based temperature estimation of permanent magnet synchronous motor(PMSM)	International Conference on Advances in Electrical, Electronics, Information, Communication and Bio-Informatics (AEEICB16), Prathyusha Institute of Technology and Management, Chennai,	Feb 27-28, 2016
33	Sujo P George and Ashok S	Multiagent based Adaptive Relaying for Distribution Network with Distributed Generation	IEEE International Conference on Energy , Power and Environment (ICEPE 2015), NIT Meghalaya,	June 12-13, 2015
34	Rohit K. Mathew, Ashok S. and Kumaravel S	Impact of Rooftop Solar PV based DG on Reliability of Distribution Systems	IEEE International Conference on Energy, Power and Environment (ICEPE 2015) NIT Meghalaya,	June 12-13, 2015.
35	Abhilash T. Vijayan and Ashok S	A stable switched visual servoing with supervisory control	IEEE international Conference ICIC 2015, COEP Pune	pp. 223 - 227, May 2015
36	Rajana Sravanakumar, Sivaprasad A, Kumaravel S and Ashok S	Development of Dual Input-Single Output High Frequency Transformer Coupled DC-DC Converter for Renewable Energy Integration	ICE/IEEE International Technology Management Conference, June 2015, Belfast, Northern Ireland	pp. 1 - 5, June 2015.

37	Sanjoy Paik, M.P.Nandakumar and S.Ashok	Model Development and Adaptive Control Implementation of a 3-Axis Platform stabilization System	International Conference on Smart Technologies and Management for Computing, Communication, Controls, Energy and Materials (ICSTM)	pp.597-602, 6-8 May 2015.
38	Ashwin D, Manglesh Dixit, Vinila Chavan, Ashok S	Design optimization of 15 kW, 2-pole induction motor to achieve IE4 efficiency level with copper die-casting	IEEE International Conference on Technological Advancements in Power and Energy (IEEE TAP Energy 2015	pp. 98-102, June 2015
39	Anitha Varghese, Hariram Satheesh, Simi Valsan, Greeshma Sekharan	Performance Analysis of ZigBee for Energy Transmission Monitoring in Smart Grids	2015 IEEE International Conference on Engineering, Technology & Innovation/ International Technology Management Conference (ICE/ITMC), Trivandrum	pp. 1-5, June 2015
40	Aakrati Agarwal, Sudheer A P, Ashok S	Ant Colony Based Path Planning for Swarm Robots	Proceedings of the 2015 Conference on Advances In Robotics	No.61, 2 - 4 July, 2015.
41	Anju Krishna, Sandeep J, Rijil Ramchand, Ashok S	Comparitive Analysis of different modulation techniques for Three phase- Single phase direct Matrix converter	National Conference on Energy and Environment Management, EEM- 2015,NSS College of Engineering Palakkad, Palakkad,	24th -25th July 2015
42	Kanhu Charan Patra, Supin S and Ashok S	Development of FPGA based smart controller for BLDC Motor	National Conference on Energy & Environment Management, EEM- 2015,NSS College of Engineering Palakkad, Palakkad,	24th -25th July 2015
43	Vinu Thomas, Kumaravel S, Ashok S	Control of Parallel DC-DC Converters in a DC Microgrid Using Virtual Output Impedance Method	2 nd International Conference on Advances in Electrical, Electronics, Information,Communica tion and Bioinformatics- 2016 (AEEICB), IEEE, Tiruvallur, Tamil Nadu	2016
44	Jaya C K, Sunitha R, Abraham T Mathew	State Estimation Using Weighted Least Square Method with Minimum Measurement Data	2015 International Conference on Control,Communication & Computing India (ICCC) ,Trivandrum	19-21 November 2015
45	Devika K B, Susy Thomas	On the Synthesis of Nonlinear Sliding Mode Controller for the Autopilot Design of Free Flight System	International Conference in Non- Linear Problems in Aviation and Aerospace, ICNPAA Congress 2016, University of La Rochelle, France.	To be published in American Institute of Physics conference proceedings
46	Retheep Raj, Rejith R, Dr. K S Sivanandan	Real Time Identification of Forearm Kinematics from sEMG signal Using Artificial Neural Network	Global Colloquium in Recent Advancement and Effectual Researches in Engineering, Science	22 - 23 rd April 2016 Kottayam, India

			and Technology (RAEREST 2016)	
47	Rohikaa Micky.R	Assessment of Voltage Stability in Microgrid,	IEEE-ICEEOT 2016, DMI College of Engineering, Chennai,	3-5 March 2016.
48	Rohikaa Micky.R	Assessment of Voltage Stability in Microgrid,	IEEE-ICEEOT 2016, DMI College of Engineering, Chennai,	3-5 March 2016.

b. Other Academic and Administrative services

Sl. No	Name of faculty	Academic and Administrative Services
1.	Dr. Ashok S	<ul style="list-style-type: none"> Academic Advisory Board member of Christ University, Bangaluru, Vellore Institute of Technology, Vellore, Kumaraguru College of Technology, Coimbatore
2.	Dr. Paul K Joseph	<ul style="list-style-type: none"> Academic Advisory Board member of AISAT, Cochin. Academic Advisory Board member of Sahrdaya College of Engineering and Technology.
3	Dr. Abraham T Mathew	<ul style="list-style-type: none"> Academic Advisory Board member of Amrita Institute of Technology, Kayamkulam

c. Conferences/Summer/Winter School/Short term Courses/Workshops conducted

Sl. No	Title	Coordinators	Duration and Period
1.	Recent Trends in BioSignal processing	Dr.Subha D.P.& Dr.Paul K.Joseph	1 week, 13-18,December 2015
2	FDP on "Security assessment and Power management in Smart Grid" sponsored by TEQIP Phase II, NIT Calicut	Dr. Elizabeth P. Cheriyan, Dr. Sunitha R	9 th – 15 th June 2015
3	National Seminar on "Thermography for Research Applications"	Dr. Ashok S	20 th August 2015
4	National Workshop on Electric Power Quality", EPQ-2016	Dr. Ashok S	March 11-12, 2016
5	National workshop on "Advanced LaTeX"	Dr. Ashok S	14 March 2015.
6	Short Term Course on Power Electronics for Grid connected Renewable Energy Systems	Dr. Ashok S.	14 th – 16 th May 2015
7	FDP on "Recent Trends and Applications of High Voltage Engineering"	Dr. Sunitha K, Dr. Sindhu T K	12 th – 18 th June 2016
8	FDP on "Applications of Power Converters in Distributed Generation and Microgrid"	Dr. Kumaravel S, Dr. Ashok S	19 th – 25 th June 2016
9	FDP on "School on Systems and Control"	Dr. Mija S J, Dr. Abraham T Mathew	29 th June – 6 th July 2016

d. Expert lectures delivered in Conferences/ Seminars/ workshops

Sl. No.	Name of faculty	Title of the programme	Duration and Period	Organization
1	Dr. Sindhu T K	"Indo-Swedish" Colloquium held at IIT Madras	December 2-4, 2015.	IIT Madras
2	Dr. Ashok S.	Adaptive Relaying for Smart Grid Applications	23.04.2015	Saint Gits College of Engineering, Kottayam

e.Details of Faculty, who acquired Higher Qualification:

Sl. No.	Name of faculty	Higher Qualification	Institute	Date
1	Dr. Kumaravel S	PDF (Power Converter Applications in Power Systems)	University College Dublin, Ireland	29 th Feb 2016

f. Consultancy and Testing :

Sl. No	Nature of service	Faculty involved	Organization	Revenue earned in Rs(Lakhs)	Year
1	Investigation on technical issues associated with Chimmony SHEP 2.5 MW (1* 2.5 MW)	Dr. Ashok S.	KSEB Ltd.	1.2	2016
2	Energy Analysis	Dr. Ashok S	St. Joseph's College, Devagiri, Calicut.	0.5	2016
3	Testing of HT fuse, AB switch, UPS, cable, Conductors etc.	Dr. Ashok S.	KSEB Ltd, L& T ECC, Techser Power Solutions, M J Power.	1.15	2015
4	Energy Analysis	Dr. Ashok S.	MIMS Hospital	2.0	2015
5	Energy Integration of Solar Heater	Dr. Ashok S.	Cradle Hospital	0.5	2015

g. Patents Acquired &Filed:

Sl. No.	Name of faculty	Title of the Patent	Date of Submission	Status
1.	Dr. Ashok S.	Obstacle Crossing Robot for power line inspection	14-07-2015	Patents filed ,Under process
2	Dr. Ashok S.	Highway Vertical Axis Wind Turbine	20-10-2015	
3	Dr. Ashok S.	Solar Powered Intelligent Road Stud	09-11-2015	
4	Dr. Ashok S.	Development of Cost Effective 3- Axis Intelligent Platform Stabilization System	20-10-2015	
5	Dr. Ashok S.	Cost Effective Telematics Module	09-11-2015	
6	Dr. Ashok S.	Universal Drive for SRM and BLDC Motor	06-11-2015	

i. Student achievements :

Sl. No	Name of Student	Guidance	Field of Study	Nature of Achievement
1	K. Sindhuprabha	Dr. Paul Joseph	M. Tech, Instrumentation & Control Systems	young scientist award, IEEE TENCON 2015
2	Neethu George	Dr. Ashok S	Power Systems	POSOCO Power System Award – PPSA 2016
3	Sruthi P S	Dr. Sindhu T K	Power Systems	POSOCO Power System Award – PPSA 2016
4	Gaurav Khare	Dr. Sunitha R	Power Systems	POSOCO Power System Award – PPSA 2015

DEPARTMENT OF ELETRONICS &COMUNICATION ENGINEERING

a. Publications

b. Journals

Sl No	Name of the Author	Title of the paper	Name of Journal	Vol, Year. PP
1	Bindiya T. S. Elizabeth Elias	Meta-Heuristic Evolutionary Algorithms for the Design of Optimal Multiplier-Less Recombination Filter Banks	Elsevier , Journal of Information Sciences(SCI Impact;4.038)	Volume 339,2016, 31–52

2	Nisha Haridas& Elizabeth Elias	Reconfigurable Farrow Structure-Based FRM Filters for Wireless Communication Systems	Circuits, Systems and Signal Processing (Springer)	doi: 10.1007/s00034-016-0309-4, 1- 24, 2016
3	Nisha Haridas& Elizabeth Elias	Design of Multiplier-less FIR filters with Simultaneously Variable Bandwidth and Fractional Delay	Engineering Science and Technology, an International Journal (Elsevier,)	Vol.19, 1160 – 1165, 2016
4	V Sakthivel& Elizabeth Elias	Design of Sharp MDFT Filter Banks with perfect Reconstruction in the SPT space.	Far East Journal of Electronics & Communications (Scopus)	16(2), 2016, 395-414,
5	Illa Aravind, Nisha Haridas& Elizabeth Elias	Efficient variable bandwidth filters for digital hearing aid using Farrow structure	Elsevier , Journal of Advance Research, (SCI)	Vol. 7, Issue 2, March 2016, Pages 255–262
6	Thayyil Bindima,&Elizabeth Elias	Design of efficient circularly symmetric two-dimensional variable digital FIR filters,	Elsevier, Journal of Advance Research, (SCI)	Vo. 7, Issue 3, May 2016, 336–347
7	Bindiya T S & Elizabeth Elias	Design of FRM-based MDFT filter banks in the canonic signed digit space using modified meta-heuristic algorithms	International Journal of Signal and Imaging Systems Engineering interscience Publisher (Scopus)	9 (1), 2016, 20-37
8	Nisha Haridas& Elizabeth Elias	Design of reconfigurable low-complexity digital hearing aid using Farrow structure based variable bandwidth filters	Elsevier Journal of Applied Reserch & Technology	doi:10.1016/j.jart.2016.03.005 9 (1), 2016, 20-37
9	Shaeen K & Elizabeth Elias	Design of multiplier less sharp non-uniform cosine modulated filter banks for efficient channelizers in software defined radio	Elsevier: Engineering Science and Technology,an international journal,	Vol.19, Issue 1, March 2016, 147–160
10	Manjumanuel& Elizabeth Elias	Design of circularly symmetric 2-D sharp wideband filtersusing FRM and multiplier-less Transformation	International Journal of Signal and Imaging Systems Engineering Inderscience Publisher (Scopus)	Vol. 8, no. 3, 2015: 177-186
11	Shaeen K & Elizabeth Elias	Prototype Filter Design Approaches for Near Perfect Reconstruction Cosine Modulated Filter banks – A Review	Springer: Journal of Signal Processing Systems	Vol. 81, No.2, 2015, pp. 183 – 195
12	Bindiya T S & Elizabeth Elias	Design of Totally Multiplier-less Sharp Transition Width Tree Structured Filter Banks for Non-uniform Discrete Multitone System	AEUE - Elsevier International Elsevier International Journal of Electronics and Communications (SCI)	69(3), 2015, 655-665
13	Shaeen K &Elizabeth Elias	Efficient design of non-uniform cosine modulated filter banks for digital hearing aids	Elsevier: AEU - International Journal of Electronics and Communications, (SCI)	Vol. 69, No.9, 2015, pp. 1314 – 1320
14	V Sakthivel& Elizabeth Elias	Design of low complexity sharp MDFT Filter Banks with perfect reconstruction using Hybrid Harmony-Gravitational Search Algorithm	Elsevier: Engineering Science and Technology, an International Journal (SCI)	18(4), 2015, pp.648-657
15	Anil Jacob and Lillykutty Jacob	Energy Efficient MAC for QoS Traffic in Wireless Body Area Network	International Journal of Distributed Sensor Networks, HindawiPubl	Vol.2015, Article ID 404182, 2015

16	Jalaja M J and Lillykutty Jacob	Delay and Lifetime Performance of Underwater Wireless Sensor Networks with Mobile Element Based Data Collection	International Journal of Distributed Sensor Networks, Hindawi Publ	2015 doi:10.1155/2015/128757
17	Jalaja M J and Lillykutty Jacob	Application-Oriented On-Demand Data Collection in Sparse Underwater Acoustic Sensor Networks Using Mobile Elements	International Journal on Advances in Networks and Services, IARIA Publishing	Vol. 8, Numbers 1&2, 2015, PP: 1-16
18	Mary Reena, Abraham T Mathew, and Lillykutty Jacob	An Occupancy Based Cyber-Physical System Design for Intelligent Building Automation	Mathematical Problems in Engineering, Hindawi Publ	2015 doi:10.1155/2015/132182
19	Jalaja M J and Lillykutty Jacob	'Adaptive Data Collection in Sparse Underwater Sensor Networks Using Mobile Elements	Adhoc Networks and Wireless, Springer Berlin Heidelberg	Vol. 8629, 57-65, LNCS, 2015
20	G. Sreelatha, M.Aparna, P.S.Sathidevi, P.Chand and R.P.Rajkumar	Quantification of DNA damage by the analysis of Silver Stained Comet assay images"	IRBM (Elsevier)	Vol.36 , pp. 306-314, 2016
21	G. Sreelatha, Manoj Kumar Sudarsan P.S Sathidevi	Level Set Approach Combined with Support Vector Machine for Comet Detection from Comet Assay Images	JMIHI, American Scientific Publishers	Accepted for Publication
22	V Meena, G Abhilash	Robust recovery algorithm in the presence of noise	IET Signal Processing	Vol. 10, 2016, Issue 3, pp:227-236
23	Ramesh C R , Lyla B Das	,"Self-Regulated Solar Lighting System	International Journal of Engineering Research	ISSN:2319-6890)(online),2347-5013 (Print),pp 22 26, 01 Jan. 2015
24	Ramesh C.R and Lyla B. Das,"	Brain Computer Interface Based Assistive Device"	IEEE Digital Xplore	ISBN (978-1-4799-8790-0), Page 330-334, Aug 10-13 2015.
25	K.V.Shahnaz & C.K.Ali	Firefly algorithm assisted multiuser detection for OFDM/SDMA uplink system	Int.J.Reasoning based intelligent systems	Vol.7,Nos.3/4, 2015
26	P.M.Deepak and C.K.Ali	Low complexity inter carrier interference cancellation scheme for SC-IFDMA system	International Journal of communication system	Vol.29, issue 4, 2016, 823 – 835
27	P.M.Deepak and C.K.Ali	Blind inter carrier interference compensation in MIMO SC-IFDMA system using fire-fly Algorithm	International journal of Eletronic and communications	DOI.org/10.1016/j.aeue 2016.03.2015
28	Muneer P. and Sameer S. M.	Iterative Joint Carrier Frequency offset and Doubly Selective Channel Estimation in High Mobility MIMO-OFDMA Uplink Using Oblique Projection	IEEE Transations on vehicular Technology	Vol.PP, No. 99, PP.1-1 2016
29	A. S. Namitha Sameer S. M.	A Novel Joint Method for Frequency offset Estimation and Peak-to-Average Power Ratio Reduction in OFDM Systems Using Null Subcarriers	Telecommunication system (Springer)	DOI10.1007/S11235-015-0119-1,2015
30	Muneer P. and Sameer S. M.	Joint ML Estimation of CFO & Channel, and a Low Complexity Turbo Equalization Technique for High Mobility OFDMA Uplinks	IEEE Transation on wireless Communications	Vol.14 No.7,PP 3654,July 2015

31	V.P. Harigovindan, A.V. Babu and Lillykutty Jacob	Improving Aggregate Utility in IEEE 802.11p Based Vehicle-to-Infrastructure Networks	Telecommunication System	61(2): 359-385 (2016)
32	Geethu K.S. and A.V. Babu	Minimizing the Total Energy Consumption in Multi-hop UWASNs	Wireless Personal Communications (Springer)	83(4): 2693-2709 (2015)
33	Siddharth Shelly A.V. Babu	Modeling and Analysis of Link Duration in Vehicular Ad Hoc Networks Under Different Fading Channel Conditions.	Wireless Information Networks (springer)	22(3): 157-170 (2015)
34	K.S. Deepak and A.V. Babu	Energy Efficiency Analysis of IEEE 802.15.6 based Wireless Body Area Networks in Scheduled Access Mode	ACM/Springer Wireless Networks	Vol.22, issue 5, 2016, 1441 - 1459
35	K.S. Deepak and A.V. Babu	Enhancing Reliability of IEEE 802.15.6 Wireless Body Area Networks in Scheduled Access Mode and Error Prone channels	Wireless Personal Communications (Springer)	Vol.89, issue 1, 2016, 93 - 118
36	Jaikumar M G	On the simulation and analytical modeling of on-state DC characteristics of Silicon Carbide Double-implanted MOSFETs	Solid state Electronics	Solid-State Electronics 114 (2015) 49–54
37	Jilna P., Deepthi P.P	A key management technique based on elliptic curves for static wireless sensor networks	Security and Communication Networks, Wiley	Vol. 8, Issue 18, Dec 2015, pages 3726–3738
38	Jilna P., Deepthi P.P	Pseudorandom Bit Sequence Generator for Stream Cipher Based on Elliptic Curves	Mathematical Problems in Engineering, Hindawi	Vol. 2015, 2015, 16 pages
39	Jilna P., Deepthi P.P., Jayaraj U.K	Hardware Implementation of an Efficient Key Management Scheme for Wireless Sensor networks	International Journal of Intelligent Computing Research, IJICR	Vol. 7, Issue 1, 2016, pages 663 – 671
40	CelineMary Stuart, Spandana K., Dhanaraj K.J., Deepthi P. P.	Design and implementation of hardware-efficient modified Rao–Nam scheme with high security for wireless sensor networks	Journal of Information Security and Applications, Elsevier	Vol.29, 2016, 65 -79
41	Abhilash Antony, Sreelekha G	HEVC –based Lossless intra coding for efficient still image compression	Multimedia Tools and Applications, Springer Publications	DOI 10.1007/s11042-015-3138-8, 2015
42	Abhilash Antony, Sreelekha G	Highly efficient near lossless Video compression using Selective intra prediction for HEVC lossless mode	AEUE International Journal of Electronics and Communications, Elsevier Publications	Vol. 69, Issue 11 pp.1650- 1658, November 2015
43	Geethu R S, Krishna Kumar M, Sudhish N George	Source Separation of Heartbeat sounds for effective e-Auscultation	Journal of the Institution of Engineers (India): Series B (Springer), 2015	Vol.97, issue 1, 2016, 69 – 75
44	Greeshma N K, Baburaj M, Sudhish N George	Reconstruction of Cloud Contaminated Satellite Remote Sensing Images using Kernel PCA based Image Modelling	Arabian Journal of Geosciences (Springer),	Vol. 9, Issue. 3, pp.239: 1 - 14, March 2016.

iii. International Conference

SI No	Name of the Author	Title of the paper	Name of International Conference	Vol, Year. PP
1	Jalaja M J and LillykuttyJacob	Maximum Lifetime Routing in Underwater Sensor Networks using Mobile Sink for Delay-Tolerant Applications	IEEE TENCON, Macau	1-4 Nov 2015
2	Mary Reena, Abraham T Mathew, and Lillykutty Jacob	'Energy Efficient Wireless Networked Building Automation System Controlled by Real Occupancy	IEEE TENCON, Macau	1-4 Nov 2015
3	Jayakumar E.P and P.S. Sathidevi	Speech Enhancement Based on Noise Type and Wavelet Thresholding the Multitaper Spectrum	2015 International Conference on Machine learning and Signal Processing (MALSIP'2015) in Melaka, Malaysia.	15-17 December, 2015
4	Ramesh C.R and LylaB.Das,"	Brain Computer Interface Devicefor Speech Impediments	3rd International Conference on Communication, Computing and Control (ICCC 2015), CET Trivandrum,	19 -21 Nov' 2015,.
5	Sanoopkumar P.S., Muneer P. and Sameer S. M	Bandwidth efficient Joint Estimation Tech-nique for CFO and Doubly Selective Channel in OFDM Based Cognitive Radio	IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT), Bangalore, India	10-11 July, 2015
6	Geethu K.S. and A.V. Babu	Performance analysis of erasure coding based data transfer in Underwater Acoustic Sensor Networks.	2015 IEEE International Conference on Advances in Computing, Communications and Informatics	2015: 2145-2151
7	RambabuKatla and A.V. Babu	Downlink outage probability analysis in two-hop relay-assisted cellular network	TENCON 2015 - 2015 IEEE Region 10 Conference	1 – 4 Nov. 2015, pp 1 – 6
8	Princy Maria Paul and A.V. Babu	Frame Length Optimization in IEEE 802.15.6 UWB Cooperative Body Area Networks	IEEE RAICS, Trivandrum,2015	10 – 12 Dec 2015, 99 - 104
9	Princy Maria Paul and A.V. Babu	Performance Evaluation of Cooperative Communication in WBANs with Maximal Ratio Combining	2015 IEEE Intl.Conference on Computing and Network Communications (CoCoNet'15)	10 – 12 Dec 2015, 627-632
10	Sidharth Shelly and A.V. Babu	Prediction of Link Residual Lifetime using Kalman Filter in Vehicular Ad Hoc Networks	2015 IEEE Recent Advances in Intilligent Computaional systems (RAICS), Trivadandrum.	10 – 12 Dec 2015, 268 – 273
11	Jilna P., DeepthiP.P., Jayaraj U.K	Optimized hardware design and implementation of EC based key management scheme for WSN	10th International Conference for Internet Technology and Secured Transactions (ICITST)	14 – 16 December 2015 Pages: 164 - 169,
12	Amit Satish Unde, Ravikumar Malla and Deepthi P. P.	Low Complexity Secure Encoding and Joint Decoding for Distributed Compressive Sensing in WSNs	3 rd IEEE International Conference on RecentAdvances in Information Technology	3- 5 March 2016
13	Priya Mathew, Jilna P.,	Efficient implementation of ECbasedkeymanagementsch	9th International Conference on	25 – 26 November 2015, pp. 1- 6

	Deepthi P. P.	eme on FPGA for WSN	Telecommunication Systems Services and Applications (TSSA)	
14	Arun Varghese, Sreelekha G	Background Subtraction with Outlier Replacement	IEEE International Conference on Recent Advances in Intelligent Computational Systems RAICS 2015, Trivandrum, Kerala	December 10-12, 2015
15	Saran K. B., Sreelekha G	Traffic Video Surveillance: Vehicle Detection and Classification	2015 International Conference on Control, Communication & Computing India (ICCC), Trivandrum	19-21 November 2015,
16	Arun Varghese, Sreelekha G	Short term-Long term dual model Background subtractor	IEEE International Conference on Computer and Communications (ICCCT2015), MNNIT, Allahabad, India	September 2015
17	Arun Varghese, Sreelekha G	Background subtraction for Vehicle Detection	IEEE Global Conference on Communication Technologies, Tamilnadu, India	April 2015
18	Dhanaraj K.J and Basabi Bahumik	Modulation Ratio of Layer 2/3 cells in Primary Visual Cortex: A Model Based Study	2015 International Joint Conference on Neural Networks (JCNN), Killarney, Ireland,	July 12-17, 2015
19	B. Bhuvan, M.Sarkar and S Chatterjee	PTC Inspired Column Level Compression in Low Power CMO Imagers	International image sensor workshop	9 -11 June 2015
20	Ramitha R S, Baburaj M, Sudhish N George,	"Sparse Linear Prediction Coefficients for Isolated Speech Recognition"	IEEE Int. Conf. on Control, Communication and Computing India 2015 (ICCC-2015).	19 -21 Nov. 2015
21	Baburaj M, Sudhish N George,	"Local Patch Dictionary Based Approach for Multi- View Image Compression",	IEEE Int. Conf. on Control, Communication	19 -21 Nov. 2015
22	Ramitha R S, Baburaj M, Sudhish N George,	"A Dictionary Based Approach for Non-parametric SPIN and Application to Image Mixture Separation",	Recent Advances in Intelligent Computational Systems (RAICS 2015).	10 -12, Dec. 2015
23	Baburaj M, Sudhish N George,	"A Dictionary Based Approach for Non-parametric SPIN and Application to Image Mixture Separation",	IEEE Int. Conf. Recent Advances in Intelligent Computational Systems (RAICS 2015).	10 -12, Dec. 2015
24	Abdu Rahiman V, Rohit U, Sudhish N George	"Modified Dictionary Learning Method For Sparsity Based Single Image Super- Resolution",	3rd IEEE Int. Conf. Recent Advances in Information Technology (RAIT-2016), Indian School of Mines, Dhanbad, India.	3- 5, March 2016
25	Sameera Mhd Sageer V, Sudhish N George,	"Novel Approach for De- speckling of Ultrasound Images using Bilateral Filter",	3rd IEEE Int. Conf. Recent Advances in Information Technology (RAIT-2016), Indian School of Mines, Dhanbad, India.	3- 5, March 2016
26	Deepa Nair, Praveen Sankaran	A modified dark channel prior for improved dehazing	IEEE Int. Conf. Recent Advances in Intelligent Computational Systems (RAICS 2015). Trivandrum,	December 2015

27	Rashmi M., P Sankaran	Landmark Point Selection Using Clustering for Data Classification	IEEE Int. Conf. Recent Advances in Intelligent Computational Systems (RAICS 2015), Trivandrum.	December 2015
28	AS Sankar, SS Nair, VS Dharan, P Sankaran	Wavelet Sub Band Entropy Based Feature Extraction Method for BCI	Procedia Computer Science	46, 1476-1482, 2015
29	Ramesh C.R and LylaB.Das,"	Brain Computer Interface Based Assistive Device	International Conference on Advances in Computing, Communications & Informatics(ICACCI'15),	ISBN (978-1-4799-8790-0), Page 330-334,. Aug 10-13 2015

iv. National Conference

Sl. No	Name of author	Titled of paper	Name of National Conference	Vol., Year, P.P
1	Deepthi Sasidharan and Lillykutty Jacob	'Energy and Bandwidth Efficient Multipath-Enhanced LOADng Routing Protocol	National Conference on Communication (NCC), IIT Guwahati	March 2016

b. Community Services

Name of Staff	Details
Dr. Sameer S. M.	Vice-Chairman, IEEE Kerala Section
Dr. Sameer S. M.	MGA Nominee to TAB/PSPB Products and Services Committee of IEHQ, USA
Dr. Sameer S. M.	Member, Board of Governors, Institute of Human Resources Development (IHRD), Kerala.
Dr. Deepthi P.P.	Board member (TEQIP), GEC Sreekrishnapuram. Member of external research committee, College of Engineering, Vadakara

C. Other Academic and Administrative services

Name of Staff	Academic and Administrative Services
Dr. Elizabeth Elias	HOD, ECED Ph.D Coordinator & Admission
Dr. Lillykutty Jacob	BOAC Representative Coordinator: UG project Evaluation committee
Dr. P C Subramaniam	FA for the current 4th semester ECE students
Dr. P S Sathidevi	CHAIR PERSON – UG ADMISSIONS Ph.D Coordinator & Admission Faculty Advisor: 2013 Admission Batch Member of Project Evaluation Committee for M. Tech Signal Processing
Dr. C. K. Ali	Placement committee member Member: M.Tech. (Telecom) Project Evaluation Committee
Ms. Lyla B.das	Member, BOG ,NITC Coordinator, NBA Accreditation, M.Tech (Electronic Design Technology) Programme Co-coordinator, M.Tech (Electronic Design Technology)
Dr. G Abhilash	Curriculum Committee member Faculty in charge of M.Tech. Admission Member: Exam Vigilance Committee
Mr. Suresh R	Class Committee Chairman B.Tech. 2012 admission Lab-in-Charge, Electronic Circuits Lab Member: M.Tech. (Telecom) Project Evaluation Committee Co-ordinator: B. Tech. ECE Seminar (B-batch)

Dr. Sameer S M	Coordinator, NBA Accreditation, M.Tech (Telecommunication) Member of several doctoral scrutiny committees Programme Co-coordinator, M.Tech (Telecommunication) Purchase Coordinator, ECED
Dr. A V Babu	NBA overall Coordinator Faculty in charge of Laboratories: Telecom, DST-FIST, TTL lab
Dr. Rama Subrahmaniam Komaragiri	NBA overall Coordinator Coordinator & Member of Project Evaluation Committee for M. Tech -Micro Electronics and VLSI PTA Secretary Warden-NITC Hoste
Mr. Jaikumar M G	Instructor EC 6207 MOS DEVICE MODELING EC 6210 MICROELECTRONICS LAB EC 2013 SOLID STATE DEVICES Lab in Charge : VLSI Lab Faculty Advisor B. Tech 2012 Batch Coordinator & Member of Project Evaluation Committee for M. Tech EC 62 Micro Electronics and VLSI
Dr. Deepthi P P	Faculty in charge of IC lab Department Purchase coordinator Faculty Advisor (B.Tech 2015 -19) Member of UG project Evaluation committee
Dr. Sreelekha G	Project Manager & Procurement Nodal Officer, TEQIP-II Coordinator, NBA Accreditation, M.Tech (Signal Processing) Programme Co-coordinator, M.Tech (Signal Processing) Member of several doctoral scrutiny committees Information facilitator/Liaison officer, ECED Faculty in charge of DSP Lab
Mr. Dhanaraj K J	Lab in charge (PsoC lab) Member: UG project evaluation committee, Branch Counselor (IEEE Student Branch) Faculty adviser (B.Tech ECE 2015 admission batch)
Mr. V Sakthivel	Warden B Hostel, Member of PG(EDT) Project Evaluation Committee, Faculty Advisor of 2013-2017 Batch, Faculty in charge of SPCOM Lab, ECED Exam Vigilance committee member, Course Coordinator ZZ1003 Basic Electrical Sciences.
Dr. Suja K J	Member, Central Library Advisory Committee Dept. Library-in-charge Faculty in charge of Simulation Lab Faculty Advisor: 2014 Admission Batch Member: UG Mini Project evaluation committee Member: M.Tech. (EDT) Project Evaluation Committee
Dr. Bindiya T S	Time Table in Charge, ECED, Faculty in charge of Amenities, ECED Faculty Advisor of 2013-2017 Batch B. Tech/M. Tech Project guidance
Dr. Jayakumar E P	Faculty advisor for B.Tech (2015 admission), Exam Coordinator (ECE), Faculty In charge of Electronics Workshop, Member, Project Evaluation committee of M.Tech (EDT).
Dr. Sudhish N George	ECEA Faculty in charge

	DCC secretary Examination Coordinator (ECED) Faculty Advisor for 2012-16 B.Tech ECE batch
Dr. Praveen Sankaran	Warden, F hostel Faculty Convenor, Tathva 2015 Faculty Monitor, Student Activity Council (SAC). Co-ordinator: UG Mini Project evaluation committee Member: UG project evaluation committee

(d). Conferences/Summer/Winter School/Short term Courses/Workshops conducted

Sl. No.	Title	Coordinators	Duration and Period
1.	Electromagnetics in VLSI", In FDP on Electromagnetics in VLSI	Dr. Rama Komaragiri, Dr. P.C. Subramaniam	5 Days; 16 th -21 st June 2014.
2.	2015 IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems (SPICES), NIT Calicut	Dr. Sameer S. M., Dr. Rijil Ramchand	3 Days, 19-21 February 2015
3.	FDP on Estimation and Coding for Multimedia Processing (ECMP)	Dr. Sameer S.M., Dr. Sreelekha G., Dr. Deepthi P.P.	1 week. June 30- July 5, 2014
4	Three day workshop on "Research Frontiers in Cryptography"	Dr. Deepthi P.P., Dr. Sameer S.M., Dr. Sathidevi P.S.	3 days, January 23-25, 2015
5	2-day Hands on training on Cadence® Design Suite	Dr. Rama Komaragiri	2 days (27 th and 28 th February 2015)

(e). Expert lectures delivered in Conferences/ Seminars/ workshops

Sl. No.	Name of Staff	Title of the Programme	Duration & Period	Organization
1	MS. Lyla B Das	Embedded Systems	14 th December 2015	Sahrudaya College of Engineering Thrissur
2	Dr. Sameer S M	National Conference on Systems, Energy & Environment	10-11 September 2015	Govt. Engineering College, Kannur, Kerala
3	Dr. Sameer S M	International Conference on New Frontiers in Science, Engineering and Technology (ICNFSET'15)	8-9 October 2015	AWH Engineering College, Kozhikode, Kerala
4	Dr. Sameer S M	Faculty Development program on "Estimation & Detection Theory"	10-12 February 2016	College Of Engineering Cherthala, Kerala
5	Dr. Sameer S M	Faculty Development Programme on "Eye Opener to Key Research Areas in the Field of Electronics Communication Engineering"	1-3 March, 2016	Govt. Engineering College, Palakkad, Kerala
6	Dr. Deepthi P P	FDP on Adaptive Signal Processing	20 th April 2015	College of Engineering, Vadakara
7	Dr. Sreelekha G	FDP on Recent Trend and Techniques in Digital Image Processing	5 th December 2015	College of Engineering, Vadakara
8	Dr. Bindiya T S	STTP on VLSI Signal Processing Systems Design and Implementation using cadence"	March 1-6, 2016	LBS College of Engineering, Kasaragod
9	Dr. Sudhish N George	Linear Algebra for Bio-medical Signal Processing	November, 2015	Dept. of AEI, MES College of Engineering, Kuttippuram
10	Dr. Sudhish N George	Linear Algebra for Image Processing	November, 2015	Dept. of CSE, College of Engineering, Vadakara
11	Dr. Sudhish N	Linear Algebra in Bio-signal	December, 2015	Dept of EE, NIT Calicut

	George	Processing		
12	Dr. Sudhish N George	Linear Algebra for Signal Processing & Introduction to Sparse Signal Processing	January 2016	Dept. of ECE, College of Engineering, Adoor
13	Dr. Sudhish N George	Introduction to Sparse Signal Processing	March 2016	Dept. of ECE, MA College of Engineering, Kothamangalam
14	Dr. Praveen Sankaran	Emerging trends in Signal Processing	18-23 September	College of engineering, Thalassery
15	Dr. Praveen Sankaran	Recent trends and techniques in Digital Image Processing	Nov 30 – Dec 5 th	College of engineering, Vadakara.
16	Dr. Praveen Sankaran	Recent trends in bio signalprocessing	14-18 Dec	NIT Calicut

(f). Details of Faculty, who acquired Higher Qualification

Sl. No.	Name	Qualification	Area of Specialization	Scheme (QIP/ PT/ FT)
1	Dr. Suja K J	Ph. D	NIT Calicut	PT (Internal)

(g) Participation in Conferences/Seminars/Workshops/other Training programmes

Sl. No.	Name of Staff	Title of the program	Venue	Duration of the Program
1	Ms. Lyla B Das	Intel Academic Forum	Hotel Marriot, New Delhi	Oct 8,9,2015 ,2 days
2	Dr. A V Babu	TENCON 2015 - 2015 IEEE Region 10 Conference	Macau	1-4 Nov. 2015
3	Dr. Deepthi P P	4 th International Conference on Emerging trends in Engineering, Science & Technology (session chair)	GovtEngg College, Thrissur, Kerala	09-12-2015 to 11-12-2015
4	Mr. Dhanaraj K J	2015 International Joint Conference on Neural Networks (IJCNN),	Killamey, Ireland,	July 12-17, 2015
5	Mr. B. Bhuvan	International image sensor workshop	International image sensor workshop	4 days
6	Dr. Suja K J	INUP Hands on training programme on MEMS sensors	IIT Bombay	One week (April 11th to 16th, 2016)
7	Dr. Ameer P M	RAIT 2016 -3rd International Conference on Recent Advances in Information Technology	ISM Dhanbad	3-5 March 2016
8	Mr. Jayakumar EP	2015 International Conference on Machine learning and Signal Processing (MALSIP'2015)	Melaka, Malaysia.	15 – 17 December 2015.

Student Achievements

- Mr. Kevin Jerome of 2011-2015 B.Tech ECE batch was selected as a scholar to participate in “In Residence Programme” at Rashtrapathi Bhavan for NIT students. He participated in the programme for a week during April 11-17, 2015
- Ms.Parvathy R Pillai and Ms. Nimisha Chinnu Jose of B.Tech ECE 2013-17 batch won “WeTech Qualcomm Global Scholars award”. The Award includes Scholarship of USD\$5,000.00 per student, to assist with their expenses during the 2016

- Ms.Parvathy R Pillai and Ms. Nimisha Chinnu Jose of B.Tech ECE 2013-17 batch won “WeTech Qualcomm Global Scholars award”. The Award includes Scholarship of USD\$5,000.00 per student, to assist with their expenses during the 2016 academic year and six months virtual one-on-one mentorship placement with a Qualcomm professional
- No. of Papers Published by B. Tech Students: 8

DEPARTMENT OF MECHANICAL ENGINEERING

a. Publications

i. Journals

Sl. No	Name of the Authors	Title of paper	Journal name	Vol., Page Nos., Year of publication
1	Rohinikumar B C.Muraleedharan	Systematic Design, fabrication and experimental studies on Solar thermal water pump	International Journal of Advance Research In Science And Engineering	IJARSE, Vol. No.4, Issue No.01, 2015
2	M. Mohanraj, S. Jayaraj, and C.Muraleedharan	Applications of artificial neural networks for thermal analysis of heat exchangers - A review	International Journal of Thermal Sciences	90 (2015) 150-172
3	Anil M, Rupesh S, Muraleedharan.C Arun P.	Analysis on the Effect of Turbulence in the Modelling of Fluidized Bed Reactors Using CFD	International Journal of Applied Engineering Research (IAER)	Vol. 10, 2015, pp.7926-7930.
4	Arun K. Mohandas, Rupesh S, C.Muraleedharan Arun	Simulation of Air-Steam Gasification of Rice Husk Using Aspen Plus	International Journal of Advances In Production and Mechanical Engineering	Vol.1, 2015, pp. 22-26.
5	Sekar, K. Allesu, K and Joseph, M.A	Mechanical and wear properties of Al-Al ₂ O ₃ metal matrix composites fabricated by the combined effect of stir and squeeze casting method	Transactions of The Indian Institute of Metals	Vol. 68(2), 2015, pp. 115-121
6	S. Rani, M.L. Joy, K. Prabhakaran Nair	Evaluation of physiochemical and tribological properties of rice bran oil – biodegradable and potential base stock for industrial lubricants	Industrial Crops and Products	Volume 65, March 2015, Pages 328–333
7	S. Rani, M.L. Joy, K. Prabhakaran Nair	A comparative study of polymeric additives as biodegradable viscosity boosters for biolubricant formulations	Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology	2015
8	M. Mubarak, A. Shaija, T.V.Suchithra	A review on the extraction of lipid from microalgae for biodiesel production	Algal Research	Vol 7, pp 117-125, 2015
9	B. Kuriachen, K.P.Somashekhar and Jose Mathew	Multiresponse Optimization of Micro-Wire Electrical Discharge Machining Process	International Journal of Advanced Manufacturing Technology	76(1-4),91-104,2015
10	K.P.Somashekhar, S. Panda, J. Mathew, N.Ramachandran	Numerical Simulation of Micro-EDM Model With Multi-Spark	International Journal of Advanced Manufacturing Technology	76(1-4), 83-90,2015
11	Monikandan V.V.	Tribological behavior of	Materials Research	Vol.2, No.1

	Joseph M.A. Rajendrakumar P.K.Sreejith M.	liquid metallurgy- processed AA 6061-B4C composites	Express	DOI:10.1088/2053- 1591/2/1/016507, 2015
12	Chacko Preno Koshy Rajendrakumar P.K. Manu V. Thottackkad	Evaluation of the tribological and thermo- physical properties of coconut oil added with MoS ₂ nanoparticles at elevated temperatures	Wear	Vol.330, (2015), pp. 288- 308
13	Pratheesh Krishnankutty, Allesu Kanjirathinkal, M. A. Joseph and M. Ravi	Effect of Aging Time on Mechanical Properties and Wear Characteristics of Near Eutectic Al-Si- Cu-Mg-Ni Piston Alloy	Transactions of Indian Institute of Metals	Vol.68(1), 2015,pp.25-30
14	K. Pratheesh, Allesu Kanjirathinkal, M. A. Joseph and M. Ravi	Study on the Effects of Squeeze Pressure on Mechanical Properties and Wear Characteristics of Near Eutectic Al-Si- Cu-Mg-Ni Piston Alloy with Variable Mg Content	Transactions of Indian Institute of Metals	Vol.68(1), 2015,pp.59-66
15	K. Pratheesh, M. Ravi, A. Kanjirathinkal and M. A. Joseph	Effects of Sr and pressure on microstructure, mechanical and wear properties of neareutectic Al-Si piston alloys	International Journal of Cast Metals Research	DOI: http://dx.doi.org/10.1179/1743133615Y.0000000016 , 2015
16	S. Rupesh, C. Muraleedharan, P. Arun	A Comparative Study of Gaseous Fuel Generation Capability of Biomass Materials by Thermo-chemical Gasification Using Stoichiometric Quasi Equilibrium Model	International Journal of Energy and Environment Engineering	Vol.6, issue 4, 375 – 384,2015
17	Rakesh Hari, Tom Jolly, C. Muraleedharan	Analysis of two-phase flow in the capillary wick structure of flat heat pipe with different orientation	International Journal of Thermal Technologies	Vol. 5, No. 1, 2015, pp. 63-69
18	Suhaile P M, Rupesh S, Muraleedharan C, Arun P	Analysis on the Dynamic Behaviour of Fluidized Bed Reactor	Numerical, Applied Mechanics and Materials.	(In press)
19	Anil M, Rupesh S, MuraleedharanC, Arun P	Analysis On The Effect of Turbulence In The Modelling Of Fluidized Bed Reactors Using CFD	International Journal of Applied Engineering Research (IJAER)	Print ISSN : 0973-4562 Online ISSN : 1087--1090
20	Kuriachen, B., and Mathew, J	Experimental Investigations into the Effects of MicroElectric- Discharge Milling Process Parameters on Processing Ti-6Al-4V	Materials And Manufacturing Processes	<u>Vol. 30</u> , Issue 8, 2015
21	Kuriachen, B., and Mathew, J	Spark radius modeling of resistance-capacitance pulse discharge in micro- electric discharge machining of Ti-6Al-4V: an experimental study	International Journal of Advanced Manufacturing Technology	Vol.85, issue 9, 1983 – 1993,2016
22	Rani S ,Joy ML and Prabhakaran Nair K	Evaluation of physic- chemical and tribological properties of rice bran oil-biodegradable and potential base stock for industrial lubricants	Industrial Crops And Products	Vol65, 2015, 328-333

23	Rani S ,Joy ML and Prabhakaran Nair K	A comparative study of polymeric addition as biodegradable viscosity booster for bio lubricant formulation	Proceedings IMechE, Part-J Journal of Engineering Tribology	2015,1-7
24	V. V. Monikandan, Jibin, C. Jacob, M. A. Joseph, P. K.Rajendrakumar	Statistical Analysis of Tribological Properties of Aluminum Matrix Composites Using Full Factorial Design	Transactions of Indian Institute of Metals	68, S53–S57 2015
25	Lavish Kumar Singh, A. Srinivasan, U. T. S. Pillai, M. A. Joseph, B. C. Pai	The Effect of Yttrium Addition on the Microstructure and Mechanical Properties of Mg Alloys	Transactions of Indian Institute of Metals	2015 68(3):331–339
26	V V Monikandan, M A Joseph, P K Rajendrakumar and M Sreejith	Tribological behavior of liquid metallurgy-processed AA 6061-B4C composites	Materials Research Express (IOP)	2 (2015)
27	Amith Aravind, M.L.Joy, K.Prabhakaran Nair	Lubricant properties of biodegradable rubber tree seed (Hevea brasiliensis Muell. Arg) oil	Journal of Industrial Crops and Products	74, (2015), 14-19
28	Chacko P.K., Rajendrakumar P.K., Manu V.T	Analysis of Tribological and Thermo-physical Properties of Surfactant-Modified Vegetable Oil-Based CuO Nano-lubricants at Elevated Temperatures – An Experimental Study	Tribology Online	Vol. 10, No. 5, (2015), pp. 344-353
29	Monikandan, V.V., Joseph, M.A., Rajendrakumar, P.K. and Sreejith, M	Tribological behavior of liquid metallurgy-processed AA 6061-B4C composites	Materials Research Express	Vol.2, No.1, (2015), 016507
30	John, S. T., Sridharan, R. and Ram Kumar, P.N	Multi-period reverse logistics network design with emission cost	International Journal of Logistics Management	Accepted for publication 2015
31	John, S. T. and Sridharan, R	Effect of grading of product return on the network design of a reverse supply chain: A comparative study'	International Journal of Applied Management Science	Vol. 7, No. 2, pp. 142-163 2015
32	John, S. T. , Sridharan, R. and Kumar R. K.	Modelling and analysis of network design for a reverse supply chain'	Journal of Manufacturing Technology Management	2015 ', (in Press).
33	Arun P	Optimum Design of Biomass Gasifier Integrated Hybrid Energy Systems	International Journal of Renewable Energy Research	5(3), 891-895, 2015
34	Rupesh S, Muraleedharan C., and Arun P	A Comparative Study on Gaseous Fuel Generation Capability of Biomass Materials by Thermo-chemical Gasification using Stoichiometric Quasi-steady-state Model	International Journal of Energy and Environmental Engineering	Available online, June 2015
35	Sreejith C.C., Muraleedharan C., and Arun P	Air-steam Gasification of Biomass in Fluidized Bed with CO ₂ Absorption: A Kinetic Model for Performance Prediction	Fuel Processing Technology	130, 197-207, 2015

36	Salumuri S. Lingeswara Rao, Shaija A, Jayaraj S	Metamodel optimization of operating parameters of a PEM fuel cell for maximum current density without membrane dehydration	International Journal on Power Engineering and Energy	Vol.6 (2), 2015, pp. 531-541
37	V. Vinod, Bipin Balaram, M. D. Narayanan and Mihir Sen	Effect of oscillator and initial condition differences in the dynamics of a ring of dissipative coupled van der Pol oscillators	Journal of Mechanical Science and Technology	29 (5) (2015), 1931-1939
38	T Pamulety, V Pillai	Effect of customer demand information sharing on a four-stage serial supply chain performance: an experimental study	Uncertain Supply Chain Management	(1), 1-16 2016
39	KP Abdul Nazar, VM Pillai	A Bit-Wise Mutation Algorithm for Mixed Model Sequencing in JIT Production Systems	International Journal of Production Research	Vol.54, issue 16, 2016
40	Binu Thomas, Eby David and R. Manu	Empirical modelling and parametric optimisation of surface roughness of silicon carbide advanced ceramics in surface grinding	International Journal of Precision Technology	Vol. 5, Nos. 3/4, 2015
41	L Gangadhara Kiran Kumar, Shailesh Ranjan Kumar and Sudhakar Subudhi	Experimental study of the turbulent free convection over horizontal smooth or grooved surfaces in an open cavity	Heat and Mass Transfer	DOI 10.1007/s00231-015-1559-6
42	Jagadeesha T and T. J. Sarvoththama Jothi	Studies on the influence of process parameters on the AISI 316L resistance spot-welded specimens	International Journal of Advanced Manufacturing Technology	DOI: 10.1007/s00170-015-7693-y
43	C.M. Shone and T.J.S. Jothi	Preparation of Gasification feedstock from leafy biomass	Environmental Science and Pollution Research	, Vol. 23, Issue 10, 9364-9372, 2016
44	U.B. Jayadeep, M.S. Bobji, and C.S	A body-force formulation for analyzing adhesive interactions with special considerations for handling symmetry	Finite Elements in Analysis and Design	Vol. 117-118, page 1-10. 2016
45	A.M. Ajith, A. P. Sudheer,	Modelling and Feasibility Study of the Biomimetic Undulating Fin of a Knife fish Robot (Part 1)	Journal of Automation, Mobile Robotics & Intelligent Systems	pp.11-19,vol.10,no.1.2016
46	A.M. Ajith, A. P. Sudheer,	Modelling and Feasibility Study of the Biomimetic Undulating Fin of a Knife fish Robot (Part 2)	Journal of Automation, Mobile Robotics & Intelligent Systems	vol.10,no.1., 26-33,,2016

ii. International and National Conference

Sl. No	Name of the Author	Title of Paper	Name of International conference	Vol., Year, p.p.
1	K P Abdul Nazar, V Madhusudanan Pillai	Mixed Model Production Sequencing in an Automobile Industry: A Case Study	Twelfth AIMS International Conference on Management, January 2-5, 2015 at IIM, Kozhikode, India	1427 – 1433 2015
2	Anjana K, Sudheer A. P, Mija S. J	Optimal Trajectory Tracking and Control of 2	2 nd International Conference on Emerging	30 th April, 1 st , 2 nd May 2015, SAINTGITS College

		DOF Robotic Manipulator	Trends in Technology and Applied Sciences	of Engineering, Kottayam, Kerala, India, pp. 83-86
3	Ayjuk J. R., Panicker, V.V., and Sridharan R	Tail Assignment with Multiple Maintenance Locations Using Network Model	Proceedings of the Twelfth AIMS International Conference on Management , Jointly organized by Indian Institute of Management Kozhikode and AIMS International, at Indian Institute of Management Kozhikode	January 2-5, 2015
4	Jabir, E., Panicker, V.V., and Sridharan R	Modelling and Analysis of a Green Vehicle Routing Problem	Proceedings of the Twelfth AIMS International Conference on Management , Jointly organized by Indian Institute of Management Kozhikode and AIMS International, at Indian Institute of Management Kozhikode	January 2-5, 2015
5	Eldhose K. Joy, Jilse Sebastian, C.Muraleedharan A. Santhiagu	Kinetic and experimental optimization for esterification of high free fatty acid rubber seed oil	International Conference on New Frontiers in Chemical, Energy and Environmental Engineering, (INCEEE-2015),	NIT Warangal, March 20-21, 2015
6	Anil M, Rupesh S, Muraleedharan.C, Arun P	Analysis On The Effect Of Turbulence In The Modelling Of Fluidized Bed Reactors Using CFD	International Conference on Engineering, Technology and Science, (ICETS'15)	March 5th and 6th 2015, Muthayammal College of Engineering, Rasipuram
7	Ojus Mohan, Rupesh S, Muraleedharan.CArun P	steady state model for fluidised bed biomass gasification with CO2 absorption	International Conference on New Frontiers in Chemical, Energy and Environmental Engg. (INCEEE-2015),	NIT Warangal, March 20-21, 2015
8	S. Rupesh, C. Muraleedharan, P. Arun	Modeling and Simulation of Air Steam Gasification of Biomass Using CO2 Sorbent	24th National conference on IC Engines and Combustion, 30 Oct-1 Nov 2015	University of Petroleum and Energy Studies Dehradun, Uttarakhand 30 th Oct-1 Nov 2015
9	Saijal K K, K prabhakaran nair, M L Joy	Robust optimal trailing edge flaps for helicopter vibration reduction for various flying conditions	ASME congress and exposition ,IMECE 2015	Nov 13-15, Houston, Texas, USA
10	Rajesh Kana, A. Shaija, R. P. S. Parihar	Effect of the Magnetic Field on Fuel Consumption and Exhaust Emissions of Diesel Engine	24 th National conference on I.C engines and combustion,	University of Petroleum and Energy Studies Dehradun, Uttarakhand 30 th Oct-1 Nov 2015
11	M. Mubarak, A.C Pradosh, A. Shaija	Performance and Emission Analysis of Diesel Engine Using Microemulsion Blends Produced from Salviniamolesta	24 th National conference on I.C engines and combustion,	University of Petroleum and Energy Studies Dehradun, Uttarakhand 30 th Oct-1 Nov 2015
12	G. Srinivasa Rao, Kampa Ashirvadam, A. Shaija	Acoustic Analysis of Screech liner for Mitigation of Instabilities in Afterburner	24 th National conference on I.C engines and combustion,	University of Petroleum and Energy Studies Dehradun, Uttarakhand 30 th Oct-1 Nov 2015
13	Shaiju M R, Arun P and Jayaraj S	Health Assessment of Gas Turbine Compressor using Process History Based Modelling Approach	Proceedings of the ASME 2015 Gas Turbine India Conference GTINDIA2015	December 2-3, 2015, Hyderabad

14	R. Sridharan	National Conference on Healthcare Excellence through Administration and Leadership (HEAL),	Baby Memorial Hospital, Calicut	November 20-21, 2015
15	Sayyid Mahmood Thangal K. V, Eby David, Manu R	Experimental Investigation on single grit grinding of aluminium based metal matrix composites	International Conference on Precision, Meso, Micro and Nano Engineering (COPEN: 9)	IIT Bombay 10-12 th December 2015
16	Fenu K, Ladeesh V.G, Manu R	An Experimental Investigation on effect of Electrolyte Temperature on material removal rate in Grinding assisted Electrochemical Discharge Drilling (G-ECDD)	International Conference on Precision, Meso, Micro and Nano Engineering (COPEN: 9)	IIT Bombay 10-12 th December 2015
17	Ladeesh V.G, Manu R	Investigation on reduction in edge-chipping during Grinding assisted Electrochemical Discharge Drilling (G-ECDD): Finite element analysis and experimental validation	International Conference on Precision, Meso, Micro and Nano Engineering (COPEN: 9)	IIT Bombay 10-12 th December 2015
18	Ladeesh V.G, Manu R	An Investigation on the Effect of Machining Parameters on Grinding assisted Electrochemical Discharge Drilling (G-ECDD) Performance	International Conference on Precision, Meso, Micro and Nano Engineering (COPEN: 9)	IIT Bombay 10-12 th December 2015
19	Himesh K U, Ramachandran N, Manu R	Influence of Friction Stir Welding Parameters on Microstructure & Mechanical Properties of Dissimilar Al 6061 / Al 7075 Butt Weld	Proceedings of International Conference on Advances in Materials, Manufacturing and Applications (AMMA 2015)	National Institute of Technology, Trichy April 9-11, 2015
20	V.G. Ladeesh, R. Manu	A Mathematical Model for Surface Roughness in Grinding Assisted Electrochemical Discharge-Machining (G-ECDM)	Proceedings of International Conference on Advances in Materials, Manufacturing and Applications (AMMA 2015)	National Institute of Technology, Trichy April 9-11, 2015
21	Vahid K., Manu R., Ramachandran N	Machinability Study of Inconel 625	INDO-BRAZIL Bilateral International Conference on Advanced Materials and Manufacturing – ICAMM 2015	Tirunelveli-TN/INDIA, March 27-28, 2015
22	Sayyid Mahmood Thangal K. V, Eby David, Manu R	Enhanced Stir Casting Route For Fabrication of AA336-SiC Composites	INDO-BRAZIL Bilateral International Conference on Advanced Materials and Manufacturing – ICAMM 2015	Tirunelveli-TN/INDIA, March 27-28, 2015
23	Pranit Himanshu Rana, T.J.S. Jothi, L.G. Kiran Kumar	Experimental Investigation of Laminar Submerged Jet	17 th ISME conference on Advances in Mechanical Engineering	3-4 October 2015, New Delhi, India
24	Sobhitha Venugopal, N Ramachandran and K Sekar	Investigation on microstructure and mechanical properties of stir cast Al7475/SiC composites and wear ratemodelling using RSM	International Conference on Precision, Meso, Micro and Nano Engineering (COPEN: 9)	IIT Bombay, India, 2015, pp. 1-6.

25	T.J.S. Jothi and K. Srinivasan	Screech characteristics during mode change in underexpanded pipe jets	22nd International Conference on Sound and Vibration (ICSV22)	12-16 July 2015, Florence, Italy
26	Pranit Himanshu Rana, T.J.S Jothi, L.G. Kiran Kumar	Scalar concentration characteristics of a free jet	42 nd National Conference on Fluid Mechanics and Fluid Power (FMFP2015)	December 14-16, 2015, NITK Surathkal, Karnataka, India
27	Rajesh T.N., T.J. Sarvoththama Jothi and T. Jayachandran	Cold Flow Investigation of flow behavior in a vortex combustion cold wall chamber	42 nd National Conference on Fluid Mechanics and Fluid Power (FMFP 2015)	December 14-16, 2015, NITK Surathkal, Karnataka, India
28	Rajesh T.N., T.J. Sarvoththama Jothi and T. Jayachandran	Analysis of vortex combustion cold wall chamber	23 rd National Heat and Mass Transfer and 1st International ISHMT-ASTFE Heat and Mass Transfer Conference	VSSC, Trivandrum Kerala December 17-20, 2015
29	Nithish Kumar, T.J.S. Jothi and N. Selvaraju	Critical heat flux study in nanofluids	23 rd National Heat and Mass Transfer and 1st International ISHMT-ASTFE Heat and Mass Transfer Conference	VSSC, Trivandrum Kerala December 17
30	V.M. Sreeradh, T.J.S. Jothi and S. Jayaraj	Flame Characteristics of a gasoline droplet in natural and forced convective environment	23 rd National Heat and Mass Transfer and 1st International ISHMT-ASTFE Heat and Mass Transfer Conference	VSSC, Trivandrum Kerala December 17
31	Rahul Kumar and T.J.S Jothi	Experimental Studies on Thermal Efficiency of Combustion in Porous Media	2nd International Conference on Thermal, Energy and Environment	March 25-26, 2016, Kalasalingam University, Krishnankoil, Tamil Nadu
32	Rakesh L and T.J.S Jothi	Flow Characteristics of a Rectangular Jet	2nd International Conference on Thermal, Energy and Environment	March 25-26, 2016, Kalasalingam University, Krishnankoil, Tamil Nadu
33	Mirji Omkar Ravindra, and T.J.S. Jothi	Propagation of Premixed Flame in an open-closed ends tube	2nd International Conference on Thermal, Energy and Environment	March 25-26, 2016, Kalasalingam University, Krishnankoil, Tamil Nadu.
34	Ajith A M Sachin K S Sudheer A. P.	Design, Fabrication and Analysis of a bio-inspired Tuna fish robot	The international conference on Advances in Robotics conference (AIR)	2015 July 2 nd -4 th . BITS Goa
35	Ajith A M Sourabh Moitra Sudheer A. P.	Parameter optimization and experimentation of the undulating fin of a knife fish robot	The international conference on Advances in Robotics conference (AIR)	2015 July 2 nd -4 th . BITS Goa
36	Arlene John Aravind E Vijayan Sudheer A.P.	Electromyography based control of Robotic Arm using entropy and Zero Crossing Rate	The international conference on Advances in Robotics conference (AIR)	2015 July 2 nd -4 th . BITS Goa
37	Anjana K Sudheer A P Mija S J	Robust Trajectory Tracking Controller for 5 Degree of freedom Robotic Manipulator	The international conference on Advances in Robotics conference (AIR)	2015 July 2 nd -4 th . BITS Goa
38	Aakrati Agrawal Sudheer A. P. Ashok S.	Ant Colony Based Path Planning for Swarm Robots	The international conference on Advances in Robotics conference (AIR)	2 nd -4 th July.2015 BITS Goa
39	SuarjDamodaran Sudheer A.P. T.K. Sunil kumar	An evaluation of spatial mapping of indoor environment based on point cloud registration using Kinect sensor	2015 International conference on control communication & computing India (ICCC)	2015 November 19 th -21 st . Trivandrum

40	Anjana K Sudheer A P	Optimal trajectory tracking and control of 2 DOF robotic manipulator	International conference on emerging trends in technology and applied sciences	2015 April 30 th & 1 st , 2 nd May. Kottayam Kerala
41	P. Prasanth, M. Mubarak, A. Shaija	Effect of air sparging and Nitrogen on the growth and lipid accumulation of Chlorella pyrenoidosa	2nd International Conference on Thermal, Energy and Environment (INCOTEE), Kalasalingam University, Tamil Nadu.	March 25&26, 2016.
42	K. Varun Sankar, S, Rajesh Kana, A. Shaija	Experimental optimization of Avocado oil methyl ester production and diesel engine performance study	2nd International Conference on Thermal, Energy and Environment (INCOTEE), Kalasalingam University, Tamil Nadu.	March 25&26, 2016.
43	Tomson Sebastian, A. Shaija	Design and fabrication of novel Fresnel lens solar collector for daylighting and water heating	National Conference on Solar Thermal Energy Technologies, IIT Jodhpur, Rajasthan.	26-28 February, 2016.
44	Awad Dhondiba, Kuriachen B, Jose Mathew	Modeling and Experimental Investigation of Low Frequency Work piece Vibration-Assisted Micro Electric Discharge Milling on Titanium Alloy	International Conference on Precision, Meso, Micro and Nano Engineering (COPEN: 9)	IIT Bombay 10-12th December 2015
45	Deepak G Dilip, George John, Satyananda Panda, Jose Mathew	Numerical Modeling and Multi-Objective Optimization of Process Parameters in Micro-EDM Drilling on Inconel-718	International Conference on Precision, Meso, Micro and Nano Engineering (COPEN: 9)	IIT Bombay 10-12th December 2015
46	Kuriachen B., Somashekhar K.P., Jose Mathew	A feasibility study to optimize micro electric discharge drilling of Inconel 718 using Ant Colony Optimization	International Conference on Precision, Meso, Micro and Nano Engineering (COPEN: 9)	IIT Bombay 10-12th December 2015
47	Patil Deepak, Kuriachen B., Jose Mathew	Modeling of Thermal Residual Stress during Micro-Electrodischarge Machining of Titanium Alloy	International Conference on Precision, Meso, Micro and Nano Engineering (COPEN: 9)	IIT Bombay 10-12th December 2015
48	Subrahmanyam A, Nithinraj M., Deepak G Dilip, Jose Mathew	Electro-Thermal Modeling of Temperature Distribution in Tool Electrode during Micro EDM	International Conference on Precision, Meso, Micro and Nano Engineering (COPEN: 9)	IIT Bombay 10-12th December 2015
49	Vipindas K., Anchana P., Anand Krishnan N., Jose Mathew	Characterization of Chip Geometry and Surface Roughness During Micro End Milling on Ti-6Al-4V	International Conference on Precision, Meso, Micro and Nano Engineering (COPEN: 9)	IIT Bombay 10-12th December 2015
50	Vipindas K., Anand Krishnan N., K. Jayakumar, Jose Mathew	Modeling and Experimental Investigation of Cutting Forces During Micro End Milling on Titanium Alloy	International Conference on Precision, Meso, Micro and Nano Engineering (COPEN: 9)	IIT Bombay 10-12th December 2015

b. **Community Services:**

Sl. No	Name	Nature of Service	Organization
1	L.G. Kiran Kumar	Children education, Swatchh Institute Abhiyan, Organ Donation Initiative	NSS

2	A. Shaija	1) Sponsoring a 3rd year B. Tech student for studies 2) Contributing for Pain & Palliative care 3) Contributing for Bal Sadanam kids 4) Contributing for building houses for poor and needy persons 5) Sponsoring for Santhawan trust for rehabilitation of Kutharavattom residents	
3	A. Shaija	Nominated as Executive Committee Member since 2013	Combustion Institute-Indian Section
4	A. Shaija	Nominated as Jury member, 'Yuva Master Mind'	Sponsored by Malayala Manorama in Kottayam, 29 & 30 January, 2016
5	N. Ramachandran	TEQIP Screening Committee Member	Government Engineering College, Thrissur

c. Other Academic and Administrative Service

SL. No	Name of Staff	Academic and Administrative Services
1	N. Ramachandran	<ul style="list-style-type: none"> Head of the Mechanical Engineering Department Since November 2015
2	Allesu K	<ul style="list-style-type: none"> Secretary, CREC Silver Jubilee Endowment Trust
3	M. L. Joy	<ul style="list-style-type: none"> Tribology Lab in charge Faculty Advisor Class committee Chairman
4	P.K. Rajendra Kumar	<ul style="list-style-type: none"> Co-ordinator, Design Innovation Centre Programme Co-ordinator, M.Tech. (Machine Design)
5	C. Muraleedharan	<ul style="list-style-type: none"> Programme Coordinator, MTech Energy Engg & Management
6	G. Varaprasad	<ul style="list-style-type: none"> Faculty Advisor MED computer In-charge
7	T.J.S. Jothi	<ul style="list-style-type: none"> Mechanical Engineering Association Faculty Incharge Club Unwired - Aero Faculty Incharge
8	K. Sekar	<ul style="list-style-type: none"> Faculty Advisor Material Science Lab Incharge
9	A. Shaija	<ul style="list-style-type: none"> Faculty-In Charge, Thermal Science Laboratory Class Committee Chairman Final year Production Member, Quarters allotment Committee - Institute level Project Evaluation Committee – M.Tech in Energy management Executive member - Combustion Institute (Indian Section) 2013 onwards Set up of Fuel cell lab and Green energy lab B.Tech Project Coordinator
10	Jose Mathew	<ul style="list-style-type: none"> Institute Coordinator, NBA Accreditation Chairman, S6 Mechanical Professor in Charge, Advanced Manufacturing Centre, Sophisticated Instruments Centre and CAD/CAM Centre Members of various academic and evaluation committees Ph.D. Examiner to NIT/IIT Students Reviewer to many international and national journals/conferences National Advisory Committee (NAC) member of AIMTDR, COPEN, etc.

11	M.A. Joseph	<ul style="list-style-type: none"> • MED Time Table In-charge • Course Coordinator of M.Tech- Materials Science and Technology
12	Vinay V Panicker	<ul style="list-style-type: none"> • Deputy Chairperson Post Graduate Admissions (November 2013 – till date) • Purchase Coordinator (TEQIP II) for Dept. of Mech. Engg. (October 2013 – till date) • Secretary – Department of Mechanical Engineering (October 2013 – till date) • Faculty-in-charge of Adventure Club (July 2010 onwards – till date) • Faculty in-charge Industrial and Planning Forum (July 2015 – till date)
13	R. Sridharan	<ul style="list-style-type: none"> • Dean – Faculty Welfare from 05-02-2014 to till date
14	Ghulam Jilani	<ul style="list-style-type: none"> • Coordinator, PhD Programme in MED • Course Coordinator, ZZ1002, Engg. Graphics
15	M. Srinivas	<ul style="list-style-type: none"> • Faculty adviser • Warden- Mega hostel
16	L.G. Kiran Kumar	<ul style="list-style-type: none"> • Faculty-In Charge, Fluid Mechanics and Machinery Laboratory • NSS program officer • Warden - Mega hostel
17	A.P. Sudheer	<ul style="list-style-type: none"> • Faculty Advisor – S3 – S4 PE • Warden –IH & Mega boys hostel. • Webmaster-MED • M.Tech project Evaluation Committee member –MMT • NSS programe officer –MED • Mechatronics/Robotics laboratory in Charge • Faculty in Charge-RIG, NITC.
18	P.V. Manu	<ul style="list-style-type: none"> • M.Tech Evaluation committee member • Heat Engine Lab Incharge • Faculty Advisor
19	S. Jayaraj	<ul style="list-style-type: none"> • M.Tech Thermal Science Coordinator
20	R. Manu	<ul style="list-style-type: none"> • Coordinator- MED Purchase Committee • In-charge for Central workshop
21	UB Jayadeep	<ul style="list-style-type: none"> • Faculty Advisor of B.Tech. PE students, • MED B.Tech. first year coordinator. • Faculty coordinator, Design Innovation Centre, NITC (along with Prof. P.K. Rajendrakumar, MED)
22	P. Arun	<ul style="list-style-type: none"> • Treasurer, Parents Teachers Association • Reviewer- Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, International Journal of Green Energy, Clean Technologies and Environmental Policy, Energy, International Journal of Thermal Sciences, International Journal of Renewable Energy Research, Process Safety and Environmental Protection • Institute vehicle In-charge
23	M.D. Narayanan	<ul style="list-style-type: none"> • Faculty Advisor of B.Tech. E1 Batch, 2015 admission • Member, Examination Vigilance Cell • Member, M.Tech.(Machine Design) Project Evaluation Committee • Chairman, BTech. Project Evaluation Committee of Design group • Coordinator, ME4097 Seminar
24	PB Dhanish	<ul style="list-style-type: none"> • Secretary of the NITC Alumni Association. • Coordinator, Exam Timetable for MED as well as Institute. • Chairman, Class Committee, S3 Monsoon 2015 and S4 Winter 2016 • Faculty Advisor for S5 Monsoon 2015 and S6 Winter 2016. • Lab in charge - Metrology lab.

d Conferences/Summer/Winter School/Short term Courses/ Workshops conducted

Sl. No	Title	Coordinators	Duration & Period
1	CFD WORKSHOP Using Open Source Software	T.J.S. Jothi	27-28 June 2015

2	TEQIP Sponsored National Meet for Research scholars in Mechanical Engineering	T.J.S. Jothi and A. Shaija	3- 4 July 2015, NIT Calicut
3	Introductory Robotics Workshop - 2015 at NITC	A.P. Sudheer	19-09-2015 to 20-09-2015, NIT Calicut
4	Stress Management, NITC	R. Sridharan	November 07, 2015. NIT Calicut
5	Innovative Strategies in Communication	R. Sridharan	November 14, 2015 NIT Calicut
6	Research Writing: Technical and Language Aspects	R. Sridharan	February 28, 2016 NIT Calicut
7	Three-Day Workshop on Product Design	P.K. Rajendrakumar & U.B. Jayadeep	February 26-28, 2016. NIT Calicut
8	TEQIP Sponsored experts lectures on Creep, Fatigue and Fracture of materials	T. Jagadeesha	5th March 2016, NIT Calicut

e Expert lecturers delivered in Conferences/Seminar/workshops

Sl. No.	Name of Staff	Duration and Period	Title of the Programme	Organization
1	Dr. Madhusudanan Pillai V	07/03/2015	FDP	Adishankara Institute of Engg. and technology
2	Dr. K. Prabhakaran Nair	20/03/2015	FDP	KPR Institute of Engg. Coimbatore
3	Dr. Gangadhara Kiran Kumar L	May 5 -16, 2015	FDP on Solar Energy Utilization	National Institute of Technology Calicut.
4	Dr. Vinay V Panicker	15-21, January 2015	Workshop on Engineering Optimization Techniques	Department of Mechanical Engineering, Adi Shankara Institute of Engineering & Technology, Kalady, Ernakulam, Kerala
5	Dr. Arun P	February 22-26, 2016	State of the Art of Solar Energy Technologies	Department of Mechanical Engineering, College of Engineering Adoor
6	Dr. Arun P	May 5-16, 2015	'Design and Analysis of Energy Systems: Hybrid Systems for Remote Electrification', Solar Energy Utilization	Department of Mechanical Engineering, NIT Calicut
7	Dr. Vinay V. Panicker	May 7, 2016	Career in Mechanical and Production Engineering in IEEE roadmap to success in engineering studies 2016	IEEE Malabar Chapter and Institution of Engineers.
8	Dr. Sudheer A.P	10th February, 2016	Robotics and Industrial Automation	Jyothi Engg college Trissur
9	Dr. A. Shaija	May 5 -16, 2015	FDP on Solar Energy Utilization	National Institute of Technology Calicut.

f Details of Faculty, who acquired Higher Qualification:

Sl. No.	Name of Staff	Qualification Acquired	Organization
1	Dr. M. Srinivas	PhD	NIT Calicut
2	Dr. T. Jagadeesha	PhD	JNTU Hyderabad
3	Dr. L.G. Kiran Kumar	PhD	IIT Guwahati
4	Dr. A.P. Sudheer	PhD	NIT Calicut
5	Dr. K. Sekhar	PhD	NIT Calicut

g Consultancy and testing:

Sl. No	Nature of Service	Organization	Revenue earned	Status
1	Calibration of spirit level	M/s KK Engg Contractors, Kadalundi Nagaram	Rs 855.00	Completed

2	Measurement of powder coating thickness	M/s CPWD, Kannur	Rs 855.00	Completed
3	Measurement of plating thickness	M/s KSEB Sub Regional Store, Tirur	Rs 855.00	Completed
4	Measurement of plating thickness	M/s Airport Authority of India, Calicut	Rs 6840.00	Completed
5	Measurement of plating thickness	M/s Airport Authority of India, Calicut	Rs 7695.00	Completed
6	Measurement of plating thickness	M/s KSEB Sub Regional Store, Calicut	Rs 2290.00	Completed
7	Measurement of plating thickness	M/s KSEB Sub Regional Store, Calicut	Rs 2977.00	Completed
8	Measurement of plating thickness	M/s KSEB Sub Regional Store, Tirur	Rs 2290.00	Completed
9	Measurement of powder coating thickness	M/s CPWD, Kannur	Rs 5130.00	Completed
10	Measurement of plating thickness	M/s KSEB Sub Regional Store, Calicut	Rs 5700.00	Completed
11	Calibration of measuring instruments	Govt Nursing College, Calicut	Rs 6956.00	Completed
12	Measurement of Surface Roughness	College of Engineering, Thalassery	Rs 1145.00	Completed
13	Measurement of Surface Roughness	College of Engineering, Thalassery	Rs 573.00	Completed
14	Measurement of plating thickness	M/s KSEB Sub Regional Store, Calicut	Rs 4580.00	Completed
15	Training for 15 students in Metrology	M/s NTTF Tellicherry	Rs54270.00	Completed
16	Training for 15 students in Metrology	M/s SIDCO TRTC, Pantheerankavu	Rs 22800.00	Completed
17	Dimensional measurement of components	M/s Kerala SIDCO TRTC, Pantheerankavu	Rs 2863.00	Completed
18	Dimensional measurement of components	M/s College of Engineering, Thalassery	Rs. 916.00	Completed

h Participation in Conferences/Seminars/Workshops/other Training programmes

Sl. No	Name of Faculty	Title of the Programme	Duration and Period	Organisation
1	Dr. UB Jayadeep	International workshop on computational methods in vibration and acoustics	March 16-21, 2015	ISM Dhanbad
2	Dr. A.P. Sudheer	A Three days National Exhibition and symposium on Innovative and Futuristic Approaches in Science and Technology	26-02-2015 to 28-02-2015	Maulana Azad National Institute of Technology, Bhopal
3	Dr. A.P. Sudheer	The International Conference on Advances in Robotics-2015	02-07-2015 to 04-07-2015	Robotics Society of India and BITS Pilani K K Birla Goa Campus
4	Dr. K. Sekar	TEQIP Sponsored National Meet for Research scholars in Mechanical Engineering	3- 4 July 2015	Department of Mechanical Engineering, NIT Calicut
5	Dr. Vinay V Panicker	International Summer and Winter Term (ISWT) course on Ergonomics & Human Factors Engineering	December 7-18, 2015	IIT Kharagpur

i. Patents acquired and filed

Sl. No	No	Name of Staff	Title	Year
1	Patent application number: 2136/CHE/2015	A.P. Sudheer, Ajin Baby, Hariram Shankar, Murali Gopal M., Thomas Joseph	Deployable / Retractable Prefabricated Building Structure	The Government of India, Patent office has allotted the following request number: 3838/RQ-CHE/2015
2	Patent application number 6094/CHE/2014	A.P. Sudheer, Jibin Rajan Varghese	Radial robotic friction gripper	The Government of India, Patent office

j Books published:

- Dr. K. Prabhakaran Nair and P. Dhanraj, Finite Element Methods, Oxford University Press
- Dr. T. Jagadeesha, Hydraulics and Pneumatics, I.K. International Publishing House Pvt. Ltd. New Delhi
- Dr.T.Jagadeesha, Unconventional Machining Process, I.K. International Publishing House Pvt. Ltd. New Delhi

DEPARTMENT OF MATHEMATICS

a. Publications

i. Journals

Sl No.	Name of the Author	Title of Paper	Name of Journal	Vol., year, page no.
1.	Abdushukoor K M Sushama C M	Trip Generation Model in fuzzy environment	Jamal Academic Research Journal	ISSNNo.0973-0303, 2015, 225-228
2.	Shinoy George M A Sushama C M	Ranking the Decision Making Units using a Set of Common Weights	International journal of Advances in Engineering Science and Technology	ISSN 2319 – 1120, 2015
3.	Siju K C and M. Kumar	Reliability measures and cost analysis of parallel systems with time dependent failure rates in the presence of failure dependence function.	International Journal of Statistics and Reliability Engineering.	Vol 2(1) (2015), (ISSN:2350174), 41-58
4.	Siju K C and M. Kumar	System reliability estimation and cost analysis of series-parallel systems in the presence of repair dependence function.	International Journal of Reliability and Safety	Vol 10, No. 1(2016), 48-71.
5.	S. Parida, S.Panda a B. Rout	MHD boundary layer slip flow and radiative nonlinear heat transfer over a flat plate with variable fluid properties and thermophoresis	Alexandria Engineering Journal	54(4), 941-953, 2015
6.	Jaya Paul, Sunil Jacob John,	Type 2 fuzzy multisets and its applications in decision making problems,	Journal of Intelligent and Fuzzy systems	Vol.30, no.1, 359 – 369, 2016
7.	Amr Zacharia, Sunil Jacob john, S A Elsheit	Generalized Rough sets via multiset ideals	Journal of Intelligent and Fuzzy systems	30(3), 1791 – 1802, 2016
8.	Anagha Baby, Shinoj T.K, Sunil Jacob John	On Abelian Fuzzy Multi Groups And Orders Of Fuzzy Multi Groups,	Journal of New Theory	Number: 2, 2015, pp. 80-93

9.	Jyothis Thomas, Sunil Jacob John	Properties of D_{μ} -Compact Spaces in Generalized Topological Space	Annals of Pure and Applied Mathematics	Vol. 9, No. 1, 2015, 73-80.
10.	Jyothis Thomas, Sunil Jacob John	Soft Π -Open Sets In Soft Generalized Topological Spaces,	Journal of New Theory,	Number: 5, 2015pp. 53-66
11.	BabithaKV , Sunil Jacob John,	Studies on Soft topological Spaces	Journal of Intelligent and Fuzzy systems	Vol.28, Issue 4, 2015, Pages 1713-1722
12.	N Palanivel, AV Chithra -	Some Structural Properties Unitary Addition Cayley Graphs	International Journal of Computer Applications	Vol. 121 - No.17, July 2015
13.	M S Sunitha Shahida	Some Results on Graceful and Sequential Powerset-Valued Graphs	Int. J. Appl. Comput. Math	DOI 10.1007/s40819-016-0172-9, 1 -11,2016
14.	M S Sunitha Manjusha	Connected domination in fuzzy graphs using strong arcs	Annals of Fuzzy Mathematics and Informatics	Vol. 10, No. 6, 2015, pp. 979 – 994
15.	M S Sunitha, Lisna P C	b-Chromatic sum of a graph	Discrete Mathematics, Algorithms and Applications Springer Plus	Vol. 7, No. 4 (2015) 1550040 (15 pages)
16.	M S Sunitha, Mini to	Strong sum distance in fuzzy graphs	Springer Plus	SpringerPlus (2015) 4:214DOI 10.1186/s40064-015-0935-5
17.	M S Sunitha, Lisna P C	A Note on the b-Chromatic Number of Corona of Graphs	Journal of Interconnection Networks	Vol. 15, Nos. 1 & 2 (2015) 1550004 (14 pages)
18.	M S Sunitha Anjaly Kishore	On injective chromatic polynomials of graphs	Discrete Mathematics, Algorithms and Applications	Vol. 7, No. 3 (2015) 1550035 (7 pages) World Scientific Publishing Company
19.	M S Sunitha Manjusha	Strong domination in fuzzy graphs	Fuzzy Information and Engineering	(2015) 7, 369 – 377

ii. International Conferences

Sl. No.	Name of the Author	Title of Paper	Name of International conference	Vol., Year, p.p.
1	Abdushukoor K M Sushama C M	A fuzzy Graph Approach for Selecting Optimal traffic counting locations in RoadNetworks	International Conference on Mathematical Computer Engineering, Vellore Institute of Technology	11-12-2015 to 14-12-2015
2	Shinoy George M A Sushama C M	Ranking the Decision Making Units using a Set of Common Weights	International Conference on Advances in Engineering Science and Management, Agra India	06-11-2015 08-11-2015
3	Bajeel P N and M Kumar	Design of optimal reliability test plans for a series system in the presence of covariate	Proceedings of international conference on Advances in Applied Probability, Graph Theory and Fuzzy Mathematics, Jan 14, 2014.	(ISBN: 978-93-5174-243-2).

iii National Conferences

Sl. No.	Name of the Author	Title of Paper	Name of National conference	Vol., Year, p.p.
1	M. Kumar and P.N. Bajeel	A component reliability test plans for a parallel system with failure rates as the exponential function of covariates	national conference on Recent trends and developments in statistics (NCR TDS) , M.D. University, Rohtak, India	Feb 21-23, 2015

2	M. Kumar and K.C. Siju	Reliability, availability estimation and cost analysis of parallel systems with time dependent failure rates in the presence of repair dependent function	national conference on Recent trends and developments in statistics (NCRTDS) during Feb 21-23, 2015, M.D. University, Rohtak, India	Feb 21-23, 2015
3	Bajeel P N and M Kumar	A study of component reliability test plans for a parallel system with components having failure rate as a function of Covariates.	Proceedings of National Conference on Emerging Trends in Statistical Research Issues and Challenges": held at Department of Statistics, Pondicherry University.	Feb 16-17, 2015

b. Community Services

Sl. No.	Name of Staff	Academic and administrative Services
1	Dr. Chithra.A.V.	<ol style="list-style-type: none"> HOD(Jan 2015 onwards) NSS Programme Officer Guided one M.SC. Mathematics Final Project
2	Dr. Sunil JacobJohn	<ol style="list-style-type: none"> Guided one M. Sc. Final project. In Charge of Purchase and Stock of MAT
3	Dr. Jessy John C	<ol style="list-style-type: none"> Course Faculty for (i) MA2001 Mathematics III, (ii) MA7203- Statistical Methods and (iii) MA2002 – mathematics IV during the academic year 2015-16. Ph. D Coordinator of MAT (from January 2015 onwards) Guided one M. Sc. Mathematics Final Project. MAT HOD Nominee to BOAC (Jan 2013 onwards) Exam Vigilance committee member of MAT(from January 2015 onwards)
4	Dr. S. Panda	<ol style="list-style-type: none"> Organized collaborative research visit of Dr. S S N Perera, Department of Mathematics, University of Colombo, Sri Lanka during December 17-18, 2015 Organized collaborative research visit of Dr. Mathieu Sellier, Associate Professor, Department of Mechanical Engineering, University of Canterbury, Christchurch, New Zealand during November 1-15, 2015

c. Other Academic and Administrative Services

Name of Staff	Academic and Administrative Services
Dr. Sunil Jacob John	<ol style="list-style-type: none"> DC Member of Ph. D Candidates form MAT and other Departments of the Institute. Adjudicated many Ph. D Thesis of other Universities Member of Board of Examiners for other Universities Reviewer of Mathematical Reviews (American Mathematical society) and Many other Journals including Springer and Elsevier
Dr. Jessy John C	<ol style="list-style-type: none"> Officiated as DC Member of Ph. D Candidates form MAT as well as other Departments of the Institute. Senator of the Institute Valued Ph. D Thesis of other University Question Paper Setter for other University Gives counseling to needy students and colleagues
Dr. S.Panda	<ol style="list-style-type: none"> Member, Student guidance cell Associate Dean (FW)
Dr. Chithra.A.V.	<ol style="list-style-type: none"> DC member of Ph.D candidates from MAT and other Departments of the Institute Member of Board of studies in Mathematics PG Calicut university
Dr. Sunil Mathew	<ol style="list-style-type: none"> Secretary, Alumni,NITC Warden, NITC

d. Conferences/Summer/Winter School/Short term Courses/ Workshops conducted

Sl. No	Coordinators	Title	Duration & Period
1	Dr.Chithra.A.V&Dr.Sanjay.P.K	Real Analysis And Applications	29.10.2015 31.10.2015
2	Dr. S. Panda	Workshop on Mathematical Modeling on Biology with Matlab Implementation	Dec. 18, 2015

e. Expert lecturers delivered in Conferences/Seminar/workshops

Sl. No.	Name of Staff	Title of the Programme	Duration and Period	Organization
1.	Dr. S. Panda	Workshop on "the future of Mathematics"	October 11-18, 2015	Fraunhofer ITWM, Kaiserslautern, Germany
2.	Dr. S.Panda	Numerical Methods for ODEs and Multigrid methods	June 8-21, 2015	Sri Ramakrishna Engineering College, Coimbatore
3.	Dr S. Panda	The 3rd Mathematics in Industry study group Malaysia	April 6-10, 2015	UTM Kuala Lumpur, Malaysia
4.	Dr. S. Panda	Indo-European Study Group meeting on Industrial Problems	Jan. 4-9, 2015	M S University Baroda, Gujarat

f Details of Faculty, who acquired Higher Qualification:

Name of the Faculty-Lineesh.M.C, Degree- Ph.D

DEPARTMENT OF CHEMISTRY**a. Publications****i. Journals**

Sl. No	Name of the Author	Title of the paper	Name of Journal	Vol.,Year.PP
1	Dr. Lisa Sreejith, Jasila karayil et.al	Microstructural transition of aqueous CTAB micelles in the presence of long chain alcohols	RSC Advances	2015,5,12434-12441
2	Dr. Lisa Sreejith, J. Linet Rose et.al	pH-switchable structural evolution in aqueous surfactant-aromatic dibasic acid system	The European Physical Journal E	2015,38,4,15004-9
3	Dr. Lisa Sreejith, J. Linet Rose et.al	Micellar solution with pH responsive viscoelasticity and colour switching property	RSC Advances	2015,5,11397-11404
4	Dr. lisa Sreejith, J. Linet Rose et.al	Distinctive effect of maleic acid and fumaric acid on structural transitions in cationic micellar solution	Colloid Polymer Science	2015, 293:1383–1390
5	Dr. Lisa Sreejith, P. Souda	Magnetic hydrogel for better adsorption of heavy metals from aqueous solutions	Journal of Environmental Chemical Engineering	2015,1882-1891
6	Dr. Parameswaran et.al	An Aluminum Hydride That Functions like a Transition-Metal Catalyst	Angewandte Chemie	2015,54,1-6
7	Dr. C. Arunkumar et.al	Synthesis, spectral, structural and antimicrobial studies of fluorinated porphyrins	Polyhedron	2015, 66-74

8	Dr. C. Arunkumar et.al	Axial ligand modified high valent tin(IV) porphyrins: synthesis, structure, photophysical studies and photodynamic antimicrobial activities on <i>Candida albicans</i>	RSC Advances	2015, 5, 61103 – 61117
9	Dr. Lisa Sreejith, J. Linet Rose et.al	Crystalline fibrillar gel formation in aqueous surfactant antioxidant system	Soft Matter and Biological Physics	2015, 15084-5
10	Dr. C. Arunkumar Rahul Soman et.al	Ultrafast and short pulse optical nonlinearities of meso-tetrakis(2,3,5,6-tetrafluoro-N,N,N-trimethyl-4-aniliniumyl)porphyrin and its metal complexes	Optical Materials	2015, 59-66
11	Dr. C. Arunkumar Rahul Soman et.al	Protonation and axial ligation intervened fluorescence turn-off sensing of picric acid in freebase and tin(IV) porphyrins	RSC Advances	2015,5,93243-93247
12	Dr. P. Parameswaran et.al	Cr(I) as well as Cr ⁺ are stabilized between two cyclic alkyl amino carbenes	Chemical Science	2015, 6(5),3148-3153
13	Dr. P. Parameswaran et.al	Multiple Cycloaddition Reactions of ketones with a β -Diketiminato Al Compound	Chemistry - A European Journal	2015, 21, 19041–19047
14	Dr. P. Parameswaran et.al	An Aluminum Hydride That Functions like a Transition-Metal Catalyst	Angewandte Chemie	2015, 35, 10225-10229
15	Dr. P. Parameswaran et.al	Fine tuning of the Substituents on the N-Geminal Phosphorus/silicon-Based Lewis Pairs for the Synthesis of Z-Type Silyliminophosphoranyl ketenes	Organometallics	2015, 34, 4209-4217
16	Dr. P. Parameswaran et.al	An Aluminum Dihydride Working as a Catalyst in Hydroboration and Dehydrocoupling	Journal of the American Chemical Society	2016, 138, 2548–2551
17	Dr. P. Parameswaran et.al	Stepwise isolation of an unprecedented silylene supported dinuclear gold(I) cation with aurophilic interaction	Chemical Communication	2016, 52, 3880-3882
18	Dr. A. Sujith	Unicellular cyanobacteria <i>synechocystis</i> accommodate heterotrophic bacteria with varied enzymatic and metal resistance properties	Journal of basic microbiology	2016,56,1-12
19	Dr. A. Sujith	Biocompatible polymers: Membrane Fabrication	Encyclopedia of Biomedical Polymers	DOI: 10.1081/E-EBPP-120050039

		Techniques and performance and Polymeric Biomaterials	
20	Dr. Parameswaran P.	Homopolar dihydrogen bonding in ligand stabilized diberyllium hydride complexes, $\text{Be}_2(\text{CH}_3)_2\text{H}_2\text{L}_2 - (\text{L}=\text{H}^+, \text{CO}, \text{N-heterocyclic carbene and CN}^-)$	Dalton Trans 2016, DOI: 10.1039/C5DT04293C

b. Community Services

Sl. No	Name of Staff	Details
1	G. Unnikrishnan	Faculty co-ordinator, Social Engineering Forum, NITC
2	Dr. Lisa Sreejith	Developed an ecofriendly solution for plastic waste management
3	Dr. A. Sujith	Programme Officer, National Service Scheme, NIT Calicut
4	Sri. Prakash Peter	Member of the integrated socio economic survey of Chathamangalam Grama panchayath conducted by NSS unit of NITC Volunteer, pain and Palliative Care Society, Medical College, Calicut

c. Other Academic and Administrative Services

Sl. No.	Name of Staff	Academic and Administrative Services
1	Dr. G. Unnikrishnan	Ph.D Coordinator Faculty –in –charge-instrumentation, Chief Warden, NITC Hostels, Dean (SW)
2	Dr. Lakshmi C.	B. Tech theory coordinator, Faculty advisor for M.Sc.
3	Dr. Lisa Sreejith	HOD Chemistry Stores & purchase -in-charge, M.Sc. coordinator
4	Dr. A. Sujith	Programme Coordinator, Rashtriya Avishkar Abhiyan, MHRD, Programme Officer, National Service Scheme, Faculty in charge –Symphoria, Associate Dean (R&C), Examination coordinator, B. Tech lab coordinator
5	Dr. Suni Vasudevan	Faculty –in –charge- Instrument maintenance, Faculty –in-charge –Dept. Library, Faculty advisor M.Sc., B. Tech theory coordinator,
6	Dr. C. Arunkumar	Warden of G hostel, Examination coordinator Training and Placement in-charge, B. Tech lab coordinator
7	Dr. Parameswaran P	Computer centre in charge, Dept. of Chemistry, Time table in charge

d. Conferences/Summer/Winter School/Short term Courses/ Workshops conducted

Sl. No	Title	Coordinators	Duration & Period
1	Workshop on Advances in Chemical Biology and Natural Product Biotechnology	Dr. Suni Vasudevan and Dr. R. Aswati Nair	13.04.2016
2	Salter's chemistry camp	Dr. A. Sujith & Dr. Sadiqali	26 th – 28 th April 2016
3	Dr. N. Sitaraman Memorial Inter Collegiate Quiz Competition	Dr. Lisa Sreejith	20.10.2015
4	National Science Day Celebration 2016	Dr. A. Sujith & Dr. Suni Vasudevan	15.02.2016
5	Workshop on Polymer processing macro to micro or nanoscale	Dr. A. Sujith	27.11.2015
6	Seminar on 'Atomic Energy Applications in Civilian Life-India's Capabilities	Dr. A. Sujith	19.09.2015

e) Expert lectures delivered in conferences/seminars/workshops

Sl. No.	Name of Staff	Title of the programme with details
1	Dr. G. Unnikrishnan	Latex (rubber) based products – general introduction, CFSC Manjeri
2	Dr. G. Unnikrishnan	Smart Lubricants, Bishop Kurialacherry College for women, Amalagiri
3	Dr. Lisa Sreejith	Swachh Bharath Abhiyan, Induction training program at IMG Kozhikode
4	Dr. Lisa Sreejith	Women and Technology, Vivekananda college of arts and sciences for women
5	Dr. Lisa Sreejith	Airport waste management, Airports authority of India, Karipur
6	Dr. A. Sujith	Faculty Development Programme on 'Green Nanotechnology in Materials Engineering and Energy Applications' organized by Department of Mechanical Engineering, College of Engineering Adoor, Kerala
7	Dr. A. Sujith	National Seminar on New Materials in Chemistry, organized by Department of Chemistry, University of Calicut, Malappuram, Kerala
8	Dr. A. Sujith	National Conference on 'Emerging Methods in Nanotechnology, organized by Department of Chemistry, Pazhassi Raja NSS College, Mattannur, Kannur
9	Dr. A. Sujith	World Food Day Seminar organized by Kerala Commissionerate of Food Safety, Govt. of Kerala at Thiruvananthapuram
10	Dr. Parameswaran P.	Studies on structure bonding and reactivity by computational methods, National seminar on computational chemistry, KAHM Unity Women's college, Manjeri
11	Dr. Parameswaran P.	Computational chemistry, Maharajas college, Ernakulam
12	Dr. Parameswaran P.	Computational chemistry, National seminar on frontier areas of chemistry, MES Keveeyam college valanchery,

f) Participation in conferences / seminars / workshops / other training programmes

Sl. No.	Name of Staff	Title of the programme with details
1	Dr. C. Arunkumar	Short Term Course on Research Skills and Methods, Workshop conducted by TEQIP, IIT Kanpur
2	Dr. C. Arunkumar	Faculty Development Programme (FDP) conducted by Teaching Learning Centre (TLC), IIT Madras, Chennai
3	Dr. C. Arunkumar	Faculty Development Programme (FDP) as coordinator on "Better Engineering Skills through Better Chemistry Protocols
4	Dr. Parameswaran P.	National Seminar on Advanced Topics in Chemistry, Maharaja's College, Ernakulam

DEPARTMENT OF PHYSICS

a. Publications

i. Journals

Sl. No	Name of the Author	Title of Paper	Name of Journal	Vol., Year, p.p
1	K jayakrishnan, SijiNarendran, P Sreejith, Antony Joseph, E Purushothaman, K.Chandrasekharan	Synthesis, Z-Scan and Degenerate Four Wave Mixing Characterization of Certain Functionalized Photosensitive Polyesters containing ortho-hydroxyazo chromophores	Optical Materials	45(2015) 171-180
2	Siji Narendran, Rahul Soman, CArunkumarK. Chandrasekharan	Third order nonlinear optical investigation of Meso-tetrakis (2,3,5,6-tetrafluoro -N,N-dimethyl -4-aniliny)prophyrin and its metal complexes	SpectochemicaActaPart A	136(2015)838-844
3	N. Smijesh, K. Chandrasekharan, Jagdish C. Joshi, Reji Philip	Time of flight emission spectroscopy of laser produced nickel plasma: Short-pulse and ultrafast excitations	Journal of Applied Physics	116, 013301 (2014)
4	P.Predeep	Impedance spectroscopic studies on natural rubber-TiO2 nanocomposite	Advanced Materials Research	938, 2014,204
5	P.Predeep	Nanocomposites based on high-Tc	Advanced Materials	938, 2014, 214

		superconducting ceramic 2212 BSCCO and their properties	Research	
6	P.Predeep	Organic field effect transistor with silica nanoparticles on gate dielectric(2014) Asian Journal of Applied Sciences, 7 (8), pp. 696-704.	Asian Journal of Applied Sciences	7 (8), 2014, 696
7	P.Predeep	Influence of plasma treatment on Indium Tin Oxide electrodes	Microelectronic Engineering	131, 2015, 8
8	M Yoosuf Ameen, S Pradhan, M Remyth Suresh and V V S Reddy,	MoO ₃ anode buffer layer for efficient and stable small molecular organic solar cells	Optical Materials	Vol. 39, 2015, pp.134–139
9	Ayishabi P K, Lakshmikanth K G and Raghu Chatanathodi,	Chemisorption of Benzene on Pt (111) surface: A DFT study with van der Waals interaction”,	Phys. Letters	637 (2015), 182-188

(ii). International Conference

Sl. No.	Name of the Authors	Title of Paper	Name of International Conference	Vol., Year, p.p
1	P.Predeep	Influence of Gate Dielectrics, Electrodes and Channel Width on OFET Characteristics	2 nd International Conference on Emerging Trends in Engineering and Technology (ICETET'2014) London May 30-31, 2014	1620 (1), 2014,596
2	P.Predeep	Green Synthesis and Characterization Of Silver Nanoparticles Using Aloe	International conference on light (OPTICS-14) NIT Calicut March 19-21, 2014	1620,2014 ,592.
3	P.Predeep	Study of Optical Properties of Erbium Doped Tellurite Glass – Polymer Composite	International conference on light (OPTICS-14) NIT Calicut March 19-21, 2014	1620, 2014, 565
4	P.Predeep	Enhanced Optical and Electrical Properties of PEDOT :PSS/Gold Nanocomposite System	International conference on light (OPTICS-14) NIT Calicut March 19-21, 2014	1620, 2014,587.
5	P.Predeep	Elastomeric Organic Material for Switching Application	International conference on light (OPTICS-14) NIT Calicut March 19-21, 2014	1620(206), 2014,206
6	P.Predeep	Development of Au-Ag Nanowire Mesh Fabrication by UV-Induced Approach	International conference on light (OPTICS-14) NIT Calicut March 19-21, 2014	1620, 2014,499
7	P.Predeep	Reinforced Fluoropolymer nanocomposites with High-Temperature Superconducting Bi ₂ Sr ₂ Ca ₂ Cu ₃ O _y	International conference on light (OPTICS-14) NIT Calicut March 19-21, 2014	1620,2014,
8	P.Predeep	Electrical and Optical Properties of Nitrile Rubber Modified by Ion Implantation	International conference on light (OPTICS-14) NIT Calicut March 19-21, 2014	1620, 2014,344
9	P.Predeep	Optical Characterization of Semiconducting Nylon 6 Films	International conference on light (OPTICS-14) NIT Calicut March 19-21, 2014	1620, 2014,213
10	P.Predeep	Effect of source drain electrodes on the performance parameters of P3HT based OFET,	International conference on light (OPTICS-14) NIT Calicut March 19-21, 2014	1620, 2014,596
11	Yoosuf Ameen M,	Tris(acetylacetonato)ruthenium(III)	International Conference o	2015, p. 59.

	Shamjid P and V S Reddy,	as Cathode Buffer Layer in CuPc/PTCDI-C8 Based Small Molecular Organic Solar Cells	Energy Harvesting Storage and Conversion (IC-EEE), CUSAT Cochin, India.	
12	Shamjid P, Lakshmi Rajan, Yoosuf Ameer M and V S Reddy,	Effect of Substrate Temperature on Organic Solar Cell Characteristics	International Conference on Energy Harvesting Storage and Conversion (IC-EEE), CUSAT Cochin, India.	2015, p. 71
13	Naseer A. P., P. K. Madhavan Unni	Quadruple Critical Point in the Solvophobic System Methyl Ethyl Ketone + Water + secondary Butyl Alcohol	4th International Conference on Complex Dynamical Systems and Applications, NIT Durgapur India, Feb: 15-17, 2016	2016, Pg. 71

(iii). **National Conference**

Sl. No	Name of the Author	Title of Paper	Name of National Conference	Vol., Year, p.p
1	T Praveen, K Shiju, Jayan Manuel and P. Predeep	A low cost flexible organic Schottky diode based on charge transfer complexes of semiconducting natural rubber	An innovative and futuristic approach Science and Technology-iFAST 2015	2015
2	Jayan Manuvel, T Praveen, K Shiju, and P Predeep	Development of cost effective green organic semiconductors from natural rubber Cis-1,4 polyisoprene)	An innovative and futuristic approach Science and Technology-iFAST 2015	2015
3	T Praveen, K Shiju, Jayan Manuel and P. Predeep	Green and sustainable organic field effect transistors (OFET) from natural rubber	An innovative and futuristic approach Science and Technology-iFAST 2015	2015
4	Liyana V P, Amina K, Shiju and P Predeep	DNA based OFET towards sustainable electronics	An innovative and futuristic approach Science and Technology-iFAST 2015	2015

b. Community Services

Dr. M.K. Ravi Varma

- Chairman – UG Admissions, at NIT Sikkim for CCB (AIEEE-2011)
 - Member of the Institute Research and Consultancy Committee of NIT Calicut
 - Reviewer of Project reports for Department of Science and Technology, New Delhi
 - Reviewer of peer-reviewed journal articles for Optic Express, Optics Letters, Aerosol Science and Technology, Environmental Science and Technology
 - Joint Coordinator, "INSPIRE-2011", a winter science camp organized for 11th standard students at NITC during 18 – 22 December, 2011
 - Co-convenor, "OPTICS'11 – A Conference on Optics" held in NIT Calicut, May 23 –25, 2011
 - Member of – Air & Waste Management Association, American Association for Aerosol Research, American Geophysical Union, Optical Society of America
- Dr. P.K. Madhavan Unni

C. Other Academic and Administrative Services

Sl. No.	Name of Staff	Academic and Administrative Services
1	Dr Chandrasekharan K	Chairperson of P G Admission
2	Dr. Vari Sivaji Reddy	<ul style="list-style-type: none"> • Department Examination In-charge • Training and Placement Representative of the Department • PTA Coordinator of the Department • S7 B. Tech (EP) Faculty Advisor & Class Committee chairman
3	Dr. P. K. Madhavan unni	1. Teaching : PH7213 : Atomic & Molecular Phy, S3 M.Sc. PH3006 : Experimental Techniques in Physics , S5 BTech (EP) PH2091 : Physics Lab-II (General Physics), S3 BTech (EP) PH6296 : Electromagnetics Lab, S2 M. Sc. PH4026: Introduction to Critical Phenomena, S7 BTech (EP) Elective ZZ1094 : Value Education (OT) S3 BTech(EP)

		PH2006: Statistical Physics, S4 BTech (EP) 2. Administrative/coordinatorship/others 1. Faculty Advisor, 2014 B.Tech(EP) Batch 2. Class committee Chairman, S4 BTech (EP) 3. Physics Dept. representative for NBA Accreditation 4. Member, Evaluation Committee for student projects under TEQIP-II 5. Member, Institute Level Anti Ragging Committee 6. Examination Co-ordinator, Dept of Physics (since Monsoon 2015-16 and continuing) 7. Associate Coordinator, Global Initiative for Academic Networks (GIAN) 8. Returning Officer, SAC Elections 2015 9. Convener, Curriculum & Syllabus Revision Committee for M. Sc. Programmes at NIT Calicut, 2015
--	--	--

(d). Expert lectures delivered in Conferences/Seminar/Workshops:

Sl. No.	Name of Staff	Title of the programme	Duration & Period	Organization
1	Dr Chandrasekharan K	National Conference on Condensed Matter Physics and Applications during 27-28, March (photonic crystals for optical switches)	28-3-2015	MIT Manipal
2	P.Predeep	Expert Lecture on Organic Solar cells	2014 May	IMN, University of Nantes
2	P.Predeep	Invited for talk at the Indian Science Congress, Physical Sciences division as well as Materials Sciences sections,	2014, January	Indian Science Congress association
3	P.Predeep	National Conference on Nanotechnology and Renewable Energy	28 April 2014	Jamila Millia University, New Delhi
4	P.Predeep	National Seminar on Materials for Energy and Environment 2015	2 Feb, 2015	Vimala College, Trissur
5	P.Predeep	Scientist –Student Interaction programme	15, Oct. 2014	Swadesi Science movement at College of Agriculture, Kasargode
6	P.Predeep	Photonics Seminar Series at	27 Feb., 2015	Nirmalagiri College, Kannur,

PHYSICAL EDUCATION SECTION

a. Publications

i. Journal

Sl No:	Name of the Journal	Title of the Paper	Author(s) Name	Vol.,year, page no.
4	Haary Benny Chettiamku-diyil, Atul Meethal, Dr.A.M. Najeeb	Effect of Plyometric Training and SAQ Training Followed by Detraining on Selected Bio-Motor Abilities of Inter-Collegiate Level Footballers	International journal of Behavioral, Social and Movement Sciences, ISSN: 2277-7547	(Volume 04, April 2015, Issue 02, PP: 56-68)
5	Haary Benny Chettiamku-diyil, Atul Meethal, Dr.A.M. Najeeb	Effect Of Plyometric Training and SAQ Training on Explosive Strength and Speed of University Level Soccer Players	International journal of Health, Physical Education & Computer Science in Sports, ISSN 2231-3265	(Volume No: 17, No:1, January 2015 to March 2015, PP: 170-173)

6	M. Shimjith & Dr. A. M. Najeeb	Comparative Effect Of Progressive Training With And Without Weights On Selected Parameters Among Coastal Area Students	International journal of Innovative research & development –	Vol. III ISSN 2278 – 0211 (Online)
7	Shimjith M. and Najeeb Dr. A. M.	Comparative Effect Of Progressive Training With And Without Weights On Selected Physical Fitness Components And Physiological Variables Among School Boys”	International Journal of Development Research	Vol. IV, ISSN: 2230-9926
8	D. Sumesh & Dr. A.M. Najeeb	Effect Of Vision Training On Selected Skills Of Volley Ball Players	Journal of physical education and allied health sciences –	Vol. II ISSN: 2249-2380
10	Haary Benny Chettiamkudiyil, Atul Meethal & Dr.A.M.Najeeb	Effect Of Plyometric Training And Saq Training Followed By Detraining On Selected Bio-Motor Abilities Of Inter-Collegiate Level Footballers	International Journal Of Behavioral Social And Movement Sciences	(Issn:2277-7547) Vol.04, 2015,Issue02

Achievements during preceding 3 years

Sl. No	Disciplines	Achievements							
		2012-13		2013-14		2014-15		2015-16	
		boys	girls	boys	girls	boys	girls	Boys	Girls
1	Football	Last 4	NIL	Last 8	NIL	II nd runner-up	NIL	Champions	NIL
2	Cricket	Last 8	NIL	Last 4	NIL	Last 8	NIL	Last 4	NIL
3	Table Tennis	II nd Runner-up	Last 4	II nd runner up	II nd runner up	II nd Runner-up	II nd Runner-up	Last 8	Last 8
4	Basketball	runner up	Last 8	Runner up	Last 8	NIL	NIL	Champions	Runner -up
5	Volleyball	Winners	Runners	Last 4	NIL	II nd Runner-up	Last 4	Last 8	Last 8
6	Handball	II nd runner up	NIL	Last 4	NIL	Winners	NIL	Last 8	NIL
7	Kabbadi	Last 4	NIL	II nd runner up	NIL	Runners	NIL	Last 8	NIL
8	Chess	winners	Last 4	II nd runner up	NIL	II nd runner up	Last 8	II nd runner - up	II nd runner -up
9	Tennis	NIL	NIL	NIL	NIL	Runners – singles individual champion	NIL	Last 8	II nd runner - up
10	Hockey	Last 4	NIL	Last 4	NIL	Runners	NIL	Last 8	NIL
11	Kho-kho	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
12	Tae kwon-do	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
13	Badminton	II nd runner up	NIL	winners	Runners up	Last 4	II nd Runner up	Last 8	II nd runner up
14	Power lifting	II nd runner up	NIL	Runners up	NIL	II nd Runner up	NIL	Bronze	NIL
15	Best physique	Last 8	NIL	Runners up	NIL	Last 4	NIL	Medal Bronze	NIL
16	Weight lifting	Last 4	NIL	Last 4	NIL	Last 4	NIL	Medal Bronze	NIL
17	Aquatics	II nd Runners up	II nd Runners up	II nd Runners up	II nd Runners up	II nd Runners up	II nd Runners up	NIL	NIL
18	Athletics	II nd Runner up	II nd Runner up	Runner up	II nd runner up	II nd runner up	Shot put gold D throw gold, High jump gold Triple jump silver Over all runner up	Gold –1 bronze	Gold – 1

d. Conferences/Summer/Winter School/Short term Courses/ Workshops conducted:

Sl. No	Title	Coordinators	Duration & Period
1.	International day of yoga	Dept. of Physical Education	21-06-2015

e. Expert lecturers delivered in Conferences/Seminar/workshops:

Sl. No.	Name of Staff	Title of the Programme	Duration and Period	Organization
1.	Dr. A M NAJEEB	Inter NIT work shop at NIT jaipur	22-06-15 to 23-06-15	INTER NIT CONSORTIUM Jaipur

SCHOOL OF NANO SCIENCE & TECHNOLOGY

a. Publications

i. Journal

Sl. No	Name of the Authors	Title of the paper	Name of Journal	Vol., Year, PP.
1	Hanas T, Kumar TSS, Perumal G, MM.	Tailoring degradation of AZ31 alloy by surface pre-treatment and electrospun PCL fibrous coating.	Materials Science and Engineering:C	2016 (65) 43-50.
2	T Hanas and T S Sampath Kumar	Tailoring the bioactivity of AZ31 alloy by nano-fibrous PCL/HA composite coatings for degradable metallic implant applications	European Cells and Materials	2015(30)16. ISSN 1473-2262.
3	B. Jayachandran, P.P.Sajith, C. B. Sobhan	Investigations of Replacement of Fins With Flat Heat Pipes for High Power LEDs	Procedia Engineering, Elsevier	Vol. 118, 654-661, 2015
4	S. Jesseela and C. B. Sobhan	Numerical Modeling of Annular Flow with Phase Change in a Microchannel	International Journal of Thermal Sciences, Elsevier	Vol.89, pp. 87-99, 2015
5	Divya Haridas, G. R. Reddy and C. B. Sobhan	Digital Interferometric Measurement of Forced Convection Fields in Compact Channels	International Journal of Optomechatronics, Taylor and Francis,	Vol. 9, pp. 9-34, 2015
6	Abdul Rasheed P, Thulasi Radhakrishnan, P.K. Shihabudeen and N. Sandhyarani	Reduced graphene oxide-yttria nanocomposite modified electrode for enhancing the sensitivity of electrochemical genosensor	Biosensors and Bioelectronics	2016, 83, 361-367
7	Abdul Rasheed P and N. Sandhyarani	Quartz crystal microbalance genosensor for sequence specific detection of attomolar DNA targets	Analytica Chimica Acta	2016, 905, 134-139
8	Rahul T K, N.Sandhyarani	Nitrogen-Fluorine co-doped titania inverse opals for enhanced solar light driven photocatalysis	Nanoscale	2015, 7, 18259-18270
9	Reny Thankam Thomas, N. Sandhyarani	Template free synthesis of graphitic carbon nitride/titania mesoflowers	RSC Advances	2015, 5, 72683-72690

10	Abdul Rasheed P and N. Sandhyarani,	A highly sensitive DNA sensor for attomolar detection of BRCA1 gene: Signal amplification with gold nanoparticle clusters	Analyst	2015, 140, 2713-2718
11	Uvais Valiyaneerilakkal,1 Amit Singh,2 C.K. Subash,1 Kulwant singh,1,3 S.M. Abbas,2 Soney Varghese	Preparation and Characterization of Poly(vinylidene fluoride-trifluoroethylene)/Barium Titanate Polymer Nanocomposite for Ferroelectric Applications	Polymer composites	doi: 10.1002/pc.23734
12	Subash C K, UvaisValiyaneerilakka Kulwant Singh, and Soney Varghese	Device level optimization of poly(vinylidene fluoride-trifluoroethylene)–zinc oxide polymer nanocomposite thin films for ferroelectric applications	Journal of Applied Physics	118, 204102 (2015); doi: 10.1063/1.4936203
13	Robin Joyce a,b,n, Kulwant Singh a,b,c, Soney Varghese a, JamilAkhtar	Effective cleaning process and its influence on surface roughness in anodic bonding for semiconductor device packaging	Materials Science in Semiconductor Processin	31 (2015) 84–93
14	KulwantSingha,b,c,* Robin Joycea,b, SoneyVarghesea, J. Akhtar	Fabrication of electron beam physical vapor deposited polysiliconpiezoresistive MEMS pressure sensor	Sensors and Actuators A:Physical	22 3 (2015) 151–158
15	Ajin C Sajeevan and V.Sajith	Synthesis of stable cerium zirconium oxide nanoparticles – diesel suspension and investigation of its effect on diesel properties and smoke	Fuel (Elsevier)	Vol183, 155 – 163, 2016
16	E.V.Awin, V.Sajith, C.B.Sobhan and G.P.Peterson	Electrical and thermal conductivities of Dilute nanofluids – Experimental determination and Parametric studies	Journal of Nanofluids	5, pp.1 – 8,2016
17	S.Balamurugan, Ajin C Sajeevan and V.Sajith	Stability of cerium zirconium mixedoxide catalytic nanopartic in diesel An experimental investigation	Journal of Nanofluids	5,pp.1-7,2016

ii. International conference:

Sl. No	Name of the Authors	Title of the paper	Name of Journal	Vol., Year, PP.
1	Deepak Pal, Shijo Thomas, C. B. Sobhan	"Experimental investigations On critical heat flux inpool boiling conditions for low concentrations of Al ₂ O ₃ nanofluids"	17th ISME Conferenceon Advances in Mechanical Engineering, IIT Delhi,	October 3 - 4, 2015.
2	Joseph John & V.Sajith	Experimental investigation on the effect of zirconium on corrosion resistance of ceria nanoparticles	ASME 2015 International Mechanical Engineering Congress & Exposition , Houston,Texas	13- 19 th November 2015
3	T Hanas and T S Sampath Kumar,	Tailoring Biodegradation of Fine Grained AZ31 Alloy Implantsby Nanofibrous Coatings	International Conference and Expo on Magnesium – 2016, VIT Chennai.	2016
4	T. Hanas, T.S. Sampath Kumar Govindaraj Perumal and Mukesh Doble	PCL/HA composite coated AZ31 alloy for degradable metallic implant applications	In House Symposium 2016, Dept of MME, IIT Madras	2016

5	T Hanas and TS Sampath Kumar	Tailoring the bioactivity of AZ31 alloy by nanofibrous PCL/HA composite coatings for degradable metallic implant applications	7 th Symposium on Biodegradable Metals for biomedical applications, 2015, Carovigno, Italy.	2015
6	T Hanas and T S Sampath Kumar	In vitro degradation and biomineralization study of nanofibrous coated groove pressed metallic implants	Indo-Australian Conference on Biomaterials, Tissue Engineering, Drug Delivery system and Regenerative medicine- 2015, Chennai.	2015

b. Other academic and administrative services:

Sl. No.	Name of Staff	Academic and Administrative Services
1	N. Sandhyarani	Head, SNST Time table in charge – SNST Member, Purchase Committee, SNST
2	C. B. Sobhan	Professor, SNST Laboratory in Charge, Nanotechnology Research Laboratory PhD Coordinator-SNST Member, Purchase Committee, SNST
3	Sajith V.	1. Associate Dean(Planning & Development) 2. Faculty Advisor, SAE Collegiate Club, NITC 3. Time table in charge, SNST 4. Member, Purchase Committee, SNST 5. Lab-in-Charge, Optical Measurement Laboratory
4	Soney Varghese	1. SEM and SPM Manager Member, Purchase Committee, SNST
5	Hanas T.	Assistant Professor (Pursuing PhD under QIP at IIT Madras)
6	Shijo Thomas	Course Coordinator-M.Tech Nanotechnology Warden-NITC Hostels Faculty Advisor, SAE Collegiate Club, NITC Member, Purchase Committee, SNST

SCHOOL OF MANAGEMENT STUDIES

a. Publications

i. Journals

Sl. No.	Name of the Author	Title of Paper	Name of Journal	Vol, Year, p.p.
1	Dr. Muhammad Shafi	Developing Quality Management Measures In Print and Visual Media: Challenges Ahead	Global Journal of Business and Social Science Review	GJBSSR, Vol. 1 (2), January-March 2015: 454-461
2	Dr. Muhammad Shafi	A hybrid approach for assessment of credit risk using neural network and deployment as a Graphical User Interface	International Journal of Data Mining, Modelling and Management	Accepted Inderscience

ii. International Conference

Sl. No.	Name of the Author	Title of Paper	Name of International conference	Vol, Year, p.p.
1	Dr. Sunitha S	Determinants of Household Expenditure Economic Burden of Engineering Education in Kerala	8th World Conference on Educational Sciences, University of Alcalá, Madrid, Spain	04-06 February 2016
2	Dr. Sunitha S	Household's Choice of Borrowing Through Student Loans to Finance Engineering Education in Kerala, India	Oxford Education Research Symposium at Oxford University Club, Oxford University, London.	17-19 March 2016

iii. National Conference:

Sl. No.	Name of the Author	Title of Paper	Name of National conference	Vol, Year, p.p.
1	Dr.Sunitha S	Institutional an Household Costs of Engineering Education in Kerala,India, at Symposium on Financing of Universities: State Vs Private.	XXXVIIIth Indian Social Science Congress organize by Indian Social Science Academy at Andhra University,Vishakapatnam,	March 29- 1 April, 2015

b. Community Services: Nil

c. Other Academic and Administrative Services: Nil

d. Conferences/Summer/Winter School/Short term Courses/ Workshops conducted

Sl. No	Title	Coordinators	Duration & Period
1	National workshop on "applied data science and business analytics using R"(self-financing)	Dr. Muhammad Shafi Dr. R. Sridharan	Mar 4-9 -2016
2	One Day Workshop on Stress Management under the TEQIP II Sponsorship	Dr.R.Sridharan,Dr.Sunitha S,Dr.Aruna B	07/11/2015

e. Expert lecturers delivered in Conferences/Seminar/workshops

Sl. No	Name of Staff	Title of the Programme	Duration and Period	Organization
1	Dr. Muhammad Shafi	Delivered a lecture on National workshop on R	4-9 March 2016	NIT Calicut
2	Dr.Sunitha S	Delivered an Expert lecture on Research Methods Simplified for a Workshop organised on Research Methods using SPSS	19 th February 2016	Periyar University, Tanjore

SCHOOL OF BIOTECHNOLOGY

a. Publications

b. Journals

Sl. No.	Name of the Authors	Title of the paper	Name of journal	Vol., Year, p.p.
1	Darpan Raghav, BabukrishnaManiya dath, Aruna Mohan, SutariSairam, Rinu Mary Rajan and Krishnan Rathinasamy	In-silico Designing of Novel Camptothecin Analogs as Potent Inhibitors of Topoisomerase I: A Molecular Docking, QSAR, and ADME-T Study	Letters in Drug Design & Discovery	2016, 13, 000-000 Accepted for publication
2	Sinoy S, Fayaz SM, Charles KD, Suvanish VK, Josef P. Kapfhammer, Rajanikant GK	Amikacin inhibits miR-497 maturation and exerts post-ischemic neuroprotection	.Molecular Neurobiology	2016 (accepted). (SCI & SCOPUS indexed; Current Impact Factor: 5.137)
3	Das Jyotirekha, Rajanikant G. Krishnamurthy	Commentary: Death Associated Protein Kinase 1: A Perp in Cerebral Ischemia	CNS & Neurological Disorders - Drug Targets	2016;15:1-4. (SCI & SCOPUS indexed; Current Impact Factor: 2.628)

4	Nampoothiri SS, Krishnamurthy RG	Targeted Inhibition of miR-155 Promotes Post-Stroke Neovascularization and Functional Recovery	CNS and Neurological Disorders - Drug Targets	2016;15:372-4. (SCI & SCOPUS indexed; Current Impact Factor:2.628)
5	Nampoothiri SS, Rajanikant GK	Decoding the ubiquitous role of microRNAs in neurogenesis	Molecular Neurobiology	2016;53:2579-93. (SCI & SCOPUS indexed; Current Impact Factor: 5.137)
6	Fayaz SM, Suvanish Kumar VS, Davis CK, Rajanikant GK.	Novel RIPK3 inhibitors discovered through a structure-based approach exert post-ischemic neuroprotection	Molecular Diversity	2016;20:1-10. (SCI & SCOPUS indexed; Current Impact Factor: 1.896)
7	Kumar VS, Krishnamurthy RG.	Commentary: Adaptive PTEN loss enhances the outgrowth of brain metastatic tumour cells. CNS and Neurological Disorders	Drug Targets	2016;15:262-4. (SCI & SCOPUS indexed; Current Impact Factor: 2.628)
8	Narayanan A, Pullepu D, Reddy PK, Uddin W, KabirMA	Defects in Protein Folding Machinery Affect Cell Wall Integrity and Reduce Ethanol Tolerance in <i>S. cerevisiae</i>	CurrMicrobiol	2016 Mar 18. [Epub ahead of print]
9	Harikrishnan V*, Madhusudhan S, Santhiagu A	Evaluation of a Novel, Natural Locust Bean Gum as a Sustained Release and Mucoadhesive Component of Tizanidine Hydrochloride Buccal Tablets	Asian J Pharm Clin Res	Vol 8, Issue 6, 2015, 7-10
10	Harikrishnan V*, S. Madhusudhan and A. Santhiagu	Design and evaluation of controlled release buccal tablet of tizanidine hydrochloride using natural polymer guar gum	Der Pharmacia Lettre	2016, 8 (1):73-79
11	Harikrishnan. V , Dr. S. Madhusudhan , Dr. A. Santhiagu	Evaluation of a Novel, Natural Badam Gum as a sustained Release and Mucoadhesive Component of TizanidineHClBuccal Tablets	Asian J. Pharm. Tech	2015; Vol. 5: Issue 3, Pg 129-135
12	Harikrishnan. V, Dr. S. Madhusudhan, Dr. A. Santhiagu	Development and In Vitro Evaluation of Tizanidine hydrochloride Buccal Tablet using Tamarind Seed Gum	J. Pharm. Sci. & Res	Vol. 8(3), 2016, 161-167
13	Keerthi D, Aswati Nair R* and Prasath D	Molecular phylogenetics and anti- <i>Pythium</i> activity of endophytes from rhizomes of wild ginger congener, <i>Zingiberzerumbet</i> Smith.	World J Microbiol. Biotechnol. World J Microbiol and Biotechnol	(2016) 32: 41 (DOI: 10.1007/s11274-015-1998-8)
14	Ganapathy G, Keerthi D, Aswati Nair R*, Padmesh P	Correlation of Phenylalanine ammonia lyase (PAL) and Tyrosine ammonia lyase (TAL) activities to phenolics and curcuminoid content in ginger and its wild congener, <i>Zingiberzerumbet</i> following <i>Pythiummyriotylum</i> infection	Eur J Plant Pathol DOI	(2016) 10.1007/s10658-016-0865-2
15	Aswati Nair R*, Geethu C, AmitSangwan and Padmesh P	Sequence and bioinformatic analysis of family 1 glycoside hydrolase (GH) 1 gene from the oomycete, <i>Pythiummyriotylum</i> Dreschle	ApplBiochemBiotechno	(2015)176(3): 772- 781
16	Aswati Nair R* and Geethu C	Purification characterization of secretory serine protease from necrotrophicoomycete, <i>Pythiummyriotylum</i> Dreschler	World J Microbiol. Biotechnol	(2015) 31: 85- 94

ii) International conference

Sl. No.	Name of the Authors	Title of the paper	Name of conference	Vol., Year, p.p.
1	R. Krishna Kumar, S Jayaraj, T. V Suchithra	Experimental Analysis on performance of photosynthetic microbial fuel cells in varying light intensity	International conference in immovable and emerging trends in engineering and technical – ICJETET	2016

11.0

ANNEXURES

11.1

INSTITUTE'S SENATE

Sl. No	Name
1	Dr.Sivaji Chakravorti, Director & Chairman Ex-Officio
2	Dr.A.P.Shashikala, Dean (Academic)
3	Dr.S.Chandrakaran, Dean (P&D)
4	Dr.R.Sridharan, Dean (FW)
5	Dr.G.Unnikrishnan, Dean (SW)
6	Dr.Abraham T.Mathew, Dean (R&C)
7	Prof. Srinivasan Natarajan, SSCU, IISc., Bangalore – External member
8	Prof. Rajat Acharyya, Dean & Professor, Jadavpur University – External Member
9	Dr. Ligy Philip, Professor, CED, IIT Madras – External Member
10	Dr.K.Prabhakaran Nair, Professor, MED
11	Dr.Jose Mathew, Professor, MED
12	Dr. M.L.Joy, Professor, MED
13	Dr.S.Jayaraj, Professor , MED
14	Dr.K.Allesu, Professor, MED
15	Dr.N.Ramachandran, Professor & Head, MED
16	Dr.P.K.Rajendrakumar,Professor,MED
17	Dr.C.Muraleedharan, Professor, MED
18	Dr.M.A.Joseph, Professor, MED
19	Dr.Gulam Jilani, Professor, MED
20	Dr.T.P.Somasundaran, Professor, CED
21	Dr.V.Mustafa, Professor, CED
22	Dr.N.Ganesan, Professor, CED
23	Dr.A.M.Muhammed Ameen, Professor, CED
24	Dr. MVLR Anjaneyalu, Professor & Head, CED
25	Dr.N.Sankar, Professor, CED
26	Dr.Zacharia T.Varghese, Professor, CED

27	Dr.J.Sudhakumar, Professor, CED
28	Dr. Santosh. G. Thampi, Professor, CED
29	Dr.P.V.Indira, Professor, CED
30	Dr.T.M.Madhavan Pillai, Professor, CED
31	Dr.Priya Chandran, Professor, CSED
32	Dr.P.Vineeth Kumar, Professor, CSED
33	Dr. Abdul Nazeer K.A., Head, CSED, Invitee
34	Dr.Paul K.Joseph, Professor, EED
35	Dr.Susy Thomas, Professor, EED
36	Dr.Jeevamma Jacob, Professor & Head, EED
37	Dr.K.S.Sivanandan, Professor, EED
38	Dr.M.V.Vaidyan, Professor, EED
39	Dr.Ashok S, Professor, EED
40	Dr.M.P.Nandakumar, Prossor,EED
41	Dr.Saly George, Professor,EED
42	Dr.P.S.Sathidevi, Professor, ECED
43	Dr.Elizabeth Elias, Professor & Head, ECED
44	Dr.Lillykutty Jacob, Professor, ECED
45	Dr. P C Subramaniam, Professor, ECED
46	Dr.K.Chandrasekharan, Professor, Physics
47	Dr.M.K.Ravi Varma, Head, Physics, Invitee
48	Dr.P.Predeep, Professor, Physics
49	Dr.M.J.Jacob, Professor, Maths
50	Dr.Chithra A.V., Head, Mathematics, Invitee
51	Dr.Jessy John, Professor, Maths
52	Dr.T.K.Suresh Babu, Professor & Head, T & P
53	Dr.Shiny Joseph, Head, CHED, Invitee
54	Dr.Naseer M.A., Head, Arch., Invitee
55	Dr.Lisa Sreejith, Head, Chemistry, Invitee
56	Dr.M D Anaul Kabir, Head, SOBT, Invitee
57	Dr. C B Sobhan, Professor, SNST
58	Dr. N. Sudarsan, Professor, SOMS
59	Dr.A.M.Najeeb, HoD Phy.Edn, Invitee
60	Dr.B.Sukumar, Registrar & Secretary

11.2 BOARD OF GOVERNORS

1.	Chairperson	Ms.Aruna Jayanthi, CEO-Capgemini India Pvt Ltd,Godrej IT Park,Mumbai
2.	Ex. Officio Member	Dr. Sivaji Chakravorti, Director, National Institute of Technology, Calicut (Kerala)
3.	Member	Special Secretary or Additional Secretary or Joint Secretary dealing with Technical Education, Department of Higher Education, Ministry of Human Resource Development, New Delhi
4.	Member	Financial Advisor, Department of Higher Education, Ministry of Human Resource Development, New Delhi
5.	Member	Dr. P.K.Rajendra Kumar, Professor (MED), NIT Calicut.
6.	Member	Mrs.Lyla B Das, Associate Professor (ECED), NIT Calicut.
7.	Member	Adv.P.M.Suresh Babu, Nominee of the Govt. of Kerala
8.	Member	Dr.P.M.Abdul Majeed, Nominee of the Govt. of Kerala
9.	Secretary	Dr.B.Sukumar, Registrar, National Institute of Technology, Calicut (Kerala).

11.3 FINANCE, BUILDING AND WORKS AND OTHER COMMITTEES

MEMBERS OF THE FINANCE COMMITTEE

1	Chairperson, BOG	Ms.Aruna Jayanthi, CEO-Capgemini India Pvt Ltd,Godrej IT Park,Mumbai
2	Member	Dr. Sivaji Chakravorti, Director, National Institute of Technology, Calicut (Kerala)
3	Member	Special Secretary or Additional Secretary or Joint Secretary dealing with Technical Education, Department of Higher Education, Ministry of Human Resource Development, New Delhi
4	Member	Financial Advisor, Department of Higher Education, Ministry of Human Resource Development, New Delhi
6	Member	Dr. P.K.Rajendra Kumar , Professor (MED), NIT Calicut.
7	Secretary, BOG	Dr.B.Sukumar,Registrar, National Institute of Technology, Calicut (Kerala).

MEMBERS OF BUILDINGS AND WORKS COMMITTEE

Sl. No	Name	Address
1	Dr. Sivaji Chakravorti,	Director, National Institute of Technology, Calicut, NIT Campus PO, Calicut 673 601
3	Dr.B.Sukumar	Registrar & Secretary (BWC), NIT Calicut.
4	Mr.K.V.Muhammed Manzoor	Superintending Engineer, NIT Calicut.
5	Dr.S.Chandrakaran	Dean, Planning & Development
6	Mrs.Lyla B Das	Associate Professor, ECED, NIT Calicut - Nominee of BOG
7	Sri.M Raveendran	Executive Engineer,CPWD,Calicut Central Division (Electrical), Kendriya Bhavan,Kallai, Calicut – 673003
8	Sri.K.Sundaran,	Project Director, Kerala State Transport Project (KSTP), TC/339/Jagad Buildings,Keston Road, Nandancode, Kawadiar P O Thiruvananthapuram – 03
9	Sri.Sanjeev Sharma	Director(TC) M.H.R.D, Technical Section,Shastri Bhavan, New Delhi, 110 115
10	Dr.T.P.Somasundaran	Professor, CED

11.4. RESEARCH PROJECTS AND CONSULTATION JOBS

DEPARTMENT OF CHEMICAL ENGINEERING

Sl. No.	Title of the Project	Investigators	Sponsoring agency	Year of starting	Amount (Lakhs)	Status
1.	Investigation Over the Experimental and Mathematical modeling of Aerosols in Kozhikode District	Dr.N.Selvaraju	KSCSTE	2015-17	16	Ongoing

DEPARTMENT OF CIVIL ENGINEERING

Sl. No.	Title of the Project	Investigators	Sponsoring agency	Year of starting	Amount (Lakhs)	Status
1	Use of Coir Pith for Airport Soft Ground Arrester System	Dr. MVLR Anjaneyulu; Dr. S. Chandrakaran, Dr. A.P. Shashikala, Dr. K. Rangaswamy, and Sri. Sajith A.S.	Coir Board, MMSME, GOI, Kochi, Kerala.	2011	113.124	On going
2	Study of Long Term Performance Of Pavements Reinforced With Coir Geotextiles	Dr. MVLR Anjaneyulu	Coir Board, MMSME, GOI, Kochi, Kerala	2011	268.114	On going
3	Behaviour of bituminous mixture under moisture and adverse Temperature conditions	Sri. M Sivakumar	NITC, FRG	2013	4.80	On going
4	Coordinator, Centre for Transportation Research, a Centre of Excellence, under Establishment of 50 Centres of Excellence for Training and Research in Frontier Areas of Science & Technology (FAST)	Dr. M.VL.R.Anjaneyulu (Members: Dr. Hari Krishna M)	MHRD, Govt. of Indis	2014	100 (Annual Grant).	On going
5	Antibiotics Removal from Wastewater using Membrane-Photocatalytic Slurry Reactor System (SERC/ET-310/2011)	Dr. S Mathava Kumar (PI) Dr. George K Varghese	SERC Divison, DST, India	2013	21.80	On going
6	"Stabilization of soft clays using Bio enzymatic lime"	Dr. S Chandrakaran	KSCSTE, Kerala	2016	12.00	On going

DEPARTMENT OF ELECTRICAL ENGINEERING

Sl. No	Title of the Project	Investigators	Sponsoring Agency	Year of Starting	Amount (Lakhs)	Status
1	Development of Smart Controller for Switched Reluctance Motor	Dr. Ashok S.	KSCSTE-R&D	2016	17	Ongoing
2	Development of Solid State Transformer as wind Power Interfacing Device	Dr. Ashok S.	CPRI R&D	2015	28	Ongoing
3	Development of cost effective 3 axis intelligent platform stabilization system	Dr. Ashok S, Dr. Nandakumar M. P. and Dr. T. K. Sunil Kumar	DRDO	2016	39	Ongoing
4	Security Assessment of Microgrids in isolated and Grid connected mode.	Dr. Ashok S and Dr. Sunitha R	NAMPET Phase-II	2015	15	Ongoing
5	Nonlinear analysis of EEG signals of patients with	Dr. Subha D. P.	DST	2012	17.95	Ongoing

	Alzheimer's diseases					
6	Power Converter for HES	Dr. Kumaravel S.	FRG	2010	5	Report writing

DEPARTMENT OF ELECTRONICS & ENGINEERING

Sl. No.	Title of the Project	Investigators	Sponsoring Agency	Year of Starting	Amount (Lakhs)	Status
1	Design & Implementation of Protocol Stack for Under water Acoustic Sensor Networks	Dr. A V Babu and Dr. Lillykutty Jacob	Naval Research Board (DRDO)	2013	30.05	Ongoing
2	SMDP-C2SD	Dr.PCSubramaniam& Dr.RamaSubramaniam Komaragiri	DeitY	2015	150	Ongoing
3	Design and Implementation of a Secure Communication System for Reduced Complexity	Dr. Deepthi P. P. (PI) Dr.Sathidevi P. S. and Dr.Sameer S. M. (Co-investigators)	DeitY, Govt. of India	2013	38.88	Ongoing

DEPARTMENT OF MECHANICAL ENGINEERING

Sl. No	Title of the Project	Investigators	Sponsoring agency	Year of starting	Amount (Lakhs)	Status
1	Investigation on Bio-hydrogen Production by thermo-chemical method in fluidized bed gasifier under catalytic support and its utilization	Dr. C. Muraleedharan, Dr. P Arun	MNRE	2 years 6 months	35	Ongoing
2	Production of Bio-diesel from Chlorella Vulgaris and Salvinia Molesta and investigation on its use in single cylinder diesel engine	A. Shaija-PI	KSCSTE	2014	11.1	Ongoing
4	Design and fabrication of Tubular photobioreactor	A. Shaija-PI	TEQIP-II	2015	5.8	Ongoing
5	Design and fabrication of anechoic test facility and characteristics of acoustic emissions from airfoils in flow field	Dr. T.J. Sarvoththama Jothi	DST-SERB	2014	22.54	Ongoing
6	Development and analysis of model for green operations in supply chain management	Dr. V Madhusudanan Pillai	KSCSTE.	2014	9.3	Ongoing
7	Development of rates for the Mahatma Gandhi National Rural Employment Guarantee Scheme (NREGS) – Time and Motion Study – Phase 2	Dr. V Madhusudanan Pillai	Local Self Government Department, Kerala	2010	3	Ongoing
8	Computer Aided Enterprise Integration Using MRP II	Dr.V Madhusudanan Pillai	Faculty Research Project Under Centre of Excellence Scheme, REC, Calicut.		0.15	Completed

9	Direct Expansion Solar assisted heat pump	Prof. A. Caltayu (Kazhagistan) Dr. S. Jayaraj and Prof. T. Ooi (NTU)	Kazhagistan	2015	150	Ongoing
10	Research Centre for Characterization and Precision Measurements	Prof. Jose Mathew	DST-FIST	2015	275	Ongoing
11	Investigation of Metallurgical and Mechanical Properties of Brass Plates Joined by Friction Stir Welding and Submerged Friction Stir Welding.	Dr. M. A. Joseph	KSCSTE	Six Months (January to June 2016)	0.15	Ongoing
12	Design, fabrication and testing of novel solar collector for daylighting and water heating	Dr. A. Shaija	KSCSTE	PG stud. project	0.12	On going
13	Study on the effects of nano additives on Avocado biodiesel in variable compression ratio engine	Dr. A. Shaija	KSCSTE	PG stud. Project	0.07	On going

DEPARTMENT OF PHYSICS

Sl. No.	Title of the project	Investigators	Sponsoring Agency	Year of starting	Amount (Lakhs)	Status
1.	Development of Organic Solar Cells Based on Transition Metal Oxide Anode Buffer Layers	Dr Vari Sivaji Reddy (PI) Dr A Sujith (Co-PI)	Kerala State Council for Science, Technology and Environment (KSCSTE)	2014	28.75	Ongoing
2.	Development of Bistable Memory Devices Based on Organic Semiconductors	Dr Vari Sivaji Reddy (PI)	Department of Science & Technology (DST), Govt. Of India	2013	21.84	Ongoing
3	Electronic Structure Studies of Adsorption of Unsaturated Hydrocarbons on Metal Catalysts	Dr. Raghu Chatanathodi	CSIR	2012	19	Ongoing
4	High Energy Density Photochemical Fuels Based on Nanomaterial Hybrids	Dr. Aji Anappara (PI), Dr. Lakshmi C, Dr. Raghu Chatanathodi, Dr. Parameswaran P. (co-PIs)	DST- Nanomission	2013	44.25	Ongoing
5	"Transparent, flexible and conducting electrodes based on graphene nanometal hybrids"	PI: Dr. Aji A Anappara	DST and Fast Track Scheme	2013	11.10	Ongoing

DEPARTMENT OF CHEMISTRY

Sl. No	Title of the Project	Investigators	Sponsoring agency	Year of starting	Amount (Lakhs)	Status
1	Development and characterization hierarchical zeolites for fine chemical synthesis	Dr. G. Unnikrishnan	DST	2012	50.09	Ongoing
2	Development of nanocomposites from EVA, chitin, Fibres	Dr. G. Unnikrishnan	British Council	2009	1 lakhs+ GBP	Dissemination activities continues

3	Development of Pro-fluorophore scaffolds to study peptide aggregation and conformational transitions	Dr. Lakshmi C	DST	2011	20.7	Ongoing
4	Biodegradability enhancement of polyethylene by using biopolymer nanoparticles	Dr. A. Sujith	DST	2012	25.5	Ongoing
5	Low density polyethylene/nanochitosan biodegradable films for food packaging applications	Dr. A. Sujith	KSCSTE	2012	11.6	Ongoing
6	Poly(3,4-ethylenedioxythiophene)/Poly(methyl methacrylate) core-shell nanospheres for the fabrication of transparent and conductive thin films	Dr. A. Sujith	CSIR	2012	23.25	Ongoing
7	Ruthenium(II), Osmium(II) and Gold(III) Alkaloids: Active Targets for DNA Intercalation Interactions	Dr. Suni Vasudevan	DST	2013	26	Ongoing
8	Novel Functionalized Porphyrinic Coordination Arrays, Polymers and Frameworks: Synthesis and Properties	Dr. C. Arunkumar	DST	2012	21.8	Ongoing
9	Rational Design and Synthesis of Metalloporphyrin-Lanthanoid Hybrid Materials for Photophysical and DNA Binding/Cleavage Studies	Dr. C. Arunkumar	DST	2013	43.66	Ongoing
10	Design of Uranium Based Catalyst for Activation and Functionalization of N ₂ and CO: A Computational Quantum Mechanical Study	Dr. Parameswaran P.	DST	2012	25.5	Ongoing
11	High Energy-density Photochemical Fuels Based on Nanomaterial Hybrids	Aji A. Anappara, Raghu C, Parameswaran P and Lakshmi C	(DST, Nano Mission)	2013	44.25	Ongoing
12	Photo switchable K ⁺ ion channel blockers : A computational quantum mechanical investigation of blocking action and design of efficient channel blockers	Dr. Susmita De	DST-INSA	2013	35	Ongoing

DEPARTMENT OF ARCHITECTURE

Sl. No	Title of the Project	Investigators	Sponsoring agency	Year of starting	Amount (Lakhs)	Status
1	The Hudco funded research project titled 'Development of a Model framework for Land use based Estimation and Prediction of Solid waste generation in small/medium scale towns in India', under HSMI/HUDCO R&D Plan at a grant of Rs 20.16 lakhs – Ongoing.	Dr.P.P.Anilkumar and Chithra.K	Hudco	2013	20.16	Nearing completion

SCHOOL OF NANO SCIENCE & TECHNOLOGY

Sl. No	Title of the project	Investigators	Sponsoring agency	Year of starting	Amount (Lakhs.)	Status
1	"Investigations on the Application of Catalytic Nanoparticles as Diesel and Bio Diesel Additives",	V.Sajith, C.B.Sobhan N.Sandhyarani Hanas.T	Hindustan Petroleum Corporation Limited(HPCL	2010	120	Ongoing
2	Ultrasensitive rapid and low cost detection of cancer biomarkers	N.Sandhyarani	Council of Scientific and industrial research	2014	6	Ongoing
3	Flexible Nanomaterial Doped Polymer Dispersed Liquid Crystal (PDLC)Devices for Switchable Window Applications	Nimmy John N. Sandhyarani (mentor)	KSCSTE	2013	15	Ongoing
4	Development of stable nanofluids for heat exchanger for improved cooling in thermal power plants	Dr.Sajith V.,Shijo Thomas, Dr.C.B.Sobhan	NTPC Energy Technology Research Alliance (NETRA)	2016	56.6 l	Ongoing

SCHOOL OF BIOTECHNOLOGY

SI No	Title of the Project	Investigators	Sponsoring agency	Year of starting	Amount (Lakhs)	Status
1	Transcript profiling of differentially expressed gene(s) involved in the downstream step(s) leading to artemisinin biosynthesis on GA3 induction	Dr.Aswati Nair	KSCSTE	2012	16.00	Ongoing
2	Characterizing the interactions of chlorpromazine with the mitotic kinesin Eg5 and tubulin: Implications in cancer chemotherapy	Dr.Rathinasamy K	DST (SERC) SR/SO/BB-13 /2009	2014	38.05	Ongoing
3	Design and In vitro evaluation of the neuroprotective effects of HIF-prolyl hydroxylase inhibitors against ischemic stroke	Dr.Rajanikant G K	DBT	2013	50.19	Ongoing
4	Bioinformatics Infrastructure Facility	Dr.Rajanikant G K	DBT	2010	27	Ongoing
5	Inhibition of mitochondrial Dynamin related protein-1 activity confers neuroprotection against ischemia	Dr.Rajanikant G K	DBT	2014	35.14	Ongoing
6	Comprehensive computational analysis of anti-diabetic phytotherapeutics of Indian origin	Dr.Rajanikant G K	Kerala State Council for Science, Technology & Environment (KSCSTE)	2014	14.42	Ongoing
7	Development of recombinant sphingomonas paucimobilis for gellan gum production: Characterization and application of recombinant gellan gum in nanoparticle based drug delivery systems	Dr.Santhyagu A	. KSCSTE	2015	24. 25,600	Ongoing

8	A genetic approach towards understanding the function of chaperonin CCT complex using yeast <i>Saccharomyces cerevisiae</i> as a model system	Dr Md Anaul Kabir	CSIR	2015	12.00	Completed
---	---	-------------------	------	------	-------	-----------

11.5 FACULTY POSITION (As on 31.03.2016)

	<i>Professor</i>	<i>Asso. Professor</i>	<i>Asst. Professor</i>	<i>Total</i>
Architecture				
Sanctioned	1	4	7	12
In Position	0	3	4	7
Vacant	1	1	3	5
Chemical				
Sanctioned	2	3	7	12
In Position	0	3	6	9
Vacant	2	0	1	3
Civil				
Sanctioned	6	12	23	41
In Position	13	4	10	27
Vacant	-7	8	13	14
Computer				
Sanctioned	5	9	19	33
In Position	2	5	13	20
Vacant	3	4	6	13
Electrical Engineering				
Sanctioned	5	11	22	38
In Position	9	5	11	25
Vacant	-4	6	11	13
Electronics & Communication				
Sanctioned	5	10	19	34
In Position	4	10	10	24
Vacant	1	0	9	10
Mathematics				
Sanctioned	3	5	11	19
In Position	2	6	07	15
Vacant	1	-1	04	4
Mechanical				
Sanctioned	10	14	28	52
In Position	11	5	16	31
Vacant	-1	9	12	20

Science & Humanities

Sanctioned	2	5	11	18
In Position	3	4	7	14
Vacant	-2	1	0	-2

School of Bio Technology

Sanctioned	--	--	--	--
In Position	0	3	4	7
Vacant	0	0	0	0

School of Management Studies

Sanctioned	--	--	--	--
In Position	1	0	3	4
Vacant	0	0	0	0

School of Nano Science and Technology

Sanctioned	--	--	--	--
In Position	1	1	4	6
Vacant	0	0	0	0

Training & Placement & Physical Education

Sanctioned	1	1	2	4
In Position	1	1	1	3
Vacant	0	0	1	1

Total

Sanctioned	40	74	149	263
Additional Sanctioned	3	6	10	19
Grand Total	43	80	159	282
In Position	47	50	96	193
Vacant	-4	30	63	89

11.6 ADMINISTRATIVE AND OTHER STAFF (Pre-NIT Pattern)

ADMINISTRATIVE STAFF-OFFICERS

Sl. No.	Designation	Name
INSTITUTE OFFICE		
1	Registrar	Dr. B. Sukumar
2	Dy Registrar (Admn)	1. Sri.P.T.Jose, Sr.Audit Officer on deputation from AG's Office up to 29.07.2015 (in-charge) 2. Smt. Jayaprabha Ravindran, Assistant Director ,on deputation from The National Archives of India, New Delhi.
3	Dy Registrar (Finance)	1. Sri. B.Sabarinathan Sr. Audit Officer (Commercial) on deputation from O/o the Comptroller and Audit General of India, New Delhi.
4	Deputy Registrar (S & P)	1. Sri .P.T. Jose, Sr.Audit Officer on deputation from AG's Office as OSD (up to 29.07.2015) 2. Sri. Mohanakrishnan. C, Section Officer on deputation from Central University of Kerala, Kasargod as OSD (in-charge of Store & Purchase). (up to 04.09.2015) 3. Sri. V.S. Pradeep Kumar, Manager (PR & C) on

		deputation from India Tourism Development Corporation Ltd. as DR (from 05.09.2015 onwards)
5	Dy Registrar (Academic)	1. Dr. A. Santhiagu (in-charge) up to 30.04.2015 2. Sri. Mohanakrishnan. C, Section Officer on deputation from Central University of Kerala, Kasargod as OSD from 01.05.2015 to 11.01.2016 3. Dr. Raghunadhan T, Dy. Registrar, NITC from 11.01.2016 onwards
6	Internal Audit Officer	Sri. V Muraleedharan (Sr. Audit Officer, on deputation from AG's office)
7	Asst. Registrar	Sri. Surendran. A, Commercial Tax Inspector, O/o the Deputy Commissioner (Intelligence), Commercial Taxes Department as Officer on Special Duty, Accounts from 24.07.2015 onwards
8	Financial Assistant	Vacant
9	Senior Superintendent	Smt. Devaki.P.P (Retired on 30.06.2015)
10	Senior Superintendent	Smt. Rugmini.C.P
LIBRARY		
11	Librarian	Vacant
12	Librarian (Gr.II)	Vacant
HOSPITAL		
13	Lady Medical Officer	Vacant
14	Resident Medical Officer	Dr. (Smt.) A.A. Celine
ENGINEERING UNIT		
15	Asst. Exe. Engineer	Vacant
	Divisional Accountant	Balan. A
HOSTEL OFFICE		
16	Hostel Manager	Venugopal A (in-charge) (Retired on 31.10.2015) Reejish Kumar M (in-charge)
TPL		

NON TEACHING STAFF STRENGTH

Sl. No	Designation	Sanctioned
COLLEGE & DEPARTMENTAL OFFICES		
1	Junior Superintendent	6
2	P.A. to Director	1
3	U.D. Clerk	20
4	L.D. Clerk	19
5	Fair Copy Superintendent	1
6	Typist/Data Entry Operator	5
7	Confidential Assistant	9
8	Duplicating Machine Operator	1
9	Store Keeper	4
10	Duffedar	1
11	Peon	18
ENGINEERING UNIT		
1	Assistant Executive Engineer	Vacant
2	Assistant Engineer (Electrical)	1
3	Assistant Engineer (Civil)	2
4	Overseer Gr.I /Sr. Mechanic	2
5	Draftsman Gr. I.	1
6	Overseer Grade III	2
7	Mechanic (Water supply), Plumber/ Mason Trade	6
8	Mechanic (EMU)	5
9	Senior Mechanic (Engg. Unit)	9
10	Senior Mechanic (EMU)	5
i. LIBRARY		
1	Librarian Gr. III	1
2	Librarian Gr. IV	9

3	Attender, Library	6
4	Bookbinder	1
5	Graphic Artist	1
6	Offset Machine Operator	1
7	Digital Library Technician	1
ii. HOSPITAL		
1	Staff nurse	2
2	Pharmacist	1
3	Attender Hospital	1
iii. HOSTEL		
1	Stewards	5
2	Matron-Ladies Hostel	1
iv. GUEST HOUSE		
1	Guest House Manager	1
2	Cook-cum-butler	1
3	Bearers-cum-Room boy	2
v. COLLEGE VEHICLES SECTION		
1	Driver	4
2	Vehicle Cleaner	2
vi. WATCH AND WARD STAFF		
1	Sergeant	1
2	Watchmen	6
3	Watchman-cum-Gardener	16
4	Gardener	1
vii. SANITATION		
1	Sanitation worker	16
2	Sweeper-cum-Sanitation worker	6
3	Part-time Sweeper	25

NON-TEACHING STAFF (ACADEMIC)

DEPARTMENT OF CIVIL ENGINEERING		
1	Instructor	1
2	Senior Mechanic, Lab Technician	9
3	Mechanic	4
DEPARTMENT OF ARCHITECTURE		
1	Senior Mechanic	2
2	Draftsman Gr. II	1
DEPARTMENT OF ELECTRICAL ENGINEERING		
1	Instructor	1
2	Senior Mechanic	11
3	Mechanic	2
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING		
1	Instructor	1
2	Senior Mechanic, Lab Technician	4
3	Mechanic	3
DEPARTMENT OF COMPUTER SCIENCE ENGINEERING		
1	System Analyst	1
2	System Programmer	1
3	Computer Operator	1
4	Computer Technician	1
5	Senior Mechanic	1
6	Mechanic	5
DEPARTMENT OF MECHANICAL ENGINEERING		
1	Draughtsman Gr. I	1
2	Foreman	1
3	Supervisor	2
4	Instructors	2

5	Senior Mechanic	25
6	Mechanic	7
CENTER FOR BIO-MECHANICS		
1	Senior Mechanic	1
2	Mechanic	1
DEPARTMENT OF SCIENCES & HUMANITIES		
1	Lab Assistant	4
TRAINING AND PLACEMENT CELL		
1	Marker	2

11.7 STAFF MEMBERS DEPUTED/SPONSORED FOR TRAINING, LEARNING

Staff members deputed/sponsored for Training, Learning

Name of the Staff	Title of the Programme	Duration and Period	Organization
1. Sukumaran Nair. N 2. Sethumadhavan Mecheri 3. Purushothaman Pillai K N 4. Muraleedharan P	General Awareness of Service Rules & Office Procedures	26 th to 28 th November, 2015	Integrated Training & Policy Research, (Training Division), West Patel Nagar, New Delhi.
1. Venugopal B 2. Sasesh A R	Supervisory Development Programme	16 th to 20 th November, 2015	Foreman Training Institute, Jamshedpur
1. Shibu K 2. Sreenivasan P	Analysis by Gas Chromatography	28 th December, 2015 to 8 th January, 2016	Ministry of Labour Employment, ATI Mumbai

11.8. SCHOLARSHIPS & AWARDS

CREC Silver Jubilee Endowment Trust Scholarships

CREC Silver Jubilee Endowment Trust (SJET) of the Institute, a registered body with the Director as Chairman, Deans & Heads of Departments as ex-officio and other nominated members as Trustees, currently awards 93 scholarships worth Rs. 5000 to 10000/- each per annum to the students. The number and the value of the scholarships for a year will vary depending on the availability of funds and the sponsors. The SJET will invite applications from the students and Heads of the departments/ a sub-committee will scrutinize the applications, and verifies the data with the students and others. The scholarships are awarded to the deserving students based on their academic merits, economic backwardness and other performance parameters. The SJET scholarships include.

Sl.No.	SCHOLARSHIPS
1.	Prof. A. O. Kunjipaulo Endowment Scholarship
2.	Class of 1992 Computer Engineering Alumni Scholarship
3.	RECCAA, Singapore Scholarship
4.	RECCAA, USA Scholarship
5.	RECCAA, Bahrain Scholarship
6.	REC 1 st Batch Scholarship
7.	RECCAA, Mumbai Scholarships (2 Nos.)
8.	CSAI (Class of 2000) Scholarships (4 Nos.)
9.	REC 76 – 81 Batch Scholarships (2 Nos.)
10.	10 years of XXXII nd Batch (CREC 96) Scholarship
11.	REC Calicut 1982 Batch Scholarship
12.	NITC (REC) 1983 Batch Scholarship
13.	REC Calicut, Class of '84 Trust Scholarship
14.	CREC 80-85 Batch Scholarship
15.	Padmanabhan Scholarship in Memory of All Departed Souls of 77 Batch, CREC
16.	Capt. Mohammed Memorial Endowment Scholarship

17.	Nitin Sharma Memorial Scholarship
18.	1997 – 2001 CSE B. Tech. Batch Scholarship
19.	Joseephus M T, John Sebastian & Luthufi K T Memorial Scholarship 2004-08 Batch
20.	Mariveetil Raghunath Memorial Endowment Scholarship
21.	1984-88 Batch of REC/NITC Scholarship

In addition to the above scholarships, **PTA** awarded scholarships worth 2 lakh to 27 students and **NITC Hostels** awarded 21 scholarships ((1.05 lakh), both these scholarships were processed through SJET.

11.9 THE PARENT TEACHER ASSOCIATION

CREC Parent –Teacher Association had originated as a charitable society keeping the objective of developing the educational, cultural, and training activities of students of CREC (presently NIT Calicut (NITC)) on a no-profit no-loss basis. Dr. A P Shashikala, Dean Academic and Professor, Civil Engineering Department, Dr. Rama Komaragiri, Associate Professor, Department of Electronics and Communication Engineering Department and Dr. Arun P, Assistant Professor Mechanical Engineering Department are in the positions of President, Secretary, and Joint Secretary cum Treasurer, of CREC-PTA, respectively.

During the year 2015-16, PTA provided financial assistance to many needy students of NITC and coordinated parent teacher meetings at department level and institute level. Some of the major activities are listed below.

1. Cash awards (Rs.5,000/ each) were given to all the branch toppers during the Convocation day of the Institute held on January 10, 2015. An amount of Rs. 1,70,000/- was utilized for this purpose.
2. The PTA gave financial support to several needy students for paying their tuition fees, hostel fees mess bills and for medical assistance, for those students whose cases were recommended by the Dean Students Welfare, HODs and the Chief Warden. An amount of Rs. Rs. 2,24,100/- was spent for this purpose.
3. A financial support of Rs. 1,50,000/- was given to TATHVA 2015, the major technical event hosted by the students of NITC.
4. Scholarships were given to financially needy students under SJET Trust scholarship scheme. An amount of Rs. 200000/- was utilized for this purpose.
5. Travel fellowships were given to several students for presenting papers in international conferences held in India. Total amount of Rs. 126893/- was awarded as PTA Travel Fellowship.
6. PTA assisted the student volunteers of the Central Library on duty in the study room by paying a honorarium of Rs. 49,472.

The Annual General Body meeting held was held on 27-02-2016 and the meeting was well attended and served as a platform for useful discussion between parents and the faculty members. Department level meetings were also conducted on the same day in the respective Departments. Departments received many constructive suggestions and feedback from the parents

11.10 NATIONAL SERVICE SCHEME

The NSS Cell at NIT Calicut has four Units working under it. Participation in NSS activities is mandatory for the completion of B Tech. credit requirements in NIT Calicut. All students enrolled for the B Tech. programme of the Institute shall register for and complete the course requirements of NSS before they enter their third year of study, normally. The course requirement includes completion of minimum 15 hours of socially relevant activities in a semester. This, they are allowed to undertake within the campus, surrounding area of the campus or even near their home-town. The registered students keep an 'NSS Diary' along with them in which these activities are recorded and got endorsed by authorized persons. At the end of the registration period, grades are awarded after the evaluation of the diary. Apart from this mandatory component, there are a lot of voluntary activities from students even after their period of registration in NSS.

NSS Activities for the year 2015-16

NSS observe all the national and international days and organize various programmes on these days. On August 15, the Independence Day celebration was followed by a tree plantation drive where rare tree species obtained from social forestry department was planted at various locations in the campus.

October 2nd was observed by taking up various cleaning activities. On that day, the district administration lead a large number of students and volunteers of various organizations in a drive to clean the beach. NIT Calicut actively participated in the drive contributing more than 50 student volunteers. Our student volunteers also took up the cleaning of the CH over bridge in the town defaced by discriminate pasting of posters and notices. Students from the Architecture department took up the beautification of the sub-way by cleaning it and decorating it with murals. The efforts were appreciated by the city corporation. Selected photographs from these activities are given below. Within the campus also, cleaning and gardening works were under taken.

Cleaning of the nearby road margins were also carried out by our students. A lot of our students took part in these activities. *Swachhatha Shapath* was also taken by student volunteers.

Apart from observing important days, a few regular activities are identified for the involvements of NSS volunteers. The major one is the weekly classes for under privileged students of nearby schools held in the campus. Volunteers of NSS engaged regular classes during weekends for higher secondary students of nearby schools in science subjects and mathematics. The classes are engaged in such a way that it is also a coaching for the entrance examinations for higher studies. A lot of economically underprivileged students living in the vicinity of NIT Calicut campus made use of it.

The Institute has allotted vacant lands to NSS for carrying out farming activities. Volunteers have planted tapioca, plantain, vegetables, etc. in these lands. Volunteers had also taken up gardening activity for beautification of the campus.

NSS cell of NITC has taken lead in donating a 500 Sq ft. house for a poor and desolate lady living near our campus. The key of the house was handed over to the beneficiary on 11/11/2015 by the Director, NITC.

The Blood Donors Forum working under the auspices of NSS Cell conducted blood group determination camp on 27.9.2013 with the help of PG students of Calicut Medical College to update its data bank. Our volunteers have donated more than 100 units of blood in 2015-16.

The NSS units conduct the annual special camps at places that are socially backward and undertake activities to improve the lives of people there. The special camp of 2015-16 was conducted at Achoor in Wayanad from 18/12/2015 to 24/12/2015 where in 2nd, 3rd and final year students from our college took part. The works undertaken include vegetable plantation in the School, cleaning the area around School, organizing cultural program and activities for school students, etc.

11.11 Training & Placement Statistics

PLACEMENT 2015 - 16

NO	Date	COMPANY	TOTAL UG	AR	MCA	PG	TOTAL	Effective Total
1	26.07.15 27.07.15	Bajaj 7.7L	3				3	3
2	27.07.15	C Dot 9L	1				1	4
3	27.07.15	KLAten 9L					0	4
4	28.07.15 29.07.15	Cisco 15/16L	2			2	4	8
5	29.07.15 30.07.15	Qualcomm 14/15L	1			4	5	13
6	31.07.15	DEShaw20L	1				1	14
7	02.08.15 03.08.15	G S20L	4				4	18
8	02.08.15 03.08.15	GS 15L	5				5	23
9	01.08.15 04.08.15 05.08.15	Morgan Stanley 16.5L	4				4	27
10	06.08.15	Embibe12L	3				3	30
11	30.07.15 06.08.15	Oracle ST 12L	7			2	9	39
12	30.07.15 06.08.15	Oracle App 12L	7				7	46
13	30.07.15 06.08.15	Oracle Fin 7L	5		1	3	9	55
14	06.08.15	JPMorgan 8.5L	7				7	62
15	07.08.15	Inmobi 15L	0				0	62
16	07.08.15 08.08.15	Sandvine 9.5L	6				6	68
17	08.08.15	Coupen Dunia 10L	2				2	70
18	08.08.15	Maruthi .5L					-	-
19	09.08.15 10.08.15	Directi 15/26L	1				1	71

	11.08.15							
20	12.08.15 13.08.15	Vizury 12L	3				3	74
21	13.08.15 14.08.15	Cavium network10L	2			2	4	78
22	14.08.15 15.08.15	mSupply 7.5L	7				7	85
23	14.08.15 17.08.15	Thorogood 11L	2				2	87
24	18.08.15	Amadeus lab 8.1L	10				10	97
25	19.08.15	Dell 8.1L	2				2	99
26	17.08.15 19.08.15	American Express 9L	3				3	102
27	16.08.15 20.08.15	Philips 7L	8				8	110
28	17.08.15 21.08.15	Deloitte 6.2	20		2	1	23	133
29	23.08.15	Google	0				0	133
30	24.08.15 25.08.15	ZS 7L	15				15	148
31	25.08.15 26.08.15	Kalkicomm. 7.5L	0				0	148
32	25.08.15 26.08.15	TCS dig 6.5L	2				2	150
33	20.08.15 05.09.15	Musigma 6L	9				9	159
34	06.09.15 07.09.15	SAP 9.5L	4			4	8	167
35	07.09.15 08.09.15	Lat Analy 5L	3				3	170
36	08.09.15 09.09.15	L&T Const 5.2/5.4L	13				13	183
37	09.09.15	Sch Elet.3L	11				11	194
38	10.09.15	Codenation 24L	1				1	195
39	05.09.15 10.09.15	Thermofisher 7.5L	5			3	8	203
40	11.09.15	Pepsico 7L	2				2	205
41	10.09.15 11.09.15	HP 10.5L	4				4	209
42	12.09.15 13.09.15	HalfTick6L	2				2	211
43	13.09.15 14.09.15	Tatamotors 6L	14				14	225
44	15.09.15	Siemens5.5	2				2	227
45	15.09.15	Indian Navy						-
46	13.09.15 16.09.15	Gen Motors 8L	2				2	229
47	22.09.15	Netcraker 6L	12		1	1	14	243
48	24.09.15	Temenos 6.5L	7				7	250
49	25.09.15	One Conver5L			2	3	5	255
#	25.09.15	Maruthi .5L	4				4	259
50	26.09.15 27.09.15	Future first 9.2L	1				1	260
51	30.09.15	Foster Wheeler 4.2	4				4	264
52	01.10.15 02.10.15	Unisys 6.3L	4				4	268
53	05.10.15	Verizon 5.7L	3				3	271
54	06.10.15	Intellect 5L	1		2	1	4	275

55	07.10.15	Pathpartner 5L	1			2	3	278
56	08.10.15	Tata elxi 4.4L	23			2	25	303
57	09.10.15 10.10.15	L&T 4.8L	10				10	313
58	16.10.15	Oracle GCS 9L	5				5	318
59	16.10.15 17.10.15	BPCL 11.5L	12				12	330
60	10.10.15 17.10.15	Bosch 5L	2				2	332
61	19.10.15 20.10.15	Info trellis 4/4.5L	2		3		5	337
62	19.10.15 20.10.15	Mahindra 6L	10				10	347
63	26.10.15 27.10.15	Zoho 6.6 / L	4		2		6	353
64	28.10.15	Virtusa5/3.3L	14		3		17	370
65	29.10.15	Wabag 4.3L	2				2	372
66	31.10.15	Autoninja 6.2L	7				7	379
67	02.11.15 03.11.15	Capgemani 4.5L	14			3	17	396
68	03.11.15 04.11.15	G E 9.2L				5	5	401
69	03.11.15 04.11.15	TCE 4.5/5L	4			6	10	411
70	04.11.15	Sify 6.3L	3				3	414
71	05.11.15 06.11.15	Peple10 5L	6		1	1	8	422
72	06.11.15	MAQ soft4L			1		1	423
73	10.11.15	Infosys 6L	0			3	3	426
74	16.11.15	Hexogen5L	1			2	3	429
75	16.11.15 17.11.15	J P Morgan Chase8.5L			0		0	429
76	18.11.15 19.11.15	TCS – EIS 3.5L	10			19	29	458
77	18.11.15 19.11.15	TCS – IT 3.5L	16		2	16	34	492
78	20.11.15	Time 6L	2			1	3	495
79	20.11.15	TCS-MGT 5L				4	4	499
80	21.11.15	Rolls Roice 6.5L				1	1	500
#		Zoho 4.6 / L	1				1	501
#	01.12.15	Capgemani 4.5L	1				1	502
81	11.12.15	IBS 4L				4	4	506
82	28.12.15	Rel Indt5.5L	14				14	520
#		L&T Const 5.2/5.4L	2				2	522
83	02.01.16	ICICI 3.5L					0	522
84	11.01.16	Idea 5L	2			3	5	527
85	12.01.16	Philips Carbon 4L	2				2	529
86	22.01.16	Kitco 3.5L	1	1		1	3	532
87	28.01.16	Sekers4.7L	2				2	534
88	01.02.16	KEF Infra4.1L	1				1	535
89	02.02.16	SIB 5L	0				0	535
90	02.02.16	QBurst 5L	3				3	538
91	03.02.16 04.02.16	Alkatel 6.5L	3				3	541
92	04.02.16	C Dot 9L	0				0	541
93	05.02.16	ZF wind 4L	8				8	549
94	05.02.16	Dquietent4l	2				2	551

95	12.02.16	PuralUnv6L				5	5	556
96	12.02.16	Avanti 4L	0				0	556
97	16.02.16	MRF 6L	8				8	564
98	16.02.16	L&T PG 6L				2	2	566
99	16.02.16	Technip6L					0	566
100	16.02.16	L&T Ramball 5L				3	3	569
101	17.02.16	Murugappa 4.5L	4				4	573
102	24.02.16	Gemani software 5L					0	573
103	19.02.16 26.02.16	KEC Interna 5L	2				2	575
104	28.02.16	Gulf C C 6L	1				1	576
105	29.02.16	Vedantha6L	11				11	587
106	03.03.16	John Deere5.5L				1	1	588
#	08.03.16	ZF wind 4L	3				3	591
#	08.03.16	TCS MBA5L				1	1	592
107	09.03.16	Ruby7 6L	1		1	3	5	597
108	25.03.16	ITD Cem 3L	8				8	605
109	28.03.16 04.04.16	eLitmas 5L	0				0	605
110	12.04.16 13.04.16	HPCL 11L	8				8	613
111	18.04.16	GoDB Tech 4L				3	3	616
112	18.04.16	Cerner 5.8L	2		1		3	619
113	18.04.16 19.04.16	VKC Ind 4/6				3	3	622
114	25.04.16	C A 8L	0				0	622
115	25.04.16 26.04.16	Parker Hannifin 4.5	2				2	624
116	25.04.16 26.04.16	Suyati 4L				2	2	626
117	27.04.16	PRDC 4L				1	1	627
118	10.05.16	I exceed 4L	4				4	631
#	10.05.16	KEC 5L	1				1	632
#		Army/Navy	1				1	633