

1 THE INSTITUTE

1.1 HISTORICAL BACKGROUND

National Institute of Technology Karnataka (NITK) Surathkal, formerly known as Karnataka Regional Engineering College (KREC) Surathkal, was established in the year 1960 at Srinivasnagar, Mangalore, Karnataka State. Sri U. Srinivasa Mallya, a visionary and a philanthropist was instrumental in the establishment of this Institute and hence the campus is named after him as “Srinivasnagar”. KREC made a small yet significant beginning with 3 Departments offering BE programs in Civil, Mechanical and Electrical Engineering. Since then KREC grew from strength to strength and set unprecedented records in the field of technical education in the country. Initially the College was affiliated to the University of Mysore but in 1980 the affiliation was transferred to the Mangalore University. With every passing batch of students who went on to conquer unexplored domains in the service of humanity, the stature of KREC grew and the world recognized and applauded. So much so, ‘Surathkal’ is synonymous with high quality engineering education. In 2002, the Government of India decided to grant full autonomy and accordingly the College was elevated to the status of Deemed University and renamed as the National Institute of Technology Karnataka. Subsequently, the National Institute of Technology Act, 2007 was enacted by the Parliament of India to declare India’s National Institutes of Technology as Institutes of National Importance. The Act received the assent of the President of India on 5th June, 2007 and became effective from August 15, 2007. The Institute is governed by the rules and statutes of the NIT Act.

The Institute has established itself as a premier center engaged in imparting quality technological education and providing support to research and development activities. The Institute has a long tradition of research for several decades in both traditional and modern areas of engineering and sciences in all departments. The Institute has been actively involved in applied research in

looking at and resolving problems faced by the society in several areas. NITK attracts students from all over the country and abroad. NITK graduates are sought after by top industries/companies and the Institute has been rated as one of the best Institutions in the country with regard to student placements. Many of its alumni occupy coveted positions both in India and abroad and are a source of pride and inspiration to the Institute. NITK is consistently rated among the top engineering and technological institutes in India. Today, the Institute offers nine B. Tech programmes, 27 Post Graduate programmes and Doctoral programmes in all its fourteen Departments and is making significant advances in R&D and outreach activities too.

1.2 LOCATION

The Institute is located at Srinivasnagar, Surathkal in the Dakshina Kannada District of Karnataka State, 21 km. North of Mangalore city on either side of NH.66 which cuts across the campus. The campus is well connected by rail, road, air and sea with the rest of the country. The airport is situated at Bajpe, 20 km from Surathkal. The nearest Railway station is Surathkal (3 km.) which is on the Mangalore-Mumbai Konkan Railway route and the nearest sea port is New Mangalore which is 8 km, south of college campus.

1.3 CAMPUS

The campus covers an area of 295 acres in picturesque surroundings with Western Ghats in the East and the West Arabian Sea in the West. The campus is well laid out with roads, electrical installation, water supply, underground drainage etc. The campus being on the seashore, is blessed with clean air and a healthy climate. The National Highway NH 66 separates the campus into Western Side and Eastern Side campus. The Western Side of the campus houses the Departments of E&E, E&C, Computer and Information Technology, Guest Houses, STEP, Yoga centre and pristine beach

2 GOVERNANCE & ADMINISTRATION

2.1 ADMINISTRATION

NITK is governed by the Board of Governors which consists of representatives of the Government of India, Government of Karnataka, Alumni, Industry and other nominees. The Chairman of the Board is nominated by the Government of India. The Director is the administrative head of the Institute. The functioning of NITK is governed by NITSER Act 2007 and rules laid down by Government of India.

COUNCIL, BOG AND OTHER COMMITTEES

COUNCIL OF NITs

- 1 Minister of HRD, Government of India
- 2 Education Secretary, Ministry of HRD, Government of India
- 3 The Chairperson of National Institute of Technology Karnataka, Surathkal
- 4 Director of National Institute of Technology Karnataka, Surathkal
- 5 Chairman, UGC
- 6 Chairman, All India Council for Technical Education
- 7 Director, General, Council for Scientific and Industrial Research
- 8 Secretary, Department of Bio-Technology, Government of India
- 9 Secretary, Department of Atomic Energy, Government of India
- 10 Secretary, Department of Information Technology, GOI
- 11 Secretary, Department of Space, Government of India
- 12 Not less than three but not more than five persons to be nominated Member by the Visitor, at least one of whom shall be a woman, having special knowledge or practical experience in respect of education, industry, science or technology
- 13 Three members of Parliament, of whom two shall be chosen by the Member House of the people and one by the Council of States
- 14 Two Secretaries to the State Government, from amongst the ministries Member or departments of

that Government dealing with technical education Two Secretaries to the State Government, from amongst the ministries Member or departments of that Government dealing with technical education

- 15 Financial Adviser, Ministry Government of India
- 16 Joint Secretary (Technical)/Additional Secretary (Technical), Department of Higher Education, Ministry of HRD, GOI

BOARD OF GOVERNORS

Chairman

Prof. K Umamaheshwar Rao
Director
NITK, Surathkal.

Members

Dr. Sukhbir Singh Sandhu
Additional Secretary (T E), Govt. of India
Dept. of Higher Education
Ministry of Human Resource Development
Room No. 122 'C', Shastri Bhawan, New Delhi-110 001

Ms. Darshana M. Dabral
Joint Secretary and Financial Advisor
Ministry of Human Resource Development
Dept. of Higher Education, Technical Education Bureau
Room No. 120 'C', Shastri Bhawan, NEW DELHI - 110 001.

Shri Mudda Kedarnath
Advisor – Aditya Birla Group
#17, Shankar Nilaya, 8th Main, 18th Cross
Upper Palace Orchard, Sadashivnagar
BENGALURU-560080.

Dr. Shanth Averahally Thimmaiah
Managing Director
M/s. METAMORPHOSIS Group of Companies
"PRAKRUTI BHAVAN", #200, 1st & 2nd Floor, 1st Cross, 40th Main, Behind Central Silk Board, BTM Layout 2nd Stage, BENGALURU – 560068.

Dr. (Ms.) Lalitha R Gowda Ph.D.
Former Chief Scientist, CSIR
Central Food Technological Research
Institute, Baylor, 1235 Gange Road, 3rd
Cross, Kuvempunagar, MYSORE –
570023.

Dr. (Ms.) Anju Chadha
Professor - Laboratory of Bioorganic
Chemistry, Department of Biotechnology
& NCCR, Indian Institute of Technology
Madras, CHENNAI - 600 036.

Dr. M K Nagaraj
Professor, Department of Applied
Mechanics,
NITK, Surathkal.

Dr. Udaya Bhat K
Associate Professor
Department of Metallurgical & Materials
Engg,
NITK, Surathkal.

Secretary

Shri K Ravindranath
Registrar
NITK, Surathkal.

FINANCE COMMITTEE

Chairman

Prof. K Umamaheshwar Rao
Director
NITK, Surathkal.

Members

Dr. Sukhbir Singh Sandhu
Additional Secretary (TE), Govt. of
India
Dept. of Higher Education
Ministry of Human Resource
Development, Room No. 122 'C',
Shastri Bhawan,
New Delhi-110 001

Ms. Darshana M. Dabral
Joint Secretary and Financial
Advisor, Ministry of Human
Resource Development
Dept. of Higher Education,
Technical Education Bureau
Room No. 120 'C',

Shastri Bhawan,
NEW DELHI - 110 001.

Dr. Shanth Averahally
Thimmaiah
Managing Director
M/s. METAMORPHOSIS Group
of Companies
“PRAKRUTI BHAVAN”, #200, 1st
& 2nd Floor, 1st Cross, 40th Main,
Behind Central Silk Board
BTM Layout 2nd Stage,
BENGALURU – 560068.

Dr. M K Nagaraj
Professor, Department of
Applied Mechanics,
NITK, Surathkal.

Member Secretary

Shri K Ravindranath
Registrar
NITK, Surathkal.

BUILDING AND WORKS COMMITTEE

Chairman

Prof. K Umamaheshwar Rao, Ph.D.
Director
NITK, Surathkal – 575 025

Members

Shri. Sanjeev K Sharma
Director – NITs, Dept of Higher
Education,
MHRD, GOI, Shastri Bhavan, New
Delhi.

Director - Finance
Dept. of Higher Education,
MHRD, GOI, Shastri Bhavan, New
Delhi

A U Ravi Shankar, Ph.D
Dean (P&D), NITK, Surathkal
Mangaluru – 575 025

Prof. G S Dwarakish
Dean (P&D), NITK, Surathkal
Mangaluru – 575 025

Dr. S V Ravindra
HOD School of Architecture
University Visvesvaraya College of
Engineering, Bengaluru University,
Jnana Bharathi, Bengaluru – 560 056

Ms. D Padmavathi
Chief Engineer
Chamundeshwari Electricity Supply
Cooperation Limited (CESC Ltd.)
Zonal Office, Vijayanagar, 2nd stage
Hinkal, Mysuru – 570 017

Shri P K Naidu
Project Manager, CPWD
NITK-S Project circle, NITK, Campus,
Srinivas Nagar, Mangaluru - 575025

Member – Secretary

Ravindranath
Registrar
NITK, Surathkal,
Post Srinivasnagar,
Mangalore-575 025

OTHER COMMITTEES
SENATE

Chairman

Prof. K. Uma Maheshwar Rao
Director
NITK, Surathkal – 575 025

External Member

N. C. Shivaprakash
Dr. (Ms.) Rama Govindarajan
Dr. (Ms.) Haripriya Gundimeda

Members

M.B. Saidutta, Ph.D.
T.P. Ashok Babu, Ph.D.
Dwarakish G. S, Ph.D.
Ananthanarayana V. S. , Ph.D.
Prasad Krishna, Ph.D.
S.M. Hegde, Ph.D.
A. Mahesha, Ph.D.
Arkal Vittal Hegde, Ph.D.
Kiran G. Shirlal, Ph.D.
Lakshman Nandagiri, Ph.D.
Nagaraj M.K., Ph.D.
Subba Rao, Ph.D.
Hari Mahalingam, Ph.D.
G. Srinikethan, Ph.D.
Gopal Mugeraya, Ph.D. (on
deputation to NIT Goa as
Director)
Denthaje Krishna Bhat, Ph.D.
A. Chitharanjan Hegde, Ph.D.
A. Nityananda Shetty, Ph.D.

A. Vasudeva Adhikari, Ph.D.
Badekai Ramachandra Bhat,
Ph.D.
Varghese George, Ph.D.
Katta Venkataramana
A.U. Ravi Shankar
K. S. Babu Narayan
K. Swaminathan
M. C. Narasimhan
R. Shivashankar
S. Shrihari
K. N. Lokesh
Sitaram Nayak
Subhash C. Yaragal
P. Santhi Thilagam
K. Chandrasekaran
U. Shripathi Acharya
John D'Souza
M. S. Bhat
Muralidhar Kulkarni
Sumam David S.
B. Venkatesa Perumal
K. Panduranga Vittal
Udayakumar R.Y.(on
deputation to MNIT, Jaipur as
Director)
G. Ram Mohana Reddy
B. R. Shankar
Santhosh George
A. Kandasamy
Murulidhar N. N.
Narendranath S.
Appukuttan K. K.
G. C. Mohan Kumar
Gangadharan K. V.
H. Suresh Hebbar
Ravikiran Kadoli
S. M. Kulkarni
Shrikantha S. Rao
Vijay H. Desai
Udaya Bhat K.
A. O. Surendranathan
Jagannath Nayak
K. Narayan Prabhu
K. Rajendra Udupa
V. R. Sastry
Ch. S. N. Murthy

M. Govinda Raj
M. N. Satyanarayan
H. D. Shashikala
Kasturi. V. Bangera
N. K. Udayashankar
K. B. Kiran
Aloysius Henry Sequeira
Sri P. G. Mohanan, System
Manager, CCC
Smt. Anasuya Chakari,
Librarian i/c

Special invitee

Ms. Marathe Maitreyee Sanjiv

Ms. Supriya S.

Secretary

Shri K. Ravindranath, Registrar

**BOARD OF STUDIES (BOS -
UG/PG/RESEARCH)**

Constitution:

Dean (AA)	Chairman
Dean (Faculty Welfare)	Member
Dean (Planning & Development)	Member
Dean (Students' Welfare)	Member
Dean (Research & Consultancy)	Member
Dean (Alumni Affairs & Institutional Affairs)	Member
H.O.D. of each Department/his nominee	Members
BOG member representing the faculty	Member
Three Representatives from the premier Academic Institutions such as IIT, NIT, IISc., IIM, others belonging to Southern region	Member
Assistant Registrars (Academic)	Member
Registrar	Secretary

QUARTERS ALLOTMENT COMMITTEE

K N Lokesh, Director i/c,
Ph.D. till 20.7.2017 *President*

K Uma Maheshwar Rao, from 21.7.2017	
T P Ashok Babu, Ph.D., till 14.3.2018	<i>Chairman</i>
A H Sequeira, Ph.D. from 15.3.2018	
M K Nagaraj, Ph.D., (BOG Member)	<i>Member</i>
Uday Bhat, Ph.D, (BOG Member)	<i>Member</i>
Sri. K Ravindranath, Registrar	<i>Member</i>
N Gaonkar, Resident Engineer i/c till 31.8.2017	<i>Member</i>
Sunil B M, Ph.D.from 1.9.2017	<i>Member</i>
Sri. Rammohan Y, Dy. Registrar (A/cs)	<i>Member</i>
K Narayana Prabhu, Professor, Met. & Mat. Engg.	<i>Member</i>
Dr. (Mrs) P Santhi Thilagam, Associ. Professor, CSE	<i>Member</i>
Sri. Monappa Mera, Assistant SG-1, A/c II	<i>Member</i>
Suresha S N, Faculty In-charge (Estate Works)	<i>Member/Secretary</i>

INSTITUTE GRIEVANCE COMMITTEE

A C Hegde, Ph.D. till 29.7.2017	
Dwarkish G S, Ph.D. from 30.7.2017	<i>Chairman</i>
Sripathi U, Ph.D., Professor, Dept. of E&C Engg.	<i>Member</i>
Satyanarayana, Ph.D., Asst. Professor, Dept. of Physics	<i>Member</i>
1. Sam Johnson P, Ph.D., Dept. of MACS	<i>Member</i>
Mrs. Yashavanthi, Asst. Executive Engineer	<i>Member</i>
Dept. of Computer Engg. Vijaykumar Ghode., Sr. Scintific Officer, Central computer Centre	<i>Member</i>
Gangamma S, Ph.D., Asst. Professor, Chemical Engg.	<i>Member</i>
Mr. Soumen Karmakar, Asst. Registrar(Admn.)	<i>Member</i>

SECURITY COMMITTEE

Dean (Faculty Welfare)
 Dean (P&D)
 Dean (SW)
 Registrar
 Chairman, CCC
 Prof. i/c Hostels
 Resident Engineer
 Dy. Registrar (A/cs)
 Faculty i/c Estate & works
 Faculty i/c Ele.works
 Faculty i/c Security
 Sri. Manohar Karanth, Security Officer

B M Dodamani, Ph.D. Member
 Aruna M, Ph.D. Member
 Sam Johnson, Member
 Kalpana Bhat Member
 Ram Prasad Chowdhury, Ph.D. Member
 Raviraj H Mulangi, Ph.D. Member
 Mr Iranna Shetter, Library Member
 Hari Prasad Dasari, Ph.D. Member
 President Students' Council Member
 Girls Representatives Member
 R. C. Convener Member
 All Captains Member
 Asst. Physical Director Member/
 Secretary

LIBRARY ADVISORY COMMITTEE

Ravikiran Kadoli, Ph.D. Chairman
 till 31.12.2017
 N Laxman, Ph.D. from
 1.1.2018
 Mrs. Anasuya C Secretary
 Amba Shetty, Ph.D. Member
 Prasanna B D Member
 A C Hegde, Ph.D. Member
 Arun Kumar Thalla, Ph.D. Member
 Jeny Rajan, Ph.D. Member
 Nagendrappa H, Ph.D. Member
 P Srihari, Ph.D. Member
 Sowmya Kamath, Ph.D. Member
 B R Shankar, Ph.D. Member
 Anish S, Ph.D. Member
 Shashi Bhushan Arya, Ph.D. Member
 B M Kunar, Ph.D. Member
 T K Shajahan, Ph.D. Member
 Bijuna C Mohan, Ph.D. Member
 Mr. Iranna M Shettar Member

SPORTS ADVISORY COMMITTEE

Director President
 Dean (S. W.) Chairma
 Dean (F.W.) Member
 Registrar Member
 Dy.Registrar(A/cs.) Member
 Hem Prasad Nath, PhD, SAS Member
 officer
 Manoj, PhD.,SAS Officer Member
 Resident Engineer Member
 Faculty In-charge Hostel Member
 Affairs
 N Lakshman, Ph.D. Member
 Jagannath Nayak, Ph.D. Member

NITK HEALTH CARE COMMITTEE

Dean Faculty Welfare Chairman
 Girls Hostel Warden Member
 Professor Incharge Hostel Member
 Affairs
 SC/ST Cell Liaison Officer Member
 Faculty Representative Member
 Staff representative Member
 Women Representative (a) Member
 from Faculty (b) from staff
 Deputy Registrar (A/C) Member
 Supdt. Accts III Member
 President Students Council Member
 Girls Representative Member
 Medical Officer Member

COMPLAINTS COMMITTEE

Jayalekshmi B R, Ph.D. Chairperson
 from 15.6.2016
 C P Devatha, Ph.D. Member
 Aruna M, Ph.D. Member
 Yogeesh Member
 Parvathi Member
 Anasuya Chakari Member
 Manjula V Prasad Secretary
 Mrs. Merlyn Martis, NGO Member
 Advocate

3 DEPARTMENTS AND SCHOOLS

Applied Mechanics & Hydraulics	(AM)
Chemical Engineering	(CH)
Chemistry	(CY)
Civil Engineering	(CV)
Computer Engineering	(CO)
Electrical & Electronics Engineering	(E&E)
Electronics & Communication Engineering	(E&C)
Information Technology	(IT)
Mathematical & Computational Sciences	(MA)
Mechanical Engineering	(ME)
Metallurgical & Materials Engineering	(MT)
Mining Engineering	(MN)
Physics	(PH)
SCHOOLS	(SM)
School of Management	

4 ACADEMIC PROGRAMMES

4.1 PROGRAMMES OFFERED

I. B.TECH. (Undergraduate Programme) – Eight semesters

1	Chemical Engineering
2	Civil Engineering
3	Computer Engineering
4	Electrical And Electronics Engineering
5	Electronics & Communication Engineering
6	Mechanical Engineering
7	Metallurgical & Materials Engineering
8	Mining Engineering
9	Information Technology

II .M.Tech. (Post Graduate Programme) – Four Semesters

- 1 Structural Engg.
- 2 Geotechnical Engg.
- 3 Environmental Engg.
- 4 Transportation Engg.
- 5 Construction Technology And Management
- 6 Marine Structures
- 7 Water Resources Engineering And Management
- 8 Remote Sensing And Geographic Information Systems
- 9 Manufacturing Engg
- 10 Mechatronics Engg
- 11 Thermal Engg
- 12 Design And Precision Engg
- 13 Power & Energy Systems
- 14 VLSI Design
- 15 Communcation Engg
- 16 Chemical Plant Design
- 17 Industrial Pollution Control Engg.
- 18 Industrial Biotechnology
- 19 Computational Mathematics
- 20 Materials Engg
- 21 Process Metallurgy
- 22 Nanotechnology
- 23 Computer Science & Engg
- 24 Computer Science & Engg- Information Security
- 25 Information Technology

III M.Tech. by Research : In all the above M.Tech Programme and in the Department of Mining - M.Tech Research

Programme in Rock Excavation Technology And Management

IV. M.C.A. (Master of Computer Applications) - Six semesters

V. M.B.A. (Master of Business Administration) - Four semesters

VI. M.Sc. in Chemistry – (Four semesters)

VII. M.Sc. in Physics – (Four semesters)

VIII. Ph. D. Programme:

Ph.D. Programmes are offered in 14 Departments in various course and interdisciplinary specializations.

4.2 ACADEMIC CALENDAR

Academic Year	Programmes	Admission Commenced on	Admission closed on
2017-18	B.Tech.	20.7.2017	7.8.2017
2017-18	M.Tech.	26.6.2017	31.7.2017
2017-18	M.Tech. by Research	6.7.2017	13.7.2018
2017-18	MCA	17.7.2018	31.7.2017
2017-18	M.B.A.		
2017-18	M.Sc. (Physics & Chemistry)	27.6.2017	3.7.2018
2017-18 (July Session)	Ph.D.	11.7.2018	15.7.2018

5 ADMISSION POLICIES

5.1 ADMISSION PROCEDURE

B. Tech.:-

The Government of India, Department of MHRD issued a uniform admission procedure for all the NITs in the country. Candidates seeking admission to NIT are required to appear for the JEE (Main) conducted by CBSE New Delhi. Seats are filled up as per the merit list prepared on the basis of JEE (Main) Examination and qualifying examination scores. According to All India rank prepared by CBSE New Delhi by giving 40% weightage to class XII and 60% to the performance in JEE (Main), seats will be allotted in the centralized on-line campus counseling through Central Seat Allocation Board (CSAB). The seat allocation done on the basis of 50% Home State Quota (HS) and 50% Other State Quota (OS). These seats are filled on All India ranking Merit Basis (JEE Main). Seats are reserved for candidates belonging to Scheduled Caste, Scheduled Tribes, and Persons with Disabilities (PWD) & Other Backward Classes as per the guidelines issued by the MHRD. In addition to this, 15% over and above the intake is available under the Direct Admission of Students Abroad (DASA) Scheme, and a few seats are reserved for the candidates nominated by the Ministry of External Affairs.

M.Tech -GATE/Scholarship seats:-

On the basis of GATE Score, admissions for scholarship category (GATE) were made in the centralized on-line common Admission Process through Centralized Counseling for M.Tech. (CCMT) coordinated by NITK, Surathkal.

After CCMT allotment of seats, the vacant and unfilled seats were filled in Spot admission on 6.8.2018 at NITK, Surathkal for the GATE candidates on merit basis.

M. Tech.(Sponsored Seats/Research):-

Selection of candidates for admission were made on GATE score or in some of the programmes, selection will be based on at least 70% weightage to GATE score and the remaining 30% weightage to academic performance in qualifying examination or /and written aptitude test or/ and interview

etc as decided by the DPGC of the concerned Department offering that programme.

M.C.A.:-

Selection of candidates for admissions was made on the basis of NIMCET. Admissions were made through a centralized counseling.

M.B.A:-

Selection was based on CAT score and performance in the qualifying exam and Interview.

M.Sc (Chemistry & Physics):

Selection was based upon the academic performance in the qualifying degree programme and written aptitude test conducted by the institute.

Ph.D. Programme:

Selection of candidates for admission to Ph.D. Programme was based upon the academic performance in the qualifying examinations, written aptitude test and interviews conducted by the respective departments.

All the students are required to stay in the Institute Hostels, unless permitted to reside outside under special circumstances. Students have to strictly adhere to the rules and regulations of the institute.

6 ADMISSIONS FOR 2017-18

6.1 The number of candidates admitted are as follows:

I. B.Tech.

1	Admission through JEE	733
2	G.O.I. Nominee- through Ministry of External Affairs	--
3	DASA Scheme	101

Total 834

II. M.Tech./M.Tech. (By Research)

i) M.Tech Programme

The number of candidates admitted to First Year M.Tech. Programmes are:

1	With GATE qualifications for scholarship seats	465
2	Sponsored candidates	01
3	Admission under DASA	01
4	QIP candidates	04
5	L&T Sponsored Candidates	30
6	NAVY sponsored	01
7	ICCR Sponsored	04

Total 506

M.Tech. (By Research)

1	GATE qualified with Scholarship	16
2	Non Scholarship	33

Total 39

III MCA.:

Selection of candidates for admission to MCA, were made on the basis of rank obtained in NIT MCA Common Entrance Test (NIMCET). Admissions were made through a Centralized counseling conducted by N.I.T. Durgapur. A Total 87 candidates admitted were as follows:-

OP	44
OBC	22
SC	13
ST	07
PWD	01
Total	87

IV M.B.A.:

Selection of candidates were made on the basis of CAT 2017 among candidates applied to NITK, Surathkal, Group Discussion and interview. A total 34 candidates were admitted as follows:-

OP	30
OBC	02
SC	01
ST	01

Total 34

V. M.Sc (Chemistry & Physics)

Selection were made on the basis of academic performance in the qualifying exam and written aptitude test conducted at NITK Surathkal. Following are the admission details:

i. M.Sc (Chemistry)

OP	12
OBC	07
SC	04
ST	02
Spon & PWD	2

Total 27

ii M.Sc (Physics)

OP	13
OBC	07
SC	03
ST	01

Total 24

VI. Ph.D. Programme:

OP	71
OBC	24
SC	12
ST	06
Sponsored (VIS)	03
QIP	08

Total 124

External Registrants (Part Time) 38

A total number of 834 candidates have been admitted to the First Year B.Tech. Programmes according to the guidelines, instructions issued by the MHRD.

The PG & Ph.D. admissions have been made according to the Rules and Regulations issued by the Senate of the Institute.

B.Tech. Students Strength for the year 2017-18.																		
B.Tech I Year	SC			ST			OBC			DASA			GENERAL			TOTAL		
	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To
Civil Engg	11	3	14	5	1	6	22	1	23	6	5	11	39	7	46	83	17	100
Mechanical Engg.	18	0	18	10	1	11	35	1	36	21	3	24	66	3	69	150	8	158
Electrical & Electronics Engg.	13	0	13	5	1	6	24	2	26	8	3	11	38	7	45	88	13	101
Electronics & Communication Engg.	12	2	14	7	0	7	22	2	24	13	4	17	36	9	45	90	17	107
Chemical Engg.	4	2	6	3	1	4	10	2	12	6	3	9	17	6	23	40	14	54
Metallurgical & Materials Engg.	7	0	7	4	0	4	12	0	12	0	0	0	18	3	21	41	3	44
Mining Engg.	5	0	5	4	0	4	10	2	12	0	0	0	20	1	21	39	3	42
Computer Engg.	13	1	14	7	0	7	22	3	25	11	5	16	44	2	46	97	11	108
Information Technology	13	1	14	4	2	6	22	5	27	10	2	12	40	5	45	89	15	104
Total	96	9	105	49	6	55	179	18	197	75	25	100	318	43	361	717	101	818

B.Tech II Year	SC			ST			OBC			DASA			MEA			GENERAL		TOTAL			
	M	F	To	M	F	To	M	F	To	M	F	To	M	F	T	M	F	To	M	F	To
Civil Engg	10	3	13	7	0	7	18	2	20	11	4	15	1	0	1	22	11	33	69	20	89
Mechanical Engg.	20	0	20	11	0	11	33	2	35	20	0	20	2	0	2	52	4	56	138	6	144
Electrical & Electronics Engg.	10	4	14	4	0	4	15	10	25	11	3	14	4	0	4	30	17	47	74	34	108
Electronics & Communication Engg.	11	3	14	7	0	7	24	1	25	14	4	18	0	1	1	35	12	47	91	21	112
Chemical Engg.	5	1	6	3	1	4	9	1	10	7	2	9	0	0	0	7	9	16	31	14	45
Metallurgical & Materials Engg.	5	1	6	1	3	4	8	2	10	0	0	0	0	0	0	10	7	17	24	13	37
Mining Engg.	6	0	6	3	1	4	7	0	7	0	0	0	0	0	0	13	1	14	29	2	31

Computer Engg.	11	3	14	6	1	7	18	6	24	13	3	16	0	2	2	34	12	46	82	27	109
Information Technology	10	3	13	1	3	4	18	8	26	9	3	12	0	0	0	39	7	46	77	24	101
Total	88	18	106	43	9	52	150	32	182	85	19	104	7	3	10	242	80	322	615	161	776

B.Tech III Year	SC			ST		OBC			DASA				MEA			ICCR		GENERAL				TOTAL		
	M	F	To	M	F	To	M	F	To	M	F	To	M	F	T	M	F	To	M	F	To	M	F	To
Civil Engg	14	0	14	5	1	6	21	3	24	8	5	13	0	0	0	0	0	0	29	10	39	77	19	96
Mechanical	19	0	19	9	2	11	36	1	37	22	1	23	1	0	1	0	0	0	70	0	70	157	4	161
Electrical & Electronics Engg.	10	2	12	6	0	6	18	5	23	13	1	14	0	1	1	0	1	1	34	13	47	81	23	104
Electronics & Communication Engg.	11	2	13	2	3	5	19	5	24	13	2	15	1	0	1	0	0	0	34	13	47	80	25	105
Chemical Engg.	4	1	5	4	0	4	11	1	12	7	1	8	0	0	0	0	0	0	9	11	20	35	14	49
Metallurgical & Materials Engg.	3	3	6	3	1	4	11	0	11	0	0	0	0	0	0	0	0	0	9	7	16	26	11	37
Mining Engg.	5	1	6	2	1	3	10	0	10	0	0	0	0	0	0	0	0	0	17	1	18	34	3	37
Computer	10	4	14	5	1	6	20	5	25	12	3	15	1	0	1	0	0	0	38	8	46	86	21	107
Information Technology	9	5	14	3	3	6	13	13	26	9	2	11	0	0	0	0	0	0	33	13	46	67	36	103
Total	85	18	103	39	12	51	159	33	192	84	15	99	3	1	4	0	1	1	273	76	349	643	156	799

B.Tech IV Year	SC			ST		OBC			DASA				MEA			GENERA L		TOTAL			
	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To
Civil Engg	13	1	14	5	2	7	18	5	23	7	6	13	1	0	1	37	9	46	81	23	104
Mechanical	19	0	19	10	0	10	38	0	38	21	1	22	0	0	0	67	3	70	155	4	159
Electrical & Electronics Engg.	10	4	14	5	0	5	20	6	26	9	4	13	1	1	2	33	14	47	78	29	107
Electronics & Communication Engg.	9	5	14	4	3	7	21	4	25	12	5	17	1	0	1	35	12	47	82	29	111
Chemical Engg.	5	2	7	4	0	4	6	6	12	5	4	9	0	0	0	16	6	22	36	18	54
Metallurgical & Materials Engg.	4	3	7	2	2	4	9	2	11	0	0	0	0	0	0	9	7	16	24	14	38
Mining Engg.	6	0	6	5	0	5	10	1	11	1	0	1	0	0	0	16	0	16	38	1	39
Computer Engg.	8	7	15	7	0	7	21	4	25	11	4	15	1	0	1	28	18	46	76	33	109
Information Technology	8	5	13	3	2	5	13	13	26	6	5	11	0	0	0	25	21	46	55	46	101
Total	82	27	109	45	9	54	156	41	197	72	29	101	4	1	5	266	90	356	625	197	822

M.Tech. Students Strength for the year 2017-18																											
M.Tech (I Year)	SC			ST			OBC			QIP			DASA			ICCR			Sponsored			GENERAL			TOTAL		
	M	F	T o	M	F	T o	M	F	To	M	F	T o	M	F	T	M	F	T	M	F	To	M	F	To	M	F	To
Structural Engg.	2	2	4	2	0	2	3	4	7	1	0	1	0	0	0	1	0	1	0	0	0	9	4	13	18	10	28
Geotechnical Engg.	0	2	2	0	1	1	2	2	4	0	0	0	0	0	0	0	0	0	0	0	4	3	7	6	8	14	
Environmenta l Engg.	2	2	4	0	0	0	3	3	6	0	0	0	0	0	0	0	0	0	0	0	6	7	13	11	12	23	
Transportatio n Systems Engg.	3	0	3	2	0	2	4	2	6	1	0	1	0	0	0	0	0	0	0	0	8	5	13	18	7	25	
Construction Technology & Mgt.	4	0	4	1	0	1	6	1	7	0	0	0	0	0	0	2	0	2	27	2	29	11	2	13	51	5	56
Marine Structures	3	0	3	2	0	2	6	1	7	0	0	0	0	0	0	0	0	0	0	0	7	4	11	18	5	23	
Water Resources Engg. & Management	2	0	2	0	0	0	3	1	4	0	0	0	0	0	0	0	0	0	0	0	2	4	6	7	5	12	
Remote Sensing & GIS	1	1	2	0	0	0	4	3	7	0	0	0	0	0	0	0	0	0	0	0	6	6	12	11	10	21	
Thermal Engg.	1	1	2	1	0	1	4	0	4	0	1	1	0	0	0	0	0	0	0	0	6	0	6	12	2	14	
Mechatronics Engg.	1	1	2	2	0	2	5	0	5	0	0	0	0	0	0	1	0	1	0	0	8	1	9	17	2	19	
Manufacturin g Engg.	2	0	2	1	0	1	4	0	4	0	0	0	0	0	0	0	0	0	0	0	7	0	7	14	0	14	
Design and Precision Engg.	2	0	2	1	0	1	4	0	4	0	0	0	0	0	0	0	0	0	0	0	5	1	6	12	1	13	

Power & Energy Systems	2	0	2	1	0	1	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	11	0	11	19	0	19
VLSI Design	3	0	3	2	0	2	5	2	7	0	0	0	0	1	1	0	0	0	0	0	0	9	2	11	19	5	24
Communication Engg.	2	0	2	1	0	1	5	1	6	0	0	0	0	0	0	0	0	0	0	0	0	8	4	12	16	5	21
Chemical Plant Design	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	2	4	4	2	6
Industrial Pollution Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	5	3	2	5
Industrial Biotechnology	1	0	1	0	0	0	1	2	3	0	0	0	0	0	0	0	0	0	0	0	0	6	5	11	8	7	15
Process Metallurgy	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	4	0	4
Materials	4	0	4	1	0	1	6	0	6	1	0	1	0	0	0	0	0	0	0	0	0	12	1	13	24	1	25
Nanotechnology	1	1	2	1	0	1	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	4	3	7
Computer Science & Engg	4	0	4	1	0	1	5	1	6	0	0	0	0	0	0	0	0	0	1	0	1	7	6	13	18	7	25
Computer Science & Engg. - Information Security	2	1	3	1	1	2	5	2	7	0	0	0	0	0	0	0	0	0	0	0	0	9	2	11	17	6	23
Computational Mathematics	0	1	1	0	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	8	4	12	11	5	16
Information Technology	2	1	3	2	0	2	3	4	7	0	0	0	0	0	0	0	0	0	0	0	0	9	3	12	16	8	24
TOTAL	44	13	57	22	2	24	89	31	120	3	1	4	0	1	1	4	0	4	28	2	30	168	68	236	358	118	476

M.Tech. Students Strength for the year 2017-18																								
M.Tech (II Year)	SC			ST			OBC			QIP			DASA			Sponsored			GENERAL			TOTAL		
	M	F	To	M	F	To	M	F	To	M	F	To	M	F	T	M	F	To	M	F	To	M	F	To
Structural Engg.	2	0	2	2	0	2	3	3	6	1	0	1	0	0	0	0	0	0	9	3	12	17	6	23
Geotechnical Engg.	1	1	2	1	0	1	1	5	6	0	0	0	0	0	0	0	0	0	2	3	5	5	9	14
Environmental Engg.	3	1	4	1	1	2	3	2	5	0	0	0	0	0	0	0	0	0	10	3	13	17	7	24
Transportation Systems Engg.	3	0	3	0	0	0	3	2	5	0	1	1	0	0	0	1	0	1	5	5	10	12	8	20
Construction Technology & Mgt.	4	0	4	0	0	0	7	0	7	0	1	1	0	0	0	25	3	28	6	5	11	42	9	51
Marine Structures	1	1	2	0	0	0	1	0	11	0	0	0	0	0	0	0	0	0	6	2	8	18	3	21
Water Resources Engg. & Management	0	0	0	0	1	1	1	3	4	0	0	0	0	0	0	0	0	0	2	3	5	3	7	10
Remote Sensing & GIS	2	0	2	1	0	1	2	4	6	0	0	0	0	0	0	0	0	0	7	1	8	12	5	17
Thermal Engg.	1	0	1	1	0	1	6	0	6	0	0	0	0	0	0	0	0	0	2	1	3	10	1	11
Mechatronics Engg.	3	1	4	0	0	0	4	1	5	0	0	0	0	0	0	1	0	1	11	3	14	19	5	24
Manufacturing Engg.	2	0	2	1	0	1	4	0	4	1	1	2	0	0	0	0	0	0	7	0	7	15	1	16
Design and Precision Engg.	2	0	2	1	0	1	4	0	4	1	0	1	0	0	0	0	0	0	7	0	7	15	0	15

Power & Energy Systems	4	0	4	0	1	1	4	3	7	0	0	0	0	0	0	0	0	0	8	1	9	16	5	21
VLSI Design	2	2	4	2	0	2	8	2	10	0	0	0	0	0	0	0	0	0	7	2	9	19	6	25
Communication Engg.	3	1	4	0	0	0	6	1	7	0	0	0	1	0	1	1	0	1	5	4	9	16	6	22
Chemical Plant Design	1	0	1	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	1	1	2	4	1	5
Industrial Pollution Control	2	0	2	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	3	3	6	6	3	9
Industrial Biotechnology	0	2	2	1	1	2	1	7	8	0	0	0	0	0	0	0	0	0	5	6	11	7	16	23
Process Metallurgy	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	4	5	0	5
Materials Engg.	4	0	4	0	0	0	7	0	7	0	0	0	0	0	0	0	0	0	9	1	10	20	1	21
Nanotechnology	0	0	0	0	0	0	2	2	4	0	0	0	0	0	0	0	0	0	1	0	1	3	2	5
Computer Science & Engg	3	0	3	1	0	1	4	1	5	0	0	0	0	0	0	1	0	1	6	5	11	15	6	21
Computer Science & Engg - Information Security	3	1	4	1	1	2	7	1	8	0	0	0	0	0	0	0	0	0	3	5	8	14	8	22
Computational Mathamatics	1	0	1	1	0	1	2	2	4	0	0	0	0	0	0	0	1	1	4	4	8	8	7	15
Information Technology	3	0	3	1	0	1	6	0	6	0	0	0	0	0	0	0	0	0	3	2	5	13	2	15
TOTAL	51	10	61	16	5	21	98	39	137	3	3	6	1	0	1	29	4	33	133	63	196	331	124	455

M.Tech Research Students Strength for the year 2017 - 18	SC			ST			OBC			GENERAL			TOTAL		
	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To
Marine Structure	0	0	0	0	0	0	0	1	1	0	1	1	0	2	2
Remote Sensing & GIS	0	0	0	0	0	0	0	0	0	2	2	4	2	2	4
Water Resources Engg. & Management	0	0	0	0	0	0	0	0	0	1	3	4	1	3	4
Structural Engg.	0	0	0	0	0	0	0	0	0	1	2	3	1	2	3
Geo-Technical Engg.	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1
Environmental Engg.	0	0	0	0	0	0	0	0	0	0	3	3	0	3	3
Transportation Engg.	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1
Thermal Engg.	0	0	0	0	0	0	2	0	2	6	0	6	8	0	8
Mechatronics Engg.	1	0	1	0	0	0	1	0	1	1	2	3	3	2	5
Manufacturing Engg.	1	0	1	0	0	0	0	0	0	5	0	5	6	0	6
Design and Precision Engg.	0	0	0	0	0	0	0	0	0	4	1	5	4	1	5
Power & Energy Systems	0	0	0	0	0	0	0	0	0	0	2	2	0	2	2
VLSI Design	0	0	0	0	0	0	0	0	0	4	2	6	4	2	6
Materials Engg.	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1
Nanotechnology	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1
Industrial Pollution Control	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1
Chemical Plant Design	0	0	0	0	0	0	0	0	0	2	0	2	2	0	2
Computer Science & Engg	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1
Computer Science & Engg. - Information Security	0	0	0	0	0	0	0	1	1	0	1	1	0	2	2
Rock Excavation Technology & Mgt	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1
TOTAL	3	0	3	0	0	0	3	2	5	30	21	51	36	23	59

MCA Students Strength for the year 2017-18															
Year	SC			ST			OBC			GENERAL			TOTAL		
	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To
I YEAR	10	3	13	6	1	7	15	5	20	30	14	44	61	23	84
II Year	12	2	14	5	2	7	21	4	25	31	16	47	69	24	93
III YEAR	8	3	11	7	0	7	21	3	24	28	17	45	64	23	87
TOTAL	30	8	38	18	3	21	57	12	69	88	47	135	193	70	263

MBA Students Strength for the year 2017-18															
Year	SC			ST			OBC			GENERAL			TOTAL		
	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To
I YEAR	2	0	2	0	1	1	2	3	5	16	9	25	20	13	33
II YEAR	2	5	7	1	0	1	6	1	7	21	9	30	30	15	45
TOTAL	4	5	9	1	1	2	8	4	12	37	18	55	50	28	78

M.Sc(Chemistry) Students Strength for the year 2017-18															
YEAR	SC			ST			OBC			GENERAL			TOTAL		
	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To
I YEAR	4	0	4	1	0	1	2	5	7	5	9	14	12	14	26
II YEAR	2	2	4	2	0	2	2	5	7	4	8	12	10	15	25
TOTAL	6	2	8	3	0	3	4	10	14	9	17	26	10	15	25

M.Sc(Physics) Students Strength for the year 2017-18															
YEAR	SC			ST			OBC			GENERAL			TOTAL		
	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To
I YEAR	2	1	3	0	1	1	0	7	7	7	6	13	9	15	24
II YEAR	4	0	4	0	1	1	1	6	7	4	9	13	9	16	25
TOTAL	6	1	7	0	2	2	1	13	14	11	15	26	18	31	49

Ph.D. Students Strength for the year 2017-18																											
Branch	SC			ST			OBC			QIP			TEQIP			VTU Scheme			Sponsored			GENERAL			TOTAL		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
Civil	8	2	10	2	1	3	7	9	16	0	1	1	0	0	0	0	0	0	3	1	4	27	24	51	47	38	85
App. Mechanics	5	1	6	1	0	1	10	3	13	0	0	0	0	0	0	0	0	0	7	0	7	28	11	39	51	15	66
Mechanical	16	0	16	8	0	8	34	2	36	6	0	6	1	0	1	0	0	0	5	0	5	76	6	82	146	8	154
E&E	7	0	7	1	0	1	10	4	14	1	1	2	0	0	0	0	0	0	1	1	2	35	5	40	55	11	66
E&C	1	0	1	3	0	3	7	0	7	4	0	4	1	0	1	1	1	2	1	0	1	31	11	42	49	12	61
Chemical	3	2	5	1	1	2	2	6	8	0	0	0	0	0	0	0	0	0	0	0	0	10	18	28	16	27	43
Metallurgy	5	0	5	2	0	2	10	2	12	1	0	1	0	0	0	0	0	0	1	0	1	21	2	23	40	4	44
Mining	4	0	4	0	0	0	5	0	5	0	0	0	0	0	0	0	0	0	3	0	3	12	1	13	24	1	25
Computer	4	1	5	1	0	1	3	1	4	2	1	3	0	0	0	7	2	9	2	2	4	13	6	19	32	13	45
Information Technology	1	0	1	1	0	1	2	1	3	0	0	0	0	0	0	2	2	4	0	0	0	10	0	10	16	3	19
Physics	1	1	2	0	0	0	9	1	10	0	0	0	0	0	0	0	0	0	0	0	0	20	14	34	30	16	46
Chemistry	2	1	3	1	0	1	6	5	11	0	0	0	0	0	0	0	0	0	2	3	5	11	7	18	22	16	38
MACS	2	1	3	1	0	1	2	3	5	0	0	0	0	0	0	1	0	1	3	0	3	12	12	24	21	16	37
School of Mgt.	4	3	7	0	0	0	8	2	10	0	0	0	0	0	0	0	0	0	2	3	5	11	13	24	25	21	46
Total	63	12	75	22	2	24	115	39	154	14	3	17	2	0	2	11	5	16	30	10	40	317	130	447	574	201	775

6.3 ADMISSION STATISTICS Undergraduate Programmes – B. Tech.

Particulars of sanctioned intake and admissions made during 2017-18

Particulars of sanctioned intake and admissions made during 2021-22													
Admission Statistics													
Undergraduate Programmes-B.Tech.													
Sl. No.	Courses offered	Sanctioned intake				Admissions made to Undergraduate Programmes					G.O.I Nominees	DASA (Direct Admission of Students Abroad)	Total Admissions
		Normal Intake	G.O.I Nominees	DASA (Direct Admission of Students Abroad)	Total	Normal Intake							
						SC	ST	OBC	PWD	OP			
1	Civil engineering	92	3	16	111	14	07	22	1 OBC 3 OP	44	--	11	102
2	Mechanical Engineering	139	3	22	164	20	10	38	2 OP 1 ST	67	--	24	162
3	Electrical & Electronics Engineering	93	4	14	111	14	06	26	2 OP	43	--	12	103
4	Electronics & Communication Engineering	93	3	16	112	14	07	24	1 OBC	47	--	17	110
5	Chemical Engineering	46	2	8	56	7	04	12	--	23	--	09	55
6	Metallurgical & Materials Engineering	46	0	3	49	7	04	12	--	22	--	--	45
7	Mining Engineering	46	0	3	49	6	04	12	--	22	--	--	44
8	Computer Engineering	92	2	16	110	14	07	23	2 OBC 2 OP	44	--	16	108
9	Information Technology	93	0	13	106	14	06	26	1 OBC 2 OP	44	--	12	105
Total		740	17	111	868	110	55	195	17	356		101	834

ADMISSION STATISTICS – B.TECH. 2017-18

Details of Male & Female admissions – coursewise and categorywise

Sl. No.	Programme	OP		OBC		SC		ST		GOI Nominee		DASA (Direct Admission of Students Abroad)		Total		
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	Total
1	Civil Engg	37+3PH	7	21+1PH	1	11	3	6	1	--	--	6	5	85	17	102
2	Mechanical Engg	64+2PH	3	37	1	20	0	9+1PH	1	--	--	21	3	154	8	162
3	Electrical & Electronics Engg	38	5+2PH	24	2	14	--	5	1	--	--	9	3	90	13	103
4	Electronics & Communications	38	9	22+1PH	2	12	2	7	0	--	--	13	4	93	17	110
5	Chemical Engg	17	6	10	2	5	2	3	1	--	--	6	3	41	14	55
6	Metallurgical & Materials Engg	19	3	12	--	7	--	4	--	--	--	--	--	42	3	45
7	Mining Engg	21	1	10	2	6	--	4	--	--	--	--	--	41	3	44
8	Computer Engg	42+2PH	2	20+2PH	3	13	1	7	--	--	--	11	5	97	11	108
9	Information Technology	39+2PH	5	21+1PH	5	13	1	4	2	--	--	10	2	90	15	105
	Total	315+9PH	41+2PH	177+5PH	18	101	9	49+1PH	6	--	--	76	25	733	101	834

ADMISSION STATISTICS - POST GRADUATE PROGRAMMES
M. Tech. Programme - Particulars of Intake and Admissions during 2017-18

Sl. No.	Name of the Programmes	Intake	Admitted					Out of the total admissions-No. of candidates admitted under category														
			GATE (Scholarship seats)	Other	Total			SC			ST			OB(OC			PWD		
					M	F	TO	M	F	TO	M	F	TO	M	F	TO	M	F	TO	M	F	TO
1	Structural Engg.	27+1*	25	1 Spon 1 ICCR 1 QIP (P)	18	10	28	2	2	4	2	0	2	3	4	7	8+1 ICCR+ 1 QIP (P)+ 1 Spon	4	15	-	-	-
2	Geotechnical Engg.	15+1**+ 1*	14	--	6	8	14	0	2	2	0	1	1	2	2	4	4	3	7	-	-	-
3	Environmental Engg.	27+1*	25	--	12	13	25	2	2	4	1	0	1	2	4	6	6	7	13	1 (OBC)	0	1
4	Transportation Engg.	27+1*	25	1 QIP (P)	19	7	26	3	--	3	2	0	2	5	2	7	8+1 QIP (P)	5	14	--	-	-
5	Construction Technology & Management	27+1**+ 30 (L&T)	25	2 ICCR 30 L&T	52	5	57	4	0	4	1	0	1	6	1	7	11+2 ICCR+ 28L&T	2+ 2 L&T	45	--	--	--
6	Marine Structures	27+1**+ 1*	24	--	19	5	24	3	0	3	2	0	2	6	1	7	8	4	12	--	--	--
7	Water Resources Engineering & Management	15+1*	13	-	7	6	13	2	0	2	--	--	--	3	1	4	2	5	7	--	--	--

8	Remote Sensing & Geographic Information Systems	27+1**+1*	23	--	13	10	23	2	1	3	--	--	--	4	3	7	7	6	13	--	--	--
9	Design and Precision Engg.	15+1*	14	--	13	1	14	2	0	2	1	0	1	3	0	3	7	1	8	--	--	--
10	Manufacturing Engg.	15+1*	14	--	14	0	14	2	0	2	1	0	1	4	0	4	7	0	7	--	--	--
11	Mechatronics Engg.	27+1*	21	1 ICCR	20	2	22	2	1	3	2	0	2	5	0	5	10+1 ICCR	1	12	--	--	--
12	Thermal Engineering	15+1**+1*	14	1 QIP	13	2	15	1	1+1 QIP	3	1	0	1	4	0	4	7	0	7	--	--	--
13	Power & Energy Systems	27+1*	25	--	25	0	25	4	0	4	2	0	2	6	0	6	13	0	13	--	--	--
14	VLSI Design	27+1**+1*	25	1 DASA (F)	20	6	26	3	0	3	2	0	2	5	2	7	10	3+1D ASA	14	--	--	--
15	Communication Engg.	27+1**+1*	23	--	18	5	23	3	0	3	2	0	2	5	1	6	7	4	11	1(OC)	0	1
16	Chemical Plant Design	15+1*	6	-	4	2	6	--	--	--	--	--	--	2	0	2	2	2	4	--	--	--
17	Industrial Pollution Control Engg.	27+1*	5	--	3	2	5	--	--	--	--	--	--	--	--	--	3	2	5	--	--	--
18	Industrial Biotechnology	27+1*	16	--	9	7	16	1	0	1	--	-	-	1	2	3	7	5	12	--	--	--
19	Materials Engg.	27+1*	24	1 QIP (P)	24	1	25	4	0	4	1	0	1	6	0	6	12+1(QIP(P)	1	14	--	--	--
20	Process Metallurgy	15+1**+1*	4	--	4	0	4	--	--	--	--	--	--	1	0	1	3	0	3	--	--	--

21	Nanotechnology	15+1*	8	--	5	3	8	1	1	2	1	0	1	0	2	2	3	0	3	--	--	--
22	Computer Science & Engg.	27+1**+1*	25	1 NAVY	19	7	26	4	0	4	1	0	1	5	1	6	7+1 NAVY SPON	6	14	1(OC)	0	1
23	Computer Science & Engg. – Information Security	27+1*	25	--	18	7	25	3	1	4	1	1	2	5	2	7	9	3	12	--	--	--
24	Information Technology	27+1*	24	--	16	8	24	3	1	4	2	0	2	3	4	7	8	3	11	--	--	--
25	Computational Mathematics	27+1*	18	--	13	5	18	0	1	1	--	--	--	4	0	4	9	4	13			
Total			466	41 (1Spon 4 ICCR 1 NAVY 1 DASA 4 QIP 30 L&T	384	122	506	51	13+ 1 QIP	65	25	2	27	90	32	122	178+4 ICCR+ 3 QIP+2 8 L&T + 1 NAVY Spon+ 1 spon	71 +2 L&T+ 1 DASA	289	3	--	3

M.TECH. PROGRAMME (BY RESEARCH) 2017-18**Intake**

OC	OCPWD	OBC	OBCPWD	SC	SCPWD	ST	STPWD	Total
24	01	13	01	07	01	3	0	50

Admission made for the year 2017-18

Sl. No.	Name of the Programme	No. of candidates admitted		Total number of candidates admitted		
		Gate Scholarship Seat	Non-Scholarship Seat	Male	Female	Total
DEPARTMENT OF CIVIL ENGINEERING						
1	Structural Engg.	01(OC)	--	--	01	01
2	Transportation Engg.	01(OC)	--	01	--	01
3	Environmental Engg.	--	01 (OC)	--	01	01
DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING						
1	Nanotechnology	--	01 (OC)	--	01	01
2	Materials Engg.	--	01 (OC)	01	--	01
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING						
1	VLSI Design	02(OC)	--	--	02	02
DEPARTMENT OF MECHANICAL ENGINEERING						
1	Design and Precision Engg.	03(OC)	01(OC)	03	01	04
2	Mechatronics Engineering	01(OC)	03 (1 SC, 1 OBC, 1 OC)	03	01	04
3	Manufacturing Engineering	01(OC)	02(OC)	03	--	03
4	Thermal Engg.	4 OC	01 (OC), 01 (oc), 1 (OBC IR)	06	--	06
DEPARTMENT OF MINING ENGINEERING						
1	Rock Excavation Technology and Management	--	01 (OC)	01	--	01
DEPARTMENT OF APPLIED MECHANICS AND HYDRAULICS						
1	Remote Sensing & Geographic's Information Systems	--	2 (OC), 1 OC (IR)	02	01	03
2	Marine Structures	--	01 (OC), 1 OBC (IR)	--	02	02
3	Water Resources Engineering & Mgt.	--	03 (OC)	01	02	03
DEPARTMENT OF CHEMICAL ENGINEERING						
1	Chemical Plant Design	--	2 (OC)	02	--	02
2	Industrial Pollution Control	--	1 (OBC)	--	01	01
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING						
1	Power and Energy Systems	01 (OC)	--	--	01	01
DEPARTMENT OF COPMUTER SCIENCE AND ENGINEERING						
	Computer Science and Engg. (Information Security)	1 (OC)	--	1	--	1
1.	Computer Science and Engg.	1 (OC)	--	1	--	1

	Total	16 (OC), 1 OBC (IR)	23 (17OC), 2 OBC, 2OBC IR, 1 SC, 1 OC (IR)	25	14	39
--	--------------	--------------------------------	---	-----------	-----------	-----------

IR – Internal Registrants

M.C.A., M.B.A. AND M.Sc. PROGRAMMES

Particulars of Admissions during 2017-18

			Total			SC		ST		OBC		Gen		PW		Sponsored	
Sl. No.	Programme	Intake	M	F	Total	M	F	M	F	M	F	M	F	M	F	M	F
	Master of Computer Applications (MCA)	92+1**	64	24	87	10	3	6	1	16	6	30	14	1	0	--	-
2	Master of Business Administration (MBA)	64+5*+1**	20	14	34	1	0	0	1	0	2	19	11	--	--	--	--
3	M.Sc. (Chemistry)	27+1**	12	15	27	4	--	1	1	2	5	4	8	1(O C)	0	0	1
4	M.Sc. (Physics)	27+1**	09	15	24	2	1	0	1	0	7	7	6				
	Total	210+5*+4** =219	104	68	172	17	4	7	4	18	20	60	39	2	0	0	1

* Seats reserved for DASA candidates

** Additional seats for the international students under ICCR Scheme

PWD – Persons with Disabilities

Ph.D. PROGRAMME

Particulars of Intake & Admissions made during 2017-18

Intake for the year 2017-18

OC	OCPWD	OB	OBPWD	SC	SCPWD	ST	STPWD	Total
74	02	39	01	21	01	11	01	150

Details of Admissions made during 2017-18

Sl No.	Name of the Department	Admitted Full time Programme				Admitted Under External Registrants (Part Time)		Out of the total Full time scholars, Number of Candidates belonging to the category of									
		Fellows hip Holder		Other category- Non Fellowship+ QIP+ Sponsored and Admissions under Visvesvaraya Ph.D Scheme				OC		OBC		SC		ST		OTHERS (Nonfellowship/ QI.P/Sponsored and Admissions under Visvesvaraya Ph.D. Scheme).	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
1	Civil Engg	7	6	--	--	1 OC 1 OC *	1 OC	5	3	1	2	1	0	0	1	--	--
2	Applied Mech. & Hydraulics	5	5	I OC (QIP) R	--	2 OC 1 OC IR 1 OBC IR	--	3	3	1	2	1	0	0	0	I OC (QIP) R	--
3	Mechanical Engg	21	1	2 OC (QIP) R	--	2 OC 3 OC IR 4 OBC * 4 OC *	--	9	1	6	0	4	0	2	0	2 OC (QIP) R	
4	Electrical & Electronics Engg	10	2	--	1 OC (QIP) R	1 OC IR 1 OBC * 1 OC *	1 OBC	6	1	2	1	1	0	1	0	--	1 OC QIP (R)
5	Electronics & Communication Engg	6	2	2 OC (QIP) R 1 VIS (OC)	1 VIS (OC)	--	--	5	2	1	0	0	0	0	0	2 OC (QIP) R 1 VIS (OC)	1 VIS (OC)

6	Chemical Engg	2	6	--	--	--	--	2	3	0	3	--	--	--	--	--	--
7	Metallurgical & Materials Engg	6	1	1 OC (QIP) R	--	1 OC	--	4	0	1	1	1	0	0	0	1 OC (QIP) R	
8	Mining Engg	4	0	--	--	1 OC 1 OBC	--	3	0	1	0	0	0	0	0	--	--
9	Computer Science & Engg	3	3	1 QIP	1 VIS (ST)	1 OC 1 OC IR 1 OBC *	1 OC ER (SPON)	3	1	0	1	0	1	0	0	1 QIP	1 VIS (ST)
10	Information Technology	2	1	--	--	1 OC *	--	1	0	0	1	1	0	0	0	--	--
11	Physics	2	0	--	--	--	--	2	0	0	0	0	0	0	0	--	--
12	Chemistry	0	5	--	--	1 OC 1 OC IR	--	0	3	0	0	0	1	0	1	--	--
13	Mathematical & Computational Sciences	4	2	--	--	1 SC	1 OC *	3	2	0	0	0	0	1	--	--	--
14	School of Management	3	4	--	--	1 ST	1 OC	2	4	0	0	1	0	0	0	--	--
	Total	75	38	7 OC QIP 1 OC VIS	1QIP(R) 2 VIS	20 (9 OC, 7 OC (IR), 1 OBC (IR), 1 OBC, 1 SC, 1 ST Dec. ses. (7 OC, 6 OBC)	4 (2 OC 1 OBC 1 OC ER (SPON) Dec. sess. (1 OC)	48	23	13	11	10	2	4	2	7 OC QIP 1 OC VIS	1QIP(R) 2 VIS

* Admissions made during January session 2017, SPON= Sponsored. QIP = Admitted Under AICTE QIP Scheme, VIS= Under vishweshwarya scheme

Total Student's Strength**Programme****Strength**

1. Undergraduate	3215
2. Post Graduate (Including MCA/M.Tech./M.Tech (Research)/MBA/M.Sc.)	1405
3. Ph.D. Programme	775
Total	5395

7 EVALUATION AND EXAMINATION

7.1 EDUCATION SYSTEM

The normal duration of programmes leading to B.Tech degree in Engineering is eight semesters. For full time M.Tech. Programmes, the duration of study is a minimum of four semesters and a maximum of four years. For Internal/external registrants, the duration shall be a minimum of five semesters and maximum of five years. For M.Tech. of study shall be a minimum of four by Research program for full-time students, the duration semesters and a maximum of four years. For Internal/External Registrants, the duration will be a minimum of five semesters and a maximum of five years. For Master of Science, programme the duration of study shall be a minimum of four semesters and a maximum of four years. For Master of Computer Application (MCA) the duration of study shall be a minimum of six semesters and a maximum of six years. For Master of Business Administration (MBA), the duration of study is a minimum of four semesters and a maximum of four years. For Doctoral Programmes (Ph.D.) the duration of study is a minimum of two years and maximum of seven years for all categories of research scholars.

Each academic year is divided into two semesters. A semester that is typically from August to Mid- December is called the ODD SEMESTER, and the one that is from January to Mid-May is called EVEN SEMESTER.

The medium of instruction, examination and project work is English only.

7.2 EXAMINATION & EVALUATION PROCEDURE

The examination and evaluation work of all the B.Tech./M.Tech./MCA/MSc/MBA students and Ph.D./M.Tech by Research candidates were carried out by the respective Faculty Members in their concerned Departments itself as per the regulations approved by the Senate of the Institute. The Grades obtained by each student with details of attendance in each course were submitted to the Examination/Evaluation Section for processing their Grade Cards as per the regulations of the Institute. The results were declared and published on the website of the Institute in time and Grade Cards were issued to all eligible students.

8 EXAMINATION RESULTS FOR 2017

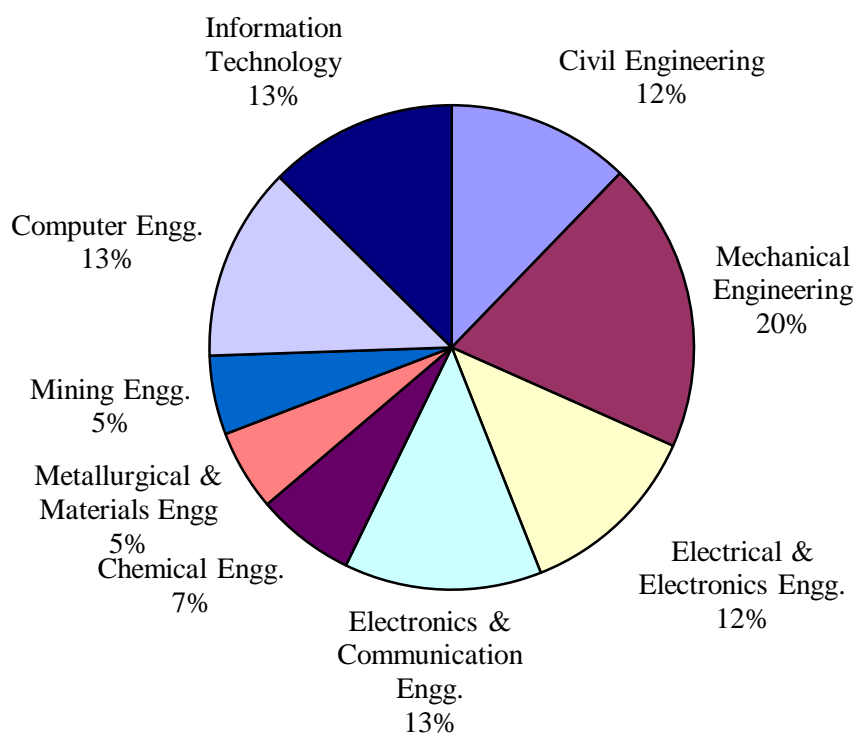
UNDER GRADUATE

Sl.No.	Branch	Total No. Appeared	No. of students passed in				Total Pass	Percentage of passes	No. of SC/ST candidates passed
			CGPA above 7 & below 10	CGPA above 6 & below 7	CGPA above 5 & below 6	CGPA below 5			
1.	Civil Engineering	99	73	16	4+3*	2*	98	98.99	21
2.	Mechanical Engineering	165	116	25	8+1*	1+10*	161	97.58	28+8*
3.	Electrical And Electronics Engineering	105	79	20	6	0	105	100.00	20
4.	Electronics And Communication Engineering	112	85	14	7+2*	3+1*	112	100.00	21+3*
5.	Chemical Engineering	50	28	13	6	1+1*	49	98.00	9+1*
6.	Metallurgical And Materials Engineering	42	26	9	5+1*	0	41	97.62	10+1*
7.	Mining Engineering	42	31	6	3	1*	41	97.62	10+1*
8.	Computer Engineering	111	83	16	6+1*	3*	109	98.20	18+3*
9.	Information Technology	107	73	21+2*	6	2+3*	107	100.00	19+3*
		833					823	98.80	
	*- Repeaters								

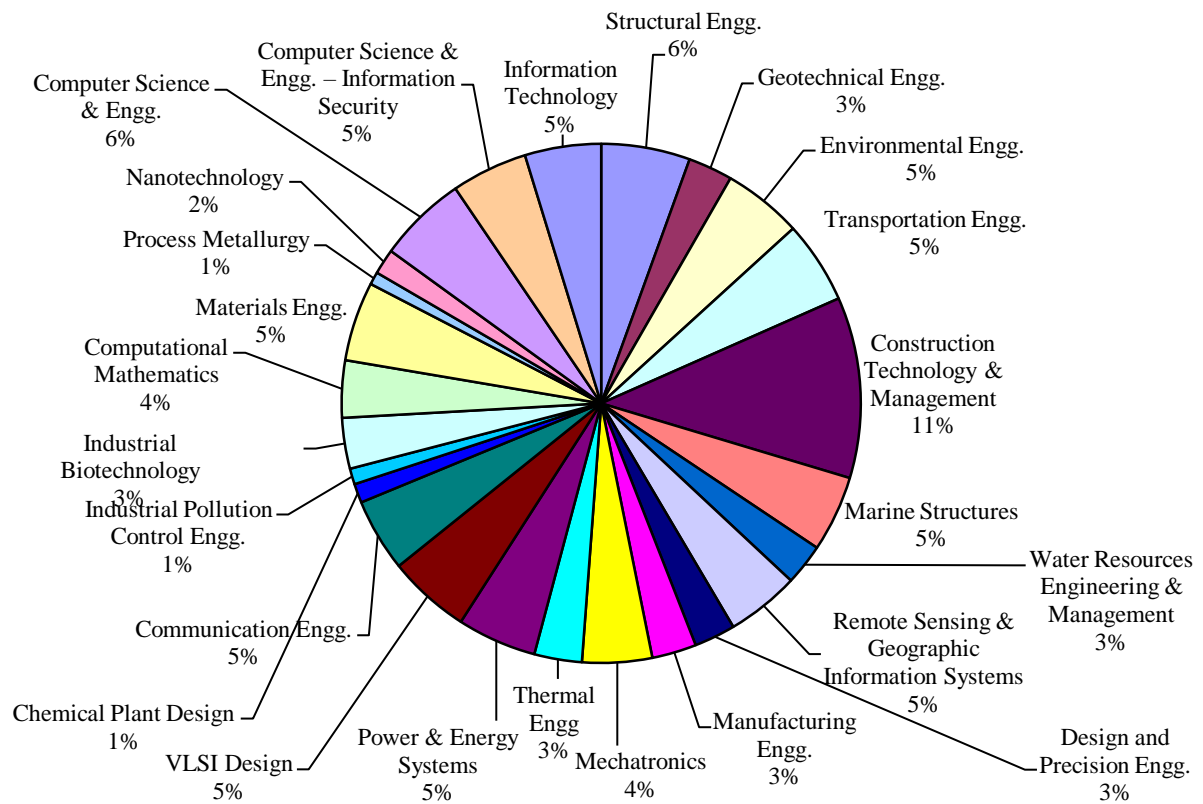
POSTGRADUATE

Sl.No.	Branch	Total No. Appeared	No. of students passed in			Total Pass	Percentage of passes	No. of SC/ST candidates passed
			CGPA above 7 & below 10	CGPA above 6 & below 7	CGPA above 5.50 & below 6			
1.	Construction Technology & Management	52	50	1	0	51	98.08	5
2.	Structural Engineering	24	24	0	0	24	100.00	6
3.	Geotechnical Engineering	14	14	0	0	14	100.00	2
4.	Environmental Engineering	23	21	2	0	23	100.00	4
5.	Transportation Engineering	25	24	1	0	25	100.00	6
6.	Marine Structures	21	20	1	0	21	100.00	3
7.	Remote Sensing & Geographic Information System	13	13	0	0	13	100.00	1
8.	Water Resources Engineering & Management	11	11	0	0	11	100.00	1
9.	Design and Precision Engineering	12	9	1	0	10	83.33	2
10.	Manufacturing Engineering	11	10	0	0	10	90.91	3
11.	Mechatronics Engineering	26	19	7	0	26	100.00	6
12.	Thermal Engineering	13	9	1	3	13	100.00	3
13.	Power & Energy Systems	18	15	2	0	17	94.44	2
14.	VLSI Design	25	18	5	0	23	92.00	5
15.	Communication Engineering	24	16	8	0	24	100.00	4
16.	Chemical Plant Design	6	5	1	0	6	100.00	0
17.	Industrial Biotechnology	22	17	4	0	21	95.45	2
18.	Industrial Pollution Control	11	7	3	1	11	100.00	4
19.	Process Metallurgy	8	6	2	0	8	100.00	2
20.	Materials Engineering	20	16	4	0	20	100.00	4
21.	Nanotechnology	7	6+1*	0	0	7	100.00	1+1*

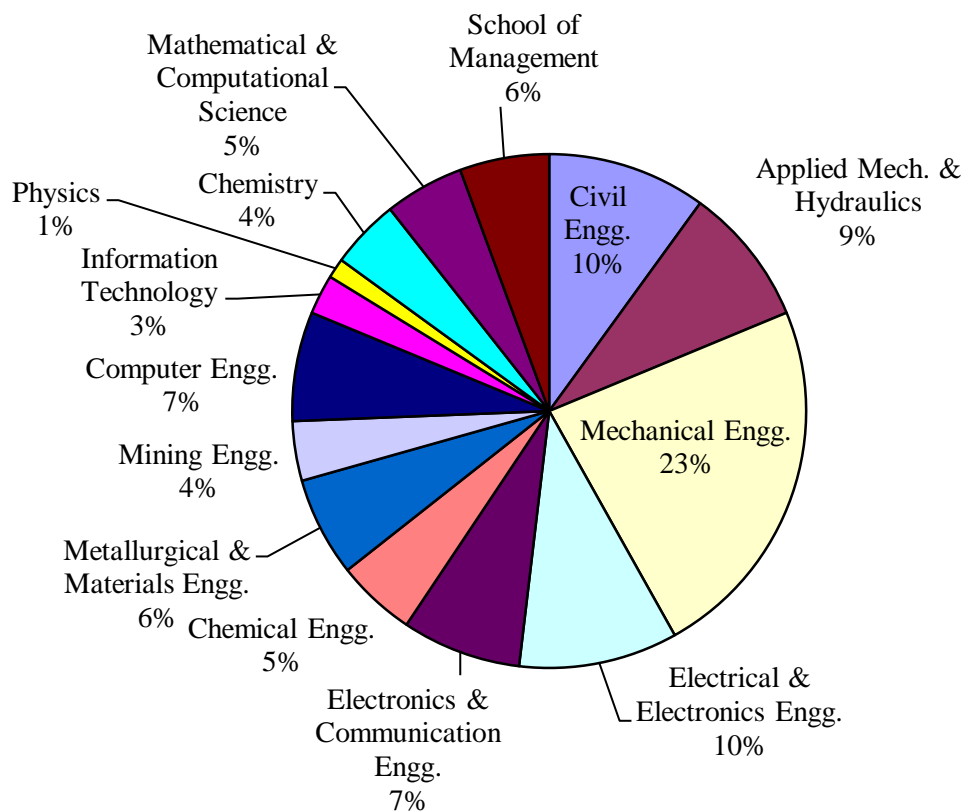
22.	Computational Mathematics	15	10	3	0	13	86.67	2
23.	Computer Science and Engineering	21	19	2	0	21	100.0 0	4
24.	Computer Science and Engineering - Information Security	21	18	2	0	20	95.24	5
25.	Information Technology	16	11	5	0	16	100.0 0	2
26.	Master of Computer Applications	87	67	15	5	87	100.0 0	17
27.	Master of Business Administration	34	30	4	0	34	100.0 0	4
28.	Master of Science (Chemistry)	23	20	3	0	23	100.0 0	3
29.	Master of Science (Physics)	24	18	3	3	24	100.0 0	6
	* - Repeaters	627				616	98.25	109+1*



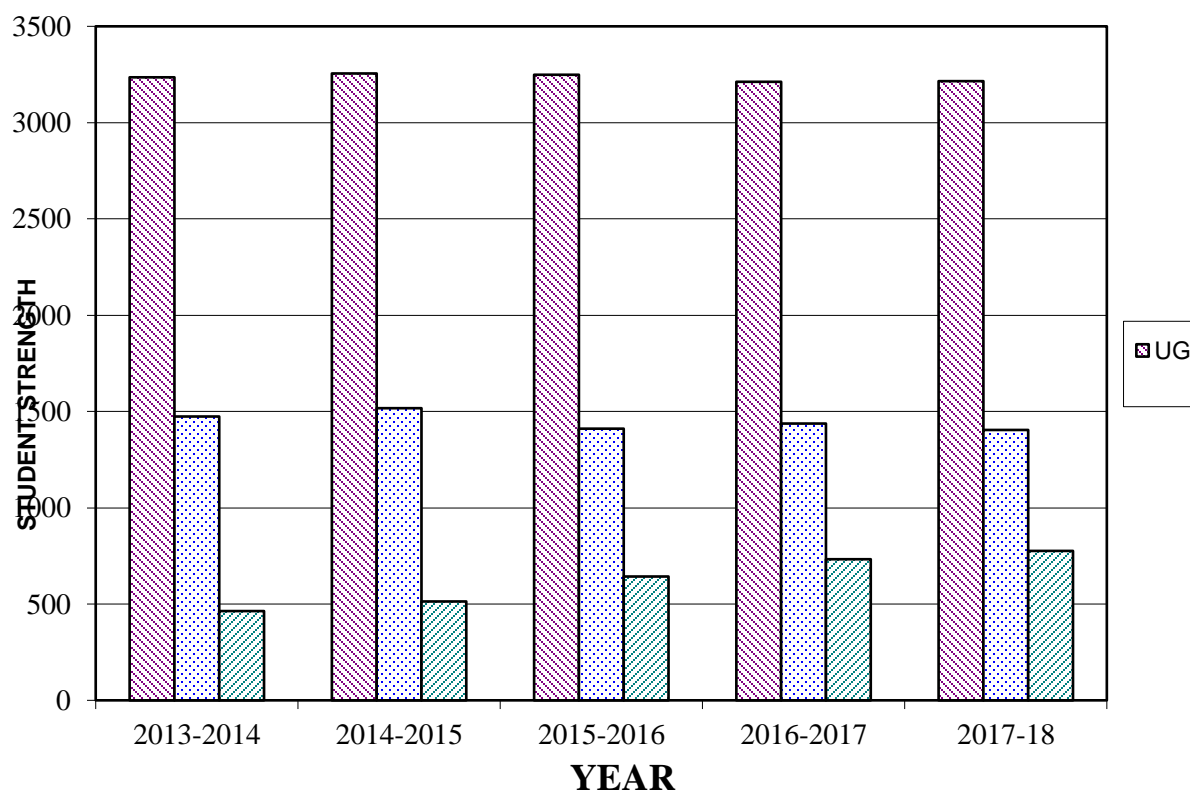
Pie – chart showing discipline wise B.Tech. admissions 2017-18



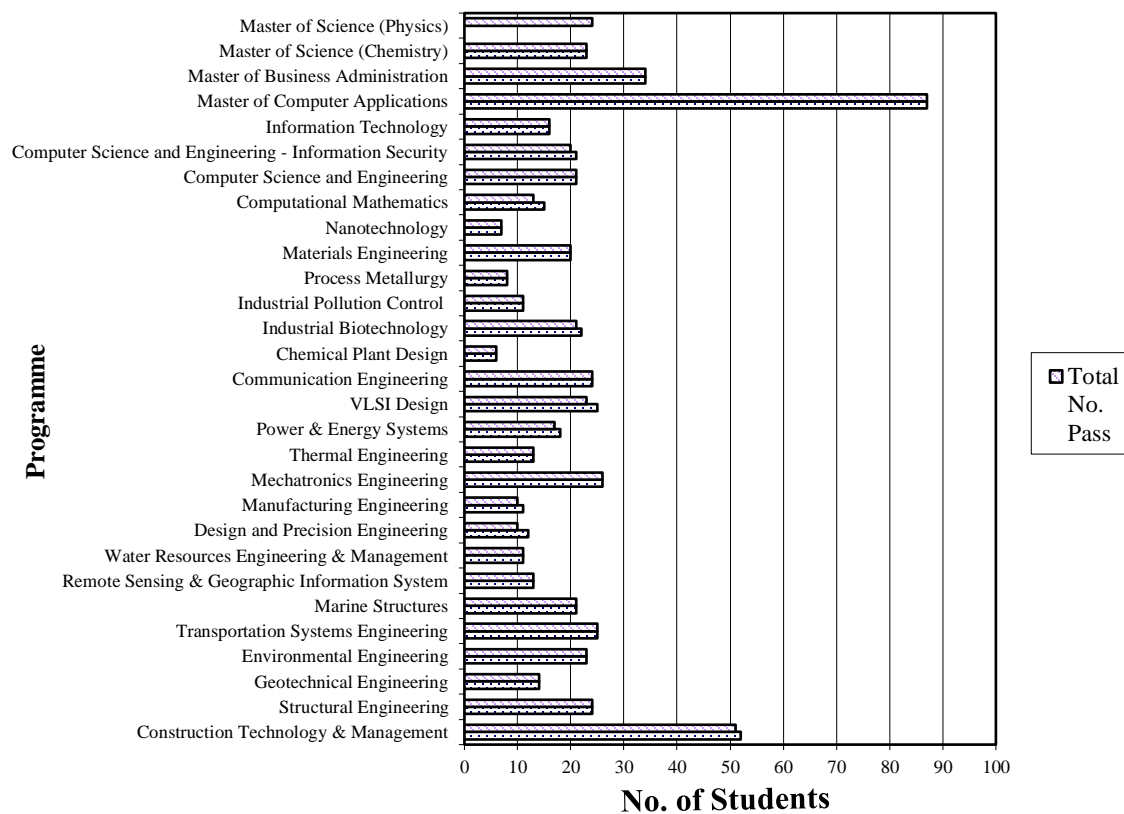
Pie – chart showing discipline wise M.Tech. admissions 2017-18



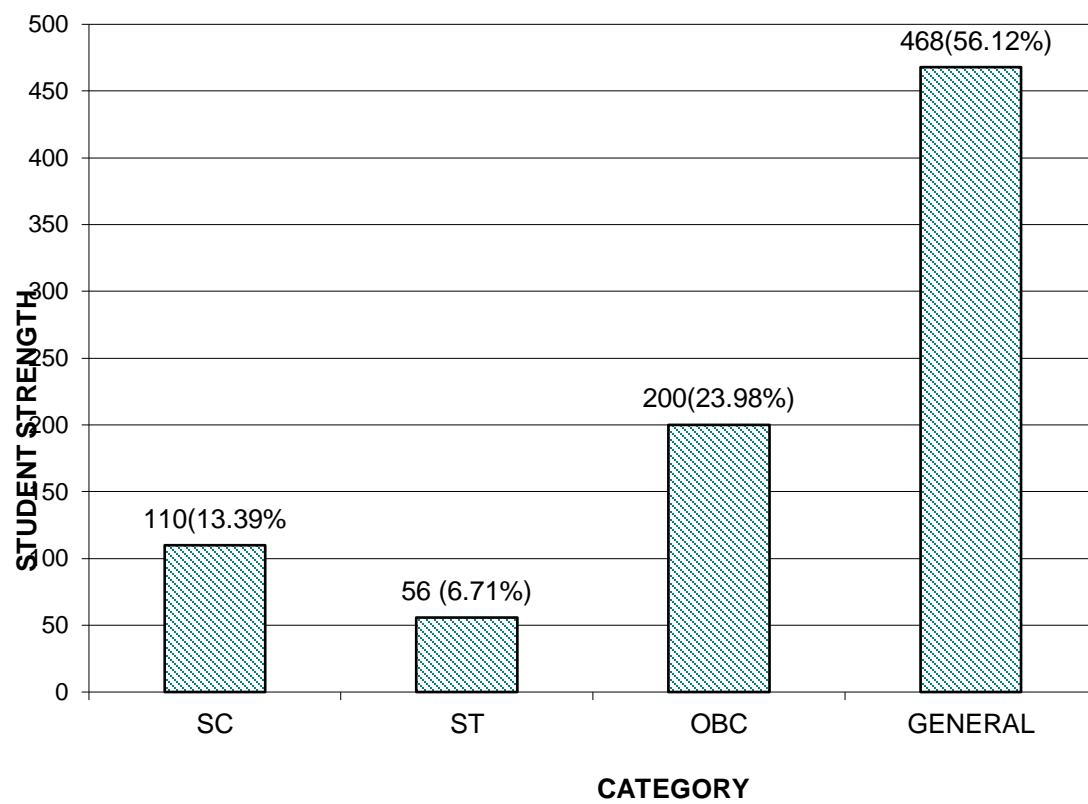
Pie – chart showing discipline wise Ph.D. admissions 2017-18



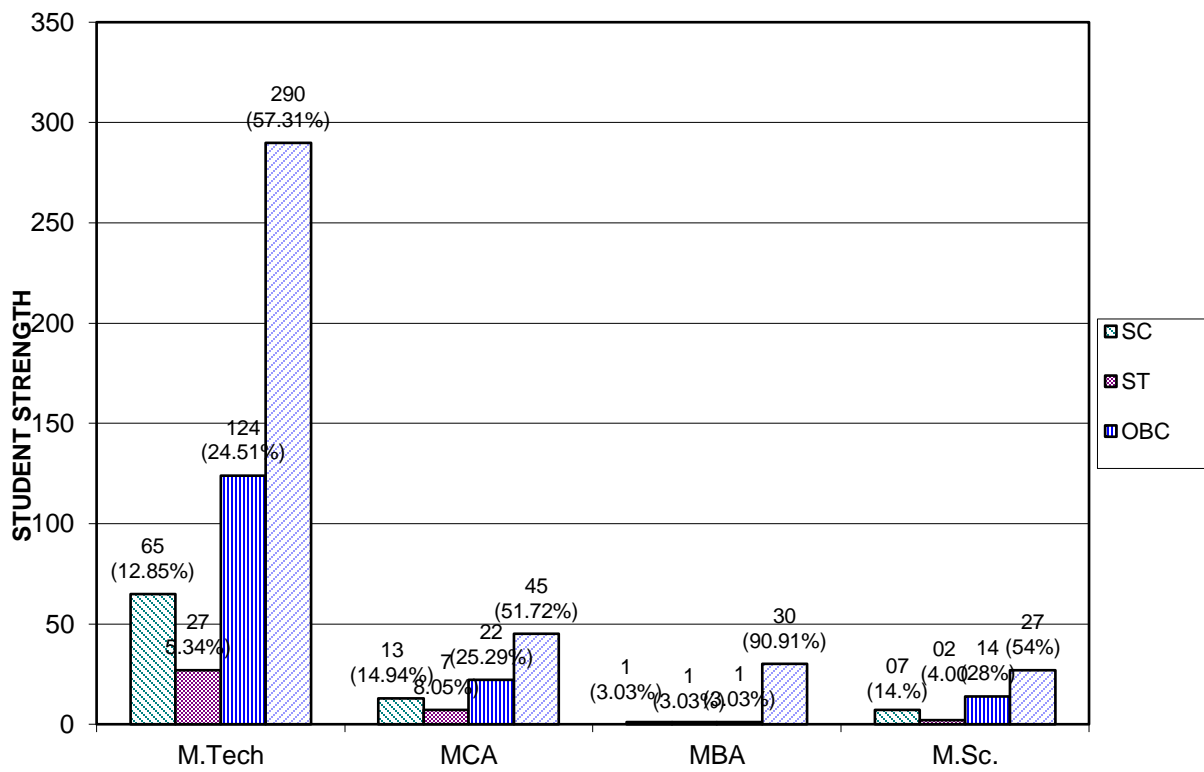
Growth in enrolment UG/PG/Ph.D. students during the last Five years 2013-2017



Examination Results (PG)



Category wise details of UG Admissions 2017-18



Category wise details of PG Admissions

Ranks secured by the B.Tech./M.Tech./MCA/MBA/M.Sc. (Physics & Chemistry)
Examination held in April/May, 2017

B.Tech.

Sl. No.	Branch	Reg. No.	Name of the Student
1	CHEMICAL ENGINEERING	13618113CH22	<u>KRATHIKA BHAT</u> 1) Institute Medal 2) Mohan V Hosur Gold Medal 3) 1986 Batch Gold Medal
2	CIVIL ENGINEERING	13611413CV228	<u>NIDHI RAO</u> 1) Institute Medal 2) Prof. M. N. Shivashankar Gold Medal 3) Dr. R.K. Yaji Gold Medal 4) 1986 Batch Gold Medal
3	COMPUTER ENGINEERING	13709513CO203	<u>AMITA AJITH KAMATH</u> 1) Institute Medal
4	ELECTRONICS & COMMUNICATION ENGINEERING	13611813EC130	<u>MANASA GADIYAR</u> 1) Institute Medal 2) 1986 Batch Gold Medal
5	ELECTRICAL & ELECTRONICS ENGINEERING	13641113EE230	<u>NAMRATA NADAGOUDA</u> 1) Institute Medal 2) Prof. M.R. Shenoy Memorial Prize 3) Prof. K. M. Hebbar Gold Medal 4) 1986 Batch Gold Medal
6	INFORMATION TECHNOLOGY	13646913IT140	<u>SHAILEE SANJAY JAIN</u> 1) Institute Medal
7	MECHANICAL ENGINEERING	13625813ME125	B R STHAVISHTHA 1) Institute Medal 2) 1986 Batch Gold Medal 3) Prof. Shuichi Torii Gold Medal
8	METALLURGICAL & MATERIALS ENGINEERING	13633013MT32	R SANTHANU PANIKAR 1) Institute Medal 2) Karthik Alloys Gold Medal 3) Prof. H. V. Sudhaker Nayak Gold Medal 4) SMIORE Gold Medal 5) 1986 Batch Gold Medal
9	MINING ENGINEERING	13610913MN39	SHIVAM SAHU 1) Institute Medal 2) Hutti Gold Mines Medal

POST GRADUATES

Sl. No.	Branch	Reg. No.	Name of the Student
1	Marine Structures	15008815MS09F	<u>K SRILAKSHMI</u> 1) Institute Medal
2	Remote Sensing & Geographic Information System	15030415RS08F	<u>N SHIVA SHANKARI</u> 1) Institute Medal 2) Board Chairperson's Medal
3	Water Resources Engineering & Management	15038915WR09F	<u>SHARANNYA T M</u> 1) Institute Medal
4	Chemical Plant Design	15030315PD07F	<u>YOHANNAN BIBIN SABILON</u> 1) Institute Medal
5	Industrial Biotechnology	15012915IB15F	<u>SHRADDHA MUNDRA</u> 1) Institute Medal
6	Industrial Pollution Control	15029215PC07F	<u>MUGADA SARAT KUMAR</u> 1) Institute Medal
7	Construction Technology & Management	15152415CM54F	<u>SHAIK SUBHANI</u> 1) Institute Medal
8	Environmental Engineering	15019615EN08F	<u>KAKADE KSHITIJ CHANGDEO</u> 1) Institute Medal
9	Geotechnical Engineering	15017815GT06F	<u>MAHIMA R</u> 1) Institute Medal 2) Board Chairperson's Medal
		15005715GT13F	<u>SURYA E V</u> 1) Institute Medal 2) Board Chairperson's Medal
10	Structural Engineering	15002315ST23F	<u>SEETHU K</u> 1) Institute Medal
11	Transportation Engineering	15003715TS02F	<u>ANUSREE ANAND P</u> 1) Institute Medal
12	Computer Science & Engineering	15014015CS03F	<u>BHANU PRIYA SAYAL</u> 1) Institute Medal
13	Computer Science & Engineering – Information Security	15015115IS12F	<u>LAVISH KOTHARI</u> 1) Institute Medal
14	Power & Energy Systems	15017515PS19F	<u>TALE SNIGDHA SUBHASH</u> 1) Institute Medal
15	Communication Engineering	15005315CE08F	<u>AYSWARIA VIJAYAMOHAN</u> 1) Institute Medal
16	VLSI Design	15000215VL04F	<u>ARJUN S KUMAR</u> 1) Institute Medal
17	Information Technology	15016515IT05F	<u>DANI VIVEK PADMANABH</u> 1) Institute Medal
18	Computational Mathematics	15046115CMA10F	<u>PRASHANT KUMAR</u> 1) Institute Medal
19	Design and Precision Engineering	15016115DP08F	<u>LAXIT GOYAL</u> 1) Institute Medal
20	Manufacturing Engineering	15017015MF03F	<u>ANOOB GANESH A</u> 1) Institute Medal

21	Mechatronics Engineering	15005115MC24F	SHASHIDHAR S UPPIN 1) Institute Medal
22	Thermal Engineering	15008415TH03F	BALAJI S 1) Institute Medal 2) Dr. B. S. Samaga Cash Award
23	Materials Engineering	15037315ML19F	SUJITH S 1) Institute Medal 2) Prof. K R Hebbar Gold Medal
24	Nanotechnology	15009715NT02F	BIKESH GUPTA 1) Institute Medal 2) Board Chairperson's Medal 3) Prof. K. L. Bhat & Prof. P. Prasad Rao Gold Medal
25	Process Metallurgy	15008015PM08F	VIJAY PRAKASH SINGH PARIHAR 1) Institute Medal 2) Mrs. Sarojini Pillai Gold Medal

Master of Computer Applications - 2017

Sl. No.	Branch	Reg. No.	Name of the Student
26	Master of Computer Applications	14205414CA45	NITIN GHAWANA 1) Institute Medal 2) Dr. Saroja R Hebbar Gold Medal

Master of Business Administration - 2017

Sl. No.	Branch	Reg. No.	Name of the Student
27	Master of Business Administration	15301115HM29	<u>SOMYA SINGH</u> 1) Institute Medal 2) Board Chairperson's Medal

Master of Science - 2017

Sl. No.	Branch	Reg. No.	Name of the Student
28	Chemistry	15402815CY17	SATHISH C G 1) Institute Medal 2) Prof. G. H. Kulkarni Gold Medal
29	Physics	15401315PH10	<u>LEKSHMI S</u> 1) Institute Medal 2) K. Subbarayappa Gold Medal

9. Ph.D.PROGRAMMES & DOCTORATES AWARDED

Ph.D. PROGRAMMES – EXISTING & PROPOSED

DEPARTMENT OF APPLIED MECHANICS AND HYDRAULICS

EXISTING :

•SPECIALIZATION

- (i) Coastal Engineering
- (ii) Water Resources Engineering
- (iii) Remote Sensing and GIS

DEPARTMENT OF CIVIL ENGINEERING EXISTING:

•SPECIALIZATION

Structural Engineering, Geotechnical Engineering, Transportation Engg., Environmental Engineering, Construction Technology and Management, Geology and Earth Sciences

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING:

EXISTING:

•SPECIALIZATION

Computer Networks, Software Engineering, Distributed Computing, Data Management, Information Security, High Performance Computing, Computer Vision, Cloud Computing, Image Processing, Speech Processing, Mobile computing

PROPOSED:

•SPECIALIZATION

Graph Theory, Graph Algorithms

DEPARTMENT OF CHEMISTRY EXISTING:

•SPECIALIZATION

Inorganic, Organic, Physical, Photocatalysis, Membrane technology, nanomaterials, Medicinal chemistry, Organic electronics and Organic synthesis, Synthetic Organic Chemistry. Catalysis. Aerobic oxidation.

PROPOSED:

• SPECILIZATION:

Perovskite solar Cells and Oleds

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

EXISTING:

•SPECIALIZATION

Digital VLSI Design, Analog and Mixed Signal Design, Digital Signal Processing, Speech, Audio, Image and Video Processing, Digital Communication, Error Control Coding, Free Space Optics, RF MEMS, Microwave and RF Circuits, Wireless Sensor Networks, High Frequency Electronics, Semiconductor Devices, Embedded Systems, Reconfigurable Computing

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

EXISTING:

•SPECIALIZATION

Power Systems, Distributed Generation, Energy Systems, Power Electronics & Drives, Renewable Energy, High Voltage Engineering, Flexible AC Transmission System (FACTS), Control Systems, Power System Protection, Smart Grid & Sensor Networks.

DEPARTMENT OF INFORMATION TECHNOLOGY

EXISTING:

•SPECIALIZATION

Affective Computing, Big Data Analysis, Bio-Inspired Computing, Cloud Computing, Cloud Security, Computer Networks, Cyber Security, Databases, Data Mining, Distributed Computing, Healthcare Informatics, High Performance Computing, Information Security, Internet of Things, Multimedia Computing, Network Security, Web Services, Wireless Sensor Networks.

PROPOSED:

•SPECIALIZATION

Edge/Fog Computing, IoT for Smart City / Smart Office / Smart Building / Smart Classroom, Information Retrieval, Natural Language Processing, Semantic Web

Technology, Social Multimedia/Social Network Analysis

DEPARTMENT OF MATHEMATICAL AND COMPUTATIONAL SCIENCES

EXISTING:

•SPECIALIZATION

Computational Fluid Dynamics, Wireless Sensor Networks, Reliability Engineering, Graph Theory, Graph Algorithms, Computer Network Security, Real Analysis, Dynamical Systems, Fixed Point Theory, Image Processing, Differential Equations, Numerical Methods.

DEPARTMENT OF MECHANICAL ENGINEERING

EXISTING :

•SPECIALIZATION

Thermal Engineering, Manufacturing Engineering, Design And Precision Engineering, Mechatronics Engineering

DEPARTMENT OF MINING ENGINEERING

EXISTING:

•SPECIALIZATION

Rock Mechanics and Ground Control, Drilling and Blasting, Mine Planning Environmental Management

DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING

EXISTING:

•SPECIALIZATION

Process Metallurgy, Physical Metallurgy, Mechanical Metallurgy, Materials Engineering, Nanotechnology

DEPARTMENT OF PHYSICS

EXISTING:

•SPECIALIZATION

Solid State Physics, Materials Science, Theoretical Physics, Electromagnetics, Photonics, Compound Semiconductor thin films.

PROPOSED:

•SPECIALIZATION

Theoretical investigation of strongly correlated systems and solar cells

SCHOOL OF MANAGEMENT

EXISTING:

•SPECIALIZATION

Management, Social Sciences and Humanities

DOCTORATES AWARDED

DEPARTMENT OF APPLIED MECHANICS AND HYDRAULICS

Upto 31st March 2017 : 64

During period 1st April 2017 to 31st March 2018 : 08

1. Bhojraj B.E., Hyperspectral vegetation indices for Arecanet crop monitoring, 2017, Dr. Amba Shetty & Dr. M.K.Nagaraj
2. Rohan Colaso, Sensitivity of risks in construction scheduling, 2017, Dr. M.K.Nagraj
3. Binu Mol, Studies on the effects of an emerged Impermeable and seaside perforated quarter circle breakwaters on near field hydrodynamics, 2017, Dr. A.Vittal Hegde & Dr. Subba Rao
4. Akshay B.J., Integrated vulnerability assessment of Karnataka coast : A geographical approach, 2017, Dr. A.Vittal Hegde
5. Subrahmanya K., Hydro-geological studies on coastal wetland – A case study, 2017, Dr. A.Mahesha
6. Amog Mudbhatkal, Assessment of climate change impacts on river basins originating in the Wester Ghats of India, 2017, Dr. A. Mahesha
7. Yajneshwaran B., Parametric study of

soil structure interaction of a Diaphragm wall type berthing structure, 2017, Dr. Subba Rao & Dr. A. Vittal Hegde

8. Jagalingam B., Pan-sharpening the spatial resolution of multispectral image for the assessment of near shore Bathymetry, 2018, Dr. A. Vittal Hegde
9. Mohammad Shahid Gulgundi, Identification and appointment of pollution sources to GW quality using Receptor models, 2018, Dr. Amba Shetty

DEPARTMENT OF CHEMICAL ENGINEERING

1. Anusha Krishnamurthy "Studies on a fibrinolytic enzyme produced from marine *Serratia marcescens* subsp. *Sakuensis*", 2018, Dr. Prasanna B.D.
2. Gopinath K. "Studies on Particulate Matter in Ambient Air of Urban Mangalore", 2018, Dr. Raj Mohan B.
3. Pooja Nanda "Studies on Site-Specific Pegylation of Uricase from *Bacillus fastidious* using mPEG-Derivatives", 2017, Dr. P.E. Jagadeesh Babu
4. Balakrishna Prabhu K. "Study of New Chitosan Based Derivatives for Removal of Heavy Metals from Waste Water", 2017, Dr. M.B. Saidutta & Dr. Arun M. Isloor
5. Mr. Rajashekhara, S. "Batch Drying Studies of Solids in a Multiple Draft Tube Spouted Bed", 2017, Dr. D.V.R. Murthy
6. Kunal Kumar "Studies On Novel Oxalate Oxidase Production By An Endophytic Bacterium *Ochrobactrum intermedium* CL6", 2017, Dr. Prasanna B.D.

DEPARTMENT OF CIVIL ENGINEERING

Up to 31st March 2017:- 65
During period 1st April 2017 to 31st March 2018: 05

1. B.M. Mithun, Performance of Alkali Activated Concrete Mixes Incorporating Copper Slag as Fine Aggregates, 2017, M. C. Narasimhan.
2. B.O. Naveen, Structural Damage Identification Using High Dimensional Model Representation, 2018, S. Balu.
3. Anil Kumar Studies on Modulus of Resilience of Lateritic Soil Blends Using CBR, DCP, PFWD, and Cyclic Triaxial Tests, with FEM Based Analysis on Dynamic Loading, 2018, Varghese George
4. Amritha A.S, Fenton and Photo Fenton Oxidation of Aniline Derivatives in Water, 2018, Basavaraju Manu.
5. Shivakumar G., Effect of Lower Working Temperatures on Physical and Mechanical Properties of Warm Mix Asphalt Mixtures, 2018, Suresha S.N.

DEPARTMENT OF COMPUTER ENGINEERING

UPTO 31st MARCH 2017:- 19
DURING PERIOD 1st APRIL 2017 TO 31st March 2018:- No.
 Awarded: **08**

1. Krishna Kumar P "Measurement of carotid artery wall thickness and diameters from magnetic resonance and ultrasound images" 2017, Dr. Jeny Rajan
2. Manoj Kumar M. V "An approach for handling concept drift and model simplification in log-based process analysis", 2017, Dr. Annappa
3. Manoj V. Thomas "Identity and access management in the cloud federation environments" 2017, Dr. K. Chandrasekaran
4. Sumith N "Identification and analysis of influence in social networks : user centric approach", 2018, Dr. Swapna Bhattacharya and Dr. Annappa
5. Likewin Thomas "Process mining based critical path recommendation in health care management", 2018, Dr. Annappa

6. Usha D "A Trust Based Security of Resources in Cloud Environment" 2018, Dr. K. Chandrasekaran
7. Bindu P "VGraph feature based multi-layer social network analysis for anomaly detection" 2018, Dr. P. Santhi Thilagam
8. Vathsala H "Long range prediction of Indian summer monsoon rainfall using data mining and statistical approaches" 2018, Dr. Shashidhar G. Koolagudi.

DEPARTMENT OF CHEMISTRY

UPTO 31ST MARCH 2017: 81
DURING PERIOD 1ST APRIL 2017 TO 31ST March 2018:- No. Awarded (including those for which viva has been successfully completed):- 07

1. Harikrishna Nandam, April, 2017, Dr. A. M. Isloor.
2. Liju Elias, August 2017, Dr A. C. Hegde
3. Dr. Mohamed Jafer Sadiq M., Ph.D. Title: Graphene - Metal Tungstate Nanocomposites for Catalytic Applications, November, 2017., Dr. D. Krishna Bhat
4. Raghavendra Seetharama Hebbar "Preparation, Characterization and performance studies of polyetherimide based membranes for water purification" September 2017, Dr Arun M. Isloor.
5. Irfana Moideen K. "Preparation and characterization of polyarylsulfone based membranes for water purification" December 2017, Dr Arun M. Isloor
6. Sandhya S, January, 2018, Dr A. C. Hegde.
7. Praveen Naik, February, 2018, Dr A.V. Adhikari

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

UPTO 31ST MARCH 2017:- No. Awarded (including those for which

viva has been successfully completed):- 18
DURING PERIOD 1ST APRIL 2017 TO 31ST MARCH 2018:- No. Awarded (including those for which viva has been successfully completed):- 03
(FOR PERIOD OF REPORT ONLY)

1. Jagadish D. N. "Design of Low Power Successive Approximation Register Analog to Digital Converter", September 2017, Dr. M. S. Bhat.
2. Jora M. Gonda " Power shield: A power-quality enhancer for current-source type of nonlinear loads", October 2017, Dr. Sumam David S.
3. Gnane Swarnadh Satapathi "Efficient Tracking Algorithms with phased Array radars in the presence of Electronic Counter Measures", December 2017, Dr. P. Srihari.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

UPTO 31ST MARCH 2017:- 22
DURING PERIOD 1ST APRIL 2017 TO 31ST March 2018:- No. Awarded: 01

1. (Mr. Tangella Bhavani Shanker "ACOUSTIC EMISSION SIGNAL BASED INVESTIGATIONS INVOLVING LABORATORY AND FIELD STUDIES RT,LATED TO PARTIAL DISCHARGES & HOT-SPOTS IN POWER TRANSFORMERS", 2017, Dr, Gururaj S Punekar & Dr, Nagamani H N. (of CPRI Bangalore))

DEPARTMENT OF INFORMATION TECHNOLOGY

UP TO 31ST MARCH 2017: 13
DURING PERIOD 1ST APRIL 2017 TO 31ST MARCH 2018: 5

1. Pushpalatha K , "Effective Multimedia Document Representations for Knowledge Discovery", July 2017, Prof. Ananthanarayana V S
2. Biju R Mohan, "Resource Consumption Analysis of Virtualised Server Consolidation System", November 2017, Prof. G. Ram Mohana Reddy
3. Shridhar G Domanal, "Bio-Inspired QoS Aware Resources Allocation and Management at the Cloud Data Center", January 2018, Prof. G. Ram Mohana Reddy
4. Neeraj kumar Sharma "Energy Efficient Resource management and Task Scheduling at the Cloud Data Center" February 2018, Porf. G Ram mohana Reddy.
5. Ajaya Kumara M A, "Virtual machine introspection Based Malware Detection Approach at Hypervisor for virtualized Cloud Somputing Environment" March 2018, Dr. Jaidhar C D

DEPARTMENT OF MATHEMATICAL & COMPUTATIONAL SCIENCES

During Period 1st April 2017 to 31st March 2018:- :- No. awarded (including those for which viva has been successfully completed):-5 (FOR PERIOD OF REPORT ONLY)

1. Ramu Geddaavalasa, "Frames for Operators in Hilbert and Banach Spaces", 2017, Dr. P Sam Johnson.
2. Srinivasa Rao Nadiminti, "Numerical Investigation of Entrance Region Flow Heat Transfer of Viscoplastic Fluids in Rotating Concentric Annuli", 2017, Dr. A Kandasamy.
3. V.V.P.R.V.B Suresh Dara, "A Study on Graph Operators and Colorings", 2017, Dr. S.M.Hegde.
4. Mohd Ahmed, "On the Solutions of Viscous Burgers Equations" 2017, Dr. Murugan V.

5. Sabari M, "Steepest Descent Type Methods for Nonlinear Ill-Posed Operator Equations", 2017, Dr. Santhosh George

DEPARTMENT OF MECHANICAL ENGG.

UPTO 31st MARCH 2017:- No. Awarded (including those for which viva has been successfully completed): 505 DURING PERIOD 1st APRIL 2017 TO 31st March 2018:- No. Awarded (including those for which viva has been successfully completed):- 13

1. GOPI KR, Sever Plastic Deformation of Magnesium Alloys by Equal Channel Angular Pressing, 2017, Guide: Dr. H Shivananda Nayaka.
2. GAJANAN ANNE, Development and Characteristics of Ultrafine Grained Mg-Zn/Al Multi layered Composites by Accumulative Roll Bonding Process, 2017, Guide: Dr. Ramesh M.R, Dr. H Shivananda Nayaka
3. SUHAS B G, Investigation on subcooled flow boiling heat transfer to water-ethanol mixture in conventional channel, 2018, Guide: Dr. Sathyabhama A
4. NIVISH GEORGE, Buckling and Dynamic Characteristics of non-uniformly heated FG-CNT polymer nano composite plate, 2017, Guide: Dr. S M Murigendrappa and Dr. P. Jeyaraj
5. VINOD S BHAGAT, Buckling and Dynamic Behavior of non-uniformly heated cylindrical panels, 2017, Guides: Dr. P. Jeyaraj and Dr. S M Murigendrappa.
6. M P ARUNKUMAR, Studies on Vibration and Acoustics Response Characteristics of Sandwich Aerospace Structures, 2018, Guides: Dr. P. Jeyaraj and Dr. K V Gangadharan.

7. Vinyas M. Static behaviour of functionally graded magneto-electro-elastic plates and beams in thermal and hygrothermal environment, 2018, Guide: Dr. SubhaschandraKattimani.
8. Kamal Babu Processing and characterization of cuttlebone reinforced composites for biomedical applications, 2017, Guide: Dr.G.C Mohan Kumar.
9. MurulidharLakkanna Critical Design Aspects of Plastic Injection Mould, 2017, Guide: Dr.G.C.Mohan Kumar &Dr.RavikiranKadoli.
10. Sriharsha Hegde , Development And Evaluation Of Damping Characteristics And Shear Properties Of Magnetorheological Elastomers, 2017, Guide: Dr. K V Gangadharan.
11. Venkatesh T. Lamani, Suitability of Biofuels and Plastic Oil Blended with Diesel in CRDI Engine, 2017, Guides: Ajay Kumar Yadav& Dr. Kumar G. N.
12. Parashuram Bedar, Performance Emission and Combustion Analysis of Low Temperature Combustion Using Biodiesel on C I Engine, 2017 Guide: Dr Kumar G N
13. Parashuram R. Chitragar, Experimental Analysis of a Multi Cylinder Spark ignition Engine Fueled with Hydrogen Fuel, 2017, Guide: Dr Kumar G N

DEPARTMENT OF MINING ENGINEERING

Up to 31st March, 2018: No. awarded (including those for which viva has been successfully completed):- 19

Up to 31st March 2018

(During period 1st April 2017 to 31st March 2018):- 3

(FOR PERIOD OF REPORT ONLY)

1. Balla Kalyan”, Experimental investigation on assessment and prediction of specific energy in Rock indentation test”, April

- 2017, Prof.Ch. SN.Murthy & Prof.R.P Choudhary.
2. N Laxmipathi,” Study illumination system in surface mining project and Development of optimum lighting Design Parameters” October 2017, Prof. Ch.S.N.Murthy, Dr. M. Aruna
3. 3. Sripad Ramachandra Naik,” Studies on stability assessment of large covers in Himalayan Region”November 2017, Prof.V.R.Sastry

DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING

Up to 31st March 2017:- 41

During period 1st April 2017 to 31st

March 2018:- 05

(FOR PERIOD OF REPORT ONLY)

1. Hemanth Kumar V., “Optimisation of process parameters and assessment of mechanical properties of in-situ AA6082 – TiB₂ particle reinforced composites”, 2017, Dr. Ravishankar K. S.
2. Melby Chacko, “Effect of T6 Treatment on Corrosion of Al-SiCp Composite & Inhibition Evaluation of Benzimidazole and its Derivatives”, 2017, Dr. Jagannatha Nayak
3. Sharath P. C., Mechanical Properties and Microstructural Characterisation of Multi – Directional Forged and Heat Treated Zn-24Al-2Cu Alloy, 2018, Dr. Preetham Kumar G. V. & Dr. K. Rajendra Udupa
4. Shamanth V., Evaluation of the Mechanical Properties for Reversion Heat Treated of Thermally Embrittled Duplex Stainless Steels, 2018, Dr. Ravishankar K. S.
5. Baskaran T., Synthesis and Development of Sm₂SrAl₂O₇ Based Air Plasma Sprayed Ceramic Thermal Barrier Coatings: Oxidation, Hot Corrosion and High Temperature Erosion Study, 2018, Dr. Shashi Bhushan Arya

DEPARTMENT OF PHYSICS

UPTO 31ST MARCH 2017:- No. Awarded (including those for which viva has been successfully completed):- 20

DURING PERIOD 1ST APRIL 2017 TO 31st March 2018:- No. Awarded (including those for which viva has been successfully completed):- 07
(FOR PERIOD OF REPORT ONLY)

1. Siby Thomas, "Molecular Dynamics Studies of the Structural, Thermo-Mechanical and Finite Size Elastic Properties of Hexagonal Boron Nitride", 2017, Dr. Ajith K.M.
2. Sangeeth K, "Optoelectronic Devices With 2D Materials", 2017, Prof. G. Umesh and Prof. K. Navkantha Bhat.
3. Shourie Ranjana J., "Investigations On InSb Plasmonic Devices for Sensor Application at Terahertz Frequencies", 2017, Prof. G. Umesh and Dr. M.N. Satyanarayan.
4. Jean Maria Fernandes, "Charge Transport Investigations in Triarylamine Derivatives Based Organic Devices", 2017, Dr. M.N. Satyanarayan and Prof. G. Umesh
5. Sreejesh, M., "Preparation Characterization and Applications of Graphene and its Composites", 2017, Dr. H.S. Nagaraj
6. Ramana Reddy P, "Preparation and Characterization of Porous Anodic Alumina Nanostructures", 2017, Prof. N.K. Udayashankar and Dr. Ajith K.M.
7. Jyothi J., "Nanostructured Spectrally Selective Coatings for High-Temperature Solar Thermal Applications", 2018, Dr. H.S. Nagaraja and Dr. Harish Barshilia

SCHOOL OF MANAGEMENT

UPTO 31ST MARCH 2017:- No. Awarded (including those for which viva has been successfully completed):- 19

DURING PERIOD 1ST APRIL 2017 TO 31st March 2018:- No. Awarded

(including those for which viva has been successfully completed):- 6
(FOR PERIOD OF REPORT ONLY)

1. Ms. Claret P E Mendonca , "Women Entrepreneurs in Small and Medium Enterprises and their Access to Finance", 03.07.2017, Prof. A. H. Sequeira
2. Ms. Shilpi Saha, "Impact of Organisational Culture, Trust and Participation in Decision Making on Multiple Commitments" 20.07.2017, Dr. S Pavan Kumar;
3. Mr. Bibhudatta Dash, "Transcultural Displacements: A Study of Cultural Dichotomies and Spatiotemporality in Select South Asian Migrant Literature", 09.10.2017, Dr. Dhishna P
4. Mr. Krishna Prasad, "Determinants of Exchange Rate Exposure : A Study of Indian Firms", 06.12.2017, Dr. Suprabha K. R.
5. Mr. Sumukh S. Hungund, "Innovation Approaches, Practices and Firm Performance among Select Software Product SMEs: A Case of Bangalore Firms", 12.02.2018, Prof. K. B. Kiran
6. Ms. Ritika Jaiswal, "An Empirical Analysis of Hedging and Diversification Role of Commodity Futures as a Risk Management Tool", 22.03.2018, Dr. Rashmi Uchil)

10.0 HUMAN RESOURCES

10.1 STAFF POSITION

Teaching Staff	Number
Professors	63
Associate Professors	35
Assistant Professors	130
Other staff, A.P.D. & System Manager	02
Contract Faculty	<u>09</u>
	<u>239</u>
Non-Teaching Staff	
Administrative Officers	17
Technical supporting staff	56
Non-technical supporting staff	93
	<u>166</u>

THE STAFF

(A) Administrative Staff (Teaching)

Director: (Head of the Institution)

K N Lokesh, Ph.D. till 21.7.2017 F.N.
K Uma Maheshwar Rao, Ph.D.
21.7.2017 F.N.

Dean (Academic)

Katta Venkataramana, Ph.D. till
30.09.2017
M B Saidutta, Ph.D. from 1.10.2017
onwards

Dean (Planning and Development)

A U Ravishankar, Ph.D. till 31.12.2017
G S Dwarakish, Ph.D. from 1.1.2018

Dean (Faculty Welfare)

T P Ashok Babu, Ph.D. till 14.03.2018
A H Sequeira, Ph.D. from 15.03.2018

Dean (Alumni Affairs & Institutional Relations)

M B Saidutta, Ph.D. from 15.5.2013 to
31.8.2016

Prasad Krishna, Ph.D. from 1.9.2016

Dean (Student's Welfare)

Uday Kumar R Y, Ph.D. from 8.10.2013
to 7.10.2016

S M Hegde, Ph.D. from 7.10.2016

Dean (Research & Consultancy)

Ananthanarayana, Ph.D. from 1.9.2016

ACADEMIC STAFF (TEACHING)

Department of Applied Mechanics and Hydraulics

Professors:

A. Vittal Hegde, Ph.D. (Mangalore University)
N. Lakshman, Ph.D., (I.I.Sc., Bangalore)
M.K. Nagaraj, Ph.D. (I.I.Sc., Bangalore)
Subba Rao, Ph.D. (Mangalore University),
G.S. Dwarakish, Ph.D. Anna University)
Mahesh A, Ph.D. (IIT Bombay) HOD from
12.3.2017
Kiran G. Shirlal, Ph.D. (NITK)

Associate Professors

Amba Shetty, Ph.D. (NITK)
K Varija, Ph.D. (IISc. Bangalore)
B.M. Doddamani, Ph.D. (NITK)
P.C. Deka, Ph.D. (I.I.T. Guwahati)

Assistant Professors:

K. Subrahmanya, Ph.D. NITK
Manu, (Ph.D. NITK)
Pruthviraj U., Ph.D. (NITK)
H.Ramesh, Ph.D. (NITK)
K. Vadivuchezhian, Ph.D. (IIT Madras)
Nasar T, Ph.D. (IIT, Madras)
Debabrata Karmakar, Ph.D., (IIT
Kharagpur) 5.5.2015

Department of Chemical Engineering

Professors:

G. Srinikethan, Ph.D. (I.I.T. Madras)
Gopal Mugeraya, Ph.D. (I.I.Sc.
Bangalore) on deputation to NIT Goa as
Director from 15.07.2017

M.B. Saidutta, Ph.D. (I.I.T. Bombay)
Hari Mahalingam, Ph.D. Singapore HOD
from 01.09.2017

Associate Professors:

K. Vidya Shetty, Ph.D. (NITK)
B. Raj Mohan., Ph.D. (I.I.T., Kharagpur),
HOD from 1.9.2015 to 31.08.2017

Assistant Professors:

S. Gangamma, Ph.D. IIT, Bombay
Jitendra Pal S., Pursuing Ph.D. at IIT
Delhi
Prasanna B.D., M.E. (Ph.D. NITK)
Regupathi, Ph.D., (Anna University,
Chennai)
P.E. Jagadeeshbabu, Ph.D. (Anna Univ.
Chennai)
Hari Prasad Dasari, Ph.D. (Korea
Institute of Science and Technology,
Korea)
Keyur Raval, Ph.D. (Aachen Den
University)
D.Ruben Sudhakar, Ph.D. (IIT Madras)
B. Ashraf Ali, Ph.D. (IIT Madras)
Jagannathan T K, Ph.D. (IIT Madras)
Chinta Sarkar Rao, Ph.D. (IIT, Madras)
(Contractual)

**Department of Civil Engineering
Professors:**

R. Shivashankar, Ph.D. (A.I.T. Bangkok)
K.N. Lokesh, Ph.D. (Geology) (Gulbarga
University)
M.C. Narasimhan, Ph.D. (IIT Madras)
Katta Venkataramana, Dr.Eng. (Kyoto
University, Japan)
A.U. Ravi Shankar, Ph.D (Univ. of
Roorkee)
K. Swaminathan. Ph.D. (I.I.T. Bombay)
Varghese George, Ph.D. (I.I.T. Bombay)
HOD from 21.4.2017
S. Shrihari, Ph.D. (Univ. of Roorkee)
Sitaram Nayak, Ph.D. (I.I.Sc. Bangalore)
Subhas C. Yaragal, Ph.D. (IISC.
Bangalore)
K.S. Babunarayan, Ph.D. (NITK)

Associate Professors:

B.R. Jayalekshmi, Ph.D. (NITK)

Assistant Professors:

Sunil B. Malegole, Ph.D. (NITK)
Prashanth M.H., Pursuing Ph.D. at IISc
Basavaraj Manu, Ph.D. (IIT, Bombay)
Raviraj H. Mulangi, M.E., Ph.D., IISC
Suresha S N, Ph.D. (NITK)
Arun Kumar Thalla (IIT Rourkee), Ph.D.
Gangadhar Mahesh, Ph.D. (Hongkong)
A. S Balu, Ph.D. (IIT Madras)
C Rajasekaran, (IIT Madras)
C.P. Devatha, Ph.D. (IIT Roorkee)
A. Gowri, Ph.D. (IIT Madras)
Anjana Bhasi, Ph.D. (IIT, Madras)
contractual
Bibuti Bhushan Das, Ph.D., (IIT Bombay)

**Department of Computer Engineering
Professors:**

K. Chandrasekaran, Ph.D. (J.N.T.U.)

Associate Professors

Vani M., M.Tech. (NITK, Surathkal) HOD
from 17.8.2015 to 05.1.2017
Shanthi Thilagam, Ph.D. (NITK) HOD
from 6.1.2017
Annappa, Ph.D (NITK, Surathkal)

Assistant Professors:

Alwyn Roshan Pais, Ph.D. (NITK)
Saumya A. Hegde, M.Tech. (NITK)
B.R. Chandavarkar, Ph.D. NITK
Mahendra Patap Singh, pursuing Ph.D.
Shashidhar G Koolagudi, Ph.D. (IIT
Kharagpur)
Jeny Rajan, Ph.D. (University of
Antwerpen, Belgium)
Mohit P. Tahlilani, Ph.D. (NITK)
Basavaraj Talawar, Ph.D. (IISC
Bangalore)
Manu Basavaraju, Ph.D. (IISC,
Bangalore)
M Venkatesan, Ph.D. (VIT University,
Vellore) - Contractual

**Department of Chemistry
Professors:**

A. Nityananda Shetty, Ph.D. (Mangalore
Univ.)

A. Vasudeva Adhikari, Ph.D. (Karnatak Univ.)
A. Chitharanjan Hegde, Ph.D. (Mangalore Univ.)
B. Ramachandra Bhat, Ph.D. (Mangalore Univ.)
Krishna Bhat, Ph.D. (Mangalore Univ.)
HOD from 11.8.2016

Associate Professors:

Arun Mohan Isloor, Ph.D. (Mangalore University)

Assistant Professors:

Udaya Kumar D., Ph.D. (NITK, Surathkal)
Darshak R. Bhai Trivedi, Ph.D. (Bhavnagar University)
Sib Sankar Mal, Ph.D. (JUB Germany)
Beneesh P. B., Ph.D. (University of Kerala)
Debashree Chakraborty, Ph.D. (IIT Kanpur)
Saikat Dutta, Ph.D. (University of Iowa, USA)

Department of Electronics And Communication Engineering Professors:

S. Sumam David, Ph.D. (I.I.T. Madras)
Muralidhar Kulkarni, Ph.D. (JMI – New Delhi)
M. Shankarnarayan Bhat, Ph.D. (I.I.Sc., Bangalore)
John D'Souza, Ph.D. (I.I.T.Kharagpur)
U. Sripati Acharya, Ph.D., (I.I.Sc., Bangalore) HOD from 1.4.2016 to 16.04.2018

Associate Professors:

M. Ramesh Kini, Ph.D. NITK
Neelavar Shekar Shet, Ph.D. (NITK)
Laxminidhi T., Ph.D. (IIT, Madras) HOD from 17.04.2018
Ashwini Chathurvedi, Ph.D. (MUM Malaysia)

Assistant Professors:

Rekha S., Ph.D.

Kalpna G. Bhat, M.Tech. Karnataka University
Aparna P., Ph.D. (NITK)
Joseph Antony A., M.E. (Anna Univ., Chennai) – Resigned from 23.04.2018
B. Nagavel, M.E., (Jadavpur University) Pursuing Ph.D. at IIT Kharagpur
Krishna Moorthy K., Ph.D. at IIT, Bombay
Deepu Vijayasenana, Ph.D. (EPFL, Switzerland)
Prashantha Kumar H, Ph.D. (NITK)
M R Arulalan, Ph.D. (IISC, Bangalore)
Raghavendra B S, Ph.D. (IISC, Bangalore)
A V Narasimhadhan, Ph.D. (IISc), Bangalore
Pathipati Srihari, Ph.D. (Andhra University)
Shyam Lal, Ph.D. (BIT Ranchi)
Ratnamala Rao, Ph.D. (IIT Madras)

Department of Electrical And Electronics Engineering Professors:

Udayakumar R.Y., Ph.D. (IIT Bombay) on deputation to MNIT, Jaipur as Director from 08.10.2016
K. Panduranga Vittal, Ph.D. (Mangalore Univ.)

Associate Professors:

Jora M. Gonda, Ph.D. NITK
Shubhanga K.N., Ph.D. (IIT, Bombay)
K. Rajagopal, M.Tech. (I.I.T. Kharagpur)
Vinatha U., Ph.D. (NITK, Surathkal) HOD till 11.5.2017
Gururaj S. Punekar, Ph.D. (IIT, Kharagpur)
K. Manjunatha Sharma, Ph.D. (NITK)
Venkatesa Perumal, Ph.D. (IIT Delhi)
HOD from 29.5.2017

Assistant Professor :

Iddya Raghavendra Rao M.Tech. (Mangalore Univ.)
Nagendrappa H., Ph.D. (Canada)
Dattatraya N. Goankar, Ph.D. (IIT, Roorkee)

Tukaram Moger, Ph.D. at IISC,
Bangalore
Parthiban, Ph.D. (IIT, Roorkee)
Debashisha Jena, Ph.D. (NIT Rourkela)
Girisha Navada, M.Tech. (University of
Calicut)
Karthikeyan, Ph.D. (NIT, Thiruchirapalli)
R Kalpana S, Ph.D. (IIT, New Delhi)
Sheron Figarado, Ph.D. (IISC, Bangalore)
Y Suresh, Ph.D. (NIT Rourkela)
(Contractual)
Krishnan C M C, Ph.D.
(Ghent University, Ghent, Belgium)
(Contractual)

School of Management

Professors

A.H. Sequeira, Ph.D., (Mysore University)
K.B.Kiran, Ph.D. (Mangalore Univ.) HOD
from 06.9.2016

Associate Professors:

Shashikantha K., Ph.D. (University of
Hyderabad)

Assistant Professors:

Bijuna C. Mohan, Ph.D. (NITK,
Surathkal)
Rashmi Uchil, Ph.D. (NITK, Surathkal)
Suprabha K. R, Ph.D., (VTU)
Rajesh Acharya H, Ph.D., (University of
Hyderabad)
Gopalakrishna B V, Ph.D., (University of
Mysore)
S. Pavan Kumar, Ph.D., (IIT Kharagpur)
Sheena, Ph.D., (University of Calicut)
Dhishna P, Ph.D., (University of
Pandichery)
Sreejith A, Ph.D. (IIT, New Delhi)
Savita Bhat, Ph.D. (IIT, Bombay)
Pradyot Ranjan Jena, Ph.D. (IIT Kanpur)

Department of Information Technology

Professors:

Ananthanarayana V.S., Ph.D. (I.I.Sc.
Bangalore)
G. Ram Mohan Reddy, Ph.D. (Edinburgh,
U.K.) HOD from 17.8.2015

Assistant Professors:

Dinesh Naik, M.Tech. (VTU, Belgaum)
Geetha V., Ph.D. (NITK)
Biju R. Mohan, Ph.D. NITK
Sowmya Kamath S., Ph.D. (NITK)
Jaidhar C D, Ph.D. (NIT, Tiruchirapalli)
Nagamma Patil, Ph.D. (IIT, Roorkee)

Department of Mathematical & Computational Sciences Professors:

A. Kandasamy, Ph.D. (I.I.T. Bombay)
Suresh M. Hegde, Ph.D. (Delhi Univ.)
Santhosh George, Ph.D. (Goa University)
HOD till 16.08.2017
Murulidhar N.N., Ph.D. (I.I.T. Bombay)

Associate Professors:

Shyam Srinivas Kamath, Ph.D.
(Karnataka Univ.)
B.R. Shankar, Ph.D. (I.I.Sc., Bangalore)
HOD from 17.08.2017
Sujatha D. Achar, M.Sc. (Karnatak Univ.)
R. Madhusudhan., Ph.D. (IIT, Roorkee)

Assistant Professors:

D. Pushparaj Shetty, Ph.D. (IIT Delhi)
Vivek Sinha, Ph.D (IIT, Bombay)
V. Murugan, Ph.D. (IIT, Madras)
P. Sam Johnson, Ph.D. (Alagappa
University)
Jidesh P., Ph.D. (NITK)
Satyanarayana Engu, Ph.D., (IIT Madras)
Vishwanath Kadaba Puttanna, Ph.D.,
(NITK)
Chandhini G, Ph.D. (IIT, Madras)
Jayaraman, Ph.D. ((IIT, Madras) resigned
from 9.8.2017

Srinivasa Rao Kola, Ph.D. (IIT, Kharagpur)
A Senthil Thilak, Ph.D. (NIT, Tiruchirappalli)
Kedarnath Senapati, Ph.D. Utkal University (Contractual)

Department of Mechanical Engineering Professors:

K.K. Appu Kuttan, Ph.D (I.I.T. Madras)
P. Mohanan, Ph.D. (I.I.T. Delhi) retired from 31.10.2017
T.P. Ashok Babu, Ph.D. (I.I.T. Delhi)
G.C. Mohan Kumar, Ph.D. (IIT, Chennai)
H. Suresh Hebbar, Ph.D. (I.I.T. Delhi)
Prasad Krishna, Ph.D., (Univ. of Michigan, Ann Arbor, USA)
Satyabodh M Kulkarni, Ph.D. (I.I.Sc., Bangalore)
Gangadharan K.V., Ph.D. (I.I.T., Madras)
Ravi Kiran Kadoli, Ph.D. (IIT, Madras)
Vijay Desai, M.E. (Ph.D. NITK)
Narendranath S., Ph.D. (IIT, Kharagpur) HOD from 22.01.2017
Shrikantha, Ph.D. (NITK)

Associate professors

Y. Suresh Kumar, M.E. (Mysore Univ.) VRS from 12.2.2018
S.M. Murigendrappa, Ph.D. (I.I.T., Bombay)

Assistant Professors

Mervin A. Herbert, Ph.D. (I.I.T., Kharagpur)
Vasudeva M., Ph.D. (I.I.T. Bombay)
Guruprasad K.R., Ph.D. (I.I.Sc., Bangalore)
Kumar G.N., Ph.D. (IIT, Delhi)
Shivananda Nayak H., Ph.D. (IIT Roorkee)
Veersetty Gumtapure, Ph.D. (IIT, Madras)
Navin Karanth P., Ph.D. (NITK)
Subhaschandra Kattimani, Ph.D. (IIT, Kharagpur)
Sudhakar Jambagi, M.Tech. (Persuing Ph.D. at IIT Kharagpur)
Vijay Kumar H, Ph.D. (IIT, Bombay) resigned from 11.8.2017

Ajay Kumar Yadav, Ph.D. (I.I.T. Kharagpur)
D. Chakradhar, Ph.D., (NIT Warangal) resigned from 18.7.2018
Jeyaraj P, Ph.D., (IIT Madras)
Hemantha Kumar, Ph.D., (IIT, Madras)
Ramesh M.R, Ph.D., (IIT, Roorkee)
Sathyabhama A., Ph.D., (NITK)
Srikamath Bontha, Ph.D. (Wright State)
Arun M, Ph.D. (University of Greenwich, London, UK)
Anish S, Ph.D. (IIT, Madras)
Mrityunjay R. Doddamani, Ph.D. (NITK, Surathkal)
N. Gnanasekaran, Ph.D. (IIT, Madras)
Arumuga Perumal D, Ph.D. (IIT Guwahati)
Somasekhara Rao Todeti, Ph.D., (IISc Bangalore) (contractual)

Department of Mining Engineering Professors:

V. Rama Sastry, Ph.D. (B.H.U. Varanasi) HOD from 22.8.2017
C.H. Suryanarayana Murthy, Ph.D. (IIT Kharagpur)
M. Govinda Raj, Ph.D. (Mangalore University) HOD till 21.08.2018

Associate Professor:

Harsha Vardhan, Ph.D. (Indian School of Mines Dhanbad)
M. Aruna, Ph.D. (University of Dhanbad)

Assistant Professor:

K. Ramachander, Ph.D. (NITK)
Anup Kumar Tripathi, Ph.D. (University of Kentucky, Lexington, USA)
Ram Prasad Choudhary, Ph.D. (JNU, Jodhpur) on lien to JNU University from 24.11.2017
Bijay Mihir Kunar, Ph.D. (IIT, Kharagpur)

Department Of Metallurgical & Materials Engineering

Professors:

K. Rajendra Udupa, Ph.D. (I.I.Sc. Bangalore)
A.O. Surendranathan, Ph.D. (Mangalore University)
K. Narayana Prabhu, Ph.D. (Mangalore Univ.)
Jagannatha Nayak, Ph.D. (NITK)

Associate Professor:

Udaya Bhat, Ph.D. (I.I.Sc., Bangalore)
HOD till 19.04.2018
Anandan Srinivasan, Ph.D. (I.I.T., Kharagpur) HOD from 20.4.2018
Kumkum Banerjee, Ph.D. (IIT Kharagpur)

Assistant Professor:

Shashi Bhushan Arya, Ph.D. (IIT, Bombay)
Ravishankar K.S., Ph.D. (NITK)
Mohammad Rizwanur Rahman, Ph.D., (Keio University, Japan)
Subray R. Hegde, Ph.D. (University of Canada)
Preetham Kumar G V, Ph.D. (IIT, Madras)
Saumen Mandal, Ph.D. (IIT, Kanpur) from 27.4.2015 (contractual)

Department of Physics Professors:

Kasturi V Bangera, Ph.D. (Mangalore Univ.)
H.D. Shashikala Ph.D (Osmania Univ.)
Udayashankar N.K., Ph.D. (I.I.Sc. Bangalore)

Associate Professor:

M.N. Satyanarayan, Ph.D. (I.I.Sc., Bangalore) HOD from 11.08.2016

Assistant Professors:

Nagaraj H.S., Ph.D. (Mangalore University)
Ajith K. Madam, Ph.D. (University of Hyderabad)
Partha Pratim Das, Ph.D. (University of Cineinnati Elec Engg.)
Deepak Vaid, Ph.D. (USA)

T. K. Shajahan, Ph.D. (IISC, Bangalore)
Kartick Tarafder, Ph.D. (Jadavpur University)

ADMINISTRATIVE AND OTHER STAFF

Registrar:

Ravindranath K., M.A. (Mangalore University)

Deputy Registrar (Accounts):

Ram Mohan Y, M.Com. (Mysore), LL.B. (Mangalore University)

Assistant Registrars

Kamlabh Kumar Singh, (M.Sc., M.S., MBA)
Soumen Karmakar, (MBA)
Bansod Pritam Ramesh, (M.Com, MBA)
Gaurav Chowdhury, (MBA)
Priyanka Dattanand Amadalli, (M.Sc.) from 15.12.2017

Resident Engineer i/c:

Goankar, Ph.D. from 1.9.2015 till 31.8.2017
Sunil B M, Ph.D., from 1.9.2017
Executive Engineer (Electrical) Sri. Mohammad Firoz Khaza from 15.1.2018

Resident Medical Officers:

Dr. B. Srimathi, M.B.B.S. (Mysore Univ.)

Medical Officer:

Dr. M.L. Balabhaskara

Professor Incharge Hostel Affairs:

Vasudeva M, Ph.D. till 17.1.2017
A C Hegde, Ph.D. from 18.1.2017

NITK ENGG. COY N.C.C. Officer Commanding:

Col. MG HS Rajan

Associated NCC Officer Incharge (ANO):

P Sam Johnson, Ph.D.
Shivananda Nayak, Ph.D.
Professor Incharge (Security)

P Sam Johnson, Ph.D. from 23.5.2016

Security Officer:

Manohar Karanth

Chief Vigilance Officer:

K Rajendra Udupa, Ph.D. till 16.7.2018

Dr. K C Chandrasekaran, Ph.D. from 17.7.2017

Central Public Information Officer

(CPIO):

K. Ravindranath, Registrar, till

15.3.2018

Soumen Karmakar from 16.3.2018

OTHER SECTIONS

**Department of Training & Placement
Professor:**

Lakshman N, Ph.D. till 30.4.2018

Vijay Desai, Ph.D. from 1.5.2018

**Industry Institute Partnership Cell
Professor I/c.:**

S M Kulkarni, Ph.D.

SC/ST Cell

P E Jagadeesh Babu, Ph.D. from 16.6.2016

OBC Cell

P C Deka, Ph.D. 16.2.2018

**Assistant Physical Director (Sr.
Scale):**

A. Shivaram, M.P.Ed. (Mangalore Univ.)
(I/c. Physical Director)

SAS Officer:

Hem Prasad Nath, Ph.D. (Nagpur
University)

Manoj Kumar, Ph.D. (Techno Global
University)

Librarian:

Mallikarjuna Agadi, Ph.D. (Gulbarga
University) from 16.2.2018

Asst. Librarian

Anasuya Chakari, M.A. M.Lib.Sc.
(Karnataka University) Librarian
Incharge

Iranna M Shettar (M.Lisc. M. Phil)

**Central Computer Centre
Chairman / System Manager:**

S S Kamath, Ph.D.

System Manager

P G Mohanan, M.Tech. (Cochin
University)

Senior Scientific Officer:

Vijayakumar Ghode, M.Tech.

**NITK - Science & Technology
Entrepreneurs' Park**

OSD :-

K B Kiran, Ph.D. till 28.1.2018

G Srinikethan, Ph.D. from 29.1.2018

R&D Centre on Roofing Tiles

Faculty incharge – Dean (R&C)

**Centre for Continuing Education
Chairman**

Shrikantha Rao, Ph.D. from 8.7.2016

**Dakshina Kannada Nirmithi Kendra
Cordinator:**

K.S Babu Narayan, Ph.D.

Project Manager:

Kalbavi Rajendra Rao, B.E. (Mangalore
Univ.)

NON-ACADEMIC STAFF (NON-TEACHING) as on 31.3.2017

Sl. No	Name of the Posts	In Position as on 31-03-2018
1	Registrar	1
2	Librarian	1
3	Dy. Registrar (A/C's)	1
4	Asst. Registrar (Admin)	1
5	Asst.Registrar (Accounts)	1
6	Asst.Registrar (Academic)	2
7	Asst.Registrar (Purchase)	1
8	Assistant Librarian	2
9	SAS Officer	2
10	Senior Scientific Officer	1
11	Medical Officer	2
12	Security Officer	1
13	Executive Engineer	1
14	Senior Superintendent	1
15	Superintendent	2
16	Senior Secretary	1
17	Assistant (SG -I)	7
18	Assistant (SG -II)	1
19	Senior Assistant	27
20	Junior Assistant	15
21	Stenographer (SG - II)	3
22	Senior Stenographer	1
23	Assistant Engineer (SG-1)	2
24	Assistant Engineer (SG-II)	15

25	Senior Technical Assistant	6
26	Assistant Engineer	12
27	Technical Assistant	4
28	Technical Assistant (SG-II)	1
29	Technician (SG-II)	3
30	Senior Technician	7
31	Senior Work Assistant	1
32	Technician	2
33	Work Assistant	3
34	Senior Attendant	5
35	Attendant	30
	Total	166

11.FACILITIES/AMENITIES

11.1 Hostels

The Institute reopened on 26-07-2017 for under-graduate and Post- graduate s per Academic Calendar for the year 2017-2018. All the students including foreign students are accommodated in the hostels as per the following details:

Total number of boys hostel = 11
 Total number of girls hostel = 05
 Total number of Rooms for boys = 2674
 Total number of rooms for girls = 784

Block	No. of Students	No. of Rooms
1 st Block	228	84
2 nd Block	231	84
3 rd Block	260	132
4 th Block	251	132
5 th Block	248	256
PG Block	422	150
7 th Block	357	162
8 th Block	201	162
Mega Tower 1	498	504
Mega Tower 2	490	504
Mega Tower 3	502	504
GH 1 st Block	68	34
GH 3 rd Block	452	153
GH 4 th Block	275	323
GH 5 th Block	258	258
MS Block	52	16
Total	4793 (B-3688, G-1105)	3548

There are 10 messes operating in various hostel blocks to cater the needs of inmates. Out of which one vegetarian and one non vegetarian messes are running in girl's hostel and 6 vegetarian messes and two non-veg messes are running in boy's hostel. All the messes are provided with necessary infrastructure to cater to the different food habits of the students drawn from various parts of the country.

Total number of messes

Name of the Mess	Strength
I Block Mess	285
II Block Mess	404
IV Block Mess (Non Veg-Out Source)	513
V Block Mess (Non Veg-Out Source)	440
PG Block Mess (Out Source)	316
VII Block Mess	264
VIII Block Mess (Out Source)	502
Mega Block Mess (Out Source)	648
GH I block Mess ,Ground Floor (Out Source)	494
GH II block Mess , First Floor (Out Source)	483

The messes are managed by the active participation of the Student mess managers in preparation of the menu and other issues related to the management of the messes. Monthly mess bill accounts were audited by verifying the mess cards, stock sheets, cash and credit guest registers, purchase registers, mess membership issue register, mess bill calculation registers, petty cash book with vouchers and other records connected with monthly mess bill. Rationalization method was adopted to avoid the rate difference problem of various messes

Total mess membership varies in every month. Out of the 10 messes IV Block mess, V block mess, VIII block mess, PG block mess, Mega Hostel Mess and Girls hostel messes are managed by the contractors.

Reading Room Committee

Reading room in the Hostel is managed by a separate elected students committee. The reading room committee organized CRRESCENDO 2017-18 during March 23-25, 2018 in a grand manner.

Recreation committee

The Recreation Committee constituted by election, looks after the sports activities of the residents of the hostels and provides indoor game facilities. The recreation committee organized Fresher's Cup, flood lights Tournament, Inter Branch Tournament, Phoenix tournaments during October 2017-April 2018.

Overall Reading Room and Recreation committee have done their job in a commendable manner. The Cable TV facility existing in the campus has been extended to all the hostels. All the Hostel Rooms (Boys and Girls) have connected with Internet facilities.

Mess Concession

Mess Concession is offered to students (Hostellers), who need financial assistance to continue their studies in the Institute during ODD and Even semester. The fund raised by contribution from the hostellers i.e `10/- per semester along with hostel mess fees. The concessions are granted based on the information furnished by the individual applicants in the prescribed applications, which if found to be incorrect, at a later date would be cancelled and withdrawn retrospectively. The mess concession grantee must be regular in attendance and show improvements in his academic performance. The amount granted above will be credited to the mess bill account of the respective student by means of

adjustment entry and will not be paid by cash.

Several festivals like Holi, Diwali and Ganesh Chaturthi celebrated by hostellers, through the fund is raised by contribution i.e `40/- from the hostellers. New Year- 2018 is first time celebrated by the students in this academic year.

During the Hostel day celebration various sports and games are conducting for mess workers. Best Kept Room for Hostellers and Best Kept Mess is also awarded on this occasion.

During the year under report, Medical Relief to the tune of Rs. **1,30,687/-** has been sanctioned to students of the hostel blocks as per the recommendation of the Block Warden and Institute Resident Medical Officers, for their hospitalization in nearby Surathkal/Mangalore hospitals for treatment. This amount is met out of the fund created under "Self Sustaining Medicare Scheme" which is created by collecting Rs.35/- per student per semester.

Students advisory Committee is formed in each block for effective- interaction between the Wardens and students. To improve the accounting process, computerization of accounts have already been initiated. To receive feedbacks related to messes online feedback system is initiated. For maintenance related issues an online room condition form and online complaint registration system is initiated. All the accounts of the hostels are duly audited by a Chartered Accountant.

Prof. A. Chitharanjan Hegde is working as a Professor in-charge Hostel Affairs NITK Hostels.

Presently, the following faculty members are rendering their services as wardens

in different Hostel Blocks as mentioned against their names:

Harsha Vardhan, Ph.D.	Warden (Finance)
Vasudeva M, Ph.D.	Warden (Finance)
S Pavan Kumar, Ph.D.	Warden, I Hostel Block
Kartick Tarafder, Ph.D.	Warden, II Hostel Block
C. Rajasekaran, Ph.D.	Warden, III Hostel Block
Subhaschandra Kattimani,	Warden, IV Hostel Block
Sharanappa Joladarashi, Ph.D.	Warden, V Hostel Block
Debabrata Karmakar, Ph.D.	Warden, PG Hostel Block
Satyanarayana Engu, Ph.D.	Warden, PG Hostel Block
Saumen Mondal, Ph.D.	Warden, VII Hostel Block
Pushparaj Shetty D, Ph.D.	Warden, VIII Hostel Block
V Murugan, Ph.D.	Warden, VIII Hostel Block
Debashisha Jena, Ph.D.	Warden, Mega Hostel Tower II
Shashidhar G Koolagudi, Ph.D.	Warden, Mega Hostel Tower II
Shashibhushan Arya, Ph.D.	Warden, Mega Hostel Tower III
Darshak R Trivedi, Ph.D.	Warden, Mega Hostel Tower III
Raviraj H Mulangi, Ph.D.	Warden, Mega Hostel Tower I
Mrityunjay Doddamani, Ph.D.	Warden, Mega Hostel Tower I
(Mrs) C.P. Devatha, Ph.D.	Warden, Girls Hostel IV Block

(Mrs.)A Sathyabhama, Ph.D.	Warden, Girls Hostel I & II Block
Dr. (Mrs.) Suprabha K R.	Warden, Girls Hostel III Block
Dr. (Mrs.) Savita Bhat	Warden, Girls Hostel III Block
Dr. Paresh Chandra Dekka	Warden, Mess Quality Control
Bibhuti Bhusan Das	Warden, Maintenance

Prof. Dr. Karanam Uma Maheshwar Rao, Director is Ex-officio President of NITKS Hostels. He being the President For hostels will be giving guidance to the Council of Wardens time to time for the smooth administration and functioning of the hostel activities.

11.2 CENTRAL COMPUTER

CCC has contributed in designing, building and maintaining an IT infrastructure for the Institute adequate to the academic needs, by providing quality IT services to support teaching, learning, research and innovations. CCC maintains the campus network backbone connectivity and internet connections on 24x7 basis. The CCC occupies the building opposite to the Silver Jubilee Auditorium. CCC was established in 1995 as a service providing/supporting facility that augments to the computing facilities in the teaching departments.

CCC is currently headed by Dr Shyam S Kamath (Dept of M A C S). CCC has the following permanent staff associated to it. One Systems Manager, One Senior Scientific Officer, One Assistant Engineer (SG1), Two Assistant Engineers (SG2), Two Assistant Engineers, One Technician (SGII) and One Junior Assistant. CCC also has an Office Clerk, 2 Helpers, One Sweeper and One House Keeper working on contract basis.

Chairman, CCC seeks the guidance of the CCA Committee in important decisions.

NITK has a Campus wide LAN reaching academic buildings, residences and hostel rooms through wired and wireless networks. The campus backbone services are provided with about 20 kms of 12 core OFC using 1 Gbps and 10 Gbps backbone to the different buildings and broad band to the residences. Departments, Residences (through the broadband), Directorate (and administrative net), Guest houses and Hostels are individually connected to the core switch. The hostel networks are integrated into the academic network of NITK sharing the Internet bandwidth of the Institute.

The first stage of the campus network was done in 1999 and the second stage of expansion was done in 2006 with

the TEQIP funds. The Third Stage including Core Network Expansion and the Campus WiFi is completed in 2016 at a total cost of about Rs 6.78 crores. The expanded network including the Core Switches, Firewall, Backbone switches and the Campus Wi-Fi equipments are under warranty and maintenance of BSNL for 5 years. The Wi-Fi network is provided as an extension of the wired networks in the different buildings. The WiFi expansion is carried out with 744 Ruckus R500 Indoor access points, 40 Ruckus T300 Outdoor access points, 5 Ruckus H500 wall switches, 89 Netgear 24 port 10/100/1000Mbps PoE switch with 4 SFP ports and other active and passive network components.

All bonafide Universities of the nation are being given OFC based 1Gbps connectivity to NKN-PoP (National Knowledge Network Point of Presence) under NME-ICT (National Mission on Education through ICT). This includes University level institutions and NITK is one among them. On 26--08--2010, the network switches of NITK were reconfigured for commissioning the 1 Gbps line that has come to NITK Surathkal under this scheme. From 27--8--2010 onwards, this line is in use by the academic area and also the hostels. However, from 03--04--2012 onwards, this line has become a part of the National Knowledge Network which is designed to support advanced applications in areas such as Health, Education, Science & Technology, Grid Computing, Bioinformatics, Agriculture, and Governance. For General purpose Internet access, the available bandwidth was inadequate for a community of about 7000+ heavy users including the faculty, students and staff. In order to meet the demands of the users, an additional bandwidth of 1 Gbps is procured from BSNL at an annual cost of Rs 82.46 lakhs.

The NITK Data centre housed in the CCC Ground Floor acts as an integration hub of OFC/backbone. It houses Internet connections to BSNL & NKN, associated networking

equipments and sufficient hardware to handle the critical backbone network services.

Data Centre is upgraded with the following equipments

- Virtual Cluster Switch: This consists of two Brocade VDX 8770-8 (each with 48x 10G SFP+, 48 x 10G copper and 12x 40G QSFP) and one Brocade VDX 6740T-56-1G-F server farm switch
- 23 Nos. of Brocade ICX7250-48-2X10G and 8 Nos. of Brocade ICX7250-24-2X10G as building backbones with 10G uplinks to the core switch
- Two Nos. of Sophos XG750 firewalls in HA mode with VPN facility.
- Campus Wi-Fi Controller- Ruckus SmartZone 100

Main servers are connected to the data centre network. Critical services are accessible from inside and outside the network. CCC Uses Virtualisation with Blade Servers with VMWare, Dell Servers with Proxmox virtualisation environment/Ubuntu System containerisation environment.

NITK Website updations are entrusted with the CCC apart from the webserver maintenance. The domains of NITK (*nitk.ac.in* and *nitk.edu.in*) are also controlled by CCC.

CCC hosts the MatLAB license server for the entire Campus Network.

Apart from these, the Ground Floor of CCC houses (i) The HPC cluster being installed and commissioned and (ii) The 150 Node Skill Development Centre established by the NITK Alumni. The first floor hall of CCC with about 90 Desktop computers is available for general purpose computing & browsing. The computers of CCC are used to support First year Computational Practice Labs, General Purpose Learning & Internet access, On-Line tests (Training & Placement) & Various co-curricular and other student activities.

The network infrastructure facility management of NITK is outsourced. Comprehensive onsite AMC is

available for the Network switches. There is a helpdesk number 0824 2473085. There is also a rate contract with the firm to facilitate any immediate need of network alterations within a limit. The process of identifying the Facility Manager is underway.

The facility has a 200KVA Diesel generator that was established in 1994 and two 20KVA and one 15 KVA online UPS systems procured later for providing backup power during the changeover. Two 15 KVA UPS systems provide the power backup to the CCC LAN. This is being reassessed to accommodate the needs of the HPC Cluster, Skill Developed Centre and the New devices of the Data Centre.

Infrastructure Development

- Expansion to the Network and Campus WiFi is completed in 2016 at a total cost of about Rs 6.78 crores.
- The Wi-Fi network is provided as an extension of the wired networks in the different buildings. The WiFi expansion is carried out with 744 Ruckus R500 Indoor access points, 40 Ruckus T300 Outdoor access points, 5 Ruckus H500 wall switches, 89 Netgear 24 port 10/100/1000Mbps PoE switch with 4 SFP ports and other active and passive network components.
- For General purpose Internet access, to meet the demands of the users, an additional bandwidth of 1 Gbps is procured from BSNL at an annual cost of Rs 82.46 lakhs.
- Data Centre is upgraded with the following equipments
 - a) Virtual Cluster Switch: This consists of two Brocade VDX 8770-8 (each with 48x 10G SFP+, 48 x 10G copper and 12x 40G QSFP) and one Brocade VDX 6740T-56-1G-F server farm switch
 - b) 2X10G and 8 Nos. of Brocade ICX7250-24-2X10G as building

backbones with 10G uplinks to the core switch

- c) Two Nos. of Sophos XG750 firewalls in HA mode with VPN Facility.
- d) Campus Wi-Fi Controller Ruckus SmartZone 100

The expanded network including the Core Switches, Firewall, Backbone switches and the Campus Wi-Fi equipments are under warranty and maintenance of BSNL for 5 years. An HPC cluster is installed in the CCC Premises. This is connected to the core network and available to the entire Campus Network.

Notable Achievements during the year

- Upgrading the Academic Backbone to 10Gbps
- Expanding the Campus WiFi and Upgraded Core Network
- Establishing the HPC Cluster
- Webservers Procurement
- Zimbra based Email services (@nitk.ac.in)
- Upgrading the servers

Additions to the Building Infrastructure

- i. Expansion of the area of the Data Centre and relocation of Precision ACs for the Data Centre
- ii. All UPS s moved to a single location to make the maintenance easier
- iii. Re organisation of the First Floor Lab
- iv. Reassessment and Improvement on the Power Backup and Air conditioning.

List of Laboratories in the Department

- 1. CCC LAN with 90 Desktops
- 2. Skill Development Centre with 150 Thin clients supported by a Server for Virtual Desktop
- 3. HPC Cluster made available to all
- 4. General Purpose Servers in the Data Centre and Virtual Servers on demand.

11.3 LIBRARY

The Institute has a modern Central Library and continues to offer automated library services to its clientele. This Library functions as an important and vital component of the Institute information systems. Located centrally in the main building area of the Campus and it can accommodate more than 500 students/users at a time. The collection of books is 1,34,290 including Book-Bank books, online e-Books subscribes 249 print journals for all the disciplines. We have access to 8000 plus online Journals through INDEST. This year we have purchased 410 online full text journals from Taylor & Francis Database Vendors. The total area is 2758.56sq.meters including the extended floors as an additional space for reading hall. The Central Library has received “**Highest User Award for IEL online (IEE Explore)**” in 2014 amongst INDEST-AICTE Consortium Level 2 member’s category

Library space and ambience, timings and usage, availability of a qualified librarian and other staff, library automation, online access, networking, etc.

Carpet area of library (in m2)	2758.56sqm.
Reading space (in m2)	1800
Number of seats in reading space	500
Number of users (issue book) per day	600
Number of users (reading space) per day	1000

Timings: During working day, weekend, and vacaton	Monday to Saturday 8.00 a.m. to 12.00 midnight Sunday: 8.00 a.m.to 4.00 p.m. General Holidays: 9.00 a.m. to 12.00 noon and vacation 8.45 a.m. to 5.30 p.m.
Number of library staff	14
Number of library staff with degree in Library	3
Management Computerization for search, indexing, issue/return records Bar coding used	YES

1. Genesis and Growth:

NITK Central Library established in the year 1960 is provided with modern facilities and offers automated library services to its clientele comprising of about 6000 users namely undergraduate and postgraduate students, research scholars, faculty members and supporting staff of various departments of the institute. NITK library also gives the facility of institution membership to educational institutes and industries located in and around Mangalore. This Library is located in an independent building with a carpet area of 2759 sq meters in the centre of the Campus and it can accommodate more than 500 students/users at a time. At present, the library has a collection of around 1,34,290 books besides subscribing to around 249 National and International Print Journals.

2. Infrastructure:

The Central Library has Wi-Fi connectivity with more 25 personal computers in Digital Library section. The Library day-to-day operations are automated and issue and return of all

the books are done through computers. The computer terminals provided at the counter near entrance and can be used to gain information regarding status of any document and other particulars of any book/collection. The Library activities have been computerized using the LIBSYS software. A bar coded system of issue and returning books is currently in use.

3. Library Automation Programme:

The Library Automation Programme is completed. The details of books available in this Library are stored in the computer. The information about the document can be retrieved in the Library. User can search the book by Author, Title, and Call Nos. or by part of the title and subject. Circulation of books is computerized and circulation is done by BARCODE System. LIBSYS Library Automation software was introduced in October 1998. At present 12 terminals are on use for Students and Staff. To access the information, we are using Libsys Version 7. Up-to-date information about Books, Periodicals, and Back Volumes of periodicals are available on OPAC in the computer. All computers are under LAN System.

4. On-line Services:

Library is a member of "Indian National Digital Library in Science and Technology (INDEST)". It provides full text resources like IEL online, Science Direct, Springer Verlag, Nature, Indian Standards of all branches of Engineering, Engineering index etc.

Member of DELNET (Developing Library Network). It provides resource sharing among member libraries and inter library loan facility.

Library is a member of NIT – Consortium. It subscribes full text resources of Science Direct, IEL online, Springer Verlag, ACM, ASTM

Journals, Taylor & Francis ,etc. e-journals.

5. Digital Library:

A separate “Digital Library” unit has been established under funding from TEQIP Phase-I with resources being shared with other NIT’s, IIT’s and industries. The Digital Library is exclusively used for the online access of E-Journals and other E-Resources provided by the Indian National Digital Library in Engineering Science and Technology Consortium (INDEST-AICTE consortium).

Some of the services available in the Digital Library are:

- ❖ Collection and Development of Library materials in Digital Form.
- ❖ On-line search for books using on-line public access catalogue (OPAC).
- ❖ On-line Electronic Journal Access through INDEST consortium.
- ❖ CD ROM server with reference materials like Encyclopedias, Engineering Index, Hand books.
- ❖ Technical reports of Bureau of Indian Standard (BIS) in Digital Form.
- ❖ E-printing of Research publications of the Institute.
- ❖ Online Access (LINKS) to other Libraries (IITs NITs DELNET, etc.).
- ❖ Suitable infrastructures to use the digital sources of information.
- ❖ INTRANET and INTERNET Service
- ❖ Online eBooks

6. Book-Bank:

General Book-Bank for all students consists of multiple copies of textbooks. The books are lent to all students for home reading for 30 days. Every year multiple copies are added to the Book-Bank. In addition to this, there is a separate Book-Bank facility for SC/ST students also. There are 30,049 books available in all branches in Book-Banks of this Library. Automation of Book-Bank book is completed and the circulation of books is being done by using BARCODE System.

Special collection for SC/ST students - Students can borrow up to 5 books from Book-Bank for a period of one semester. The Library issues a circular in the beginning of every semester and the eligible students may apply to avail as per the schedule announced by the Library.

The following facilities have already been introduced in the Library:

- Library Automation Programme
- CD-ROM and Online Service
- Reprographic Units
- Digital Library
- Book-Bank
- Networking of Library Services
- Link other libraries (NIT, IIT libraries)
- Member of DELNET and INDEST
- Internet Services

Borrowing Privileges and Renewal:

User Types	Items	Period of loan
Teaching Faculty	15 books	1 semester
Research Scholars	5 books	1 semester
UG/PG students	6 books	15 days
Supporting Staff	4 books	30 days
Industries	5 books	30 days

Books may be renewed for further period provided no other reader has reserved for the book. The renewal request should come, before the expiry of due date. No more than three consecutive renewals shall be allowed. Librarian in the interest of the library service can demand the return of any library materials from any user before expiring the due date. Students have to return the books on or before the due date. A fine of Rs.0.50 per book per day will be levied, if the books are not returned within the expiry date.

Services provided by the Library:

- Open Access System
- New arrivals list
- News paper clipping display

- Selective dissemination of information and current awareness service (SDI and CAS)
- Book-Bank facility
- Digital Library
- Inter library loan of books
- Reprographic services
- On-line public access catalogues
- CD-Rom data base access
- Compilation of bibliography on selected topics
- Practical and Apprenticeship training for diploma and degree student of Library and Information Science
- On-Line information retrieval through DELNET
- E-journals through INDEST Consortium.

Other Activities:

For fresher of U.G. and P.G. courses, Library conducted orientation classes in the beginning of the academic year.

The Library is publishing list of “New Arrivals” Bimonthly & sending the same to all Faculty members through e-mail.

The Library provides practical training to the Diploma students of Library Science from the Government Polytechnic for Women, Mangalore and Apprentice Training programme is also conducting.

Library is also providing the SDI Service (Selective Dissemination of Information) on the various on-going Research Projects sponsored by the NITK, D.S.T., C.S.I.R. and other Research Organization etc. Under-Graduates, Post-Graduates and Research Scholars are also making use of these services for their project works. Seminars and Information Retrieval Services by using Computer.

Services to Industries, Educational Institutions, Government, Establishments, the neighboring Govt. Departments, Educational Institutions and Industries are using this Library services quite often.

Membership fee of Rs.10.000/- (5 cards) introduced to the industries and several industries are members to this Library.

The Library has an Inter Library Loan facility with leading Institutions and G.O.I. Establishment.

Member of National Information Center for Machine Tools and Production Engineering (NICMAP), CMTI, Bangalore.

The Central Library is a member of “Indian National Digital Library in Science and Technology” (INDEST). It provides full text resource like IEL online, Science Direct, Springer Link, Indian Standards of all branches of Engineering, Engineering index etc.

The Central Library is a member of NIT-Consortium. It subscribes full text resources of Taylor & Francis e-journals.

Research Publications

Dr. Mallikarjun Angadi, Librarian

Conference (International)

Title of paper	Conference Name, Place, Dates, Page Nos.	Author(s)
Potential Roles and Applications of in Thesauri in Digital Information Retrieval Systems	Proceedings of the IEEE International Symposium on Emerging Trends and Technologies in Libraries and Information Services, Bennett University, Noida, 21-23 February, 2018 p.24-27	Sanjeev K Sunny and Mallikarjun Angadi

Mr. Iranna M. Shettar, Assistant Librarian

Conference (National)

Title of paper	Conference Name, Place, Dates, Page Nos.	Author(s)
Quick Response (QR) Codes in Libraries: Case study on the use of QR codes in the Central Library, NITK	National Conference on "PROFESSIONALISM IN LIBRARY AND INFORMATION SERVICES FOR USER EMPOWERMENT: OPPORTUNITIES AND CHALLENGES"(PROFUSE 2017) At: Mangalore University, Mangalore, April 27 - 28, 2017, pp. 144-151	Iranna M. Shettar

Conference (International)

Title of paper	Conference Name, Place, Dates, Page Nos.	Author(s)
Curtailing the Challenges Faced in Digital Society: A Success Story of Library and Publisher Collaboration for Promoting Electronic Resources	ICoASL 2017: International Conference of Asian Special Libraries 2017 at UIN Sunan Kalijaga Yogyakarta Indonesia, 10-12 May 2017, pp. 477-483	Iranna M. Shettar; Dhanukumar Pattanashe tti

11.4 LABORATORIES

DEPARTMENT OF APPLIED MECHANICS AND HYDRAULICS

Hydraulics Laboratory:- Flow Measuring Units Pumps, Water meters, Calibration Devices Hydraulic Machines, Pressure Gauges Valves, Tilting flume, Pipe bursting unit Ultrasound flow meter, Basic Hydrology Unit

Strength of Materials Laboratory :
U.T.M 5 T, 40 T, 100 T, 200 T (Electronic), Hardness Testing M/c, - Torsion Testing M/c

Marine – Geotechnical Laboratory
:Triaxial Apparatus, Marine Soil Investigation, Consolidation Apparatus, Direct Shear Apparatus, Photo Elastic Bench, Corrosion Measurement Voltage system

Wave Mechanics Laboratory :- Regular Wave Flume [50 X 0.71 X 1.1 m] – 2 No.s, Digital Storage Oscilloscope with software, Wave probe with software, Total station

Hydraulic measurement Laboratory :- Ultrasonic Testing Kit, Pen Type pH meter, TDS meter, Electronic Balance, Conductivity meter, Turbidity meter, Spectrophotometer.

Remote Sensing & GIS Laboratory:
Computer systems : 20 No.s, Printer, scanner Procom -II, Stereoscopes, Ground truth Radiometer, Digital Planimeters, Aerial & Satellite Photographs, ARCPAD GPS, Garmen GPS Softwares : ERDAS- Imagine, PC ARCINFO Master Lab. Kit , Geomedia Professional. Ground water Modelling Software, Water Management Softwar Bentley Water Gems ENVI 5.4 software Distance measurement equipment

Computer Laboratory :

- Computer systems : 15 No.s
- Mike 21 software
- Scanner, Laser printer
- SVSS Software

DEPARTMENT OF CHEMICAL ENGINEERING:-

Testing Lab : Digital pH meter, Vacuum pump Oil free portable, Flame Photometer, Tinto meter, Turbid meter, Vacuum oven, Hot air oven 3'x3'x2', C.O.D. Digester – Hach, Brook Field Viscometer, Distillation Unit - Automatic Cabinet water still, Flue Gas Analyser, Gas Chromatograph, Trinocular microscope cipra, Balance – electronic, Bomb calorimeter, Conductivity meter, Spectro photometer, B.O.D. incubator, C.O.D. Digestion apparatus, Laminar flow chamber, Noise Level Meter, Hach Sension 156 (pH, D.O., Conductivity), YSI Sension 156 (pH, D.O., Conductivity), Eutech Sension 156 (pH, D.O., Conductivity), Multi parametar (Hach Tifac), Water Purification ultra SYS

Project Lab I : Refrigerated Centrifuge, Digital pH meter, Rotary shaker –Lead, Ultra Sonic water Bath, Quartz Immersion well Reactor, Muffle furnace Digital, Peristaltic pump Ultra, Ultrasonic Sonicator, Electro Spinning equipment, UV Ozone Cleaner, Online UPS 5KVA

PROJECT I A : Continuous homogeniser & homogeniser, Ultra Sonicator, Dosage Pump

Mass Transfer Lab : Balance - triple beam, Electric oven - with forced air supply, Vacuum pump Oil free portable, Orbital Shaker ISK 300, Autoclave (vertical), Microwave Oven Sum sung, Rivoteck centrifuge, Micro wave Ashing System Qash 1800, Balance – electronic, Peristaltic pump, Rotary flash evaporator, Dust Track Sampler, Microwave Assisted Pyrolytic Reactor, Solar Simulator. Constant temperature bath, Gas flow meter - wet type, Pump - centrifugal -

2", Rotary shaker, Refracted heating bath, Eppendorf Centrifuge, Particle size analyser, Thermo Spectro, Low speed stirrer - Remi, Rotatory Vaccum, Gel Document, Nono Particle Analyser

Project Lab II : Bench Top Fermentor, Horizontal laminar flow work station, Gel document, Refracted heating bath, Thermo spectro photo meter, Eppendorf centrifuge, Particle Size Analyser

COMPUTER LAB: Hot Air Oven, Pressure gauge tester, Microscope Camera, High Pressure high temperature gas liquid phase, Incubator - shaker Lead, Fire extinguisher CO2, Microprocessor – trainer, BOD Incubator, Air Pre heater, Pyrolytic Reactor

Project Lab III: Deep Freezer, Programme Temperature Control System, Freez Dryer, Centrifuge, Hitachi spec Uv solid sampler attached to Hitachi, Minispin centrifuge, Micro scope, Analytical Weighing Balance Wensar, Eppendroff centrifuge

HEAT TRANSFER LAB: Air compressor - TS07120HN / 220lit, Pump - vacuum - rotary vane type, Eddy current drive with motor & accessories, PM 2.5 Fine Dust Sampler, Hydraulic compression testing machine, Reducing valve, Jacketed vessels, High volume sampler, ENVOIR TECH 460 BL, Portable gas sampler, Plate heat exchanger, Stack monitoring kit, Fluidized Bed Combustor (IIT Madras), Deep Freezer.

PROJECT LAB IV : Electric oven - with forced air supply, Ultra Sonic water bath, Auto clave with Teflon liner, Balance - electronic Shimadzu, RCT Basic safety Control Magnetic stirrer, Stirred Cell Membrane Unit, U V Irradiated membrane filtration Unit.

PROJECT LAB V DG ROOM: Flash point apparatus, Viscometer - (Redwood & say bolt), Eddy current drive with motor & accessories, Ozone Generator-L4g, Conductivity Meter – Matrix, Jacketed vessels, Generator - 10 KVA, Ozone Monitor/TLA

BIOTECH LAB : Laboratory Centrifuge, Digital pH meter, Electric oven - with forced air supply, Digital Refractometer RX5000 (S/N 107209), Orbital shaker Scigenics, Hi-Anaerobic system, Autoclave (vertical), Compound Microscope, Do Probe & Do Transmitter, Microwave Oven-Samsung, Lyophilizer, Gel Electrophoresis, Continuous Homogenizer & Homogenizer (ultra), Lab Bioreactor with variable Volume Fixtures, Brook Field Viscometer, Tangentail Flow Filtration with ultra Filtration Module, Temp Controlled Digital Density Meter, Static Mixture, Balance - electronic Essae treroka, Spectro photometer ,Labomed, Incubator - shaker, Horizontal laminar flow work station, Vibracell ultrasonic processor, Electronic balance(model BT 2202S, BT 224S), Vacum pressure cum kit, Nano drop spectrophotometer, Vortex Mixture, Water Purification ultra SYS, RCT Basic safety Control Magnetic stirrer, Cryostat bath, Karl fischer titrator, Refrigerator whirl pool, Analytical Weighing Balance Wensar.

PROJECT LAB V : Air compressor - SC-150, Elgi Centrifuge, Digital pH meter Cyber scan Tutor-Ds, Electric oven, Furnace - muffle – rectangular, Turbidimeter, Eppendorf Centrifuge, Refrigerated Heating Bath Circulator, Surface tensio meter, Dosing Pump with Pump Head, Membrane testing System, Refrigerated Water Bath with circulating pump, Rotary high vacuum pump, Reducing valve, Peristaltic pump, Conductivity meter – Eutech, Low speed stirrer - Remi, Incubator - shaker Lead, Bead Mill, Vortex Mixer, Distillation Unit, rotating disc counter, Continuous membrane filtration unit, Ice Flaker.

DST - FIST LABORATORY: GEL Documentation, TG-DTA 6300(Thermo gravimetric Analyser, HPLC, ELS II Detector HPLC, LC -MS Systems & Accessories, ICP –OES, FPLC System

FERMENTATION LAB : Colony Counter, Hot Air Oven, Orbital shaker scigenics, Autoclave (vertical), Co2 Incubator, Microwave Oven-LG, Axiva

mini centrifuge, Microwave Digestion System, Fermenter – Bioform, Muffle furnace with programmable Temp Controller, Trinocular microscope – Metzer, Incubator - shaker Biochem, High speed cooling centrifuge – Remi, Freeze dryer DC55A, Fraction collector – automatic, Incubator Bacteriological (IPC), Deep freezer +(1 No Stabilizer), Muffle furnace, Low speed centrifuge 5ml/15ml, C.O.D Analyser, Peatle & Motor, Pellet Press, Slow Speed Cutting Machine, Eureka Forbes Vacuum Cleaner, ionic conductivity source meter.

ADVANCE LAB: Electrochemical Workstation, cell, C-Electrode, Gel Electrophoresis, Bio Sensor, Mini Protean Tetra cell, Trinocular microscope tifac, Balance – electronic, Spectro photometer - Labomed &1 systronics, Total organic carbon analyser, Graphite furnace and hydride generator, Milli Q Academic water purifier, GBC AAS, Electrophoresis, High Performance liquid Chromatograph, Gas chromatography-Mass spectrophotometer, Ion Chromotography, High speed refrigerated cooling centrifuge

Immunology Lab: Micro Centrifug+B302+B304:B+B304:B321, Electric oven - with forced air supply, Co2 Incubator, Micro wave oven, Plate Master TM Speed Plating, Ultra Sonic water Bath, Biological Safety Cabinet, Trinocular microscope Gangamma, Balance - electronic sami micro, Deep freezer +(1 No Stabilizer), Dry bath With Heating Block, UV Trans illuminator, High speed refrigerated cooling centrifuge, Power Pack for southern & Northern blots, Automated microplate reader, Wesern Bolt unit, Photometer for PCR Work, Polymerze Chain Reaction Machine.

Mass Transfer Lab: Liquid Extraction in Packed Bed, Vertical Tube Evaporator, Packed Distillation Column, Absorption in Packed Tower, Spray Tower, Fluidized Bed Dryer (With air circulation) Model No.MT – 18, Wetted Wall Column (with air circulation), Batch Crystallizer, Forced

Draft Tray Dryer, Diffusivity Measurement, Counter current leaching, Cross current leaching, Steam Distillation, Vapor liquid equilibrium, Surface evaporation, Liquid Extraction in Packed Bed.

PROCESS CONTROL & REACTION

ENGG: Batch reactor, RTD in tubes plug flow reactor, RTD in packed bed, RTD in CSTR, Reactor combination of PFR and CSTR, Magnet pump, Multi range conductivity meter, Digital online, Process control loop trainers, Non-inracting tank, Time constant of Pressure Vessel & mercury meter, Constant temperature bath.

HEAT TRANSFER LAB : Shell and Tube Heat Exchanger, Electrically Heated Boiler, Parallel flow / counter flow/Double pipe heat exchanger, Pool Boiling Heat Transfer Apparatus Model No.HT – 1305, Forced Convection Heat Transfer Model HT-10, Natural Convention Heat Transfer Model HT-09 (Combine), Stefan Boltzmann apparatus Model No.HT-12, Thermal conductivity of insulating Powders Model – 04, Thermal conductivity of liquids model No. HT 07, Horizontal Condenser & Vertical Condenser Steam, Heat Transfer through coils, Natural and forced convection in air, Heat Transfer through packed bed apparatus, Transient heat conduction-constant heat flux, Transient heat conduction-constant temperature, Heat Transfer through vertical barre and finned tube heat exchanger, Plate heat exchanger, Spiral plate heat exchanger, Heat losses by combined convention and radiation(for cylinder &sphere).

FLUID LAB: Flow through pipes and fittings, Flow through office meter, Flow through rotameter, Flow through fluidized bed, Flow through Packed bed, Flow through venturi meter, Flow through Notches, Flow through coils, Characteristics of a centrifugal pump, Pitot tube, Open orifice, Annulus.

PARTICULATE TECHNOLOGY

LABORATORY: Rotary high vacuum pump, Balance - electronic, Ball mill, Vacuum pump, Seive Shaking Machine,

Garden shredder, Screen effectiveness, Air permeability, Jaw crusher, Air elutriation, Batch sedimentation, Leaf filter, Drop weight crusher, Attrition mill, Jaw Crusher, Vibrator

DEPARTMENT OF CIVIL ENGINEERING

Civil Engineering Material Testing

Laboratory:-3000 kN Compression Testing Machines, Vibrating Tables, Concrete Flexure Testing Machine, Vee-Bee Test Apparatus, Rebound Hammer, Tile Testing Machine, Compaction Factor Test Apparatus, Los Angeles Abrasion Test set-up, Deep Freezers, Pelletizer,

Earthquake Engineering Laboratory:-

Accelerometers, Mini Shake Table to test Models of Beams & Buildings, Soil-Structure Interaction Study system (?) . Computational facility for seismic response simulation and dynamic soil-structure interaction studies

Environmental Engineering Laboratory:-

UV Spectrophotometer, High Volume Air Sampler, Voltametry, Gas Chromatograph, HPLC, Ion selective electrode meter, Kjeldahl nitrogen distillation apparatus, Flame Photometer

Geotechnical Laboratory:-

Tri-axial loading facility, Rock cutting facility, Nuclear Density Gauge, Permeability Test apparatus.

Transportation Engineering

Laboratory:-

50 kN and 20 kN Fatigue Testing Machines Gyrotory Compactor, Immersion Wheel Tracking Device, Modified Marshall Test Setup Pavement Core Drilling Device, Portable Pendulum Type Skid Resistance Tester, Portable Axle Load Weighing Pads, Portable Falling weight deflectometer & Ground Probing, Radar (MHRD-TAT Project), Mini ROMDAS Asphalt Mixers of Capacity 5 litre and 20 litre, capacity, Asphalt Theoretical

Density Tester, Wheel Rut Shaper and Wheel Rut Tester

Structures Laboratory:- 2000 kN-Compression Testing Machine, In-situ Ion Migration Tester, Muffle Furnace, Column Testing Machine, Vibrating Tables, Loading Frames- 2 No, RCPT Test Apparatus - 2 sets, Corrosion Monitoring Unit, Accelerated Curing Tank, Humidity and Temperature Controlled Chamber

Survey Stores:- Total Station, Auto Levels, Theodolites, Dumpy Levels

Advanced Asphalt Characterisation and Rheology Laboratory:- Modular Compact Rheometer System, Capillary Viscometer System, Brookfield Rotational Viscometer, Deep Freezing Unit, Rolling Thin Film Oven

Computer Aided Design (CAD) Laboratory:- 30 Computers, 2 No's 5KVA UPS Softwares

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING:-

SYSTEMS & NETWORKS LAB- Computers – 46 No's.(16-Dell OptiPlex 9020M, 21-HP Elite desk 800G1 5-Dell Precision T1650 3-HP Prodesk 600G3MT 1-Lenovo 2016 purchased) Projector - 01 (EPSON EB-X24LCD DLP Projector) Printer – 01 (HP LaserJet 1020 plus) Scanner – 01 (HP Scan Jet G3110) LAN – 100 Mbps, Wi-Fi AP – 01 (RuckusR300)

ALGORITHMS LAB-Computers – 33 No's. (27- Dell OptiPlex 9010DT 6-HP Prodesk 600G3MT), Printer – 01 (Cannon LBP 2900B), LAN – 100 Mbps, Wi-Fi AP – 01 (RuckusR300),

INTEL E-COMMERCE & MULTI-CORE LAB (M.TECH (CSE)-PROJECT LAB)- Computers – 21 Nos. (2 – Lenovo Think Centre 19 – Dell OptiPlex9010MT) Printer – 01 (HP LaserJet 1020 plus) LAN – 100 Mbps Wi-Fi AP – 01 (RuckusR300)

DISTRIBUTED & CLOUD COMPUTING LAB - Computers –08 Nos. (03 – Dell

OptiPlex 9010DT 3- HP Elite desk 800G1 1 - Acer Variton System 01-Dell OptiPlex 9020MT), Printer – 01 (HP LaserJet 1010), LAN – 100 Mbps

DATA INFORMATICS & ANALYTICS LAB - Computers –15 Nos. (10 – Dell OptiPlex 9010DT 2 - Dell Precision T1650 1- Acer02-Dell OptiPlex 9020MT) Printer – 01 (HP LaserJet M1319f MFP), LAN – 100 Mbps, Wi-Fi AP – 01 (RuckusR300), Used for Ph.D. / Research Work.

NETWORK ENGINEERING LAB- Computers –16 Nos. (10 – Dell OptiPlex 9020 05 – Dell OptiPlex 9010DT 1- Lenovo Think Centre M 90), Printer – 01 (HP LaserJet 1010), HP Scanjet G2410, LAN – 100 Mbps, Wi-Fi AP – 01 (RuckusR300)

ADVANCED COMPUTING LAB- Computers – 52 Nos. (1 – Lenovo ThinkCentre M90 15 – Dell OptiPlex 9010DT 9 - HP Elite desk 800G1 27-HP Prodesk 600G3MT), LAN – 100 Mbps, Wi-Fi – 01 (Ruckus R300), Projector - 01 HITACHI CP X4014WN, Printer HP Laserjet P1007

Information Security Lab(M.Tech (CSE-IS) Project Lab)- Computers – 37 Nos. (20 – Dell OptiPlex 9010DT 1 – Lenovo Workstation S30 1 – Lenovo Workstation D20 1-Lenovo Workstation S20 07 - Lenovo Workstation P700 4-Dell OptiPlex 90202- Dell Precision Work Station 5820 1 - Lenovo Think Centre M90), Printer – 2 (1 Canon LBP 2900 01-HP laserjet MFP), Wi-Fi – 01 (Ruckus R300), LAN – 100 Mbps

INTERNET & WEB ENGINEERING LAB-Computers – 42No's.(34-HP Elitedesk 800G11- Lenovo Think Centre M90 HP Prodesk 600G3 MT), Projector - 01 (EPSON X36 LCD Projector), Printer – 01 (HP LaserJet 1010), LAN – 100 Mbps, Wi-Fi AP – 01 (Ruckus R300)

Microprocessor Lab-Computers –1 Nos. (01 – Dell OptiPlex 9010), Digital IC Trainer Kit Digital IC Tester and other accessories, LAN – 100 Mbps, Wi-Fi AP – 01 (Ruckus R300)

Image and Speech Processing Lab-
Computers –22 Nos. (19 – Lenovo ThinkStation 2 - Dell - Precision workstation 1-HP Elite Desk 705 GIMT), Printer – 01 (HP LaserJet 1010), LAN – 100 Mbps.

Data Centre/IBM Open Power Lab-
Server Class System (10 Nos.)03-Dell Power Edge T360, 01-DELL Power Edge R720, 02-DELL Power Edge R420, 01-DELL Power Edge T710, 01-DELL Power Edge R730, 02-IBM Xeon Server IBM Open Power Series System-02-IBM p-Series Server Model 9131/52A Server class system-01-DELL Power Edge R740, 01-Super Micro Boston X86 server

DEPARTMENT OF CHEMISTRY:-

Extractive :

Membrane Technology Laboratory. Surpass Electrokinetic analyzer, K-coater, Salinity testing unit, Hollow fiber spinning unit, Rotovapor

Synthetic Organic Chemistry Lab

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

High Voltage Testing Laboratory -
100 KV impulse generator, HV standard capacitor, 5 KV Insulation tester, Oil test kit

Electric Machines and Drives Laboratory- DSP based drive control units V/F controls, Machine design software (speed, motorpro), Filed analysis software (MAXWELL 3DFS Rexroth INDRAMAT drive unit with AC servo motors

Power Electronics Laboratory -
DSPACE – rapid prototyping unit, Converter / Inverter modules, power Device (SCR, IGBT, GTO) modules

Virtual Instrumentation Laboratory -
NIDAQ systems, PXI1010 units with High Voltage measurement unit, NI-ELVIS stations, LABVIEW softwares, dSPACE 32xx rapid prototyping platform

Embedded Systems Laboratory -
OSEK RTOS, KEIL RTOS, KEIL IDE for 805x, ARM, CODEWARRIOR IDE for 68HCXX, TI DSC Code composer Studio for 28XX MOTOROLA, INTEL,ARM,PIC DSC/MC units

Industrial Automation Laboratory -
Distributed Control Systems [YOKOGAWA CS1000], PLC ROCKWELL RSLOGIX%))), ABB RTU232.

Digital System Design Lab -BASYS2 and BASYS3 kits supporting XILINX SPARTAN 2/3e FPGA, Analog Discovery 2 Kits supporting MSO Functionalities

Micro Grid Laboratory-10 kw wind solar hybrid system (2 wind turbines of 3.2 kw each and 3.6 photovoltaic system) capable of operating in grid connected and islanding mode of operation with charge controllers and Inverter. 1.2kW fuel cell bases experimental system.

Analog Electronics Laboratory -
Comprises of trainer kit based systems to understand linear and nonlinear configuration of operational amplifier (IC 741) and Timer (IC 555) based circuits

Digital Electronics Laboratory -
Comprises of trainer kit based systems to understand functioning of basic and universal logic gates, Combinational circuits and sequential circuits.

Signals & Systems Laboratory -
athWorks based computational platform to model and characterize the continuous and discrete time signal and system characteristics in time and frequency domain.

DSP Laboratory- On using MathWorks based computational platform to write the code and uses of Simulink to understand the application of signal transformation in linear and nonlinear mixing, in typical communication systems such as AM, FM process. Understanding of Phase lock loop (PLL) functioning, Approximation of Ideal filter responses using FIR and IIR filters.

Dept. Computer Lab. - 60 desktop computers in the Dept. Computer Lab.

Power Systems Laboratory -Scale-down model of 4-machine power systems, NI-based ADC and DAC cards for real-time data acquisition, Industry grade packages: EMTDC/PSCAD, MATLAB, LabVIEW softwares and in house developed power system stability analysis package, MatSim.

**DEPARTMENT OF ELECTRONICS
AND COMMUNICATION
ENGINEERING**

Analog Electronics Lab:- Digital Storage Oscilloscope, Function Generator, DC Regulated Power Supply Analog/Digital IC Tester

Digital Electronics Lab:- Digital Trainer, Analog/Digital IC Tester

Integrated Electronics Lab (Research Lab for Ph. D. Students):- Workstations, Access to all design tools available in the department.

Communication Lab:- Digital Storage Oscilloscope, Function Generator, DC Regulated Power Supply, Microwave X band benches, Antenna Trainer , Outdoor FSO Link Setup (Lightpoint), Wireless Comm Trainer Kits(2 set ups), Workstations, LD Driver, LD Module, PD Module, Power Meter, Fibre Optic Power Source, Optical Fibre Trainer, LD Modulator (Transmitter), FORX-200m (Receiver), Fiber Optics Kits, Wireless Sensor Network Professional Kit with Tools, Qualnet Network Simulator, Qualnet Network Simulator Tools, Wireless digital communication training system, (Wi-Communication-T), Outdoor free space optic (FSO) link.

RF Equipments, 3GHz Spectrum Analyzer, RF Training Kit, RF Signal Generator, Vector Network analyzer 40GHz & Accessories, 3GHz Network Analyzer, 100MHz Mixed Signal Oscilloscope, 80MHzFunction/Arbitrary Waveform Generator, Digital Multimeter 6.5 digit Triple Output DC Regulator Power Supply, Electronic Instrumentation Training Kit, RF

Tools – HFSS, CST Microwave Studio, Digital Source meter with Safety universal Test Lead kit

Software: Genesis Core Bundle License, Agilent VEE 8.5 , ADS 10 User Licence, Optsim 5 User Licence

VLSI Lab:- Workstations , File Server, Cadence Design suite,, Synopsys EDA Tools, Mentor Graphics Tools, Xilinx Tools, Tanner Tools

DSP Lab:- Dell OptiPlex 9020 x64-based PC(s) DSP Starter Kits and Evaluation modules, Texas Instruments TMS 320C6437, TMS 320C6713, TMS 320C6416, TMS 320C5510, DM6446 Digital Video Evaluation Module, Beagle Board, MSP430, Code Development Tools for Texas Instruments, MATLAB 2015 (8.5.0), MATLAB 2016, MATLAB 2017 with various Toolboxes, Celoxica DK Design Suite, ModelSim, XILINX ISE, System Generator, ChipScope and EDK, XILINX Vivado Design Suite, SDSoc, Xilinx EVM – Celoxica RC10, Virtex II, Virtex II Pro, Virtex V, Xilinx Xtreme DSP Development Kit, Xilinx Multimedia EVB, Xilinx Virtex IV Video Starter Kit, Virtex VI Embedded Kits, Xilinx Virtex VI FPGA DSP Development Kit with High Speed Analog, Avnet Spartan – 6/O MAP Co-processing development kit, Avnet Digilent Zed Boards , Zynq-7000 EPP ZC702 Evaluation Kit, Digilent Nexys 3 & Nexys 4 Kits, Digilent Nexys Video Kit & accessories, Digilent Zybo ZynqTM-7000 Development Boards, Altera Bitech Cyclone III Development Kit, Altera Cyclone IV GX FPGA Development Kit, Stream Processor Evaluation Platform, STM32F407 Discovery Kits.

Microprocessor & Embedded Systems Lab:- Workstations, Cadance ORCAD PSPICE A/D, PCB design tools, Matlab, Simulink, ARM based code development tools.

Network Management Lab:- Foundry N/w's FastIron Edge X424

R&D Lab (Research Lab for Ph. D. Students): Workstations, Access to all design tools available in the department

Centre for Excellence for Wireless Sensor Networks:- Work stations, WSN Design kits, Qualnet SW, NETSIM SW, Sensors

Stochastic Modeling Imaging and LEarning (SMILE) Lab:- Workstations , Access to all design tools available in the department.

DEPARTMENT OF INFORMATION TECHNOLOGY

Digital Design Lab-I:- DIGITAL IC TRAINER Model -UDT 4004-20, DIGITAL IC TESTER MME-DIT 2040-1

Digital Design Lab - II:-DIGITAL IC TRAINER Model – ML 555T-20, DIGITAL IC TESTER MME-DIT 2040-1

Research Laboratory:- HP Compaq 8200 Elite MT PC-1, HP Compaq 8300 Elite MT PC -5, HP Compaq 8100 Elite MT PC-2, Dell Optiplex 9020 MT core i7- 3, HP xw4400 workstation-2, Lenovo Workstation E-1225V5, Dell Power Edge R730 2U Rack Mount Server-1, C-Netgear RN626X Ready NAS

Internet Technology Laboratory:- HP Compaq 8200 Elite MT PC-1, HP Compaq 8300 Elite MT PC -4, Dell 9010 DT-26761536 optiplex M-1, Dell Optiplex 9020 MT core i7- 2, HP Z800Workstation SGH030TDHR (GPU Computing Server)-1, Dell Power Edge R730XD 2U Rack Mount Server-1

Virtualization Lab:- N Computing L300 Clients -18

Post Graduate Lab -I:- HP Compaq 8100 Elite MT PC-7, HP Compaq 8200 Elite MT PC-4, HP EliteDesk 800 G1 TWR -6, Dell Optiplex 9020 MT core i7-10, Serveillance Setup, Dlink DCS 2103 CAMERADCS 2103-2

Post Graduate Lab - II:- DesktHP Compaq 8200 Elite MT PC-20, HP Compaq 8100 Elite MT PC-1, HP

Compaq 8300 Elite MT PC -2, HP EliteDesk 800 G1 TWR -2, N Computing L300 Clients -2, Cameras: Serveillance Setup, Dlink DCS 2103 CAMERADCS 2103-2

Project Laboratory:- Desktop: Dell Optiplex 9020 MT core i7-9, HP EliteDesk 800 G1 TWR -1, HP Compaq 8100 Elite MT PC-10, HP Compaq 8200 Elite MT PC-3, Lenovo Think M90(5498-PR1)-3, HP Compaq dc 7900 Convertible Minitower -3 HP Compaq dx 2700 MT PC-1, IBM Thinkcenter (IBM, 8116A11)-1, Workstations:Dell Precision T1700-3

Undergraduate Lab-I: -Desktop: Lenovo Think M90(5498-PR1)-56, HP Compaq dc 7900 Convertible Minitower – 4, HP Compaq 8200 Elite MT PC-2, HP Compaq 8100 Elite MT PC-4, HP compaq dc 2700-1, IBM Thinkcentre- 2, Hp compaq xw4400 Workstation-1, 8841 45A IBM e server x236(99KYD74)-1, DL160 G6 E5504 HOT PL UG SERVER -1, AH234 A HP RX2660 SERVER (intergrity server)-1, Brand Connoi Mode Ntpsc T7025 Fermi-1, Surveillance Setup, Dlink DCS 2103 CAMERADCS 2103-3MIC Systems: KQ-SRS-1112 Infrared Sound Field Reinforcement System-1

1. **Undergraduate Lab -II:-**Desktop:HP Compaq 8200 Elite MT PC-24, HP Compaq 8300 Elite MT PC-16,HP Compaq 8300 Elite Small Form Factor-1, HP Compaq 8100 Elite MT PC-3, HP Elite Desk 800 G1 TWR -4, HP Compaq dc 7900 Convertible Minitower – 1

DEPARTMENT OF MATHEMATICAL & COMPUTATIONAL SCIENCES:-

Ground Floor- 49 Intel i7 Desktop with 8 GB RAM with dual OS

1st Floor- 40 Intel i7 Desktop with 8 GB RAM with dual OS 22 Intel i7 Desktop with 3 GB RAM with Ubuntu

2nd Floor (Software Development center) - 30 Intel i7 Desktop with 8 GB RAM with dual OS

Project Lab (1st Floor) - 19 Intel i7 Desktop with 8 GB RAM with dual OS

DEPARTMENT OF MECHANICAL ENGINEERING

Advanced Dynamics Lab:

Experimental Modal Analysis, Forced Vibration Analysis, Tuned Impulse Hammer, Minishaker with controller, Modal Analysis Software

Wind tunnel laboratory: subsonic wind tunnel, force balance

Advanced Manufacturing Laboratory: 3-D Printing, Fused Deposition Modeling based 3-D Printer, Material Extrusion, Single Screw Extruder

Smart structures laboratory: Free and forced vibration setup with controller, Impact hammer, Tri-axial accelerometer, Electrodynmamic shaker, Analyzer, closed loop controller, force sensor, impedance head

Refrigeration and Air-conditioning Research Laboratory: Micro heat pipe test rig, Vapour pressure determination test rig, Thermoelectric refrigeration test rig, Condenser pressure variation VCR test rig, Vortex tube refrigeration test rig, Air engine test rig, Weather simulation chamber & Window air conditioner test rig, two Stage VCR test rig with intercooler.

Turbomachinery Laboratory: Low speed compressor cascade test facility, Low speed turbine cascade test facility, Centrifugal blower test rig.

Polymer composites lab: vartm facility
Advanced fluid mechanics Lab: Desiccant analysis test rig.

Tribology Laboratory: Metallurgical Sample Saw, High Temperature Tubular furnace, Ball mill, Disc Polishing Machine, Microscope, Pin on Disc Tribometer.

1. List of Software in CAD/CAM Laboratory:

- Pro Engineer CREO 50 Users
- Autocad 50 Users
- Ansys15.0 25 Users
- AnsysV10.0 10 Users

- MSCAdams 50 Users
- MSCatran 50 Users
- MSCastran 50 Users
- MSCMarc 50 Users
- MSCytran 50 Users
- CatiaP3 10 Users
- CATIAnovia 05 Users
- CATIADelmi 05 Users
- CATIAPLMExpress 05 Users
- LMS AMESim (Multi-domain system Simulation) 05 users
- Unigraphics with AdvancedbMachining Module 05 Users
- Deform (Design Environment for FORMing) 01 User
- AutodeskMoldflow 25 Users
- SimPACK (MBD Software) 25 Users
- MasterCAM 02 Users
- HyperWorks 05 Users
- RobotKit 02 Nos.

Materials Characterization

Laboratory: Vacuum Arc Melting Furnace, Image Analyzer, Universal Testing Machine, Wire Electro Discharge Machine, Vickers Hardness Tester, Double headed Rolling Machine.

Vibration and Condition Monitoring Laboratory:

Electromagnetic shaker (100kgf, 50kgf, 25kgf), Horizontal slip table, VTS electro-dynamic shaker (25lbs), Gauss meter, Electro magnets (1.5 Tesla), Impact hammer, Single and tri-axial accelerometers, Data acquisition system (NI, HBM), Microphone and SLM, MicroEpsilon Laser displacement pickups, ADAMS, NASTRAN, PATRON, MARC, DITRON, ANSYS, Devitron, Labview.

Robotics Laboratory: Lego Robotic Kit, Firebird, Basic Electronic Components, DC Motors, Connecting Pins, Wires, LEDs Berg Strip, and Bread Board, Quadcopter kit, Wall Following Robot.

Metrology Laboratory:

A. Linear Measurements

1. Vernier Caliper
2. Vernier Depth Gauge
3. Vernier Height Gauge

B. Micrometer

4. External Micrometer
5. Internal Micrometer
- A. Jaw Type Inside Micrometer
- B. Caliper Type Inside Micrometer
6. Depth Micrometer
7. Bench Micrometer
8. Digital Micrometer
9. Telescopic Gauge

C. Measurement Using Slip Gauge

10. Calibration of Micrometer, Vernier Caliper,
11. Calibration of Height Gauge, Snapgauge, Ring Gauge and Plug Gauge.
12. Measurement of Mean Distance between Surface and Spacing between Holes.
13. Measurement of Dovetail Angle and Checking the Taper Angle of Taper Plug Gauge.
14. Checking An Angle Plate.
15. Study On Limit And Position Gauges

D. Linear and Angle Measurement

16. Combination Set.

E. Angle Measurement

17. Universal Bevel Protractor
18. Sine Bar

F. Flatness And Straightness Measurement

19. Clinometer

G. Screw Thread Measurement

20. Screw Pitch Gauge
21. Screw Thread Micrometer
22. Effective Diameter Measurement Using Two Wire And Three Wire Method.

H. Gear Tooth Measurement

23. Vernier Gear Tooth Caliper
24. Tooth Span Micrometer

I. Study On Opto-Mechanical Instruments

25. Tool Makers Microscope
26. Measurement Using Comparator

J. Surface Roughness Measurement

27. Surface Roughness Meter (SJ 301)

Microsystems Laboratory: MEMS Sensors Scanning Tunneling Microscope, Self Build Kit, Atomic Force Microscope, Comsol and Intellisuite (Courtesy : NMDC), Sugar Toolbox and MATLAB (Institute Network)

Heat Transfer Laboratory: Free convection heat transfer, Heat transfer through composite walls, Water cooling tower, Shell and tube heat exchanger, Measurement of thermal conductivity of metal rod, Measurement of thermal conductivity of solids, Computerized vapour, compression refrigeration test rig, Peristaltic pump model, Air conditioning test rig, Vapor compression refrigeration test rig, Heat pipe demonstrator, Heat transfer through extended surfaces, Measurement of emissivity of metal surfaces, Heat transfer through lagged pipe, Heat transfer through Forced convection, Computerized Air conditioning test rig,. Boiling heat transfer apparatus, Film and Drop wise condensation, Ice plant tutor,. Parallel flow heat exchanger,. Plate Heat exchanger,. Heat pump setup, Fluidized Bed system, Refrigerator, Natural convection, Critical Heat flux apparatus.

Machine Dynamics and Vibration Laboratory: Kinematics of Epicyclic Gear, Kinematics of Cam Mechanism, Kinematics of Gear Train, Kinematics of Slider Crank Mechanism, Spring Mass System, Transmissibility Apparatus, Free Vibration of beam, Experimental Modal Analysis.

CNC, Pneumatic and Electro Pneumatic Laboratory: Trainer Lathe, Trainer Milling Machine, Electro Pneumatic Trainer Kit with Cylinders and Control valves

IC Engine Research Laboratory:

MMM Vertical 4- Stroke Diesel Engine,

Textool 2- Stroke Vertical Diesel Engine, Textool 4- Stroke Vertical Diesel Engine, Valve and Port Timing Diagrams, (a) Compression Ratio of given IC Engines, (b) Morse Test, Computerized multi-cylinder MPFI Gasoline engine, Computerized Single cylinder DI Diesel Engine, Exhaust Gas Analyzer, Hydrogen fuelled SI Engine test rig, CRDI Diesel Engine test rig, Kirloskar Diesel Engine test rig.

Fuels Laboratory: Boys gas Calorimeter set(Calorimeter+ gas flow meter (0-1000ml), Redwood viscometer No.1, Saybolt Viscometer, TAR Viscometer(Redwood viscometer No.2, Instech Calorimeter,Flash point tester(Close-up), Barometer with room temperature no.597,. Digital weighing machine (0-10grams), Saybolt Viscometer(old), Bomb Calorimeter, Cleveland Flash & fire point apparatus, Weighing machine (0-2 kg).

Theory of Machines Laboratory:

Spring mass system, Whirling shaft apparatus, Motorised gyroscope apparatus, Digital weighing machine (0-50kgs), Physical balance, Dead weight tester(0-35kg), Digital dead weight tester(0-60kg), Digital dead weight tester(0-250kg), Planimeter set, Thermo-Hygrograph H-10/100%, Computerised Emission test set up, Single stage spur gear, Single stage spur gear with intermediate, Two stage spur gear, Three stage spur gear, Three speed and reverse gear, Worm gear, Bevel gear, Rack and quadrant gear drive, Reversing gear, Epicyclic gear (sun & planet), Cycloidal motion, Internal rolling gear drive, Internal gear and pinion drive spur gear.

Automotive Electronics Laboratory: IRIS CAR (Lab

Car), with Breakout box, ECU, Injector Box, Wire harness, Communication Module, DC Power Supply, Function Generator, Oscilloscope, Cut Section Models.

Stress Analysis Laboratory

Poloriscope, Strain measurement setup

Fracture and Fatigue Laboratory
Fatigue setup

DEPARTMENT OF MINING ENGINEERING:-**Rock Mechanics Laboratory :-**

Rock cutting machine, Compression testing machine, Schimidit hammer, Digital inclinometer, Core drilling machine, other rock cutting facilities,Ground Penetration Radar (GPR), Related Software (Fraglyst, Sirrovision and numerical modeling software).

Drilling and Blasting Laboratory:

Minimates, Minimate plus, High speed video camera, VOD monitor, Laser profile, WIPFRAG software, Jack hammer drilling set-up, Air compressor, Modified lathe machine for rock cutting, Manometer, Crossing point temperature, Digital Methanometer, CO detector, Psychomotor and etc.

Mine Environmental Engineering Laboratory:

Water pollution monitoring kit, Respirable dust sampler, Sound level meter, Gas testing set up, Exhaust gas analyzer, Multi gas detector

Mineral Processing Laboratory:

Automatic weather monitoring system, Personal & Heat stress monitoring Equipment, Self-Contained breathing apparatus, Human vibration measuring apparatus, Digital millivolt meter, Machine vibration measuring apparatus, Larson & Davis noise dose meter, Jaw Crusher, Roller Crusher, Rod Mill, Ball Mill, Bond' Work Index Setup, Electro Magnetic Sieve Shaker, Riffle Sampler, Jigging

Machine, Wilfly's Table, Automatic Mineral Separator, Spiral Classifier, Density Separator, Hydro Cyclone, Davis Tube Tester, Electro Magnetic Drum Separator-Wet, Electro Magnetic Drum Separator- Dry, Froth Floatation Cell, Auto Sampler-Psd-S, Sampling / Crushing / Grinding - Integrated Unit, Turbo Mixer, Micro Mill, Vacuum Filtration Unit, Disc Mill, Pot Mill, Double Deck Vibratory Screen Model, Infrared Drier, Spiral Concentrate, Sieve Shaker.

Mine Surveying Laboratory: Prismatic Compass, Surveyor Compass, Vernier Theodolite, Micro-Optic Theodolite, Dumpy level, Auto level, Digital level, Total station, Handheld GPS, DGPS.

Mine Planning and Design Laboratory:- D-link manageable switch, HP 3200 A4 scanner, HP 1010/1015 Laser printer, HP plotter, Surpac Mine Planning Software, Reliability software, Sirovision software, JK Sim blast software, Mine Pollution Laboratory:- Merc SQ118 water quality analyzer, High volume air sampler, Respirable dust sampler, Sound level meter, Opacity meter, Point sampler, Beta attenuation meter, Weather monitoring station.

DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

Extractive Metallurgy Lab: Crushers, Ball mill, Floatation cells, C&S analyzer, Sieve analyzer

Testing of Materials Lab: UTM, Instron, Wear testing machine, Hardness testers, NDT, Fatigue testing machine

Physical Metallurgy Lab: Metallography, Microhardness, Image Analyser, Dilatometer

Ceramics & Polymer Lab:

Ceramics & Polymer Lab

Heat treatment Lab: Heat treatment furnaces, Thermal cycle furnaces

Metal Finishing Lab: Plating

facilities

Foundry lab: Induction furnace, Permeability meter

Scanning Electron Microscope Lab: Scanning Electron Microscope with EDAX

Casting Research Lab: Data logger, Hot stage microscope, Contact Angle Analyser, Image analyzer, Instron tensile tester, Quenchometer, Stereo microscope, 2D Surface Profiler, Solid Cast Software, Ultrasonicator, Ultrasound velocity meter, Thermal property analyser, DAGE bond tester

Powder Metallurgy & Nano technology Lab: Thermolyne High Temperature Furnace, Density Measurement Kit, Incubators – Ecogain series, Hot Air Oven.

Transmission Electron Microscope Lab: Transmission electron microscope, GATAN ion milling unit.

Metal Processing Lab: Rolling mill, Precision cutting machines, 250 ton Hydraulic press

Corrosion Lab: Potentiostat and Impedance analyser

Coating lab: PVD facility, electron beam deposition set up. DC sputtering setup

FTIR Lab: FTIR Spectrometer, Four probe resistivity measurement system, USB Oscilloscope

XRD Lab: X-ray Diffractometer

Ceramic & Thin Film Lab: UV Ozone Cleaner, Ultrasonic Atomizer, Scratch Tester, Spi Coater, Probe Sonicator, Vacuum Oven, Screen Printer, Stretching Machine with Compressor, Four Probe & Two Probe, Glass Cutter, Fume Hood.

DEPARTMENT OF PHYSICS:-

Thin Films Lab:- X-Ray diffractometer, Keithley Source Meter, Keithley Multimeter Sputtering Unit, Physical Deposition Unit Spray Pyrolysis Unit, LCR Meter, Vacuum coating system.

Optoelectronics Lab: Ocean Optics Inc SD2000 spectrometer, Thermal evaporator, Keithley Sourceter (model 2400). Jobin Yvon spectrometer with a CCD based detector, Keithley 6485 Picoammeter, Agilent E4980A Precision LCR meter 20 Hz to 2MHz.

Crystal Growth & Nano materials Lab :- Solution growth system for crystal growth, High temperature furnace, Magnetron sputtering system, Thin film coating unit, Fume Hood, Vacuum deposition system,- Thermal, DC, RF coating system.

Materials Processing Lab:- CLEMEX Micro-hardness Tester, Physical vapour deposition, Polishing Machine Muffle furnace (Max Temp 10000C), Low speed Diamond saw cutting Blade, Abbe refractometer, Density kit, High temperature furnace, P H Meter, U V Visible spectrometer, Computer Interfaced Microhardness Tester, Density kit.

Materials Research Lab:- Electrochemical Workstation, Mbraun Glove Box, Neware battery analyzer, Kiethly 2 probe and 4 probe measurement systems, Ocean Optics UV-Vis spectrometer, DC Spectrum Analyzer, Muffle Furnace, Weighing Balance Battery Crimper set up, Sputtering Unit, Spin Coater, Spray Pyrolysis unit, Vacuum Oven, Hot air oven.

Advanced Instrumentation Lab:- X-ray Diffractometer, Photoluminescence, Spectrometer

Computational Physics Lab:- Power Edge Dell Server

Functional Nanostructured Materials Research Lab:- Hot air oven, Bench-Top Centrifuge, Weighing Balance (0.1mg precision), Photocatalytic reaction chamber Ultrasonicator.

SCHOOL OF MANAGEMENT:-

Computer laboratory:- SPSS, Palisade Decision Tools Suite, CMIE Prowess Database, CRISIL Research Reports

Itell Language Laboratory:- Software from Logitech Solutions Itell catering 500+1 user

11.5 WORKSHOPS

DEPARTMENT OF APPLIED MECHANICS AND HYDRAULICS:-

Departmental mini workshop : Lathe, shearing machine, drilling machine. Grinding machine

DEPARTMENT OF CIVIL ENGINEERING

Civil Engineering Department Workshop:- A Lathe, A Shearing Machine, Electrically, operated Power Saw, and Welding, Transformer

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Electrical Department Workshop - Lathe, Drilling And Welding Machines Along With Work Bench And Other Machine Tool Facilities

DEPARTMENT OF MECHANICAL ENGINEERING

Machine Shop - I: Center Lathe, Heavy duty Center Lathe Geared head Center Lathe, Shaping machine, Universal Milling Machine, Heavy duty piller type drilling machine, Light duty piller type drilling machine, Pedestal grinding machine, Capstan Lathe.

Machine Shop - II: Surface Grinding Machine, Cylindrical Grinding Machine, Capstan

Lathe, Horizontal Milling Machine with Vertical attachment, Broaching Machine, Light Duty Shaper, Heavy Duty Shaper, Slotting Machine, Planner, Cutter Grinding Machine, Heavy Cylindrical Grinding Machine, CNC Milling Centre, CNC Turning Centre, Heavy Duty Shearing Machine, Hydraulic Press, Heavy Duty Radial Drilling Machine, Hydraulic Radial Drilling Machine, Universal Milling Machine, Centre Lathe, Hydraulic Compressor.

Carpentry Shop: Wood turning lathe, Circular saw, Carpentry bench vise and table

Fitting Shop: Bench vise with table, Surface plate, Anvil Power Tool, 5. Drilling set and accessories, Saber saw, Jig saw, Hot air gun, Tappers, Nibbler, Shearing machine, Grinding machine, Circular saw, Impact wrench, Battery operated drill, Blower, Eccentric sander, Router machine, Wood planner, Jig saw, Hammer drilling, Core cutter drilling machine

Sheet Metal Shop: Soldering table, Bench vise, Shearing machine

11.6 HOSPITAL, POST OFFICE, SHOPPING CENTRE

Hospital: One Health Care Center with the services of regular doctors and visiting expert doctors is available. Medical Shop is also available in the Health Care Center.

Post Office: Post Office is available within the Campus.

Banks: Two banks (SBI and Canara Bank) are functioning within the Campus. Four ATMs (2 of SBI and 2 of Canara bank) are available at different locations within the campus.

Shopping Centers: Two Shopping Complexes are available within the campus accommodating about 15 shopping rooms which includes Saloon,

Beauty Parlors, Printing and Xerox, Vegetable outlet, Bakery, Tailoring, Cloth Shop, Milk parlors, food outlets etc.

Physical education & Facilities: Full-fledged Gymnasium facility, sports grounds for out-door games, Sports complex for in-door games are available within the campus.

11.7 PHYSICAL EDUCATION FACILITIES

FACILITIES/AMENITIES:

Department of Physical Education and Sports of this Institute has got excellent Sports infrastructures and facilities provided here is considered as one of the best among all NITs as well as among other Institutions and Universities of this State. Standard, well maintained play fields for all major games like one 400Mts. Track for Athletics, One 75 Yards Boundary Cricket field with 3 playing pitches, One 70 yards boundary Cricket field with a matting wicket, 2 standard size Football fields, 2 Hockey fields with 2 pairs of goalposts with boards, 2 concrete Basketball courts with FG boards and Flood Light facilities, 1 Basketball concrete court at Girls Hostel with flood lights, 2 Volleyball courts with flood light facility, 4 Tennis courts, 2 Ball Badminton, 2 Throwball, 2 Kho-Kho, 2 Kabaddi, 2 Tennikoit courts are available for use. Provision is also there to put Two Handball court with goal posts and one Baseball field with all Bases and other required amenities. An indoor hall with 3 Badminton courts and 4 TT tables with proper Lighting system, kept open for 15 hours a day, all 365 days for students use. Weight training hall with Multi Gym, Mini Gym, Individual stations for all sorts of exercises, Weight Lifting and Power Lifting Barbell sets, Fitness equipments like Jogger Treadmills, steppers, Rowing Machines, Bicycle Ergometers, Peck Decks and Abdominal shapers are open for use of everyone even during early

mornings and late evenings. Above all these, like a jewel on the Crown an international standard Swimming Pool of 50 x 21 Mts., 8 lane with anti wave lane markers, Olympic type take off boards and diving facilities with 3 Platforms of 1, 3 and 5 meters height as well as a Fiberglass Spring Board fixed at 1 Meter height is ready for use in this Institute.

GAMES & SPORTS FACILITIES:

All students, staffs and residents in and around the campus are freely permitted to utilize all Play ground and Gym facilities available in the Institute. Admission to Swimming Pool is free to all students of this Institute. Staffs, residents of the Campus, family members of the staff and staff + students of the campus schools are charged with nominal fee to use the Pool. High quality and standard

Sports/Games equipments/articles are provided to students and staffs of this Institute who use these play field facilities, except some personal articles like Tennis, Shuttle Badminton and TT Rackets. Opportunity to all students, staffs and other residents of the campus have been provided to participate in different level of competitive Sports and Games, by organizing Inter-Class, Inter-Branch, Inter Year and Campus open tournaments(Competitions) in all most all games for both sections. Girls Block Hostel has been provided with a Basketball, Volleyball, Tennikoit, Kho-Kho, and Badminton courts, 2 TT Tables, 4 Carom Boards and Gym with some fitness equipments including a Mini Gym. Arrangements have been made to provide TT Tables, Carrom Boards and a set of Cricket stumps and Bats to each Blocks of Boys Hostels. Volleyball, Throw ball and Badminton courts have been laid near Staff Recreation Club for the use of staff members. TT, carom and Chess like indoor games with required sports articles were also provided for staff club.

All those who get selected to represent the Institution and participate in any

of the tournament will be provided with Institute Uniforms (Colors) and all expenditures during participation of that team will be met by the Institute. In addition, Football and Hockey team members will be provided with Stockings and Shin Guards, Cricket team members will be provided with white Pants, Shirts and Caps. All students and Officials who participate in Inter NIT or University tournaments will be provided with Institute Track Suits. All students who represent this Institution in Sports and Games will be provided with Shoe subsidy of Rs.800-00 per year.

11.8 STAFF QUARTERS

Staff quarters: 197 numbers of Faculty and 120 numbers of Non-faculty staff quarters are available in the Campus.

12 STUDENT ACTIVITIES

STUDENTS UNION

Election to the Students' Union of the Institute was held on 10.4.2017 and the following office bearers were elected:
Tanuj Kumar Kadiyala – President
Gagan S – Secretary
Sai Kumar – Joint Secretary
Aishwarya Sanjeev Kumar – Girls Representative

GAMES AND SPORTS

STUDENTS ACTIVITIES:

All students, staffs and community in and around the campus are free to use the playing, training and coaching facilities available in the DPES of this Institute. Staff of the DPES are ready to provide instruction, teaching, coaching and training facilities to all interested peoples in and around the campus. This year students teams in the following games were selected by conducting selection tournament/trials and these selected teams have been trained, coached and well prepared to participate in different level tournaments. 1) Athletics, 2) Aquatics, 3) Badminton, 4) Ball Badminton, 5) Basketball, 6) Carom, 7) Chess, 8) Cricket, 9) Football, 10) Handball, 11) Hockey, 12) Kabaddi, 13) Kho-Kho, 14) Table Tennis 15) Tennis, 16) Volleyball, and 17) Weight Lifting, Power Lifting and Body building, in Boys section, 1) Athletics, 2) Aquatics, 3) Badminton, 4) Basketball 5) Tennis, 6) Table Tennis, 7) Throwball, and 8) Volleyball, in girls section. Special coaching camps are being held by engaging qualified coaches in Athletics, Aquatics, Basketball, Football, Handball, Hockey and Volleyball. For the students of our campus and neighboring schools, teaching, training

and coaching classes were conducted in Athletics, Tennis, TT, Shuttle Badminton, Football, Hockey, Kho-Kho, Handball and Volleyball. To impart knowledge of swimming and water survival skills among each and every one “Learn to Swim” coaching camps of 21 days duration were conducted by PED in the Institute Swimming Pool. Staff and Students of our Institution, Campus Schools and neighboring Schools and Colleges are making good use of these facilities. Since it is mandatory for students to participate in Sports and Games, arrangement is made to accommodate as many students as possible in different play fields. Instruction and proper guidance has been provided to all to enhance participation in different sports, games and Physical Fitness activities systematically and effectively.

All students are insisted to participate in any of the fitness activities of their choice regularly to maintain their Physical Fitness level. Every student is encouraged to spend at least half an hour a day in the play field playing any games of their choice as recreation. All students of this Institute are insisted to become member of the Swimming pool and attain the knowledge of water survival skill or swimming. “Learn to swim” as well as advanced swimming coaching camps are conducted to cater the needs of all students and campus people. Competitions are being conducted from the lowest level starting from, their own class/Section, inter class, inter Branch, inter year and inter collegiate level. Intra-Mural competitions in individual sports like Athletics and Aquatics were conducted by DPES and Medals, Certificates and prize money were being awarded to the winners of these competitions as a motivation. Students were allowed to participate in Taluk, District and state level open as well as inter collegiate competitions organized by other colleges, District Associations and other Government organizations. Students are permitted to participate in State and national level sports competitions organized by AIU and other neighboring institutions. All of our Institute teams

are permitted to participate in All India Inter NIT Sports organized at other NITs. Institute is regularly organizing All India Inter NIT Sports every year in some or other games. This year , All India Inter NIT in Handball, Hockey, Kabaddi and Swimming were being organized at our Institute during 12th to 14th January, 2018. More than 500 students from other NITs (22 Men Kabaddi teams, 8 Hockey teams, 8 Handball teams & 12 Swimming Men and Women teams) participated in this Inter NIT sports. Participants were being provided with free Boarding and Lodging facilities. During "INCIDENT" National level cultural Festival, DPES organized "Slam Dunk" Inter Collegiate Basketball and "Spin Shot" Inter Collegiate Throwball (Women) Tournament inviting teams from all over India. Recreation committee is conducting inter branch, inter year and inter class competitions in many games utilizing all facilities available in the DPES. Phoenix an intra mural sports competitions has been conducted in the even semester this year also.

Intra-Mural Competitions in Aquatics and Athletics conducted during the month of October, 2017 attracted large number of student participants. Prize money, Medals and Certificates were distributed to 3 place winners of each event. Institute Aquatics and Athletics teams were selected on the basis of these results.

Phoenix, a gala of sports (An Inter year competitions for students) has been conducted in the even semester and by enthusiastic huge participation, students responded overwhelmingly and spontaneously.

13 RESEARCH, DEVELOPMENT& CONSULTANCY PROJECTS

13.1 R & D PROJECTS (ONGOING & SANCTIONED)

DEPARTMENT OF APPLIED MECHANICS AND HYDRAULICS

1. Fund for Improvement of S&T Infrastructure in Universities and Higher Educational Institutions (FIST) Program – 2014 (Strengthening PG teaching and research – Spectro radiometer and Random wave generator with accessories), Sponsored by : DST, Govt. of India, Investigator(s): Subba Rao , G.S.Dwarakish, A. Mahesha, H.Ramesh, Manu & Pruthviraj U., Rs. 209.0 Lakhs, 2015-20
2. Coupled dynamic analysis associated with the response and design loads of offshore floating wind turbine, Sponsored by : SERB, DST, Govt. of India, Investigator: Debabrata Karmakar, 25.0 Lakhs, 2016-18
3. Hydrodynamic performance characteristics of Caisson type breakwater, Sponsored by : Ministry of Earth Sciences, Investigator(s) :Manu (PI), Subba Rao (Co-PI) & A.Vittal Hegde(Co-PI), 78.84 Lakhs, 2016-21
4. Optimal Damping of porous screen in Tuned Liquid Damper-Structure interaction, Sponsored by : SERB, DST, Govt. of India, Investigator :T. Nasar, 32.67 Lakhs, 2016-19
5. Climate change - Impact on West coast river basins, Sponsored by : Ministry of Water Resources Investigator(s) : Dr. A.Mahesha, Dr. Amba Shetty, Dr. Varija & Dr. H. Ramesh, 65.40 Lakhs, 2016-19
6. Plastic waste management system, Sponsored by : TEQIP-III, NITK, Investigator(s): PI: K.V. Gangadharan Co-PIs:Lakshman Nandagiri, Pruthviraj U, 6.2 Lakhs, 2016-17
7. Conjunctive use of surface water and groundwater management: A new framework for strategic decision

making, Sponsored by : DST, EMR, Investigator : H.Ramesh, 45.0 Lakhs, 2017-20

8. Effect of Frictional Heat on Coefficient of Friction during Full Slip of Al6061 T6 Hertzian Contacts, Sponsored by : Science & Engineering Research Board (SERB), DST, Investigator : Dr. Vadivuchezhian K, 27.0 Lakhs, 2018-20

DEPARTMENT CHEMICAL ENGINEERING

1. DST- FIST Level I project for Chemical Engineering Department DST FIST Implementation Team : Prof. M.B.Saidutta; Dr.Vidya Shetty K, Dr. Prasanna B D, Dr. I Regupathi, Dr. P E Jagadeeshbabu , Rs.227 lakhs.- 2014-2019
2. Development of a sustainable technology to produce oxalate depleted starch from Taro corms by AISTDF, SERB Principal Investigator: Dr. Prasanna B.D, Co-PI: Dr. Rungtiwa W (Mahidol university, Thailand) & Dr. E. Maribel Agoo (De La Salle University, Philippines); at the cost of Rs. 25.44 Lakhs (2018-2021). Sanctioned date: 01.02.2018
3. In vitro mass culture of *Steinernema jeffreyense*, a biocontrol agent against key insect pests by DST (International Division). Principal Investigator: Dr. Prasanna B.D, PI (South Africa): Dr. Antoinette P. Malan (Stellenbosch University); at the cost of Rs. 27.6 Lakhs. Sanctioned date: 07.12.2016
4. Ambient airborne particulate matter: Effect of biological component on lung inflammation SERB-DST, Govt. of India. Principal Investigator: Dr. Gangamma S. at the cost of Rs 51 lakhs
5. Air pollution induced immune cell dysfunction: Implication in Viral infection (In collaboration with IISER, Bhopal, SERB-DST, Govt. of India. Principal Investigator: Dr.

- Gangamma S. at the cost of Rs 54 lakhs
6. Biomass fuel burning smoke induced inflammation: Mechanism of biological pathways, CSIR, New Delhi, Principal Investigator: Dr. Gangamma S. at the cost of Rs 17 lakhs (2015-2018)
 7. Heavy metal removal by Melanin coated Polymer matrix (Co-PI), DST, Govt. of India. Principal Investigator: Dr. Gangamma S. at the cost of Rs 38 lakhs
 8. Heavy metals removal by adsorption on melanin coated polymer matrix, DST, Principal Investigator: Dr. Keyur Raval at the cost of Rs. 37.5 lacs, 2015-2018.
 9. Impact of maternal diabetes on pre-implantation embryo development: Non-invasive approach to assess embryo quality using oxygen consumption, SERB, Principal Investigator: Dr. Keyur Raval at the cost of Rs. 54 lacs, 2017-2020
 10. Synthesis of β -cyclodextrin nickel ferrite nanoparticles for the removal of pharmaceutical compounds from aqueous systems, DST – SERB (ASEAN – INDIA), Principal Investigator : Dr. B. Raj Mohan (2018)
 11. Future Materials in Solid Oxide Fuel Cells and Electrolytes sponsored by DST Inspire India Principal investigator: Dr. Hari Prasad Dasari ; Chemical Engg. at the cost of Rs. 35 Lakhs. (Period 28/04/2014 to 28/04/2019)
 12. Decreasing the Sintering temperature of Solid-Oxide Fuel Cell Electrolytes sponsored by KIST Korea Principal investigator: Dr. Hari Prasad Dasari ; Chemical Engg. at the cost of Rs. 11 Lakhs. (Period 2016 to 2017)
 13. Development of Quaternary Ceria - Based Catalysts for soot oxidation Activity sponsored by KIST Korea Principal investigator: Dr. Hari Prasad Dasari ; Chemical Engg. at the cost of Rs. 35 Lakhs. (Period 01/01/2017 to 01/01/2019)
 14. Development of Novel SOFC Electrolyte Materials with enhanced Ionic Conductivity sponsored by DST SERB India Principal investigator: Dr. Hari Prasad Dasari ; Chemical Engg. at the cost of Rs. 35 Lakhs. (Period 30/03 /2017 to 30/03/2020)
 15. Methanol as a clean Energy Source for india Sponsored by U.S. – india 21st Century knowledge initiative. Principal investigator: M B Saidutta, Umesh, Ruben Sudhakar D, hari Prasad Dasari at the cost of 91 lakh - - 1st August, 2016 – 31st July, 2019.

DEPARTMENT OF CIVIL ENGINEERING

Dr. BBD, DST & KIOCL, **Dr. Talla**,
Imprint

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

1. Development of tool for detection of XML based Injection Vulnerabilities in web applications-sponsored by DIT MCIT, PI: Dr. P. Santhi Thilagam Co-PI: Dr. Alwyn Roshan Pais, at the cost of 38.16 Lakhs, 2014-2016
2. FIST Program sponsored by DS, PI: Head of the Department CSE, at the cost of 56.00 Lakhs, 2014-2018
3. Information Security Education and awareness Phase-II-sponsored by DIT MCIT, PI: Dr. Alwyn Roshan Pais Co-PI: Dr. P. Santhi Thilagam, at the cost of 2.7 crore(Approx), 2015-2020
4. Design of a modular FPGA accelerated Chip Multiprocessor Architecture Simulator - sponsored by DST, PI: Dr. Basavaraj Talawar, at the cost of 26.9 Lakhs, 2016-2018
5. An automatic system for identification of phonological processes in children of age two and half to six and half years - sponsored by DST, PI: Dr. Shashidhar G. Koolagudi, Co-PI: Prof. Venkat Raja at the cost of 30.00 Lakhs, 2016-2019

6. Retinal cysts identification and quantification from low SNR optical coherence tomography scans using image processing techniques-- sponsored by DST (SERB EMR grant) PI: Dr. Jeny Rajan, Co- PI: Dr. Shashidhar G Koolagudi and Dr. Abhishek Kothari at the cost of 33.5 lakhs(Approx), 2017-2019
7. Development of Tool for Detecting of Application Layer Distributed Denial of Service Attacks on Web Applications-- sponsored by MEITY Government of India, PI: Dr. P. Santhi Thilagam at the cost of 29.78 Lakhs, 2017-2019
8. Characterization and identification of dialects in Kannada Language-- sponsored by DST-Science & Engineering Research Board(SERB) PI: Dr. Shashidhar G. Koolagudi at the cost of 35 Lakhs, 2017-2020.

DEPARTMENT OF CHEMISTRY

1. INSPIRE-Faculty Project, 'Chemical fixation of carbon dioxide via transition metal catalyzed carboxylation reactions', Dr. Beneesh P B, DST, 35 Lakh,
2. High Performance Thermoelectric Materials via Band Engineering, Dr D. Krishna Bhat, SERB, DST, 26.76 Lakh, 2016-19.
3. Towards development of Low cost, nanoporous hollow fiber membranes for Haemodialysis application, Dr A. M. Isloor, VGST, Govt of Karnataka, 60 lakh, 2015-18.
4. Synthesis of polyoxometalates-nanoparticles Hybrid based Catalysts for alkane oxidation.
5. Dr. Sib Sankar Mal, SERB, DST, 23.55 Lakh, 2015-18.
6. Renewable Synthesis of Hydrocarbon Fuels and Specialty Chemicals from Cellulose-derived Angelica Lactone, Dr. Saikat Dutta, SERB, DST, 29 Lakh, 2016-19. Proteins at the Interfaces of Liquids, Dr. Debashree Chakraborty, DST-SERB, 55 lakh, 2016-19.

DEPARTMENT ELECTRONICS AND COMMUNICATION ENGINEERING

1. Advanced Research Lab in RF Communications and Networks sponsored by DST, Govt. of India. Principal Investigator: Prof. Muralidhar Kulkarni and Prof. U. Shripathi Acharya; E&C Engg. at the cost of Rs. 116 Lakhs. (2016 to 2020).
2. Special Manpower Development Project on VLSI (SMDP-VLSI) phase-III - Chips-to-Systems sponsored by (DIT) MCIT, Govt. of India. Principal Investigator: Prof. Ramesh Kini M. and Prof. T. Laxminidhi; E&C Engg. at the cost of Rs. 1.6 Crores. (December 2014 to December 2019).
3. Development and Performance Evaluation of Efficient tracking Algorithms for phased array radars in the presence of electronic counter measures sponsored by SERB-DST, Govt. of India. Principal Investigator: Dr. P. Srihari.; E&C Engg. at the cost of Rs. 13.1 lakhs. (2016 to 2019).
4. Compact multi-band antenna with independently controlled resonant frequency and polarization for mobile wireless applications sponsored by SERB-DST, Govt. of India. Principal Investigator: Dr. Krishnamoorthy K.; E&C Engg. at the cost of Rs. 44.22 lakhs. (2017 to 2020).
5. Development and real-time implementation of fully automated liver cancer detection system from H&E stained liver histopathological images sponsored by SERB-DST, Govt. of India. Principal Investigator: Dr. Shyam Lal; E&C Engg. at the cost of Rs. 10 lakhs. (2017 to 2020).
6. Automatic Multilingual Speaker Profiling & Forensics sponsored by SERB-DST, Govt. of India. Principal Investigator: Dr. Deepu Vijayaseenan; E&C Engg. at the cost of Rs. 13.5 lakhs. (2017 to 2019).
7. Prognosis and diagnosis of osteoporosis and fracture risk assessment using image processing

- techniques sponsored by TEQIP II. Principal Investigator: Prof. Sumam David S.; E&C Engg. at the cost of Rs. 1.35 Lakhs. (2016 to 2017).
8. Design and Development of Smart Electrical Power Distribution and Water Management system sponsored by TEQIP-II. Principal Investigator: Prof. M. S. Bhat; E&C Engg. at the cost of Rs. 2.5 Lakhs. (2016 to 2017).
 9. Design, Development and Commissioning of Automatic Warning System for Unmanned level crossings for Indian Railways sponsored by TEQIP II. Principal Investigator: Prof. U. Shripathi Acharya and Prof. T. Laxminidhi; E&C Engg. at the cost of Rs. 4.00 Lakhs. (2015 to 2017).
 10. Intel Embedded Initiative sponsored by Intel Corporation. Principal Investigator: Prof. Sumam David S.; E&C Engg. at the cost of Rs. 5.3 Lakhs. (2011 to continuing).
 11. Building capacity in teaching and collaborative research in sensor systems for public utilities sponsored by RAE, under Newton Bhabha Programme & FICCI, UK. Principal Investigator: Prof. M. B. Saidutta; Chemical Engg., Prof. M. S. Bhat; E&C Engg. and Prof. K. P. Vittal ; E&E Engg. at the cost of Rs. 75 Lakhs. (March 2016 to February 2018).
 12. Designing a System to measure moisture content of Cashew seeds both raw and processed sponsored by Kalbavi Cashews, Mangalore. Principal Investigator: Prof. U. Shripathi Acharya and Prof. T. Laxminidhi; E&C Engg. at the cost of Rs. One lakh. (2015 to 2018)
 13. Study of Various Bias Estimation Techniques for Multi-sensor Multi-target Tracking sponsored by DRDO . Principal Investigator: Dr. Pathipati Srihari and Prof U. Shripathi Acharya at the cost of 10 lakhs. (2016-2017).
 14. Uncoordinated Secure and Energy Aware Access in Distributed Wireless Networks sponsored by Information Technology Research Academy. Principal Investigator: Prof. U. Shripathi Acharya; E&C

Engg. at the cost of Rs. 21.25 Lakhs. (01-01-2014 to 31-12-2017).

15. Energy Harvesting Seat sponsored by ANRC, Boeing. Principal Investigator: Prof. M. S. Bhat; E&C Engg. at the cost of Rs. 3.00 Lakhs. (2014 to 2017).

DEPARTMENT ELECTRICAL AND ELECTRONICS ENGINEERING

1. Grid Interfacing of Solar Power Generation: Design, development, and Investigation on High-frequency Transformer Isolated DC-DC Soft-switching Resonant Power Converters, Sponsored by SERB, DST, PI: Dr. Nagendrappa H., Rs. 48.94 Lakhs, 2017-18.
2. Adaptive MPPT of Grid- tied Photovoltaic System using Magnetically Coupled Impedance Source Inverters, Sponsored by SERB, DST, PI: Dr. D. Jena Co-PI: Dr. Nagendrapa H., Rs. 24.36 Lakhs, 2017-2020.
3. Standalone Evaporative Air Cooler – Pump flow and speed controller using solar energy, Sponsored by DST, Dr.B.Venkatesaperumal & Dr.A.Karthikeyan and Dr. M Arun (Mech) , Rs. 38.69 Lakhs, 2017 (2.5 years)
4. Solar water pump system, PI:Dr.B.Venkatesaperumal & Dr.A.Karthikeyan, Rs. 5 Lakhs, 2017 (1 year).
5. Project sanctioned under Newton - Bhabha funding scheme of Royal Academy of Engineering, UK and FICCI-NKFIH on "Building Capacity in Teaching and Collaborative Research in Sensor Systems for Public Utilities – i. Electric Distribution System & ii. Water Distribution System", UK Partnership institution: University of Birmingham, PI: Prof. Panduranga Vittal K., Rs.40 Lakhs, 2016-2018.
6. Two Research scholarships to investigate in the areas of i. Sensing Techniques, ii. Super-efficient Motor Control, under “Visvesvaraya PhD Scheme, GOI, MCIT, DEITY.PI:

- Prof. Panduranga Vittal K., Rs.40 Lakhs, 2015 – 2020.
7. Establishing center of excellence (CoE) in “Renewable Energy Source integrated Smart Grid Technologies (RENEST)” Frontier Areas of Science and Technology (FAST), MHRD, GOI. PI: Prof. Panduranga Vittal K., Rs.400 Lakhs (Sanctioned Rs.250 Lakhs under Phase 1), 2014-2018.
 8. Rainwater harvesting off the terrace of a high-raised building in coastal areas for micro-hydro power generation and utilization of rain water to augment the existing power and water supply facilities of NITK Surathkal., NITK-IRG, PI: Nagendrappa H., Rs. 5.0 Lakhs 2017-2018.
 9. A harmonic elimination scheme with reduced switching losses for a 3-phase Open-end winding Induction Machine using only conventional two-level inverters in the entire modulation range. Sponsored by SERB, PI: Dr. Sheron Figarado, Rs. 28 Lakhs, 2017-18.
 10. Development of Cost Effective Magneto-Rheological (MR) Fluid Damper in Two wheelers and Four Wheelers Automobile to Improve Ride Comfort and Stability, Sponsored by Ministry of Road, Transport and Highways, PI: Hemantha Kumar, Dept of ME, NITK, Co-PI: 1) Sujatha C., IITM, Chennai, 2) Gangadharan K. V., Dept of ME, NITK, 3) Sharnappa Joladarashi, Dept of ME, NITK, 4) Sandesh S., Ashok Leyland Ltd., 5) Sheron Figarado, Dept of EEE, NITK, 6) Mohammad Rizwanur Rahman, Dept of MME, NITK, 87) Raja Sekaran.S. Rambal Ltd, Rs. 355 Lakhs, 2017-2020.
 11. Investigation on the Operation & Control of Multiple Distributed Generation resources in a Microgrid(Phase-II). Ministry of Power , Govt. of India through, Central Power Research Institute Bangalore(CPRI). Dr. D. N. Gaonkar (PI), Dr. D. Jena (co-PI), Rs.25 Lakhs July 2016 to March 2018.
 12. Standalone Evaporative Air cooler – Pump flow and Fan speed controller using solar energy DST PI – Dr.B.Venkatesaperumal. Co-PIs- Dr. A.Karthikyen(EEE), & Dr.M.Arun (MECH)., Rs 38,69,800 2017-18.
 13. Center of Excellence in Smart Grid Technologies, Sponsored by MHRD, PI: Prof. K.P. Vittal, Dr. Manjunatha Sharaman K. Rs.250 Lakhs, 2014-18.

DEPARTMENT OF INFORMATION TECHNOLOGY

1. MIS for Academic, Administrative and Financial Activities of NITK Surathkal. Principal Investigator: Prof. G. R. M. Reddy, Prof. Ananthanarayana V S, Dr. Shyam S Kamath, Rs. 54 Lakhs, April 2017 - April 2019
2. Smart HCC: Automated Health Care Centre Activities, Principal Investigator: Prof. G. R. M. Reddy, Prof. T. P. Ashok Babu, Rs. 5.0 Lakhs June 2017 - June 2018
3. Technical Document Analysis and Recognition Using NLP and ML Techniques. Principal Investigator: Prof. G. R. M. Reddy, Samyak Jain, Vivek Bhat, Rs. 3.6 Lakhs, July 2017 - July 2018
4. Edge and Fog Computing Framework for Smart City, Principal Investigator: Prof. G. R. M. Reddy, Mr. Natesha B V, Rs. 25 Lakhs, July 2016-July 2021
5. Academic Centric Student Information System - ACSIS, Principal Investigator: Prof. Ananthanarayana V.S., Rs. 53,68,000, 2016 - 18
6. Visvesvaraya PhD Scheme for Electronics & IT, Media Lab Asia under Ministry of Electronics and IT, GoI. Principal Investigator: Prof. Ananthanarayana V.S (Nodal Officer) Rs. 1009.2516 Lakhs, 2014 – 2020.
7. A Framework for Deep Learning based Analytics for Intelligent Healthcare Applications. DST-SERB (Early Career Research Grant), Principal Investigator: Dr.

Sowmya Kamath S, Rs. 35 Lakhs,
Jun 2017 - Jun 2020

**DEPARTMENT MATHEMATICAL
AND COMPUTATIONAL SCIENCES**

1. Efficient Regularization methods for ill-posed Operator Equations and their Applications: Principal Investigator: Santhosh George, Dept. of MACS, at the cost of 18.5 lacs, Core Research Grant by SERB, Department of Science and Technology, Govt. of India, EMR/2017/001594(June 2018 to May 2021).

**DEPARTMENT MECHANICAL
ENGINEERING**

1. Principal Investigator: Dr. Hemantha Kumar, NITK ;Co – Investigators:- 1) Prof. C.Sujatha, Dept. of Mechanical Engineering, IIT Madras 2) Prof. K.V.Gangadharan, Dept. of Mechanical Engineering, NITK 3) Dr. Sharnappa J., Dept. of Mechanical Engineering, NITK 4) Dr. Mohd.Rizwan Rahman, Dept. of Material and Metallurgy Engg. NITK 5) Dr. Sheron F. Dept. of Electrical and Electronics Engg. NITK 6) Dr. Sandesh S. Senior Manager, Ashok Leyland Ltd. Chennai 7) Mr.Rajasekharan, Scientific Advisor, Rambal Ltd. Chennai. Development of Cost Effective Magneto-Rheological (MR) Fluid Damper in Two wheelers and Four Wheelers Automobile to Improve Ride Comfort and Stability 2017-2020, 3.55Cr, Ministry of Road Transfer and Highways, Govt. of India, Ministry of Human Resource Development, Govt. of India. Ongoing
2. Dr. Sharnappa J and Dr. Hemantha Kumar, Experimental Investigation of Passive, Semi-Active and Active Vibration Control of Composite Sandwich Structure.,2017-2020, 51.5Lakhs,DST, Govt. of India,Ongoing

3. Sathyabhama A, Experimental and Numerical Investigation of Effect of Leading edge Protuberances on the Performance of Wind Turbine Blade,2016-2019, 66lakhs,SERB,Ongoing
4. Dr. S C Kattimani and Dr. S M Murigendrappa, Experimental characterisation and numerical modelling of delamination growth in Fiber Reinforced Polymer laminated composites under cyclic loading,2016-2019,2684000,DST-SERB,Ongoing
5. Dr. S M Murigendrappa And Dr. S C Kattimani, An Experimental And Theoretical Investigation On Narrow Thermal Hysteresis Of Cu-Al-Be Based Sma Actuator For Vibration Isolation,2016-2019,1647800,Dst-Serb,Ongoing
6. Dr. S C Kattimani, Active Vibration Control Of Laminated Composite Sandwich Plates Inhygrothermal Environment Using 1-3 Piezoelectric Composites,2018-2021,47.90lakhs,Dst-Serb,Ongoing
7. Buckling and Free Vibration Characteristics of CNT reinforced Nano Composite Plate under Non-uniform Heating2018-2020,66 LakhsDRDO-ARDBOngoing
8. Dr. GandhamPhani Kumar (IITM), Dr. Srikanth Bontha (NITK) and Dr. Dheepa Srinivasan (GE Power) Understanding the Evolution of Residual Stress During Repair and Refurbishment of Gas Turbine Components via Laser Additive Manufacturing 2018-2020,66 Lakhs,UchchatarAvishkar Yojana (UAY),Sanctioned
9. Dr. MrityunjayDoddamani, Dr. Srikanth Bontha and Dr. Vamsi Krishna Balla Development of Composite Filament for Lightweight 3D Printed Components 2016-2019,33 Lakhs,DST-TECHNOLOGY SYSTEMS DEVELOPMENT PROGRAMME (TSDP)Ongoing
10. Experimental Investigation On Pulsating Synthetic Jet Micromixers To Determine The Injection Dynamics Of Insulin In Hydrogels For Subcutaneous Drug

- Delivery 2017-2020 32.67 Lakhs
DST-Serb Ongoing
11. Dr. Narendranath S. Investigation of machining characteristics of TiNi based shape memory alloys using Wire-EDM 2014-2018 18.11 lakhs DST-SERB Completed
 12. Dr. Ranjith M Investigations on the dynamic behaviour of bacterial helical flagellar filaments under axial flow 2017-2021 Lakhs DST-SERB Ongoing.

DEPARTMENT OF MINING ENGINEERING

1. "Investigations in to the Reduction of Phosphorous in Iron Ore Using Microwave Technology for its Suitability to the Iron & Steel Industries", R. Praveen Chandra, Mine Owner & Entrepreneur (ERM Group), Bangalore, 2017-2010. (Sanction order no. RPC/NITK/2017-18/170 dated 18/08/2017: Rs.10.06 lakhs)
2. "Development and Characterizations of Advanced Solar Cells", Sponsored by Karnataka Science and Technology Promotion Society, Bangalore 2017-2010. (Sanction order no. KSTEPS/VGST-CISEE/2017/271 dated 21/11/2017: Rs. 30 Lkaks)
3. Principal Investigator - R&D Project on "Impact of Work Conditions and Personal Attributes on Performance of Coal Miners: An Empirical Investigation", Sponsored by NITK-Surathkal under TEQIP-II, Rs. 3Lakhs (2016-2017).

DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

1. Corrosion and Impedance study of Ti-Nb alloy forms developed by PM techniques sponsored by DST-SERB, Principal Investigator: **Dr. S. B. Arya**, Dept. of Met & Matls. Engg. at the cost of Rs.18.81 lakhs (Period: 2015-17)

2. All solution processed transparent low temperature synthesized Indium Zinc Tin Oxide based high performance thin film transistors for active matrix displays sponsored by DST-SERB, Principal Investigator: **Dr. Saumen Mandel**, Dept. of Met & Matls. Engg. at the cost of Rs.21 lakhs (Period: 2016-18)
3. Augment the Research Facilities in the Department (i) X-Ray Diffractometer with Accessories, (ii) Field Emission Scanning Electron Microscope sponsored by DST - FIST, Principal Investigator: **Dr. Udaya Bhat K. & Dr. M. R. Rahman**, Dept. of Met & Matls. Engg. at the cost of Rs.297 lakhs (Period: 2018)

DEPARTMENT OF PHYSICS

1. DST-FIST Research facility for Physics Department, Principal Investigator: **Dr. H.S. Nagaraja**, Physics Department at the cost of Rs. 65 Lakhs (2013-2018)
2. DST-SERB-Si Electrodes for Li ion battery: Principal Investigators **Dr. H.S. Nagaraj and Dr. Ajith K.M.** Physics Department at the cost of Rs. 37 Lakhs (2015-2018)
3. Atomistic Modeling of metal organic compounds: towards molecular spintronics, Principal Investigator **Dr. Kartick Tarafder** Physics Department at the cost of Rs 12 Lakhs (2016-2019)
4. Dynamics of Low Energy Antifibrillation pacing: Unpinning pinned rotating waves using far field electric pulses. Principal Investigator: **Dr. T.K. Shajahan**; Physics Department at the cost of Rs. 30 Lakhs (2017-2020)
5. Transition Metal Oxide Based Devices for Nonvolatile Resistive Random Access Memory Applications. Principal Investigator: **Dr. Partha Pratim Das**, Physics Department at the cost of Rs. 37 lakhs (2017-2020)

SCHOOL OF MANAGEMENT

1. Project title – A Study of Adaptation to Technological Innovation in Agriculture to Mitigate Climate Change Effects and its Impacts on Rural farmers
2. Project Title – Coffee Certification and Food Security in Arakku valley in India

13.2 PROPOSED PLAN FOR RESEARCH

DEPARTMENT OF CHEMICAL ENGINEERING

Submitted proposals:

1. Proposal with Dr. Prasanna B.D, NITK and in collaboration with Prof. Rintu Banerjee, IIT Karagpur on 'Fibrinolytic enzymes production and purification' was submitted to the scheme 'Imprint II'
2. Proposal with Dr. GN Kumar and Dr. Gnanasekaran, NITK surathkal in collaboration with Dr. Krishnan Murugesan, Associate Professor, Indian Institute of Technology Roorkee, on "Design and development of portable hybrid energy production unit to synergistically produce electricity and biofuels by utilizing solar energy and non-edible oil' was submitted to the scheme 'Imprint II'.
3. Dr Vidhya Shetty K, Department of chemical Engg. Submitted imprint proposal on, "Design and development of a solar photocatalytic, flow through water disinfection unit using Ag@TiO₂ based nanocomposites as photocatalysts for community based application" in collaboration with IIT Bombay and Vijaya industries, udupi.

New Labs/Equipment

Establishment of Energy material Laboratory

Target for sponsored R&D projects:-

Soot Oxidation activity, Electrolyte material, SOFC, Mass Transfer in Nanofluids; Photocatalytic reduction of CO₂

DEPARTMENT OF CHEMISTRY

New Labs/Equipment:- Membrane Technology Laboratory. Surpass Electrokinetic analyzer, K-coater, Salinity testing unit, Hollow fiber spinning unit, Rotovapor

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Target for Sponsored R&D projects:- Project on Bio-Mechanics from IMPRINT Hand-held Doppler signal analysis from Karnataka State Govt. Projects from DRDO and LRDE.

New Areas of Research:- Bio-Mechanics

DEPARTMENT OF CIVIL ENGINEERING

Investigator Name	Funding Amount
Dr. Anjana Bhasi	DST
Dr. BBD	DST & KIOCL
Dr. Talla	Imprint

DEPARTMENT OF MATHEMATICAL & COMPUTATIONAL SCIENCES

"Operator Valued Frames" sponsored by DST; Area of research is Functional Analysis ; Future collaboration with IIT Chennai

DEPARTMENT OF MECHANICAL ENGINEERING

- Dr. Prasad Krishna, Dr. Sudhakar Jambagi, Development of Fly ash CNT reinforced Thermally Sprayed Coatings for Marine Structures for enhanced resistance to fouling, erosion and corrosion.
- Dr. Prasad Krishna, Virtual Prototyping Platform for Product Development

- Dr. Prasad Krishna, Effect of Geometry on Interfacial heat Transfer Coefficient at Metal-mold interface in Permanent Mold casting processes
- Dr. Prasad Krishna, Modeling of Residual stresses in Laser Surface Melting of TiAl Alloys
- Dr. Jeyaraj Pitchaimani, Vibro-acoustic analysis of sandwich panels under thermal loading
- Dr. Jeyaraj Pitchaimani, Development of biodegradable composite
- Dr. Srikanth Bontha, Computational Modeling of Laser Additive Manufacturing Processes
- Dr. Arumuga Perumal, Lattice Boltzmann simulation of NEMS devices
- Dr. Ranjith M, Design and analysis of microfluidic sperm sorter using CFD
- Dr. Ranjith M, Analysis of RBC migration and deformation under viscous flow using Immersed Boundary Method
- Dr. Hemantha Kumar, Characterization of Magnetorheological Monotube damper through Experimental and Computational Analysis
- Dr. Experimental and Theoretical Investigation on Fatigue Crack Growth Rate of Similar and Dissimilar Aluminium Alloy Joints Produced by Friction Stir Welding
- Dr. Hemantha Kumar, Condition Monitoring of Face Milling Tool using Vibration and Sound Signals Analyses
- Dr. Hemantha Kumar, Investigations on the use of Magnetorheological Fluid and Magnetorheological Elastomer in Structural Vibration Control
- Dr. Hemantha Kumar, Condition Monitoring of IC Engine using Online and Offline Monitoring Techniques
- Dr. Hemantha Kumar, Magnetorheological (MR) Fluid Damper Development for Vehicular Applications
- Dr. Hemantha Kumar, Synthesis and Characterization of Magnetorheological Fluids for Different Engineering Applications
- Dr. Hemantha Kumar, Vibration Analysis of Fully and Partially Treated Sandwiched Cantilever Beam with Magnetorheological Fluid
- Dr. Hemantha Kumar, Dynamic testing and Characterization of Friction Damper
- Dr. Hemantha Kumar, Tool Vibration Control by Magnetorheological Damper
- Dr. Hemantha Kumar, Study of vehicle dynamics of a four wheeler with MR Damper
- Dr. Hemantha Kumar, Design and control of MR Damper for prosthetic application
- Dr. Ramesh M R, Development of thermal spray coatings for tribological applications
- Dr. Srikanth Bontha, Laser Processing of Mg Alloys
- Dr. S. M. Murigendrappa, Design and Development of Vibration Actuator using SMA
- Dr. Anish S, Novel stent design for human carotid artery
- Dr. Anish S, Purge flow in turbine cascade
- Dr. Anish S, Overspray in gas turbine engine

DEPARTMENT OF INFORMATION TECHNOLOGY

New Labs/Equipment: Smart Healthcare, Green Cloud Datacenter, Edge/Fog Computing

Target for Sponsored R&D projects: DST-SERB

New Areas of Research: Internet of Things, QoS Aware Energy Efficient Datacenters, IoT for Smart City/Smart Building /Smart Home/Smart Classroom

Institutions / organizations for future collaborations: TCS Innovations Lab, IBM Cloud Centre of Excellence and CLOUDS LAB, Melbourne University

DEPARTMENT OF MINING ENGINEERING

One R&D project on 'Study of Human Body Vibration in Surface Mines' will be communicated to SERB under High Risk High Reward category.

DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING

New Labs/Equipment:

1. Surface Engineering Laboratory
2. Facility for assessment of health of quenchants
3. High performance workstation
4. Intel Fortran compilers

Target for Sponsored R&D projects:

1. To get at least one sponsored R&D project per year
2. DST Start up grant
3. BARC Young scientist start-up grant

New Areas of Research:

1. Surface Engg.
4. Smart Materials
5. Data base on liquid Quenchants
6. Wetting/ dewetting of liquids
7. Hydrodynamic stability
8. Shape Memory Alloys

DEPARTMENT OF PHYSICS

New Labs/Equipment:- CCD Camera, LabView Software, High end compute cluster and VASP software, Solar Simulator, Mask Aligner.

Target for sponsored R&D projects:- Medical industry, Hospitals (Manipal), Defence (DRDO), Energy sector (ISRO)

New areas of Research:- Plasmonics sensors, Terahertz components and devices (in collaboration with SAMEER, Mumbai and IIT Bombay)

SCHOOL OF MANAGEMENT

New areas of Research:- Climate Change Adaptation in agriculture, Energy and Environment.

MAJOR EQUIPMENT/FACILITIES

DEPARTMENT OF COMPUTER ENGINEERING

1. HP Desktop Computer Systems - Core I7, 8GB RAM, 500GB Hard disk
2. HP Prodesk 600 G3MT Desktop Computers – Intel Core i5, 8GB RAM, 1TB Hard disk
3. Dell-R740 - Dell Power Edge R740 Server with 192GB RAM FFSKLN2

DEPARTMENT OF MECHANICAL ENGINEERING

- Vacuum Arc Melting Furnace, Image Analyzer, Universal Testing Machine, Wire Electro Discharge Machine, Vickers Hardness Tester, Double headed Rolling Machine
- Electromagnetic shaker (100kgf, 50kgf, 25kgf), Horizontal slip table, VTS electro-dynamic shaker (25lbs), Gauss meter, Electro magnets (1.5 Tesla), Impact hammer, Single and tri-axial accelerometers, Data acquisition system(NI, HBM), Microphone and SLM, MicroEpsilon Laser displacement pickups, ADAMS, NASTRAN, PATRON, MARC, DITRON, ANSYS, Devitron, Labview
- Lego Robotic Kit, Firebird, Basic Electronic Components, DC Motors, Connecting Pins, Wires, LEDs Berg Strip, and Bread Board, Quadcopter kit, Wall Following Robot
- Linear Measurements: Vernier Caliper, Vernier Depth Gauge, Vernier Height Gauge
- Micrometer: External Micrometer, Internal Micrometer, Jaw Type Inside Micrometer, Caliper Type Inside Micrometer, Depth Micrometer, Bench Micrometer, Digital Micrometer, Telescopic Gauge
- **Measurement Using Slip Gauge:** Calibration of Micrometer, Vernier Caliper, Calibration of Height Gauge, Snapgauge, Ring Gauge and Plug Gauge, Measurement of Mean Distance between Surface and Spacing between Holes, Measurement of Dovetail Angle and Checking the Taper Angle of Taper Plug Gauge, Checking An Angle Plate, Study On Limit And Position Gauges
- **D.Linear and Angle Measurement:** Combination Set.
 - **E.Angle Measurement:** Universal Bevel Protractor, Sine Bar

- **F. Flatness And Straightness Measurement:** Clinometer
- **G. Screw Thread Measurement:** Screw Pitch Gauge, Screw Thread Micrometer, Effective Diameter Measurement Using Two Wire And Three Wire Method.
- **H. Gear Tooth Measurement:** Vernier Gear Tooth Caliper, Tooth Span Micrometer
- **Study On Opto-Mechanical Instruments:** Tool Makers Microscope, Measurement Using Comparator
- **J. Surface Roughness Measurement:** Surface Roughness Meter (SJ 301)
- Micro heat pipe test rig, Vapour pressure determination test rig, Weather simulation chamber & Window air conditioner test rig, Thermoelectric refrigeration test rig, 2 Stage VCR test rig with intercooler, Condenser pressure variation VCR test rig, Vortex tube refrigeration test rig, Air engine test rig
- MEMS Sensors, Scanning Tunneling Microscope, Self Build Kit, Atomic Force Microscope, Comsol and Intellisuite (Courtesy : NMDC), Sugar Toolbox and MATLAB (Institute Network)
- Free convection heat transfer, Heat transfer through composite walls, Water cooling tower, Shell and tube heat exchanger, Measurement of thermal conductivity of metal rod, Measurement of thermal conductivity of solids, Computerized vapour compression refrigeration test rig, Peristaltic pump model, Air conditioning test rig, Vapor compression refrigeration test rig, Heat pipe demonstrator, Heat transfer through extended surfaces, Measurement of emissivity of metal surfaces, Heat transfer through lagged pipe, Heat transfer through Forced convection, Computerized Air conditioning test rig, Boiling heat transfer apparatus, Film and Drop wise condensation, Ice plant tutor, Parallel flow heat exchanger, Plate Heat exchanger, Heat pump setup, Fluidized Bed system, Refrigerator, Natural convection, Critical Heat flux apparatus
- Kinematics of Epicyclic Gear, Kinematics of Cam Mechanism, Kinematics of Gear Train, Kinematics of Slider Crank Mechanism, Spring Mass System, Transmissibility Apparatus, Free Vibration of beam, Experimental Modal Analysis
- Trainer Lathe, Trainer Milling Machine, Electro Pneumatic Trainer Kit with Cylinders and Control valves
- MMM Vertical 4- Stroke Diesel Engine, Textool 2- Stroke Vertical Diesel Engine, Textool 4- Stroke Vertical Diesel Engine, Valve and Port Timing Diagrams, Compression Ratio of given IC Engines (b) Morse Test, Computerized multi-cylinder MPFI Gasoline engine, Computerized Single cylinder DI Diesel Engine, Exhaust Gas Analyzer, Hydrogen fuelled SI Engine test rig, CRDI Diesel Engine test rig, Kirloskar Diesel Engine test rig
- Boys gas Calorimeter set (Calorimeter + gas flow meter (0-1000ml), Saybolt Viscometer, Redwood viscometer, TAR Viscometer (Redwood viscometer), Instech Calorimeter, Flashpoint tester (Close-up), Barometer with room temperature no. 597, Digital weighing machine (0-10 grams), Saybolt Viscometer (old), Bomb Calorimeter, Cleveland Flash & fire point apparatus, Weighing machine (0-2 kg)
- Spring mass system, Whirling shaft apparatus, Motorised gyroscope apparatus, Digital weighing machine (0-50 kgs), Physical balance, Dead weight tester (0-35 kg), Digital dead weight tester (0-60 kg), Digital dead weight tester (0-250 kg), Planimeter set, Thermo-Hygrograph H-10/100%, Computerised Emission test set up, Single stage spur gear, Single stage spur gear with intermediate, Two stage spur gear, Three stage spur gear, Three speed and reverse

- gear, Wormgear, Bevelgear, Rack and quadrant gear drive, Reversing gear, picyclic gear (sun & planet), Cycloidal motion, Internal rolling gear drive, Internal gear and pinion drive spur gear
- IRIS CAR (Lab Car), with Breakout box, ECU, Injector Box, Wire harness, Communication Module, DC Power Supply, Function Generator, Oscilloscope, Cut Section Models
 - Center Lathe, Heavy duty Center Lathe, Geared head Center Lathe, Shaping machine, Universal Milling Machine, Heavy duty pillar type drilling machine, Light duty pillar type drilling machine, Pedestal grinding machine, Capstan Lathe
 - Surface Grinding Machine, Cylindrical Grinding Machine, Capstan Lathe, Horizontal Milling Machine with Vertical attachment, Broaching Machine, Light Duty Shaper, Heavy Duty Shaper, Slotting Machine, Planner, Cutter, Grinding Machine, Heavy Cylindrical Grinding Machine, CNC Milling Centre, CNC Turning Centre, Heavy Duty Shearing Machine, Hydraulic Press, Heavy Duty Radial Drilling Machine, Hydraulic Radial Drilling Machine, Universal Milling Machine, Centre Lathe, Hydraulic Compressor
 - Wood turning lathe, Circular saw, Carpentry bench vise and table
 - Bench vise with table, Surface plate, Anvil, Power Tool, Drilling set and accessories, Saber saw, Jig saw, Hot air gun, Tappers, Nibbler, Shearing machine, Grinding machine, Circular saw, Impact wrench, Battery operated drill, Blower, Eccentric sander, Router machine, Wood planner, Jig saw, Hammer drilling, Core cutter drilling machine
 - Soldering table, Bench vise, Shearing machine
 - Subsonic wind tunnel
 - Experimental Modal Analysis, Tuned Impulse Hammer, Modal Analysis Software, Forced Vibration Analysis, Minishaker with controller
 - Moulding facility

- Pin on Disc Tribometer, Metallurgical Sample Saw, High Temperature Tubular furnace, Ball mill, Disc Polishing Machine, Microscope, sigma Z blade mixer
- Free and forced vibration setup with controller, Impact hammer, Tri-axial accelerometer, Electrodynamic shaker, Analyzer, closed loop controller, force sensor, impedance head
- Low speed compressor cascade test facility, Low speed turbine cascade test facility, Centrifugal blower test rig
- Desiccant analysis test rig
3-D Printing, Material Extrusion, Fused Deposition Modeling based 3-D Printer, Single Screw Extruder

New Labs/Equipment:-

- Mechanism Design Laboratory
- Microfluids and Nanofluids Laboratory
- Biophysics Laboratory
- Automation Technologies (Lab I)
- Automation Technologies (Lab II)
- Advanced Manufacturing Laboratory
- Light Weight Materials Laboratory
- Sample Preparation Laboratory
- Multiphase Fluid Dynamics Laboratory
- Additive Manufacturing Laboratory
- Boiling Heat Transfer Laboratory
- Solidification Simulation Laboratory
- Foundry Laboratory
- Advanced Heat Transfer Laboratory
- Solar Energy Laboratory
- Welding Laboratory
- Advanced Fluid Mechanics Laboratory
- Computational Mechanics Laboratory
- Vehicle Dynamics Laboratory
- Smart Materials Laboratory
- Computational Fluid Dynamics Laboratory
- Combustion Laboratory
- Renewable Energy Laboratory
- Design Innovation Centre
- First Composite Centre
- Functional Materials Laboratory
- Manufacturing Laboratory

- Advanced Machining Division
- Melting Section
- Materials Testing Section
- Corrosion Engineering Laboratory
- Pyrolysis, Gasification and Torrefaction Laboratory

DEPARTMENT OF MINING ENGINEERING

Human Vibration Meter & Analyser with Accessories Rs.399777.00

Total station, NOVA DGPS

DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

Sl. No.	Name of the Equipment
1	Dynamic Control Angle Analyzer
2	Form Talysurf Intra with Ultra Software with accessories
3	Digital Image Analysis System Camera Adopter
4	Heating Stage Temperature upto 1500°C (Furnace)
5	Jeol Model SEM
6	Tensile Testing Machine fully Computerized
7	Melt Flow Indexer
8	Dage 4000 Plus Bond Tester & Image Capture System
9	Joel High Resolution Transmission Electron Microscope (TEM)
10	EDS System for Jeol TEM
11	Bottom Mount Camera (TEM)
12	Jasco FTIR Spectrometer
13	Portable Quenchant Test System with Quench Probe & Thermocouple Heating Furnace
14	Universal Testing Machine of 30 KN Capacity with Accessories
15	Salt Spray Bath
16	Shimadzu Micro Vickers Hardness Tester

- 17 Magnetic Sputtering PVD Unit
- 18 Scratch Hardness Tester Linear Tester
- 19 Low Temperature Ion Milling System with Accessories for TEM
- 20 Tensile Tester with Accessories
- 21 SP-150 Potentiostat Galvanostat Chassis along with accessories
- 22 Trinocular Reflected Light Microscope with Digital Camera
- 23 Differential Scanning Calorimeter

DEPARTMENT OF PHYSICS

1. High power Nd:YAG laser
2. Jobin Yvon Spectrometer
3. Physical Deposition Units
4. Spray Pyrolysis Units
5. Photoluminescence Spectrometer
6. X-ray Diffractometers

INTERNATIONAL JOURNAL :-

DEPARTMENT OF APPLIED MECHANICS AND HYDRAULICS

1. Jagalingam P and Arkal Vittal Hegde*, Evaluation of pan-sharpening methods for spatial and spectral quality Applied GEOMATICS, Springer, online, DOI: 10.1007/s12518-016-0179-2. SPRINGER PUBLISHERS
2. Jagalingam P and Arkal Vittal Hegde*, Estimation of bathymetry along the coast of Mangaluru using Landsat-8 Imagery, Int. J. of Ocean and Climate systems, Vol. 8, issue 2, 2017, DOI: 10.1177/1759313116679672, SAGE PUBLISHERS
3. Jagalingam P and Arkal Vittal Hegde*, Pan-sharpening the spatial resolution of multispectral imagery Arabian journal of Geoscience, Springer. Online, DOI: 10.1007/s12517-017-2878-3. SPRINGER PUBLISHERS
4. Jagalingam P and **Arkal Vittal Hegde***, A Comparative Study on Extraction of Buildings from Quickbird-2 Satellite Imagery with & without Fusion, Cogent Engineering,

- T&F, 2017(4): 1-17. TAYLOR AND FRANCIS PUBLISHERS
5. Akshaya B J And **Arkal Vittal Hegde***, Assessment of Coastal Vulnerability to combined effects of Socio-Economical Factors and Erosion on Karnataka Coast with the aid of Integrated Remote Sensing and GIS Techniques International Journal of Earth Sciences and Engineering (IJEE), Vol. 10, No. 2, April 2017. pp 313-320. CAFET-INOVA PUBLISHERS, SCOPUS INDEXED
 6. Suman K and **Arkal V Hegde***, Current approaches in artificial intelligence in breakwaters – A review Ocean Systems Engineering, Vol. 7, No. 2, (2017), 75-87. Techno-Press Publishers, Korea
 7. Kumar Raju B. C. and **Nandagiri, L.***, Analysis of Historical Trends in Hydrometeorological Variables in the Upper Cauvery Basin, Karnataka, India, *Current Science*, 112(3), 577-587, February 2017
 8. Kiros, G., Shetty, A. & **Nandagiri, L.***, Extreme Rainfall Signatures under Changing Climate in Semi-arid Northern Highlands of Ethiopia, *Cogent Geoscience*, (Taylor & Francis Online) 3: 1353719, 2017
 9. Kumar Raju B.C. and **L. Nandagiri***, Assessment of Variable Source Area Hydrological models in humid tropical watersheds, *International Journal of River Basin Management* (Taylor & Francis), DOI: 10.1080/15715124.2017.1372446, Sept 2017.
 10. Amogh M. and **Amai Mahesha***, Regional climate trends and topographic influence over the western ghat catchments of India., *International Journal of Climatology* (Wiley Publishers) , <http://onlinelibrary.wiley.com/doi/10.1002/joc.5333/full>
 11. Amogh M. and **Amai Mahesh***, Evaluation of bias correction methods for hydrologic impact studies over the western ghat basins of India, *Journal of Hydrologic Engg.*, American Society of Civil Engineers [http://ascelibrary.org/doi/abs/10.1061/\(ASCE\)HE.1943-5584.0001598](http://ascelibrary.org/doi/abs/10.1061/(ASCE)HE.1943-5584.0001598).
 12. Amogh M., Raikar RV, B. Venkatesh and **Amai Mahesh***, Climate Change Impact on Varied River Flow Regimes of Southern India, *Journal of Hydrologic Engg.*, American Society of Civil Engineers, [http://ascelibrary.org/doi/abs/10.1061/\(ASCE\)HE.1943-5584.0001556](http://ascelibrary.org/doi/abs/10.1061/(ASCE)HE.1943-5584.0001556)
 13. Subrahmanya K. and **Amai Mahesh***, Groundwater Flow and Transport Modelling Around Gurupura Wetlands, Karnataka, India, *International Journal of Earth Sciences & Engineering*, ISSN 0974-5904, Volume 10, No. 03, 649-658. DOI:10.21276/ijee.2017.10.0324.
 14. Suryawanshi V. and **Amai Mahesh***, Environmental assessment of soil erosion on Pavanje river basin Int. J. Advance Engineering and Research Development, 4(2), 294-300. ISSN: 2348-4470 (E) / 2348-6406 (P)
 15. Binumol S, **Subba Rao***, Arkal Vittal Hegde, Hydrodynamic performance characteristics of emerged perforated quarter circle breakwater, *International journal of Innovative Research in Science, Engineering and Technology*, Vol. 6, Special Issue 4, pp 44-48 , (ISSN 2347-6710 (Print); ISSN 2319-8753 (Online)).
 16. Geetha S Kuntoji, **Subba Rao***, Manu and Mandal S, Performance evaluation of ANFIS and SVM in prediction of wave transmission over submerged reef of tandem breakwater, *International Journal of Ecology and Development (IJED)*, Scopus indexed journal, CESER Publications, Vol. 32, No. 2; pp 141 – 155, (ISSN 0972-9984 (Print); ISSN 0973-7308 (Online)).
 17. Geetha S Kuntoji, **Subba Rao***, Manu and Mandal S, Application of Support Vector Machine technique for damage level prediction of Tandem breakwater, *International Journal of Earth Sciences and Engineering (IJEE)*, vol. 10(3), june 2017, PP. 633-638 (<http://dx.doi.org/10.21276/ijee.2017.10.0322>) and ISSN 0974-5904
 18. S. Minu, **Amba Shetty***, Budiman Minasny & Cécile Gomez , The role of atmospheric correction algorithms in

- the prediction of soil organic carbon from Hyperion data, International Journal of Remote Sensing Vol. 38 , Issue. 23,2017. Taylor and Francis Publications
19. Vinay C. Doranalu **Amba Shetty*** , Comparison of Rainfall Trends in the Western Ghats and Coastal Region of Karnataka, India , International Journal of Environmental and Ecological Engineering Vol:4, No:6, 2017doi:10.1999/1307-6892/62393
 20. Vinay Doranalu Chandrashekar, **Amba Shetty***, Bhupendra Bahdur Singh, Shonam Sharma , Spatio-temporal precipitation variability over Western Ghats and Coastal region of Karnataka, envisaged using high resolution observed gridded data Modelling Earth Systems and Environment, Springer DOI 10.1007/s40808-017-039
 21. Suparno Ghosh and **Amba Shetty *** , Modelling the land use system process for a pre-industrial landscape in India Model., Earth Syst. Environ. (2017) 3: 703. <https://doi.org/10.1007/s40808-017-0329-5>
 22. C. A. Rishikeshan & **H. Ramesh***, A novel mathematical morphology based algorithm for shoreline extraction from satellite images, Geo-spatial Information Science (Taylor & Francis)
 23. Ashwathi P Anil and **Ramesh H.***, Analysis of climate trend and effect of land use land cover change on Harangi streamflow, South India-A case study, J. Sustainable Water Resources Management (Springer),
 24. Rohith John, **Ramesh H***, Colour Based Segmentation of a Landsat Image Using K-Means Clustering Algorithm.
 25. Journal of Image Processing & Pattern Recognition Progress (STM Publication)Ramesh Adep, Amba Shetty, **Ramesh H***, EXhype: A tool for mineral classification using hyperspectral data.
 26. ISPR J. of Photogrammetry and Remote Sensing Sujay Raghavendra Naganna, **Paresh Chandra Deka***, Sudheer Ch &William F. Hansen, Factors influencing streambed hydraulic conductivity and their implications on stream-aquifer interaction :a conceptual review Environmental Science and Pollution Research, DOI 10.1007/s 11356-017-0393-4,published online 7th October2017,SPRINGER,pp.1-25
 27. Mohammad Rezaie, Sujay Raghavendra, Alireza Ghaemi, **Paresh Chandra Deka***, Wavelet coupled MARS and M5 Model Tree approaches for groundwater level forecasting, Journal of Hydrology,Elsevier,553,356-373 [dx.doi.org/10.1016/j.hydrolcompag.2017.08.006](https://doi.org/10.1016/j.hydrolcompag.2017.08.006)
 28. Leeladhar Pammar and **Paresh Chandra Deka***, Daily pan evaporation modeling in climatically contrasting zones with hybridization of wavelet transform and support vector machines, Paddy and Water environment journal, SPRINGER,Vol.15,no.4,pp.711-722, DOI 10.1007/s10333-016-0571-x,published online 22nd May,2017
 29. Amit Prakash Patil and **Paresh Chandra Deka***, Performance evaluation of hybrid wavelet-ANN and Wavelet-ANFIS models for estimating evapotranspiration in arid regions of India, Neural computing and publications,[SPRINGER]IF =1.49 28(2),275-285. <http://dx.doi.org/10.1007/s00521-015-2055-0>
 30. More, S.B., **Deka, P.C.***, Estimation of saturated hydraulic conductivity using fuzzy neural network in a semi-arid basin scale, for murum soils of India, ISH Journal of Hydraulic Engineering, pp. 1-7. Article in PressDOI: 10.1080/09715010.2017.1400408
 31. **Deka, P.C.***, Patil, A.P., Yeswanth Kumar, P., Naganna, S.R., Estimation of dew point temperature using SVM and ELM for humid and semi-arid regions of India, ISH Journal of Hydraulic Engineering, pp. 1-8. Article in Press.DOI: 10.1080/09715010.2017.1408037
 32. **Vadivuchezhian K*.**, Estimation of friction distribution in partial-slip contacts from reciprocating full-sliding testsTribology International
 33. A I Shirkol and **Nasar, T***, Wave interaction with Floating platform of different shapes and supports using BEM approach, Journal of Naval

DEPARTMENT OF CHEMICAL ENGINEERING

1. Gangamma S. "Lancet commission on pollution: Action plans and human resource development in India". *The Lancet* (Impact factor: 44), 2018. (Accepted for publication).
2. S. Gangamma, S. Desai, V. Sowmiya, V. Seethalakshmi, T.K. Deepak, D. Vishnu Priya, S. Krishnaja. "Air Pollution and Vulnerability to Respiratory Infections: *In Vitro* Studies on Particulate Matter from Indian Cities." *Am J. Respir. Crit. Care Med.*;195, 2017.(Impact factor 13.1)
3. Manirethan, V., Raval, K., Rajan, R., Thaira, H., Balakrishnan, R.M., "Kinetic and thermodynamic studies on the adsorption of heavy metals from aqueous solution by melanin nanopigment obtained from marine source: *Pseudomonas stutzeri*", *Journal of Environmental Management*, 10.1016/j.jenvman.2018.02.084, vol. 314, pp. 315-324, 2018
4. Thaira, H., Raval, K., Manirethan, V., Balakrishnan, R.M., "Melanin nano-pigments for heavy metal remediation from water", *Separation Science and Technology* (Philadelphia), 10.1080/01496395.2018.1443132, pp. 1 to 10, 2018
5. Raval, R., Simsa, R., Raval, K., "Expression studies of *Bacillus licheniformis* chitin deacetylase in *E. coli* Rosetta cells", *International Journal of Biological Macromolecules*, 10.1016/j.ijbiomac.2017.01.151, vol. 104, pp. 1692-1696, 2017
6. Pangannaya, S., Kaur, A., Mohan, M., Raval, K., Chand, D.K., Trivedi, D.R., "Synthesis and spectral investigation of colorimetric receptors for the dual detection of copper and acetate ions: application in molecular logic gates", *Supramolecular Chemistry*, 10.1080/10610278.2017.1298764, vol. 29, pp. 561-574, 2017
7. Raval, K., Gehlot, K., Prasanna, B.D., "Scale-up of naringinase production process based on the constant oxygen transfer rate for a novel strain of *Bacillus methylotrophicus*", 2017, *Preparative Biochemistry and Biotechnology*, 10.1080/10826068.2016.1201680, vol. 47, pp: 192-198
8. Anusha Krishnamurthy, Prasanna Devarbhat Belur (2018) A novel fibrinolytic serine metalloprotease from the marine *Serratia marcescens* subsp. *sakuensis*: Purification and characterization, *Journal of Biological Macromolecules*, 112, 110-118
9. Charanyaa Sampath, Prasanna D. Belur, Regupathi Iyyasami (2018) Enhancement of n-3 polyunsaturated fatty acid glycerides in Sardine oil by a bioimprinted cross-linked *Candida rugosa* lipase, *Enzyme and Microbial Technology* 110, 20-29.
10. Chandrasekar Vaisali, Prasanna D. Belur & Regupathi Iyyaswami (2018) Effectiveness of rutin and its lipophilic ester in improving oxidative stability of sardine oil containing trace water, *International Journal of Food Science and Technology*, doi:10.1111/ijfs.13627
11. Karishma Gururajan, Prasanna D. Belur (2018) Screening and selection of indigenous metal tolerant fungal isolates for heavy metal removal, *Environmental Technology & Innovation*, 9, 91-99
12. Krishnamurthy, A., Belur, P.D., Rai, P. and Rekha, P.D. (2017). Production of Fibrinolytic Enzyme by the Marine Isolate *Serratia marcescens* subsp. *sakuensis* and its in vitro Anticoagulant and Thrombolytic Potential. *Journal of Pure and Applied Microbiology.*, 11(4), 1987-1998

13. S. Pawar Swapnali, Iyyaswami Regupathi, D. Belur Prasanna (2017) Reverse micellar extraction of lactoferrin from its synthetic solution using CTAB/n-heptanol system, *Journal of Food Science and Technology*, 54(11), 3630–3639,
14. S. Charanyaa, Prasanna D. Belur, I. Regupathi (2017) A new strategy to refine crude Indian sardine oil, *Journal of Oleo Science*, 66(5), 425-434. Doi : 10.5650/jos.ess16164
15. C. Vaisali, Prasanna D. Belur, Regupathi Iyyaswami (2017) Lipase mediated synthesis of rutin fatty ester: Study of its process parameters and solvent polarity, *Food Chemistry*, 232, 278–285.
16. Kunal Kumar and Prasanna Devarabhat Belur (2017) Chemical modification of oxalate oxidase produced from *Ochrobactrum intermedium* CL6 gave new insight on its catalytic prowess, *Asian Journal of Biochemistry*, 12(1), 9-15.
17. C. Vaisali, Prasanna D. Belur, Regupathi Iyyaswami (2017) Lipase mediated synthesis of rutin fatty ester: Study of its process parameters and solvent polarity, *Food Chemistry*, 232, 278–285.
18. L. Shrutee, Tim Van Geel, Eldon R. Rene, B. Raj Mohan, Abhishek Dutta “Experimental and Numerical Study of the Hydrodynamics of a Thin Film Reactor(TFR) for the Decarboxylation of Anacardic Acid” **International Journal of Chemical Reactor Engineering**. 2018- DOI:10.1515/ijcre-2017-0135.
19. Gopinath Kalaiarasan, Adarsh M, Raj Mohan Balakrishnan, R J Krupadam. “Characterization and Source Identification of Poly Cyclic Aromatic Hydrocarbons (PAHS) for Coastal Industrial City Mangalore, India”. **International Journal of Science and Technology- 2017** ISSN 2454-5880. doi.org/10.20319/Mijst.2017.31.0115
20. Basavaraj S Nainegali, **I Regupathi** And Prasanna Belur D “ Aqueous Two-phase Extraction of Anthocyanin from Fruits of *Garcinia indica*,”**International Journal of Earth Sciences and Engineering**, 2017 10(03), 688-692, (DOI:10.21276/ijee.2017.10.0330)
21. Sivananth Murugesan, Arathy Sarayu, Sahana Vijay kumar, **Regupathi Iyyaswami** “AOT Induced Reverse Micellar Extraction of L-Asparaginase from *Azotobacter vinelandii*” **Bioprocessing and biosystem Engg**, 2017- V 40:1163-1171 (DOI 10.1007/s00449-017-1777-z)
22. Sivananth Murugesan, **Regupathi Iyyaswami** “Low frequency sonic waves assisted cloud point extraction of polyhydroxyalkanoate from *Cupriavidus necator*” **Journal of Chromatography B**, -2017 - V 1060, 207–214, (DOI: 10.1016/j.jchromb.2017.06.009)
23. Sivananth Murugesan, **Regupathi Iyyaswami** “Nonionic surfactants induced cloud point extraction of Polyhydroxyalkanoate (PHA) from *Cupriavidus necator*” **Separation science and Technology** -2017 (DOI: 10.1080/01496395.2017.1307227)
24. Vaisali chandrasekar, Prasanna Belur, **Regupathi Iyyaswami** (2017) Effect of process parameters on the enzymatic synthesis of rutin fatty ester, **Food Chemistry**, 232, 278–285.(DOI: 10.1016/j.foodchem.2017.03.168)
25. Charanyaa Sampath; Prasanna Belur; **Regupathi I** (2017) ‘A New Strategy to Refine Crude Indian Sardine Oil’ **Journal of Oleo Science**, (DOI: 10.5650/jos.ess16164)
26. Swapnali S.Pawar; **I.Regupathi;** B.D.Prasanna (2017) Reverse micellar partitioning of Bovine Serum Albumin with novel system, **Resource-Efficient Technologies**(DOI:10.1016/j.reffit.2017.06.004)
27. Zenab Abbas, Mythili Surendran, Anjana P.A. Jidev P.K , Harshini Dasari , Sudhakar Naidu N , Anandhan S , Udaya Bhat K , Uday Bhaskar Babu G , **Hari Prasad Dasari** “Solubility Limits of RE-doped Ceria-Zirconia Solid-Solutions”, *Materials Today*:

- Proceedings
<https://doi.org/10.1016/j.matpr.2017.06.185>, Vol 4. Pages 9360-9364
28. Anjana P Anantharaman, **Hari Prasad Dasari**, Jong-Ho Lee, Harshini Dasari, G Uday Bhaskar Babu "Soot Oxidation Activity of Redox and Non-Redox Metal Oxides Synthesised by EDTA-Citrate Method Catalysis Letters, DOI: <https://doi.org/10.1007/s10562-017-2181-7> vol 147, Pages 3004-3016
 29. Medisetti Srikar, Ahn Junsung, Patil Sunaina, Goel Apoorva, Bangaru Yaswanth, Sabhahit Gautam V., Babu G. Uday Baskar, Lee Jong-Ho, **Dasari Hari Prasad** "Synthesis of GDC electrolyte material for IT-SOFCs using glucose & fructose and its characterization" Nano-Structures & Nano-Objects, DOI: <https://doi.org/10.1016/j.nanoso.2017.05.009> , Vol 11 Pages 7-12
 30. Shankramma Kalikeri, Vidya Shetty K "Solar light driven photocatalysis using mixed phase bismuth ferrite (BiFeO₃/Bi₂₅FeO₄₀) nanoparticles for remediation of dye contaminated water: Kinetics and comparison with artificial UV and visible light mediated photocatalysis" Environmental Science and Pollution Research ;25(14):13881-13893. DOI:10.1007/s11356-018-1291-0, 2018
 31. Shankramma Kalikeri. Nidhi Kamath, & Dhanashri Jayant Gadgil, Vidya Shetty Kodialbail (2017) "Visible light-induced photocatalytic degradation of Reactive Blue-19 over highly efficient polyaniline-TiO₂ nanocomposite: a comparative study with solar and UV photocatalysis." Environmental Science and Pollution Research, 25(4): 3731-3744
<https://doi.org/10.1007/s11356-017-0663-2>, 2018
 32. Sreeja S, Vidya Shetty K (2017), "Photocatalytic water disinfection under solar irradiation by Ag@TiO₂ core-shell structured nanoparticles," Solar Energy, 157, 236-243
 33. Aishwarya Devadiga, K. Vidya Shetty, M.B. Saidutta (2017), "Highly stable silver nanoparticles synthesized using *Terminalia catappa* leaves as antibacterial agent and colorimetric mercury sensor, Materials Letters," 207, 66-71
 34. G.M. Ratnamala, Vidya Shetty K, G. Srinikethan (2017), "Simultaneous adsorption of Remazol brilliant blue and Disperse orange dyes on red mud and isotherms for the mixed dye system," Environmental Science and Pollution Research, 24(3), 18912-18925
 35. Manjula Puttaswamy, Govindan Srinikethan, Vidya Shetty K (2017), "Biocomposite composed of PVA reinforced with cellulose microfibers isolated from biofuel industrial dissipate: Jatropha Curcus L. seed shell," Journal of Environmental Chemical Engineering, 5(2), 1990-1997
 36. Puttaswamy Manjula, Govindan Srinikethan and K. Vidya Shetty (2017), "Biofibres from biofuel industrial byproduct—Pongamia pinnata seed hull, Bioresources and Bioprocessing," 4:14; 1:10
 37. Ajay sundar and raj mohan Balakrishnan "Biosynthesis of Cobalt Oxide Nanoparticles using Endophytic Fungus Aspergillus nidulas" Journal of Environmental Management 2018 (In press)
 38. Gopinath Kalaiarasan and Raj Mohan Balakrishnan "Source apportionment studies of particulate matter (PM₁₀ and PM_{2.5}) in ambient air of urban Mangalore" Journal of Environmental Management 2018 (In press) DOI: 10.1016/j.jenvman.2018.04.040.
 39. Priyanka U, Raj Mohan B, "Thermal and optical characterization of biologically synthesized ZnS nanoparticles synthesized from an endophytic fungus Aspergillus Flavus: A colorimetric probe in metal detection". Spectrochimica Acta Part A: Molecular and Biomolecular spectroscopy – 2017 Vol. 175, pages 200-207 (IF=2.65)
 40. Gopinath Kalaiarasan, Raj Mohan B, Neethu A S, Sivamoorthy M, (2017) Source Apportionment of PM 2.5 particles: Influence of outdoor particles on indoor environment of schools using chemical mass Balance. Aerosol and Air Quality

Research (in press). Doi:
10.4209/aaqr.2016.07.0297.

DEPARTMENT OF CIVIL ENGINEERING

1. R.Manjunath and Mattur C. Narasimhan "An Experimental Investigation on Self-Compacting Alkali-Activated Slag Concrete Mixes", Journal of Building Engineering 17,1-12
2. S. Anaswara, Amrita and R. Shivashankar, "Numerical analysis on interference of strip footings on soils", Intl. J of Engg. & Advanced Research, Vol.7, Issue ICMSC 17, Dec. 2017, pp.116-119
3. Radhika M. Patel, B. R. Jayalekshmi and R. Shivashankar, "Finite Element Analysis of geogrid reinforced pile supported embankment considering effect of pile length", Intl. J of Engg. & Advanced Research, Vol.7, Issue ICMSC 17, Dec. 2017, pp.137-140.
4. Nimi Ann Vincent, R. Shivashankar, K.N. Lokesh and Jinu Mary Jacob, "Laboratory electrical resistivity studies on cement stabilized soil", Intl. Scholarly Research Notices (ISRN), Hindawi publishers, Vol. 2017, Article ID 8970153, April 2017
5. Nimi Ann Vincent, R. Shivashankar and K.N. Lokesh, "Laboratory and field electrical resistivity studies on laterites and lateritic soils", Electronic Journal of Geotechnical Engg. (USA), Vol. 22, 2637-2664
6. George, Varghese and Kumar, Anil, "Effect of Soil Parameters on Modulus of Resilience Based on Portable Falling Weight Deflectometer Tests on Lateritic Sub-grade Soils", International Journal of Geotechnical Engineering (Taylor and Francis-SCI), Published online: 22 Nov 2017. DOI: 10.1080/19386362.2017. 1403075
7. Kumar, Anil and George, Varghese, "Effect of Soil Parameters on Resilient Modulus using Cyclic Triaxial tests on Lateritic Subgrade

Soils from Dakshina Kannada, India", Geotechnical and Geological Engineering (Springer), Published online 27 April 2018.

8. Sanjeev Sangami and Basavaraju Manu, "Synthesis of Green Iron Nanoparticles using Laterite and their application as a Fenton-like catalyst for the degradation of herbicide Ametryn in water", Environmental Technology and Innovation, 8,150-163
9. Sanjeev Sangami and Basavaraju Manu, "Catalytic efficiency of laterite-based FeNPs for the mineralization of mixture of herbicides in water", Environmental Technology.
<https://doi.org/10.1080/09593330.2018.1449899>
10. Sanjeev Sangami and Basavaraju Manu, "Optimization of Fenton's oxidation of herbicide dicamba in water using response surface methodology", Applied Water Science, 7(8), 4269-4280
11. Hepsiba Niruba Catherine, Ming-Han Ou, Basavaraju Manu, Yang-hsin Shih, "Adsorption mechanism of emerging and conventional phenolic compounds on graphene oxide nanoflakes in water", Science of the Total Environment, 635, 629-638
12. Suresha S.N., and Satish D., "Evaluation of Properties of Non foaming Warm Mix Asphalt Mixtures at Lower Working Temperatures", ASCE-Journal of Materials in Civil Engineering, 29 (11), 2017
13. Jayakesh K, and Suresha S.N., "Experimental investigation of interface treatment technique on interface shear bond fatigue behaviour of Ultra-Thin Whitetopping", Construction and Building Materials, 161 (1), pp. 489 – 500, 2018

DEPARTMENT OF COMPUTER ENGINEERING

1. John Paul Martin, A Kandasamy, K Chandrasekaran "Exploring the

- support for high performance applications in the container runtime environment” Journal: Human-centric Computing and Information Sciences, Volume:8 Issue:1 Pages:1, Publisher: Springer Berlin Heidelberg 2018
2. P Sarwesh, N Shekar V Shet, K Chandrasekaran, “Effective Integration of Reliable Routing Mechanism and Energy Efficient Node Placement Technique for Low Power IoT Networks”, in International Journal of Grid and High Performance Computing (IJGHPC), Volume: 9 Issue: 4 Pages: 16-35 Publisher: IGI Global, DOI: 10.4018/IJGHPC.2017100102 2017
 3. Manoj V Thomas, K Chandrasekaran, “Dynamic partner selection in Cloud Federation for ensuring the quality of service for cloud consumers” in International Journal of Modeling Simulation and Scientific Computing, Volume: 8 Issue: 03 Pages: 1750036 Publisher: World Scientific Publishing Company, DOI:10.1142/S1793962317500362 2017
 4. Rajan Narang, K Chandrasekaran, Arvind Gupta “Experimental Investigation and Simulation of Magnetic Flux Leakage from Metal Loss Defects” in Journal of Failure Analysis and Prevention, Volume:17 Issue: 3: Pages: 595-601 Publisher: Springer US, DOI: <https://doi.org/10.1007/s11668-017-0286-3> 2017
 5. Divya Upadhyay, Ashwani Kumar Dubey, and P Santhi Thilagam, “Application of Non-Linear Gaussian Regression-Based Adaptive Clock Synchronization Technique for Wireless Sensor Network in Agriculture”, in IEEE Sensors Journal, Volume: 18 Issue: 10 : Page:4328-4335 Publisher: IEEE, DOI: 10.1109/JSEN.2018.2818302 2018
 6. G Deepa, P Santhi Thilagam, Amit Praseed, Alwyn R Pais, “Det Logic: A black-box approach for detecting logic vulnerabilities in web applications” in Journal of Network and Computer Applications, Volume: 109 Pages: 89-109 Publisher: Academic Press, <https://doi.org/10.1016/j.jnca.2018.01.008>, 2018
 7. G Deepa, P Santhi Thilagam, Furqan Ahmed Khan, Amit Praseed, Alwyn R Pais, Nushafreen Palsetia, “Black-box detection of XQuery injection and parameter tampering vulnerabilities in web applications” in International Journal of Information Security, Volume: 17 Issue: 1 Pages: 105-120 Publisher: Springer Berlin Heidelberg, DOI: <https://doi.org/10.1007/s10207-016-0359-4> 2018
 8. Raghavendra Achar, and P Santhi Thilagam,” Applications nature aware virtual machine provisioning in cloud” in International Journal of Ad Hoc and Ubiquitous Computing, Volume:27 Issue: 2 Pages: 93-107 Publisher: Inderscience Publishers (IEL), <https://doi.org/10.1504/IJAHUC.2018.089579> 2018
 9. PV Bindu, Rahul Mishra, and P Santhi Thilagam, “Discovering spammer communities in twitter” in Journal of Intelligent Information Systems, Pages:1-25 Publisher: Springer US, DOI: <https://doi.org/10.1007/s10844-017-0494-z> 2018
 10. PV Bindu, P Santhi Thilagam, Deepesh Ahuja, “Discovering suspicious behavior in multilayer social networks in Computers in Human Behavior, Volume:73 Pages: 568-582 Publisher: Pergamon 2017
 11. Abhinit Modi, Raghavendra Achar, and P. Santhi Thilagam, “Live migration of virtual machines with their local persistent storage in a data intensive cloud” in Interscience International Journal of High Performance Computing and Networking, Vol 10(1/2), pp:134-147, 2017
 12. N Sumith, B Annappa, Swapan Bhattacharya, “A Holistic Approach to Influence Maximization in Social Networks: STORIE” in Journal of Applied Soft Computing, Publisher: Elsevier Volume: 66 Pages: 533-547,

- <https://doi.org/10.1016/j.asoc.2017.12.025> 2017
13. Hema Banati, Siddhartha Bhattacharyya, Ashish Mani, Mario Köppen, B Annappa, "Hybrid Intelligence for Social Networks" in Springer International Publishing AG, DOI<https://doi.org/10.1007/978-3-319-65139-2>, ISBN 978-3-319-65139-2 2017
 14. William Thomas, B Annappa, "Riser Design" in Encyclopedia of Maritime and Offshore Engineering, Pages: 1-21 Publisher: John Wiley & Sons Ltd, <https://doi.org/10.1002/9781118476406.emoe487> 2017
 15. G Deepa, P Santhi Thilagam, Amit Praseed, Alwyn R Pais, "Det Logic: A black-box approach for detecting logic vulnerabilities in web applications" in Journal of Network and Computer Applications, Volume: 109 Pages: 89-109 Publisher: Academic Press, <https://doi.org/10.1016/j.jnca.2018.01.008>, 2018
 16. G Deepa, P Santhi Thilagam, Amit Praseed, Alwyn R Pais, "Det Logic: A black-box approach for detecting logic vulnerabilities in web applications" in Journal of Network and Computer Applications, Volume: 109 Pages: 89-109 Publisher: Academic Press, <https://doi.org/10.1016/j.jnca.2018.01.008>, 2018
 17. Alok Kumar, Alwyn Roshan Pais, "En-route filtering techniques in wireless sensor networks: a survey" in Wireless Personal Communications, Volume: 96 Issue: 1 Pages: 697-739 Publisher: Springer US, DOI<https://doi.org/10.1007/s11277-017-4197-0> 2017
 18. Apurva Kittur, Alwyn Pais "Batch verification of Digital Signatures: Approaches and challenges" in Journal of Information Security and Applications, Volume-37 Pages-15-27 Publisher- ELSEVIER, <https://doi.org/10.1016/j.jisa.2017.09.005> 2017
 19. Rohith Bhaskaran and BR Chandavarkar "An Unsupervised Method for Attribute Identification from a Natural Language Query" Progress in Intelligent Computing Techniques: Theory Practice and Applications, Pages-543-549 Publisher-Springer Singapore, DOIhttps://doi.org/10.1007/978-981-10-3373-5_54 2018
 20. YV Srinivasa Murthy, Shashidhar G Koolagudi, "Classification of vocal and non-vocal segments in audio clips using genetic algorithm based feature selection (GAFS) in Expert Systems with Applications, Volume-106 Pages-77-91 Publisher-Pergamon, DOIhttps://doi.org/10.1007/978-981-10-3373-5_54 2018
 21. Shashidhar G Koolagudi, YV Srinivasa Murthy, Siva P Bhaskar "Choice of a classifier based on properties of a dataset: case study-speech emotion recognition" in International Journal of Speech Technology, Volume-21 Issue- 1 Pages-167-183 Publisher-Springer US, DOI<https://doi.org/10.1007/s10772-018-9495-8> 2018
 22. Shashidhar G Koolagudi, Akash Bharadwaj, YV Srinivasa Murthy, Nishaanth Reddy, Priya Rao, "Dravidian language classification from speech signal using spectral and prosodic features" in International Journal of Speech Technology, Volume-20 Issue-4 Pages-1005-1016 Publisher-Springer US DOI<https://doi.org/10.1007/s10772-017-9466-5> 2017
 23. H Vathsala, Shashidhar G Koolagudi "Long-range prediction of Indian summer monsoon rainfall using data mining and statistical approaches" in Theoretical and Applied Climatology, Volume-130 Issue- 1-2 Pages 19-33 Publisher-Springer Vienna DOI: <https://doi.org/10.1007/s00704-016-1862-2> 2017
 24. S Samsekai, Manjabhat, Shashidhar G Koolagudi, KS Rao, Pravin Bhaskar Ramteke, "Raga and Tonic Identification in Carnatic Music" in Journal of New Music Research, Volume- 46 Issue-3 Pages- 229-245 Publisher-

- Routledge,
<https://doi.org/10.1080/09298215.2017.1330351> 2017
25. P Krishna Kumar, Tadashi Araki, Jeny Rajan, John R Laird, Andrew Nicolaides Jasjit S Suri, "State-of-the-Art Review on Automated Lumen and Adventitial Border Delineation and its Measurements in Carotid Ultrasound" in Computer Methods and Programs in Biomedicine, Publisher: Elsevier <https://doi.org/10.1016/j.cmpb.2018.05.015>, 2018
 26. G N Girish, Bibhash Thakur, Sohini Roy Chowdhury, Abhishek R Kothari, Jeny Rajan, "Segmentation of Intra-Retinal Cysts from Optical Coherence Tomography Images using a Fully Convolutional Neural Network Model" in IEEE Journal of Biomedical and Health Informatics, Publisher, IEEE, DOI 10.1109/JBHI.2018.2810379 2018
 27. GN Girish, VA Anima, Abhishek R Kothari, PV Sudeep, Sohini Roychowdhury, Jeny Rajan, "A benchmark study of automated intra-retinal cyst segmentation algorithms using optical coherence tomography B-scans" in Computer methods and programs in biomedicine, Volume-153 Pages-105-114 Publisher-Elsevier, <https://doi.org/10.1016/j.cmpb.2017.10.010> 2018
 28. TJ Narendra Rao, GN Girish, Mohit P Tahiliani, Jeny Rajan, "Anomalous Event Detection Methodologies for Surveillance Application: An Insight" in Handbook of Research on Advanced Concepts in Real-Time Image and Video Processing, Pages -1-27 Publisher -IGI Global, DOI: 10.4018/978-1-5225-2848-7.ch001 2018
 29. GN Girish, Abhishek R Kothari, Jeny Rajan, "Marker controlled watershed transform for intra-retinal cysts segmentation from optical coherence tomography b-scans" , in Pattern Recognition Letters, Publisher, North-Holland, <https://doi.org/10.1016/j.patrec.2017.12.01> 2017
 30. Jithin Gokul, Madhu S Nair, Jeny Rajan, "Guided SAR image despeckling with probabilistic non local weights" ,in Computers & Geosciences, Volume-109 Pages-16-24 Publisher- Pergamon, <https://doi.org/10.1016/j.cageo.2017.07.004> 2017
 31. Narendra Rao TJ, Jeny Rajan, "Smart Visual Surveillance Technique for Better Crime Management", Hybrid Intelligent Techniques for Pattern Analysis and Understanding, Pages -209-244 Publisher Chapman and Hall/CRC, 2017
 32. S Sujin Surendran, Jeny Rajan , Madhu S Nair, "A computationally efficient non-local maximum likelihood estimation approach for Rician noise reduction in MRI", in CSI Transactions on ICT, Volume-5 Issue-3 Pages-247-257 Publisher- Springer India, DOI <https://doi.org/10.1007/s40012-017-0163-y>, 2017
 33. Chetan L Srinidhi, P Aparna, Jeny Rajan "Recent advancements in retinal vessel segmentation", in Journal of medical systems, Volume-41, Issue- 4, Pages-70 Publisher: Springer, US, DOI <https://doi.org/10.1007/s10916-017-0719-2>, 2017
 34. Vivek Jain, Viyom Mittal, KS Shravya, Mohit P Tahiliani, "Implementation and validation of BLUE and PI queue disciplines in ns-3" in SIMULATION MODELLING PRACTICE AND THEORY, Volume -84 Pages -19-37 Publisher- ELSEVIER SCIENCE BV, 2018
 35. Manu Basavaraju, "On Induced Colourful Paths in Triangle-free Graphs", in Electronic Notes in Discrete Mathematics
 36. M.Venkatesan, "Optimal View Point Selection in Direct Volume Rendering for 3D Visualization", in International Journal of Intelligent Engineering and Systems
 37. Dr.M.Venkatesan, "An Efficient Technique for Three-Dimensional, Image Visualization Through Two-Dimensional, Images for Medical Data" in Journal of Intelligent Systems
 38. M.Venkatesan, "Soft Computation Model for Identification of Landslide

Factor”, in Journal of Advanced Research in Dynamical and Control Systems.

DEPARTMENT OF CHEMISTRY

1. D Krishna Bhat and Sandhya Shenoy U, Enhanced Thermoelectric Performance of Bulk Tin Telluride: Synergistic Effect of Calcium and Indium Co-doping, Materials Today Physics, **2018**, 4, 12-18.
2. M. Mohamed Jaffer Sadiq, U. Sandhya Shenoy and D. Krishna Bhat, Novel NRGO-CoWO₄-Fe₂O₃ nanocomposite as an efficient catalyst for dye degradation and reduction of 4-nitrophenol, Materials Chemistry and Physics, 2018, 208, 112-122.
3. Sandhya Shetty, M J Sadiq, **D K Bhat**, A C Hegde, Electrodeposition of Ni-Mo-rGO composite electrodes for efficient hydrogen production in alkaline medium, New Journal of Chemistry, 2018, 42, 4661-4669.
4. Sandhya Shenoy and **D Krishna Bhat**, Enhanced Bulk Thermoelectric Performance of Pb_{0.6}Sn_{0.4}Te: Effect of Magnesium Doping, Journal of Physical Chemistry C, **2017**, 121, 20696-20703. DOI: 10.1021/acs.jpcc.7b07017
5. M. Mohamed Jaffer Sadiq, Sankararao Mutyala, Jayaraman Mathiyarasu, **D. Krishna Bhat**, RGO/ZnWO₄/Fe₃O₄ nanocomposite as an efficient electrocatalyst for oxygen reduction reaction, Journal of Electroanalytical Chemistry, 2017, 799, 102-110. doi: 10.1016/j.jelechem.2017.05.051
6. M. Mohamed Jaffer Sadiq, U. Sandhya Shenoy and **D. Krishna Bhat**, NiWO₄-ZnO-NRGO ternary nanocomposite as an efficient photocatalyst for degradation of methylene blue and reduction of 4-nitro phenol, Journal of Physics and Chemistry of Solids, **2017**, 109, 124-133. DOI: 10.1016/j.jpcs.2017.05.023
7. Sandhya Shetty, M J Sadiq, **D K Bhat**, A C Hegde, Electrodeposition and characterization of Ni-Mo alloy as an electrocatalyst for alkaline water electrolysis, Journal of Electroanalytical Chemistry, **2017**, 796, 57-65. doi: 10.1016/j.jelechem.2017.05.002.
8. M. Mohamed Jaffer Sadiq, U. Sandhya Shenoy and **D. Krishna Bhat**, Enhanced photocatalytic performance of N-doped RGO-FeWO₄/Fe₃O₄ ternary nanocomposite in environmental applications, Materials Today Chemistry, **2017**, 4, 133-141. DOI:10.1016/j.mtchem.2017.04.003
9. D Krishna Bhat and Sandhya Shenoy U, High Thermoelectric Performance of Co-doped Tin Telluride due to Synergistic Effect of Magnesium and Indium, Journal of Physical Chemistry C, **2017**, 121 (13) 7123-7130. DOI: 10.1021/acs.jpcc.7b00870
10. M. Mohamed Jaffer Sadiq and **D. Krishna Bhat**, A facile microwave approach to synthesize RGO-BaWO₄ composites for high performance visible light induced photocatalytic degradation of dyes, AIMS Materials Science, **2017**, 4(2), 487-502.
11. M. Mohamed Jaffer Sadiq, U. Sandhya Shenoy and **D. Krishna Bhat**, High performance dual catalytic activity of Novel zinc tungstate - reduced graphene oxide nanocomposites, Advanced Science, Engineering and Medicine, **2017**, 9, 1-7.
12. S. Kshama Shetty and **A. Nityananda Shetty**, “Eco-friendly benzimidazolium based ionic liquid as a corrosion inhibitor for aluminum alloy composite in acidic media.” Journal of Molecular Liquids 225 (2017) 426-438. <http://dx.doi.org/10.1016/j.molliq.2016.11.037>.
13. Sanatkumar B. S and **A. Nityananda Shetty**, “Corrosion inhibition, hydrogen evolution and adsorption properties of 2-(4-bromophenyl)-2-oxoethyl 4-chlorobenzoate on the corrosion of the 18% Ni M250 grade maraging steel under weld aged condition in 2.0 M HCl solution, Journal of Applicable Chemistry, 6 (2017) 241-264.
14. Aranganathan Vishwanathan and **A. Nityananda Shetty**, “Facile in-situ single step

- chemical synthesis of reduced graphene oxide-copper oxide-polyaniline nanocomposite and its electrochemical performance for supercapacitor application. *Electrochimica Acta*, 257 (2017) 483 – 493.
15. U. Sandhya Shenoy and **A. Nityananda Shetty**, A simple single-step approach towards synthesis of nanofluids containing cuboctahedral cuprous oxide particles using glucose reduction. *Frontiers of Materials Science*, 12 (2018) 74 – 82; DOI: <https://doi.org/10.1007/s11706-018-0411-6>.
 16. Aranganathan V and **A. Nityananda Shetty**, Synthesis and characterization of reduced-graphene oxide/ nickeloxide/ polyaniline ternary nanocomposites for supercapacitors, *Materials Today: Proceedings* 5 (2018) 8852–8861.
 17. B.G. Prakashaiaha, D. Vinaya Kumara, A. Anup Pandith, **A. Nityananda Shetty**, B.E. Amitha Rani, Corrosion inhibition of 2024-T3 aluminum alloy in 3.5% NaCl by Thiosemicarbazone derivatives, *Corrosion Science* 136 (2018) 326–338
 18. Praven Mishra and B. Ramachandra Bhat (2018), Synthesis and characterization of graphene quantum dots and their size reduction using swift heavy ion beam, *Radiation Effects and Defects in Solids*, page 1-7.
 19. RM Ansari, LK Mahesh, BR Bhat (2018) Cobalt Schiff base Complexes: Synthesis Characterization and Catalytic Application in Suzuki-Miyaura Reaction, *Chinese Journal of Chemical Engineering*
 20. M Jayalakshmi, BR Bhat, KU Bhat (2018) Enhanced cell adhesion on severe peened-plasma nitrided 316L stainless steel, *AIP Conference Proceedings* 1943, 020086 (2018); <https://doi.org/10.1063/1.5029662>
 21. Lolakshi Mahesh K, Rasheeda M. Ansari, and Badekai Ramachandra Bhat (2018) Catalytic activity of Fe(II) and Cu(II) PNP pincer complexes for Suzuki coupling reaction, *App. Orgnometallic Chem.* 32(2)e4054.
 22. Rasheeda M. Ansari, Lolakshi Mahesh K. and Badekai Ramachandra Bhat (2018)
 23. Air stable cobalt (II) and nickel (II) complexes with Schiff base ligand for catalyzing Suzuki-Miyaura cross coupling reaction, *Russian Journal of Coordination Chemistry* 44(1), 1-8. DOI: 10.1134/S1070328418010013
 24. Praven Mishra and B. Ramachandra Bhat (2017), Photoluminescence Quenching in Metal Ion (Cu^{2+} , Co^{2+}) Interacted Graphene Quantum Dots, *Macromol. Symp.* 376, 1600200-1600204.
 25. Rasheeda M. Ansari and Badekai Ramachandra Bhat (2017) Schiff base transition metal complexes for Suzuki-Miyaura cross-coupling reaction, *J. Chem. Sci.* Vol. 129, No. 9, September 2017, pp. 1483–1490. DOI 10.1007/s12039-017-1347-6.
 26. Lolakshi Mahesh Kumar, Badekai Ramachandra Bhat (2017) Cobalt pincer complex catalyzed Suzuki-Miyaura cross coupling -A green approach, *J.Org. Chem.* 827, 41-48.
 27. M Jayalakshmi, BR Bhat, KU Bhat (2017) Effect of Shot Peening Coverage on Surface Nanostructuring of 316L Stainless Steel and its Influence on Low Temperature Plasma-Nitriding, *Materials Performance and Characterization* 6 (4), 1-10.
 28. K B Manjunatha, Ravindra Rajarao, G Umesh, B Ramachandra Bhat and P Poornesh (2017) All-optical switching and limiting properties of a Ru(II) Schiff-base complex for nonlinear optical applications, *Laser Physics*, 27(085401), 085401
 29. Vikram Thimaradka, Srikala Panganaya, Makesh Mohan, Darshak R. Trivedi, Hydrazinylpyridine based highly selective optical sensor for aqueous source of carbonate ions: Electrochemical and DFT studies, *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, 2018, 193, pp. 330-337.

30. Makesh Mohan*, Srikala Panganaya,, M.N. Satyanarayan, Darshak R. Trivedi, Photophysical and electrochemical properties of organic molecules: Solvatochromic effect and DFT studies, *Optical Materials*, 2018, 77, pp. S101-S105
31. Archana Singh,, Silja Tom, Darshak R. Trivedi, Aminophenol based colorimetric chemosensor for naked-eye detection of biologically important fluoride and acetate ions in organo-aqueous medium: Effective and simple anion sensors, *Journal of Photochemistry and Photobiology A: Chemistry*, 2018, 353, pp. 507-520
32. Madhavi Oruganti , Sunil Kumar Nechipadappu, Pavan A. Khade, and Darshak R. Trivedi, Solid-state versatility of the molecular salts/cocrystals of 2-chloro-4-nitrobenzoic acid: A case study on halogen bonds, *ACS Omega*, 2017, 2 (10), pp 7146–7162
33. Srikala Panganaya, Vikram Thimaradka and Darshak R. Trivedi, Electroanalytical and spectral investigation of organic receptors as colorimetric and absorption ratiometric anion chemosensor, ***Supramolecular Chemistry***, 2017, DOI:10.1080/10610278.2017.1363392
34. Archana Singh, Suban K. Sahoo, Darshak R. Trivedi, Colorimetric anion sensors based on positional effect of nitro group for recognition of biologically relevant anions in organic and aqueous medium, insight real-life application and DFT studies, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 2018, 188, 596–610.
35. N Sunil Kumar, Darshak R. Trivedi, Structural and Physicochemical Characterization of Pyridine Derivative Salts of Anti-Inflammatory Drugs, *Journal of Molecular structure*, 2017, 1141, 64-74.
36. Venkatadri Tekuri and Darshak R Trivedi, A new colorimetric chemosensors for Cu²⁺ and Cd²⁺ ions detection: Application in environmental water samples and analytical method validation, ***Analytica Chimica Acta***, 2017, 81-93.
37. Srikala Pangannaya, Darshak R. Trivedi, Electrooptical characteristics and anion binding behaviour of organic receptors: Effect of substitution on colorimetric response, ***Sensors and Actuators B: Chemical***, 2017, 247, 673-680.
38. Srikala Pangannaya, Arshiya Kaur, Makesh Mohan, Keyur Raval, Dillip Kumar Chand & Darshak R. Trivedi, Synthesis and spectral investigation of colorimetric receptors for the dual detection of copper and acetate ions: application in molecular logic gates, *Supramolecular Chemistry*, 2017, 29, 561-574.
39. Bharath Kumar Momidi, Venkatadri Tekuri, Darshak R. Trivedi, Multi-signaling thiocarbohydrazide based colorimetric sensors for the selective recognition of heavy metal ions in an aqueous medium, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 2017, 180, 175-182.
40. Naveenchandra Pilicode, K. M. Nimith, M. N. Satyanarayan, A. Vasudeva Adhikari, “New cyanopyridine based conjugative polymers as blue emitters: Synthesis, photophysical, theoretical and electroluminescence studies”, *Journal of Photochemistry and Photobiology A: Chemistry*, 364, 6-15, 2018.
41. Praveen Naik, Kavya S. Keremane, Mohamed R. Elmorsy, Rui Su, Ahmed El-Shafei, **Airody Vasudeva Adhikari**, “Highly efficient carbazole based co-sensitizers carrying electron deficient barbituric acid for NCSU-10 sensitized DSSCs”, *Solar Energy*, 169, 386-391, 2018.
42. Praveen Naik, Mohamed R. Elmorsy, Rui Su, Ahmed El-Shafei, **Airody Vasudeva Adhikari**, “Enhancing photovoltaic performance of DSSCs sensitized with Ru-II complexes by D-π-A configured carbazole based co-sensitizers”, *New Journal of*

- Chemistry*, 42, 9443-9448. DOI: 10.1039/C8NJ00927A, 2018.
43. Praveen Naik, Rui Su, Mohamed R. Elmorsy, Ahmed El-Shafei, **Airody Vasudeva Adhikari**, "New di-anchoring A- π -D- π -A configured organic chromophores for DSSC application: Sensitization and co-sensitization studies", *RSC Photochemical and Photobiological Sciences*, 17, 302-314, 2018.
 44. Praveen Naik, Rui Su, Mohamed R. Elmorsy, Ahmed El-Shafei, **Airody Vasudeva Adhikari**, "New carbazole based dyes as effective co-sensitizers for DSSCs sensitized with Ruthenium(II) complex (NCSU-10)", *Journal of Energy Chemistry*, 27, 2, 351-360, 2018.
 45. Praveen Naik, Rui Su, Dickson D Babu, Ahmed El-Shafei, **A. Vasudeva Adhikari**, "Synthesis, characterization and performance studies of a new metal-free organic sensitizer for DSC application", *Materials Today: Proceedings*, 5, 1, 3150-3157, 2018.
 46. Praveen Naik, Rui Su, Mohamed R. Elmorsy, Ahmed El-Shafei, **Airody Vasudeva Adhikari**, "Investigation of new carbazole based metal-free dyes as active photosensitizers/co-sensitizers for DSSCs", *Dyes and Pigments*, 149, 117-187, 2018.
 47. Praveen Naik, Rui Su, Ahmed El-Shafei, **Airody Vasudeva Adhikari**, "Improved photovoltaic performances of Ru (II) complex sensitized DSSCs by co-sensitization of carbazole based chromophores", *Inorganic Chemistry Communications*, 86, 241-245, 2017.
 48. Praveen Naik, Aurélien Planchat, Yann Pellegrin, Fabrice Odobel, **A. Vasudeva Adhikari**, "Exploring the application of new carbazole based dyes as effective *p*-type photosensitizers in dye-sensitized solar cells", *Solar Energy*, 157, 1064-1073, 2017. Praveen Naik, Rui Su, Mohamed R. Elmorsy, Dickson D Babu, Ahmed El-Shafei, **Airody Vasudeva Adhikari**, "Molecular design and theoretical investigation of new metal-free heteroaromatic dyes with D- π -A architecture as photosensitizers for DSSC application", *Journal of Photochemistry and Photobiology A: Chemistry*, 345, 63-73, 2017.
 49. Praveen Naik, Mohamed R. Elmorsy, Rui Su, Ahmed El-Shafei, Dickson D Babu, **Airody Vasudeva Adhikari**, "New carbazole based metal-free organic dyes with D- π -A- π -A architecture for DSSCs: synthesis, theoretical and cell performance studies", *Solar Energy*, 153, 600-610, 2017.
 50. Praveen Naik, Rui Su, Dickson D Babu, Ahmed El-Shafei, **A. Vasudeva Adhikari**, "Structurally simple D-A type organic sensitizers for dye-sensitized solar cells: Synthesis, characterization, and performance studies", *Journal of Iranian Chemical Society*, 14, 2457-2466, 2017.
 51. Hidayath Ullaa, M. Raveendra Kirana, B. Garudachari, T. N. Ahipa, Kartick Tarafdera, **Airody Vasudeva Adhikari**, G. Umesha, M. N. Satyanarayana, "Blue Emitting 1,8-Naphthalimides with Electron Transport Properties for Organic Light Emitting Diode Applications", *Journal of Molecular Structure*, 143, 344-354, 2017.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

1. Antony, D., Puneekar, G.S., "Noniterative Method for Combined Acoustic-Electrical Partial Discharge Source Localization" (2017) IEEE Transactions on Power Delivery. Article in Press., DOI: 10.1109 /TPWRD.2017 .276915
2. Deepthi Antony; Gururaj S. Puneekar, "Identification of invalid time-delay-groups using discriminant and Jacobian-determinant in acoustic emission PD source localization" (2017) IET Science, Measurement and Technology, 11 (3), pp. 315-321., DOI: 10.1049/iet-smt.2016.03
3. Devarajan Harimurugan ; Gururaj S. Puneekar "Nagabushanam Srikanth Bhatt E-field computation in 765 kV substation using CSM with reference to

- occupational exposure” IET Generation, Transmission & Distribution, Volume 12, Issue 7, p. 1680 –1685 p.DOI: 10.1049/iet-gtd.2017.1640.
4. Harimurugan Devarajan ; Gururaj S. Puneekar Nudurupati Krishna Kishore “Design of an HV capacitor using the inherent advantage of charge simulation method and experimentations” IET Science, Measurement & Technology, Volume 12, Issue 1, p. 126 –131, DOI: 10.1049/iet-smt.2017.0121.
 5. Tangella Bhavani Shanker; Nagamani Hebbale Narasimhaiah; Deepthi Antony; Gururaj S. Puneekar “Effects of Transformer-oil Temperature on Amplitude and Peak Frequency of Partial Discharge Acoustic Signals”, IEEE Transactions on Power Delivery, Year: 2018, Article in Press. IEEE Early Access Articles
 6. Omkar S Powar, Krishnan Chemmangat, Sheron Figarado, “A novel pre-processing procedure for enhanced feature extraction and characterization of electromyogram signals” Biomedical Signal Processing and Control, 42, 277-286, 2018.
 7. Raghavendra P and Dattatraya N Gaonkar, ”Coordinated Volt/Var Control: Online Voltage-Profile Estimation in Smart Distribution Networks” IEEE Industry Applications Magazine, 2018, Vol. 24, No.2 , PP 14 - 22.
 8. NS Jayalakshmi, DN Gaonkar, A Naik, “Design and Analysis of Dual Output Flyback Converter for Standalone PV/Battery System”International Journal of Renewable Energy Research (IJRER) 7 (3), 1032-1040.
 9. Jayalakshmi N. Sabhahit, Dattatraya N. Gaonkar, and Pramod B. Nempu “Integrated Power Flow And Voltage Regulation of Stand-Alone Pv–Fuel Cell System With Supercapacitors” International Journal of Power and Energy Systems, Issue. 1, Vol .37 , 2017.
 10. N. S. Jayalakshmi , D. N. Gaonkar Anandh N and Nimika S,”Design and implementation of single phase inverter based on cuk converter for PV system” International Journal of Renewable Energy Research (IJRER) 7 (2), 585-591,2017
 11. Chethan Raj D., D.N. Gaonkar, “Multiple Inverters Operated in Parallel for Proportional Load Sharing in Microgrid” International Journal of Power Electronics and Drive Systems (IJPEDS), Vol 8 No. 2, 2017.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

1. Ramavath Prasad Naik, Amardeep Kumar, Shrutkirthi Shashikant Godkhindi, and U. Shripathi Acharya. "Experimental studies on the performance of underwater optical communication link with channel coding and interleaving." CSI Transactions on ICT 6, no. 1 (2018): 65-70.
2. Raghu J, Pathipati Srihari, Ratnasingam Tharmarasa, and T. Kirubarajan, " Comprehensive Track Segment Association for Improved Track Continuity" IEEE Transactions on Areospace and Electronic Systems (ISSN: 1557-9603), 2018
3. Gnane Swarnadh Satapathi, Pathipati Srihari, "Rough Fuzzy Joint Probabilistic Association forTracking Multiple Targets in the Presence of ECM" Expert Systems with Applications, Elsevier Journal, 2018
4. Nagaraj Y, Asha C S, Hema Sai Teja A, A V Narasimhadhan, Carotid wall segmentation in longitudinal ultrasound images using structured random forest , Accepted, Journal of Computers and Electrical Engineering (Elsevier), 2018 Impact factor 1.57.
5. Shilpa Suresh and Shyam Lal, " Modified differential evolution algorithm for contrast and brightness enhancement of satellite images" Applied Soft Computing, Vol. 61, pp: 622-641, Dec 2017 (DOI: [10.1016/j.asoc.2017.08.019](https://doi.org/10.1016/j.asoc.2017.08.019))

6. Shilpa Suresh and Shyam Lal, "Two-Dimensional CS Adaptive FIR Wiener Filtering Algorithm for the Denoising of Satellite Images", IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, Vol. 10, Issue. 12, pp: 5245 – 5257, Dec 2017 (DOI: 10.1109/JSTARS.2017.2755068).
7. Jnanesh Somayaji and M. S. Bhat, "Triple RESURF DEMOS device design and its RF performance evaluation for Sub-Micron RF SoC platform" JI. of Low Power Electronics (JOLPE), Vol. 13, No 4, December 2017
8. Princy M Paul, Kandasamy K, Sharawi MS, "A tri-band slot antenna loaded with split ring resonators", Microw. Opt. Technol. Lett, Vol. 59, no. 10, PP. 4595 - 4606, Oct 2017.
9. Shilpa Suresh, Shyam Lal, C. Sudhakar Reddy and Mustafa Kiran, "A Novel Adaptive Cuckoo Search Algorithm for Contrast Enhancement of Satellite Images", IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, Vol. 10, Issue. 8, pp: 3665 – 3676, Aug 2017 (DOI: 10.1109/JSTARS.2017.2699200)
10. Abhishek MB, N. Shekar V. Shet, "Data Transmission Unit and web server interaction to monitor water distribution: A cyber physical system perspective", Published in International Journal on Advanced Science, Engineering and Information Technology (Scopus Indexed Journal), August 2017
11. Ranjan Kumar Mahapatra, N.S.V. Shet, "Localization based on RSSI exploiting Gaussian and Averaging Filter in Wireless Sensor Network", Arabian Journal for Science and Engineering, Springer (SCI-E Journal), August 2017.
12. Chandrika B.K., Aparna P., Sumam David S., "Perceptually Lossless Coder for Volumetric Medical Image Data", Journal of Visual Communication and Image Representation, Elsevier Publishers, Vol 46, July 2017, pp 23-32, doi.org/10.1016/j.jvcir.2017.03.006, (SCIE Indexed)
13. Chandrika B.K., Aparna P., Sumam David S., "Visually Lossless Coder for Volumetric MRI and CT Image Data using Wavelet Transform", International Journal of Computational Vision and Robotics, Vol. 7, No. 6, 2017, Inderscience Publishers. (Scopus Indexed)
14. Gnane Swarnadh Satapathi, Pathipati Srihari, "Soft and Evolutionary Computation Based Data Association Approaches for Tracking Multiple Targets in the Presence of ECM" Expert Systems with Applications, Elsevier Journal, Vol. 77, pp: 83-104, July, 2017.)
15. Shilpa Suresh and Shyam Lal, "Multilevel thresholding based on Chaotic Darwinian Particle Swarm Optimization for segmentation of satellite images." Applied Soft Computing, Vol. 55, pp: 503-522, Jun 2017 (DOI: [10.1016/j.asoc.2017.02.005](https://doi.org/10.1016/j.asoc.2017.02.005)).
16. Gnane Swarnadh Satapathi, Pathipati Srihari, "Waveform Agile Sensing Approach for Tracking Benchmark in the Presence of ECM using IMMPDAF" Radioengineering Journal, Vol. 26, No. 1, April 2017
17. Nagaraj Y, Pardhu Madipalli, Jeny Rajan, P Krishna Kumar, A. V. Narasimhadhan, "Segmentation of Intima Media Complex From Carotid Ultrasound Images Using Wind Driven Optimization Technique, Biomedical Signal Processing and Control", (Elsevier), 2017 Impact factor 2.2.
18. Asha C S and A. V. Narasimhadhan, "Robust Infrared Target Tracking using Discriminative and Generative Approaches, accepted Infrared Physics and Technology" (Elsevier), 2017, Impact factor 1.99.
19. A. Sharma K Naga Ganesh, K J Patrice Wira, Ravi Prasad and Shyam Lal and Narasimhadhan A V, "Modified Null Space Strategy to Solve Consensus Problem", Published in KJS., 2017 (Impact factor 0.35).

20. Jhnanesh Somayaji, B. Sampath Kumar, M. S. Bhat and Mayank Shrivastava, "Performance and Reliability Codesign for Superjunction Drain Extended MOS Devices", IEEE TRANSACTIONS ON ELECTRON DEVICES, Vol. 64, Issue 10, pp 4175-4183, 2017 (<https://doi.org/10.1109/TEDE.2017.2733043>)
21. Jagadish D. N, Laxminidhi T. and M. S. Bhat, "An 11.39 fJ/conversion-step 780 kS/s 8 bit Switched Capacitor based Area and Energy Efficient SAR ADC in 90 nm CMOS" No.11, IET Circuits, Devices and Systems, ISSN 1751-8598, 2017, DOI: 10.1049/iet-cds.2017.0029
22. L Srinidhi, C., Aparna, P. & Rajan, J, "Recent Advancements in Retinal Vessel Segmentation", Journal of Medical Systems, Springer, April 2017, 2017, 41:70, doi:10.1007/s10916-017-0719-2. (SCIE indexed).
23. Deepa Puneeth, N. Joshi, Pradeep Kumar Atrey and **Muralidhar Kulkarni**, " Energy efficient and reliable data collection in wireless sensor networks.", Turkish Journal of Electrical Engineering and Computer Science, Vol: 26: pp: 138 - 149 (2018). (SCI-E)
24. Nishant Joshi D, **Muralidhar Kulkarni**, Shivaprakash K S, "Range Adjustable Hybrid Multi Path Routing Algorithm for WSNs", Int. J. Sensor Networks, Vol. 25, No. 2, 2017, pp.71-85. (Scopus)
25. Goutham Simha G.D.; Shriharsha Koila; Neha N; Raghavendra M A N S, U. Shripathi. "Redesigned Spatial Modulation for Spatially Correlated Fading Channels", Year: 2017. Wireless Pers Commun (2017). <https://doi.org/10.1007/s11277-017-4762-6>.
26. Goutham Simha G.D.; Shriharsha Koila; Raghavendra M A N S, U. Shripathi Acharya. A Comprehensive Framework for Double Spatial Modulation Under Imperfect Channel State Information Year: 2017. (Accepted with minor Revisions. Elsevier Physical communications.)
27. Lwaa Faisal Abdulameer, U. Shripathi and M. Kulkarni, "CSK based STBC-CDMA System: Design and Performance Evaluation", Association of Arab Universities Journal of Engineering Sciences, No. 1 Volume. 24 Year. 2017, pp. 13-29.
28. Sarwesh P., N. Shekar V. Shet and K. Chandrasekaran, "Energy-Efficient Network Architecture for IoT Applications," Beyond the Internet of Things, Signals and Communication, Springer, ISBN 978-3-319-50758-3, 2017, pp. 119-144.
29. Sarwesh P., N. Shekar V. Shet and K. Chandrasekaran, "Energy Efficient Network Design for IoT Healthcare Applications," Internet of Things and Big Data Technologies for Next Generation Healthcare, Studies in Big Data, Volume 23, Springer, ISBN 978-3-319-49736-5, 2017, PP. 35-61.
30. Sarwesh P., N. Shekar V. Shet and K. Chandrasekaran, "Reliable Cross Layer Design for E-health Applications - IoT Perspective." Cognitive Data Science Methods and Models over Internet of Things (IoT), 2017, In Press.
31. Sarwesh P., N. Shekar V. Shet and K. Chandrasekaran, "Envisioned Network Architecture for IoT Applications." EAI/Springer Innovations in communication and computing, 2017, In Press, 2017.
32. Sarwesh P., N. Shekar V. Shet and K. Chandrasekaran, "Effective Integration of Reliable Routing Mechanism and Energy Efficient Node Placement Technique for Low Power IoT Networks" Journal of Grid and High Performance Computing, Volume 9, Issue 4, Article 2, 250117-012241, 2017.
33. Sarwesh P., N. Shekar V. Shet and K. Chandrasekaran, "Traffic Balancing Network Architecture for Enhancing Lifetime of Smart Devices in Low Power IoT Networks." Research Journal of Applied Science and Engineering, Article in Press. 2017

DEPARTMENT OF INFORMATION TECHNOLOGY

1. Shridhar G. Domanal and G. Ram Mohana Reddy, "An Efficient Cost Optimized Scheduling for Spot Instances in Heterogeneous Cloud Environment", Elsevier Journal of Future Generation Computer Systems, Online February 21, 2018. DOI: <https://doi.org/10.1016/j.future.2018.02.003>
2. Geetha V and Kumar Ganapati Nandan "Performance Analysis of Image Transmission for Aparna Sarswat and Ram Mohana Reddy Guddeti, "A Novel Two Step Approach For Overlapping Community Detection in Social Networks", Springer Journal of Social Network Analysis and Mining, August 2017.
3. Biju R Mohan, Ram Mohana Reddy G, "Life Data Analysis of Server Virtualized System", International Journal of GEOMATE, Vol.13, Issue 36, pp.108-115, August 2017. DOI: <http://dx.doi.org/10.21660/2017.36.2855>
4. B. R. Chandavarkar and G Ram Mohana Reddy, "User Datagram Protocol Evaluation Suite for WiFi and WiMAX Heterogeneous Wireless Networks", Elsevier Journal of Simulation Modelling Practice and Theory, June 2017.
5. Biju R Mohan, Ram Mohana Reddy G, "Resource Consumption Analysis Using ARIMA-ARCH and ARIMA-GARCH Models For Virtualized Server Consolidation System", Int Journal of Software Engg and Its Applications, Vol. 11, No. 6 (2017), pp. 1-14, June 2017. <http://dx.doi.org/10.14257/ijseia.2017.11.6.01>
6. Biju R Mohan, Ram Mohana Reddy G, "Resource Usage Prediction Based on ARIMA-ARCH Model For Virtualized Server System", Int. Journal of

GEOMATE, Vol. 12, Issue 33, pp. 139-146, May, 2017. DOI: <http://dx.doi.org/10.21660/2017.33.2854>

7. Karthik N and Ananthanarayana V.S. "Sensor Data Modeling for Data Trustworthiness" The 16th IEEE International Conference On Trust, Security And Privacy In Computing And Communications (IEEE Trust Com-17) Sydney, Australia, August 1 - 4, 2017
8. Narasimhan, Medhini G.& Sowmya Kamath S "Dynamic video anomaly detection and localization using sparse denoising autoencoders" Multimedia Tools and Applications (2017): 1-23. (10.1007/s11042-017-4940-2)
9. Sowmya Kamath S and Ananthanarayana V.S "Discovering Composable Web Services based on Functional Semantics and Service Dependencies using Natural Language Requests" Journal on Information System Frontiers, Springer Hiedelberg, ISSN: 1387-3326, 2017 (SCI Indexed)
10. Event Detection in Cloud Based IoT Using Raspberry Pi" *Journal of Advanced Research in Dynamical and Control Systems*, Scopus Indexed, ISSN 1943-023X, pp 48-57, 2018
11. Medhini Narasimhan, Balaji Balasubramanian, Suryansh D Kumar, and Nagamma Patil "EGA-FMC: Enhanced Genetic Algorithm based Fuzzy K-Modes Clustering for Categorical Data" International Journal of Bio-Inspired Computation, Inderscience Journal, 2018

DEPARTMENT OF MATHEMATICAL & COMPUTATIONAL SCIENCES

1. B. Parvathalu and P. Sam Johnson, "Construction of MercedesBenz Frame in R^n ", International Journal of Applied and Computational Mathematic

- s, Volume3, Supplement 1 (2017), 511519
2. G.Ramu and P. Sam Johnson, "Frames for Operators in Banach Spaces", *Act Mathematica Vietnamica*, 42 (2017), 665673.
3. Vinoth A and P. Sam Johnson, "On Sum and Restriction of Hypo EP Operators", *Funct. Anal. Approx. Comput.* 9 (1) (2017) 3741.
4. The k-distance Chromatic Number of Trees and Cycles, [AKCE International Journal of Graphs and Combinatorics, 2017), <https://doi.org/10.1016/j.akcej.2017.11.007>], Niranjana P K and Srinivasa Rao Kola.
5. M. Sabari and S. George, Modified minimal error method for nonlinear ill-posed problems, *CMAM*, 18(2), 2018, 313-321, DOI:10.1515/cmam-2017-0024.
6. I.K.Argyros, S. George, Local convergence for a Chebyshev-type method in Banach space free of derivatives, *Advances in the Theory of Nonlinear Analysis and its Applications*, 2 (2018), No. 1, 62--69.
7. I.K.Argyros and S. George, Local convergence of a Hansen-Patrick-like family of optimal fourth order methods, *TWMS J. Pure Appl. Math.*, V.9, N.1, 2018, pp.32--39.
8. I.K.Argyros, S. George, Local convergence for a family of sixth order Chebyshev-Halley -type methods in Banach space under weak conditions, *Khayyam J. Math.* 4 (2018), no. 1, 1- 12, DOI: 10. 22034/ kjm. 2017.51873
9. I.K.Argyros , S. George , Local Convergence of a multi-point family of high order methods in Banach spaces under Hölder continuous derivative, *International Journal of Advances in Mathematics*, Volume 2018, Number 2, Pages 53--60, 2018..
10. S. George and C. D. Sreedeeep, Lavrentiev's regularization method for nonlinear ill-posed equations in Banach spaces, *Acta Mathematica Scientia*, 2018, 38B(1):303--314.
11. S. George and M. Sabari, Numerical approximation of a Tikhonov type regularizer by a discretized frozen steepest descent method, *Journal of Computational and Applied Mathematics*, 330, 1 (2018), 488--498, 10.1016/j.cam.2017.09.022
12. I.K.Argyros, S. George, Local convergence of Bilinear operator free methods under weak conditions, *Mat. Vesnik* 70 (2018), no. 1, 1--11.
13. I.K.Argyros, S. George, Extended optimality of secant methods on Banach space, *Commun. Optim. Theory* 2018 (2018), Article ID 3, 1-6.
14. I.K.Argyros, S. George, Local convergence for an almost sixth order method for solving equations under weak conditions, *SeMA*, DOI 10.1007/s40324-017-0127-z
15. I.K.Argyros, S. George, Increasing the order of convergence for iterative methods for nonlinear equations in Banach space under weak conditions, *Revista de la Real Academia de Ciencias Exactas*, DOI 10.1007/s13398-017-0420-9
16. I.K.Argyros and S. George, Expanding the applicability of the Kantorovich's theorem for solving generalized equations using Newton's method, *nt. J. Appl. Comput. Math* (2017) 3:3295--3304. DOI 10.1007/s40819-016-0297-x.
17. I.K.Argyros, S. George, Extended local convergence analysis of inexact Gauss-Newton method for singular systems of equations under weak conditions, *Stud. Univ. Babe Bolyai Math.*, 62(2017), No. 4, 547--562, DOI: 10.24193/subbmath.2017.4.11
18. I.K.Argyros, S. George, Ball convergence of the Laguerre-like method for multiple zeros, *International Journal of*

- Advances in Mathematics, Volume 2017, 6, (2017), 114--122.
19. I.K. Argyros, S. George, Extending the convergence domain of Newton's method for generalized equations, *Serdica Math. J.*, 43 (2017), 65--78
 20. I.K. Argyros and S. George, Improved Convergence Conditions of a Lavrentiev-Type Method for Nonlinear Ill-posed Equations by Using Restricted Convergence Domains, *Annales Univ. Sci. Budapest., Sect. Comp.* 46 (2017), 355--371.
 21. I.K. Argyros and S. George, On Newton's Method For Subanalytic Equations, *J. Numer. Anal. Approx. Theory*, vol. 46 (2017) no. 1, pp. 25--37.
 22. I.K. Argyros, P. Jidesh and S. George, On the local convergence of Newton-Like Methods with Fourth and Fifth-order of Convergence Under Hypotheses only on the First Fréchet Derivative, *Novi Sad J. Math.*, Vol. 47, No. 1, 2017, 1-15.
 23. I.K. Argyros, P. Jidesh and S. George, Improved robust semi-local convergence analysis of Newton's method for cone inclusion problem in Banach spaces under restricted convergence domains and majorant conditions, *Nonlinear Functional Analysis and Applications*, Vol. 22, No. 2 (2017), pp. 421--432
 24. I.K. Argyros and S. George, Ball Convergence of Newton's method for generalized equations using restricted convergence domains and majorant conditions, *Nonlinear Functional Analysis and Applications*, Vol. 22, No. 3 (2017), pp. 485--494.
 25. I.K. Argyros and S. George, Local convergence for a frozen family of Steffensen-like methods under weak conditions, *Research in Applied Mathematics*, vol. 1 (2017), Article ID 101259, 8 pages, doi:10.11131/2017/101259
 26. Santhosh George, Vorkady.S. Shubha and P. Jidesh., Convergence of a Tikhonov Gradient type-method for nonlinear ill-posed equations, *International Journal of Applied and Computational Mathematics*, 2017, Volume 3, Supplement 1, pp 1205--1215 <https://doi.org/10.1007/s40819-017-0411-8>.
 27. I.K. Argyros, S. George, Local convergence of a multi-step high order method with divided differences under hypotheses on the first derivative, *Ann. Univ. Paedagog. Crac. Stud. Math.* 16 (2017), 41-50 DOI: 10.1515/aupcsm-2017-0003
 28. I.K. Argyros, Stefan Muruster, S. George, On the convergence of Stirling's method for fixed points under not necessarily contractive hypotheses, *Int. J. Appl. Comput. Math.*, 2017, 3, 1, pp. 1071--1081 DOI 10.1007/s40819-017-0401-x
 29. I.K. Argyros, S. George, Extended and unified local convergence for Newton-Kantorovich method under $\$w-\$$ conditions, *WSEAS Transactions on Mathematics* Volume 16, 2017, Pages 248--256.
 30. I.K. Argyros, S. George and M. E. Shobha, Inexact Newton's method to nonlinear functions with values in a cone using restricted convergence domains, *Int. J. Appl. Comput. Math.*, 2017, 3, 1, pp 953--959, DOI 10.1007/s40819-017-0392-7.
 31. I.K. Argyros, S. George, Local convergence of a fast Steffensen-type method on Banach space under weak conditions, *Int. J. Computing Science and Mathematics*, Vol. 8, No. 6, 2017, 495-505.
 32. Santhosh George and M. Sabari, Error estimate for modified steepest descent method for nonlinear ill-posed problems under Hölder-type source condition, *Mathematical Inverse Problems*, Vol. 4, No. 1 (2017), 1-11

33. I.K. Argyros and S. George, Ball convergence theorem for a Steffensen-type third-order method, *Revista Colombiana de Matematicas*, Volumen 51(2017)1, 1-14, DOI 10.1007/s13398-017-0420-9
34. I.K. Argyros, S. George, Higher order derivative-free iterative methods with and without memory in Banach space under weak conditions, *Bangmod Int. J. Math. & Comp. Sci.*, Vol. 3, No. 1-2, 2017; Pages 25--34. <http://bangmod-jmcs.kmutt.ac.th/>
35. I.K. Argyros and S. George, Expanding applicability of efficient Steffensen-type algorithms for nonlinear equations, *Advances and Applications in Mathematical Sciences*, 16.4, (2017), 121-131.
36. I.K. Argyros and S. George, Expanding the applicability of Steffensen's method using restricted convergence domains, *Advances and Applications in Mathematical Sciences*, 16, 4, (2017), 133-150.
37. I.K. Argyros, Soham M. Sheth, Rami M. Younis \A. Alberto Magre \~n\an and S. George, Extending The Mesh Independence For Solving Nonlinear Equations Using Restricted Domains, *Int. J. Appl. Comput. Math*, 2017, 3, 1, pp 1035--1046, DOI 10.1007/s40819-017-0398-1
38. I.K. Argyros and S. George, A convergence of a Steffensen-like method for solving nonlinear equations in a Banach space, *CREAT. MATH. INFORM.* 26 (2017), No. 2, 125—136
39. I.K. Argyros and S. George, Local results for an iterative method of convergence order six and efficiency index 1.8171, *Novi Sad J. Math.* Vol. 47, No. 2, 2017, 19-29.
40. G. A. Anastassiou, I.K. Argyros and S. George, Proximal methods with invexity and fractional calculus, *PanAmerican Mathematical Journal* Volume 27(2017), Number 2, 84 - 89.
41. I.K. Argyros and S. George, A study on the local convergence of a Steffensen-King-type iterative method, *Nonlinear studies*, Vol. 24, No. 2, pp. 285--295, 2017
42. I.K. Argyros, S. George and P. Jidesh, Iterative Regularization methods for ill-posed Operator Equations in Hilbert scales, *Nonlinear studies*, Vol. 24, No. 2, pp. 257--271, 2017
43. I.K. Argyros and S. George, Expanding the applicability of inexact Newton methods using restricted convergence domains, *Applicationes Mathematicae* 44 (2017) , 123-133, DOI: 10.4064/am2292-3-2016
44. I.K. Argyros and S. George, Local convergence of some high order iterative methods based on the decomposition technique using only the first derivative, *Surveys in Mathematics and its Applications*, 12, (2017), 51--63.
45. I.K. Argyros and S. George, Local convergence of Jarratt-type methods with less computation of inversion under weak conditions, *Mathematical Modelling and Analysis* , Volume: 22, Issue: 02(2017), pages 228 - - 236.
46. I.K. Argyros and S. George, Local convergence of deformed Euler-Halley-type methods in Banach space under weak conditions, *Asian-European J. Math.* 10, 1750086 (2017) [9 pages], <https://doi.org/10.1142/S1793557117500863>
47. I.K. Argyros, S. George, On the convergence of Broyden's method with regularity continuous divided differences and restricted convergence domains, *J. Nonlinear Funct. Anal.* 2017 (2017), Article ID 21, pp 1-10.
48. I.K. Argyros and S. George, Expanding the applicability of the Gauss-Newton method for convex optimization under restricted convergence domains and majorant condition,

- Nonlinear Functional Analysis and Applications, Vol. 22, No. 1 (2017), 197—207
49. I.K. Argyros and S. George, Improved convergence analysis for the Kurchatov method, Nonlinear Functional Analysis and Applications, Vol. 22, No. 1 (2017), 41--58.
 50. I.K. Argyros and S. George, Local convergence of a two-step Newton-Secant method for equations with solutions of multiplicity greater than one, PanAmerican, 27, 1, (2017), 15--28.
 51. I.K. Argyros, S. George, Extending the local Convergence of some iterative methods based on quadrature formulas on Banach space under weak conditions, Transactions on Mathematical Programming and Applications, Volume 5(2017), Number 1, 51--59.
 52. I.K. Argyros, S. George, Unified local convergence for some high order methods with one parameter, Global Journal of Science Frontier Research" GJSFR-F Volume 17, Issue 8. , Version 1.0 Year 2017, 51--58.
 53. I.K. Argyros and S. George, Ball convergence for two-parameter Chebyshev-Halley-like methods in Banach space using hypotheses only on the first derivative, Communications on Applied Nonlinear Analysis, Vol. 24(2017), 1, 72 -- 81.
 54. I.K. Argyros, S. George and M. E. Shobha, Expanding the applicability of the generalized Newton Method for generalized equations, Commun. Optim. Theory 2017 (2017), Article ID 12.
 - Carbon Nanotube, Journal of Materials Engineering and Performance, 27, 5, 2018.
 2. D. Arumuga perumal, Lattice Boltzmann Computation of Multiple Solutions in a Double-Sided Square and Rectangular Cavity Flows, Thermal Science and Engineering Progress, 6, 2, 2018.
 3. Walunj A, Sathyabhama A, Transient CHF enhancement in High Pressure Pool Boiling on Rough Surface, Chemical Engineering and Processing, 127, 2018,
 4. B. K. Sreejith, A. Sathyabhama, Numerical study on effect of boundary layer trips on aerodynamic performance of E216 airfoil, Engineering Science and Technology, an International Journal 21 , 2018
 5. Avdhoot Walunj, A. Sathyabhama, Comparative Study of Pool Boiling Heat Transfer from Various Microchannel Geometries, Applied Thermal Engineering, 128, 2018
 6. Suhas B.G, Sathyabhama A, Experimental study on forced convective and subcooled flow boiling heat transfer coefficient of water-ethanol mixtures: an application in cooling of heat dissipative devices, Heat Mass Transfer 54 2018.
 7. Ramesh Kumar K R, Dr. Prasad Krishna, Nagarathna H.S Optimal Sizing and Stacking Sequence of Composite Skid Landing of Helicopter Int. J of Mech. Engg. and Tech. 9, 3 ,2018
 8. Ramesh Kumar K R, Dr. Prasad Krishna, Nagarathna H.S, Virtual Prototype with Rigid and Flexi body concept to Development of Multifunctional Robot, J. for Research, 37, 2017
 9. Ankit K., Ashish Varadea, Niranjana Reddy K, Sarmistha Dhana, Chellamalai M, Balashanmugam N., Dr. Prasad Krishna Synthesis of high hardness IR optical coating using diamond-like carbon by PECVD at Room Temperature, Diamond & Related Materials, 78, 2017.

DEPARTMENT OF MECHANICAL ENGINEERING

1. Sudhakar C. Jambagi, Anish Agarwal, Nilmoni Sarkar, P. P. Bandyopadhyay, Plasma-Sprayed Titania and Alumina Coatings Obtained from Feedstocks Prepared by Heterocoagulation with 1 wt. %

10. Ankit K., Ashish Varadea, Niranjan Reddy K, Sarmistha Dhana, Chellamalai M., Balashanmugam N., Prasad Krishna Synthesis of high hardness, low COF diamond-like carbon using RF- PECVD at Room Temperature Diamond & Related Materials 2017
11. Nitinchand Patil and Prasad Krishna, Effect of CuSn Filler on Tribological Performance of Glass Fiber-Epoxy Composite Int. J of Mech. Engg. and Tech. 8 7 2017
12. Madhav Unnikrishnan, Prasad Sunil Janve Prof. Prasad Krishna Development of FE Model for Spherical Roller Bearings Under Static Load Int. J of Engineering Innovation and Research 6 3 2017
13. Vinyas M., S.C. Kattimani A Finite element based assessment of static behavior of multiphase magneto-electro-elastic beams under different thermal loading tructural Engineering and Mechanics 62 5 2017
14. Vinyas M., S.C. Kattimani, Multiphysics response of magneto-electro-elastic beams in thermo-mechanical environment, Coupled System Mechanics, An International Journal 3, 6, 2017
15. Vinyas M., S.C. Kattimani, Static analysis of stepped functionally graded magneto-electro-elastic plates in thermal environment: A finite element study Composite Structures 178 2017
16. S.C. Kattimani, Active damping of multiferroic composite plates using 1–3 piezoelectric composites Smart Materials and Structures 26 12 2017
17. Vinyas M., S.C. Kattimani, Static behavior of thermally loaded multilayered Magneto-Electro-Elastic beam Structural Engineering and Mechanics An Int'l Journal 634, 2017
18. Vinyas M., S.C. Kattimani, Hygrothermal analysis of magneto-electro-elastic plate using 3D finite element analysis Composite Structures 180 2017
19. Vinyas M., S.C. Kattimani, Influence of coupled fields on free vibration and static behavior of functionally graded magneto-electro-thermo-elastic plate Journal of Intelligent Material Systems and Structures 2017
20. Vinyas M., S.C. Kattimani, A 3D finite element static and free vibration analysis of magneto-electro-elastic beam, Coupled System Mechanics, An International Journal 6, 4, 2017
21. Kiran M.C., S.C. Kattimani, Buckling analysis of skew magneto-electro-elastic plates under in-plane loading Journal of Intelligent Material Systems and Structures, 2017
22. Vinyas M., S.C. Kattimani, Investigation of the effect of BaTiO₃/CoFe₂O₄ particle arrangement on the static response of magneto-electro-thermo-elastic plates Composite Structures, 185 2018
23. Vinyas M., S.C. Kattimani Hygrothermal coupling analysis of magneto-electroelastic beams using finite element methods Journal of Thermal Stresses 2018
24. Kiran M.C., S.C. Kattimani Free vibration and static analysis of functionally graded skew magneto-electro-elastic plate SMART STRUCTURES AND SYSTEMS 21 4, 2018
25. M.P. Arunkumar Jeyaraj Pitchaimani K.V. Gangadharan M.C. Leninbabu Vibro-acoustic response and sound transmission loss characteristics of truss core sandwich panel filled with foam Aerospace Science and Technology, 78, 11, 2018
26. Shushanth Ashok, Jeyaraj Pitchaimani, Buckling Behavior of Non-Uniformly Heated Tapered Laminated Composite Plates with Ply Drop-Off International Journal of

- Structural Stability and Dynamics 18, 4, 2018
27. Sunil Waddar, P. Jeyaraj, Mrityunjay Doddamani, Influence of axial compressive loads on buckling and free vibration response of surface-modified fly ash cenosphere/epoxy syntactic foams, Journal of Composite Materials, 2018
 28. M. Rajesh, Savendra P. Singh, Jeyaraj Pitchaimani, Mechanical behavior of woven natural fiber fabric composites: Effect of weaving architecture, intra-ply hybridization and stacking sequence of fabrics Journal of Industrial Textiles, 47, 5, 2018
 29. Vinodh Bhagat, Jeyaraj, P. Experimental investigation on buckling strength of cylindrical panel: Effect of non-uniform temperature field, International Journal of Non-Linear Mechanics, 99, 2018
 30. M. Rajesh, Jeyaraj Pitchaimani, Mechanical characterization of natural fiber intra-ply fabric polymer composites: Influence of chemical modifications Journal of Reinforced Plastics and Composites, 36, 22, 2017
 31. Nivish George, P. Jeyaraj, S. M. Murigendrappa, Buckling and free vibration of nonuniformly heated functionally graded carbon nanotube reinforced polymer composite plate International Journal of Structural Stability and Dynamics, 17, 6, 2017
 32. Umanath R. Poojary, K. V. Gangadharan, Magnetic field and frequency dependent LVE limit characterization of magnetorheological elastomer, Journal of the Brazilian Society of Mechanical Sciences and Engineering, 39, 4, 2017
 33. Umanath R. Poojary, K. V. Gangadharan, Experimental investigation on the effect of magnetic field on strain dependent dynamic stiffness of magnetorheological elastomer Rheologica Acta, 55, 11-12, 2017
 34. Umanath R. Poojary and K. V. Gangadharan, Integer and Fractional Order-Based Viscoelastic Constitutive Modeling to Predict the Frequency and Magnetic Field-Induced Properties of Magnetorheological Elastomer, Journal of Vibration and Acoustics, 140, 4, 2018.
 35. K. P. Lijesh, Deepak Kumar, K. V. Gangadharan, Design of magneto-rheological brake for optimum dimension, Journal of the Brazilian Society of Mechanical Sciences 40, 3, 2018
 36. Umanath R. Poojary, Sriharsha Hegde, K. V. Gangadharan, Experimental investigation on the effect of carbon nanotube additive on the field-induced viscoelastic properties of magnetorheological elastomer, Journal of Materials Science, 53, 6, 2018
 37. Mukesh Prasad, K. V. Gangadharan, Aileron endurance test rig design based on high fidelity mathematical modeling, CEAS Aeronautical Journal, 8, 4, 2017
 38. Umanath R. Poojary, Sriharsha Hegde, K. V. Gangadharan, Dynamic deformation-dependent magnetic field-induced force transmissibility characteristics of magnetorheological elastomer, Journal of Intelligent Material Systems and Structures 28, 11, 2017
 39. Umanath R. Poojary, K. V. Gangadharan, Magnetic field and frequency dependent LVE limit characterization of magnetorheological elastomer, Journal of the Brazilian Society of Mechanical Sciences and Engineering, 39, 4, 2017
 40. K. V. Gangadharan, Sujatha Chandramohan, Analytical Studies on Ride Quality and Ride Comfort in Chennai Mass Rapid

- Transit System (MRTS) Railroad Vehicle
41. Journal of The Institution of Engineers (India): Series C, 1, 6, 2017
 42. S.K. Lohit, K.Hemanth, Hemantha Kumar, K.V. Gangadharan, Experimental and Analytical Studies on Magnetorheological Damper Applied Mechanics and Materials854, 2017
 43. Jayaram Thumbe, Ravikiran Kadoli, K. V. Gangadharan Evaluation of Flow Properties of Air at the Exit of Holes on the Blow Pipe in a Pulse Jet Filter Bag House
 44. Fluid Mechanics and Fluid Power–Contemporary Research, 375, 383, 2017
 45. Hemanth Krishna, Hemantha Kumar, Kalluvalappil Gangadharan, Optimization of magneto-rheological damper for maximizing magnetic flux density in the fluid flow gap through FEA and GA approaches, Journal of The Institution of Engineers (India): Series C, 98, 4, 2017
 46. Kiran Vernekar, Hemantha Kumar, K V Gangadharan
 47. Engine gearbox fault diagnosis using empirical mode decomposition method and Naïve Bayes algorithm, Sādhanā, 42, 7, 2017
 48. Archit S. Ayodhya, Venkatesh T. Lamani, Parashuram Bedar, G.N. Kumara Effect of exhaust gas recirculation on a CRDI engine fueled with waste plastic oil blend Fuel, 227, 2018
 49. Gangadhara Rao, G. N. Kumar & Mervin Herbert, Effect of injection pressure on the performance and emission characteristics of the CI engine using Vateria indica biodiesel International Journal of Ambient Energy, 2017.
 50. Archit S. Ayodhya, Venkatesh T. Lamani, M. Thirumoorthy, G.N. Kumar, NOx reduction studies on a diesel engine operating on waste plastic oil blend using selective catalytic reduction technique, Journal of the Energy Institute, 2018.
 51. Parashuram Bedar, Venkatesh T. Lamani, Archit S. Ayodhya, Kumar G. N Combined Effect of Exhaust Gas Recirculation (EGR) and Fuel Injection Pressure on CRDI Engine Operating with Jatropha Curcas Biodiesel Blends Journal of Engineering Science and Technology 12102018
 52. Venkatesh T. Lamani, Ajay Kumar Yadav, Kumar G. N, Performance, emission and combustion characteristics of twin cylinder common rail diesel engine fueled with butanol-diesel blends Environmental Science and Pollution Research 24292017
 53. Venkatesh T. Lamani, Aditya U. Baliga M, Ajay Kumar Yadav, Kumar G. N Effect of exhaust gas recirculation rate on performance, emission and combustion characteristics of a common-rail diesel engine fuelled with n-butanol–diesel blends Biofuels 2017
 54. Venkatesh T. Lamani, Ajay Kumar Yadav, Kumar G. N Influence of low-temperature combustion and dimethyl ether-diesel blends on performance, combustion, and emission characteristics of common rail diesel engine: a CFD study Environmental Science and Pollution Research 24182017
 55. Venkatesh T. Lamani, Aditya U. Baliga M, Ajay Kumar Yadav, Kumar G. N Effect of bioethanol-diesel blends, exhaust gas recirculation rate and injection timing on performance, emission and combustion characteristics

- of common rail diesel engine *Biofuels* 2017
56. Chitrakar, P., Shivaprasad, K., and Kumar, G. N, Experimental Analysis of Four Cylinder 4-Stroke Gasoline Engine Using Hydrogen Fractions for Performance and Emission Parameters *SAE International* 2017-26-0063 2017
 57. Venkatesh T. Lamani, Ajay Kumar Yadav, Kumar G. N Combustion, performance and tail pipe emissions of common rail diesel engine fuelled with waste plastic oil diesel blends *Journal of Thermal Science and Engineering Applications* TSEA-17-1208 2017
 58. Parashuram R Chitrakar, Shivprasad K V, Kumar G. N Use of Hydrogen in International Combustion Engines: A Comprehensive study *Journal of Mechanical Engineering and Bio Mechanics* 2017
 59. Parashuram Bedar, Kumar G. N Exhaust Gas Recirculation (EGR) – effective way to reduce NO_x emissions *Journal of Mechanical Engineering and biomechanics* 12 2017
 60. K.N.Kiran, S. Anish An investigation on the effect of Pitch wise End wall design in a turbine cascade at different incidence angles *Aerospace Science and Technology*, 71 2017
 61. S. Anish, N. Sitaram Computational Study of Effect of Radial Gap between Impeller and Diffuser on the Unsteadiness of Vaned Diffuser in a Centrifugal Compressor *Journal of Mechanical Science and Technology* 31 11 2017
 62. Prashanth basavaraja, Anish surendran, Ajay gupta, luca Saba, John r. laird Wall Shear Stress And Oscillatory Shear Index Distribution in Carotid Artery With Varying Degree of Stenosis: A Hemodynamic Study *Journal of Mechanics in Medicine and Biology* 17 4 2017
 63. Jithin J. Marattukalama Vamsi K. Balla Mitun Das Srikanth Bontha Sreeram K. Kalpathy Effect of heat treatment on microstructure, corrosion, and shape memory characteristics of laser deposited NiTi alloy *Journal of Alloys and Compounds* 744 2018
 64. Sthavishtha Bhopalam R. D. Arumuga Perumal., Ajay Kumar Yadav Computation of fluid flow in double sided cross-shaped lid-driven cavities using Lattice Boltzmann method *European Journal of Mechanics - B/Fluids* 70 2018
 65. Hemanth K., Hemantha Kumar and K.V. Gangadharan Dynamic analysis of half car model with MR damper as semi-active suspension element *International Journal of Acoustics and Vibration* 2017
 66. K Hemanth, Hemantha Kumar, KV Gangadharan Vertical dynamic analysis of a quarter car suspension systems with MR damper *Journal of Brazilian Society of Mechanical Engineers* 39 1 2017
 67. N. Gangadhar, Hemantha Kumar, S. Narendranath and Sugumaran V Condition Monitoring of Single Point Cutting Tool based on Machine Learning Approach *International Journal of Acoustics and Vibration* 2017
 68. N. Gangadhar, Kiran Vernekar, Hemantha Kumar, S. Narendranath Fault Diagnosis of Single Point Cutting Tool through Discrete Wavelet Features of Vibration Signals using Decision Tree Technique and Multilayer Perceptron *Journal of Vibration*

- Engineering and Technology 522017
69. Gurubasavaraju, T. M., Hemantha Kumar, and Arun, M. Evaluation of optimal parameters of MR fluids for damper application using particle swarm and response surface optimisation. *Journal of Brazilian Society of Mechanical Engineers* 3992017
 70. Madhusudana C. K., Hemantha Kumar, and Narendranath S. Face Milling Tool Condition Monitoring using Sound Signal 2017
 71. Anil Kumar K.S, S. M. Murigendrappa and Hemantha Kumar. A Bottom-up Optimization Approach for Friction Stir Welding Parameters of Dissimilar AA2024-T351 and AA7075-T651 Alloys. *Journal of Materials Engineering and Performance* 2672017
 72. Hemanth K., Lohit S.K., Hemantha Kumar and K.V. Gangadharan. Ride Comfort Analysis of a Vehicle with Semi-Active Suspension System with Fuzzy Logic Control Strategy Subjected to Random Road Irregularities. *Journal of Vibration Engineering & Technologies* 2017
 73. Kiran Vernekar, Hemantha Kumar, K.V. Gangadharan. Engine gearbox fault diagnosis using Empirical mode decomposition method and Naïve Bayes algorithm. *Sadhana* 4272017
 74. Gurubasavaraju, T.M., Hemantha Kumar. and Arun, M. Optimization of monotube magnetorheological damper under shear mode. *Journal of the Brazilian Society of Mechanical Sciences and Engineering* 3962017
 75. Srinivasa N., Gurubasavaraju T.M., Hemantha Kumar and Arun M. Vibration analysis of fully and partially filled sandwiched cantilever beam with magnetorheological fluid. *Journal of Engineering Science and Technology* 2017
 76. Gurubasavaraju T.M., Hemantha Kumar and Arun M. Performance analysis of a semi-active suspension system using coupled CFD-FEA based non-parametric modelling of low capacity shear mode monotube MR damper. *Journal of Automobile Engineering* 2018
 77. Gurubasavaraju, T. M., Hemantha Kumar, & Mahalingam. An approach for characterizing twin-tube shear-mode magnetorheological damper through coupled FE and CFD analysis. *Journal of the Brazilian Society of Mechanical Sciences and Engineering* 4032018
 78. J. V. Indukuri, R. Maniyeri, Numerical Simulation of Oscillating Lid Driven Cavity. *Alexandria Engineering Journal* Available Online 2017
 79. R. Maniyeri and S. Kang. Numerical study of swimming of an organism in a viscous fluid in a channel. *World Journal of Modelling and Simulation* Article in Press 2017
 80. Bhaskar Manne, Harish Thiruvayapati, Srikanth Bontha, Ramesh M R, Mitun Das, Vamsi Krishna Balla. Surface design of Mg-Zn alloy temporary orthopaedic implants: tailoring wettability and biodegradability using laser surface melting. *Surface & Coatings Technology* 3472018
 81. Mathapati, M., Doddamani, M., Ramesh, M.R. High-Temperature Erosive Behavior of Plasma Sprayed Cr₃C₂-NiCr/Cenosphere Coating. *Journal of Materials*

Engineering and Performance
2742018

82. Nagaraja C. Reddy, B.S. Ajay Kumar, H.N. Reddappa, M.R. Ramesh, Praveennath G. Koppad, S. KordHVOF sprayed Ni₃Ti and Ni₃Ti+(Cr₃C₂+20NiCr) coatings: Microstructure, micro hardness and oxidation behavior Journal of Alloys and Compounds 73652018
83. Vaibhav KumarBanka, M.R. RameshThermal Analysis of a Plasma Sprayed Ceramic Coated Diesel Engine PistonTransactions of the Indian Institute of Metals7122018
84. Hargovind Soni, Narendranath S., Ramesh M. RANN and RSM modeling methods for predicting material removal rate and surface roughness during WEDM of Ti50Ni40Co10 shape memory alloyAdvances in Modelling and Analysis A5432018
85. Gajanan Anne, M.R. Ramesh, H. Shivananda Nayaka, Shashi Bhushan Arya, Sandeep SahuDevelopment and characteristics of accumulative roll bonded Mg-Zn/ Ce/Al hybrid compositeJournal of Alloys and Compounds7242017
86. Mahantayya Mathapati, M.R. Ramesh, Mrityunjay Doddamani High temperature erosion behavior of plasma sprayed NiCrAlY/WC-Co/cenosphere coating Surface and Coatings Technology3252017
87. Soni, Hargovind; S, Narendranath; M R, Ramesh An experimental study of influence of wire electro discharge machining parameters on surface integrity of TiNiCo shape memory alloy Journal of Materials Research32162017
88. Anne, Gajanan; M R, Ramesh; Nayaka, H Shivananda; Arya, Shashibhushan; sahu, Sandeep

Development and properties evaluation of Mg-6%Zn/Al multilayered composites processed by accumulative roll bondingJournal of Materials Research32122017

89. Gajanan Anne, M R Ramesh, H Shivananda Nayaka, Shashi Bhushan AryaMicrostructure evolution, mechanical and corrosion behaviour of accumulative roll bonded Mg-2%Zn/Al-7075 multilayered compositeJournal of Materials Engineering and Performance2642017
90. Marattukalam Jithin, Balla Vamsi, Das Mitun. Bontha Srikanth, and Kalpathy SreeramEffect of heat treatment on microstructure, corrosion, and shape memory characteristics of laser deposited NiTi alloyJournal of Alloys and Compounds7442017.

DEPARTMENT OF MINING ENGINEERING

1. Kumar, D., and Dr.Ram Chandar K., "Computer Aided Slope Stability Monitoring. Disaster Advances," Vol. 10, Issue 12, (2017), 37-51 (Indexed in Scopus),2017.
2. Kumar, D., and Dr.Ram Chandar, K., " Slope Stability Monitoring in Opencast Coal Mine based on Wireless Data Acquisition System-A Case Study". International Journal f Engineering and Technology, opus Indexed). Accepted for Publication.
3. Gayana, B.C., and Dr.Ram Chandar.K," Sustainable Use of Mine Waste and Tailings as Aggregates in Concrete-A Critical Review. Jl. of Advances in Concrete Construction, accepted for publication" 2017(Indexed in SCIE, Scopus).
4. Abhishek Kumar Tripathi, Dr.Ch S N Murthy and Dr. M Aruna, "Experimental Investigation of Dust

- Effect on PV Module Performance”, Global Journal of Researches in Engineering Vol 17(3), 2017, pp. 35-39.
5. Abhishek Kumar Tripathi, Dr.M.Aruna and Dr.Ch.S.N.Murthy, “Output Power Loss of Photovoltaic Panel Due to Dust and Temperature”, International Journal of Renewable Energy Research (1), 2017, 439-442.
 6. Abhishek Kumar Tripathi, Dr. M. Aruna and Ch.S.N.Murthy, “Performance Evaluation of PV Panel Under Dusty Condition”, International Journal of Renewable Energy Development 2017
 7. Abhishek Kumar Tripathi, Dr.Aruna M and Dr.Ch.S.N.Murthy, “Study of The Performance of PV Panel Under The Different Shading Strength”, International Journal of Ambient Energy, Talyor & Francis 2017.
 8. Shreekanth R. Dr.M Aruna M and Dr. Harsha Vardhan,” Impact of Al_2O_3 , SiO_2 & Fe_2O_3 Present in Bricks Prepared Using Iron Ore Waste On Its Compressive Strength”, International Journal of Earth Sciences and Engineering Vo.10, No. 03, June, 2017, pp 700-705.
 9. Ravindra, Dr.M.Aruna M and Dr.Harsha Vardhan, “Investigation on the performance of a variable compression ratio engine operated with raw cardanol kerosene blends”, Biofuels, Talyor & Francis 2017.
 10. Abhishek Kumar Tripathi, Dr.M.Aruna M and Dr.Ch S N Murthy, “Performance Degradation of PV Module Due to Different Types of Dust Pollutants, Advanced Science Letter”, American Scientific Publisher Accepted, 2018.
 11. Shreekanth R Lamani, Dr.M.Aruna & Dr.Harshavardhan,”Development of Mathematical Models for Prediction of Compressive Strength & Water Absorption of Bricks Prepared Using IOW, Cement & Fly Ash WITH Different Mix Ratios”, Mining Engineer’s Journal Vol. 18, No. 11, June, 2017, pp 13-19
 12. Vijay kumar. S, Dr.Ch.S.N.Murthy, Dr.B.M.Kunar, “Effects of thermal response of physical properties during drilling operations-A case study” in materials today proceedings”, vol5(2)2018 pp 7404-7409(SCOPUS)
 13. Abhishek Kumar Tripathi, M.Aruna and Dr. Ch.S.N.Murthy,” Output Power Loss of Photovoltaic Panel Due to Dust and Temperature.” Output Power Loss of Photovoltaic Panel Due to Dust and Temperature”., International Journal of Renewable Energy Research.2017.
 14. Ch.S.N.Murthy and B.M Kunar,” Prediction and Measurement Methods of Thermal Properties in Rock Drilling Process” , A Review, Concurrent Advances in Mechanical Engineering 2017
 15. Dr.Ch.S.N.Murthy and Dr.M.Govinda Raj,” Effect of Process Parameters on Surface Finish and Material Removal Rate in Radial Drilling Process,” Concurrent Advances in Mechanical Engineering 2017.
 16. Dr.Sastry V.R, “Estimation of seismic energy carried by ground vibrations caused due to blasting by signal processing approach”, International Journal of Rock Mechanics and Mining Sciences, Elsevier 2017.
 17. Dr.Sastry V.R,” A novel approach to tap electrical energy from blast induced ground vibration waves”., International Journal of Energy and Environmental Engineering, Springer 2017
 18. Dr.Sastry V.R,” Finite element Analysis based prediction of ground vibration intensity in granite rock formation” Journal of Sound and Vibration, Elsevier 2017.
 19. Dr.Sastry V.R,” Assessment of

ground vibrations intensity in limestone formation with finite element analysis - based on case studies", Journal of seismology, Springer

**DEPARTMENT OF
METALLURGICAL & MATERIALS
ENGINEERING**

1. Tikale, S., Sona, M., and **K.N.Prabhu** Effect of Cooling Rate on Joint Shear Strength of Sn-9Zn Lead-Free Solder Alloy Reflowed on Copper Substrate, Materials Performance and Characterization, Vol. 6, No. 1, pp. 46-54, 2017
2. Vijeesh V and **K.N.Prabhu**, The Effect of Chilling and Ce Addition on the Microstructure and Mechanical Properties of Al-23Si Alloy, Journal of Materials Engineering and Performance, Vol. 26, Issue 1, pp. 343-349, 2017
3. Sudheer R and **K.N.Prabhu**, Cooling curve analysis of micro and nano graphite particle embedded salt-PCMs for thermal energy storage applications, Journal of Materials Engineering and Performance, Journal of Materials Engineering and Performance, Volume 26, Issue 8, pp.4040-4045, 2017
4. Vignesh Nayak U, Ramesh, G and **K.N. Prabhu**, Assessment of Spatiotemporal heat flux during quenching in TiO₂ and AlN nanofluids, Materials Performance and Characterization, Vol. 6, No. 5, 2017, pp. 745-756.
5. Pranesh Rao K. and **K.N.Prabhu**, Estimation of Spatially Dependent Heat Flux Transients for Inconel Probe Quenched in Molten Salt Bath, Materials Performance and Characterization, Vol. 6, No. 5, 2017, pp. 733-744.
6. Mrunali Sona and **K.N.Prabhu**, The effect of wetting gravity regime on shear strength of SAC and Sn-Pb solder lap joints, Journal of Materials Engineering and Performance Volume 26, Issue 9, pp 4177-4187, 2017.
7. Pranesh Rao K.M. and **K.N.Prabhu**, Effect of Bath Temperature on Cooling Performance of Molten Eutectic NaNO₃ - KNO₃ Quench Medium for Martempering of Steels, Metallurgical and Materials Transactions A, Volume 48, Issue 10, pp 4895-4904, 2017.
8. Manjunath, G. K., **Preetham Kumar, G.V & K. Udaya Bhat**, Tensile Properties and Tensile Fracture Characteristics of Cast Al-Zn-Mg Alloys Processed by Equal Channel Angular Pressing, Transactions of the Indian Institute of Metals, 70(3), 833-842, 2017.
9. Sneha, C., Prabukumar, C., Jayalakshmi, M., & **K. Udaya Bhat**, Structural and morphological changes with substrate heating in zinc films synthesized by thermal vapor deposition technique, Journal of Materials Science: Materials in Electronics, 28(11), 8038-8042, 2017.
10. Jayalakshmi, M., Bhat, B. R., & **K. Udaya Bhat**, Effect of Shot Peening Coverage on Surface Nanostructuring of 316L Stainless Steel and its Influence on Low Temperature Plasma-Nitriding, Materials Performance and Characterization, 6(4), 561-570, 2017.
11. Sneha, C., Prabukumar, C., Jayalakshmi, M, **K. Udaya Bhat**, Effect of Substrate temperature on the characteristics of ZnO films produced by a combination of thermal vapor deposition and oxidation processes, Journal of Materials Science: Materials in Electronics, 28, 21, pp 15959-15966, 2017.
12. Manjunath, G.K., **K. Udaya Bhat & Preetham Kumar G.V.**, Microstructure Evolution in Cast Al-Zn-Mg Alloys Processed by Equal Channel Angular Pressing, Metallography,

- Microstructure, and Analysis, 7, 1, 77–87, 2018.
13. Huilgol, P., **Rajendra Udupa, K. & K. Udaya Bhat**, Formation of microstructural features in hot-dip aluminized AISI 321 stainless steel, *International Journal of Minerals, Metallurgy, and Materials*, 25, 2, 190–198, 2018.
 14. Mohan Raj, J. R., Vittal, R., Huilgol, P., **K. Udaya Bhat** & Karunasagar, T4-like Escherichia coli Phages from the Environment Carry bla CTX-M., *Letters in applied microbiology*, 2018.15
 15. Nandana, M. S., **K. Udaya Bhat** & Manjunatha, C. M., Effect of Retrogression Heat Treatment Time on Microstructure and Mechanical Properties of AA7010, *Journal of Materials Engineering and Performance*, 27(4), 1628–1634, 2018.
 16. M. Jayalakshmi, Prashant Huilgol, Badekai Ramachandra Bhat, **K. Udaya Bhat**, Insights into formation of gradient nanostructured (GNS) layer and deformation induced martensite in AISI 316 stainless steel subjected to severe shot peening, *Surface and Coatings Technology*, 344, 295–302, 2018.
 17. A. G. Patil, Poornachandra, R. Gumageri, K. Rajkumar, **S. Anandhan**, Chitosan Composites Reinforced with Nanostructured Waste Fly Ash, *Journal of Material Cycles and Waste Management*, 19, 870, 2017.
 18. G. George, M. Selvakumar, A. Mahendran, **S. Anandhan**, Structure–Property Relationship of Halloysite Nanotubes/Ethylene–Vinyl Acetate–Carbon Monoxide Terpolymer Nanocomposites, *Journal of Thermoplastic Composite Materials*, 30, 121, 2017.
 19. S. K. Jaganathan, A. Balaji, H. Mohandas, G. Sivakumar, P. Kasi, M. Selvakumar, S. B. Kadiman, **S. Anandhan**, A. A. Mohd Faudzi, E. Supriyanto, M. Mandal, Hemocompatibility of Sulfuric Acid-Treated Metallocene Polyethylene and its Application in Reducing the Quantity of Medical Plastic Waste, *Polymer-Plastics Technology and Engineering*, 56, 240, 2017.
 20. B. Sachin Kumar, A. M. Shanmugharaj, S. K. Kalpathy, **S. Anandhan**, Some New Observations on the Structural and Phase Evolution of Nickel Titanate Nanofibers, *Ceramics International*, 43, 6845, 2017.
 21. C. Shamitha, T. Senthil, Lixin Wu, B. Sachin Kumar, **S. Anandhan**, Sol-gel Electrospun Mesoporous ZnMn_2O_4 nanofibers with High Specific Surface area, *Journal of Materials Science: Materials in Electronics*, 28, 15846, 2017.
 22. T. Senthil, **S. Anandhan**, Effect of Solvents on the Solution Electrospinning of Poly(styrene-co-acrylonitrile), *Kautschuk Gummi Kunststoffe*, 70, 44 (2017).
 23. B. Sachin Kumar, S. K. Kalpathy, **S. Anandhan**, Synergism of Fictitious Forces on Nickel Cobaltite Nanofibers: Electrospinning Forces Revisited, *Physical Chemistry Chemical Physics*, 20, 5295, 2018.
 24. M. Khalifa, B. Deeksha, A. Mahendran, **S. Anandhan**, Synergism of Electrospinning and Nano-Alumina trihydrate on polymorphism, crystallinity and piezoelectric performance of PVDF nanofibers, *JOM: the Journal of the Minerals, Metals & Materials Society*, DOI: 10.1007/s11837-018-2811-6, 2018.
 25. B. Sachin Kumar, V. C. Gudla, R. Ambat, S. K. Kalpathy, **S. Anandhan**, A Mechanistic Study on the Structure Formation of NiCo_2O_4 nanofibers decorated with In-Situ formed Graphene-like Structures' and Materials, *Journal of Inorganic and Organometallic Polymers*, DOI: 10.1007/s10904-018-0842-7, 2018.
 26. Brahmanandam Javvaji, Bhamy Maithry Shenoy, D Roy Mahapatra, Abhilash Ravikumar, GM Hegde, **M. R. Rahman**, Stable

- configurations of graphene on silicon, Applied Surface Science, Volume 414, 31 August 2017, Pages 25-33, 2017.
27. Hosangadi Prutvi Sagar, Vignesh Mahalingam, Debiprosad Roy Mahapatra, Gopalkrishna Hegde, Sathyanarayana Hanagud, **M.R. Rahman**, Transient dynamic distributed strain sensing using photonic crystal waveguides, Applied optics Volume – 56, Issue – 28, Pages: 7877-7885, 2017.
 28. Sunil Meti, **M.R. Rahman**, Md Imteyaz Ahmad, **K. Udaya Bhat**, Chemicals free synthesis of graphene oxide in the preparation of reduced graphene oxide-zinc oxide nanocomposite with improved photocatalytic properties, Applied Surface Science, Volume 451, 1 September 2018, Pages 67-75.
 29. Palaksha Pilar Acharya, Rajendra Udupa & **Ravishankar K. S.**, Microstructure and Mechanical Properties of Austempered AISI 9255 High-Silicon Steel, *Materials Science and Technology*, 34(3), 355-365, Taylor & Francis group, 2018.30.
 30. Pavan Pujar, Srinivas Gandla, Mukesh Singh, Bikesh Gupta, Kartick Tarafder, Dipti Gupta, Yong-Young Noh and **Saumen Mandal**, Development of low temperature stoichiometric solution combustion derived transparent conductive ternary zinc tin co-doped indium oxide electrodes, RSC Advances 7 (2017) 48253–48262.
 31. H. Komalakrishna, Gaurav Kumar, Biswanath Kundu, and **Saumen Mandal**, Development of Porous Nano-Hydroxyapatite from Austromegabalanus psittacus Marine Species Using Camphor and Wheat Flour as Pore Formers, Advanced Science Letters 24 (2018) 847–852.
 32. Manjunath G, Anusha P, Ashritha Salian, Bikesh Gupta and **Saumen Mandal**, Effect of O₂, N₂ and H₂ on annealing of pad printed high conductive Ag-Cu nano-alloy electrodes, Materials Research Express 5 (2018) 014014.
 33. Bikesh Gupta, Pavan Pujar, Sib Sankar Mal, Dipti Gupta, **Saumen Mandal**, Retention of high dielectric constant sodium beta alumina via solution combustion: role of aluminum ions complexation with fuel, Ceramics International 44 (2018) 1500-1511.
 34. Baskaran T, **S. B. Arya**, Influence of ceramic top coat and thermally grown oxide microstructures of air plasma sprayed Sm₂SrAl₂O₇ thermal barrier coatings on the electrochemical impedance behaviour, Surface & Coatings Technology 344 (2018) 601–613.
 35. S.B. Arya, A. Bhattacharya, Manish Roy, Electrochemical corrosion behavior of Ti-10V-2Fe-3Al in different corrosive media, Materials and Corrosion (accepted), 2018.
 36. Aman Gupta, Amit Kumar, T. Baskaran, **S B Arya**, Rajesh K Khatirkar, Effect of heat input on microstructure and corrosion behaviour of duplex stainless steel shielded metal arc weld, Trans. of the Indian Inst. of Metals (accepted), 2018.
 37. Vishal Vats, Baskaran T, S.B. Arya, Tribo-Corrosion Study of Nickel Free, High Nitrogen and High Manganese Austenitic Stainless Steel, Tribology International, vol. 119, pp 659-666, 2018.
 38. Baskaran T, **S. B. Arya**, Role of Thermally Grown Oxide and Oxidation Resistance of Samarium Strontium Aluminate based Air Plasma Sprayed Ceramic Thermal Barrier Coatings, Surface and Coatings Technology, Vol 326, pp 299-309, 2017.
 39. Gajanan Anne, M R Ramesh, H Shivananda Nayaka, **S.B. Arya**, Sandeep Sahu, Development and properties evaluation of Mg-6%Zn/Al processed by accumulative roll bonding, Journal of Materials Research Volume 32, , Issue 12 28 June 2017 , pp. 2249-2257
 40. Gajanan Anne, M R Ramesh, H

Shivananda Nayaka, **S.B. Arya**, Investigation of mechanical and corrosion behavior of Mg-Zn/Ce/Al hybrid composite developed by accumulative roll bonding, J. Alloys Compd., 724, 146-154, 2017.

41. Gajanan Anne, M R Ramesh, H Shivananda Nayaka, **S.B. Arya**, Microstructure evolution, mechanical and corrosion behaviour of accumulative roll bonded Mg-2%Zn/Al-7075 multi-layered composite, Journal of Materials Engineering and Performance, 26 (4), pp 1726–1734, 2017.

DEPARTMENT OF PHYSICS

1. T.C.M. Santhosh, Kasturi V. Bangera, G.K. Shivakumar, "Synthesis and band gap tuning in $\text{CdSe}_{(1-x)}\text{Te}_{(x)}$ thin films for solar cell applications", Solar Energy, Vol. 153, pp. 343-347 (2017)
2. T.C.M. Santhosh*, Kasturi V. Bangera, G.K. Shivakumar, "Effect of Bi doping on the properties of CdSe thin films for optoelectronic device applications", Materials Science in Semiconductor Processing, Vol. 68, pp. 114-117
3. S.P. Bharath*, Kasturi V. Bangera, G.K. Shivakumar, "Effect of cadmium incorporation on the properties of zinc oxide thin films", Applied Nanoscience, Volume 8, Issue 1–2, pp. 187–193(2017)
4. S.P. Bharath*, Kasturi V. Bangera, G.K. Shivakumar, "Effect of cadmium incorporation on the properties of zinc oxide thin films", Applied Nanoscience, Volume 8, Issue 1–2, pp. 187–193(2017)
5. S.P. Bharath*, Kasturi V. Bangera, G.K. Shivakumar, "Properties of $\text{Cd}_x\text{Zn}_{1-x}\text{O}$ thin films and their enhanced gas sensing performance" Journal of Alloys and Compounds, Volume 720, pp. 39-46(2017)
6. E. Veena*, Kasturi V. Bangera, G.K. Shivakumar "Study on structural, optical and electrical properties of spray pyrolysed $\text{Pb}_x\text{Zn}_{1-x}\text{S}$ thin films for opto-Electronic applications" Optik Vol. 144, pp. 528- 538(2017)
7. E. Veena*, Kasturi V. Bangera, G.K. Shivakumar Effective role of thickness on structural, electrical and optical properties of lead sulphide thin films for photovoltaic applications Materials Science and Engineering: B, Vol. 223, pp. 64-69(2017)
8. E. Veena*, Kasturi V. Bangera, G.K. Shivakumar "Effect of annealing on the properties of spray-pyrolysed lead sulphide thin films for solar cell application", Applied Physics A, 123:366(2017)
9. Kiran P., Ramakrishna V, Trebbin M, Udayashankar N.K, Shashikala H.D, "Effective role of $\text{CaO/P}_2\text{O}_5$ ratio on $\text{SiO}_2\text{-CaO-P}_2\text{O}_5$ glass system", Journal of Advanced Research 8, 279–288, 2017
10. Kiran P., Ramakrishna V, Udayashankar N.K and Shashikala H.D, "The effective role of alkali earth/alkali ratio on formation HCA nano particles for soda lime phospho silicate glass system", Open Nano 2, 47–56, 2017
11. Pavan Pujar, Srinivas Gandla, Mukesh Singh, Bikesh Gupta, Kartick Tarafder, Dipti Gupta, Yong-Young Noh, Saumen Mandal, "Development of low temperature stoichiometric solution combustion derived transparent conductive ternary zinc-tin co-doped indium oxide electrodes.", RSC Advances, Vol. 7(2017) Pages: 48253
12. P Sri kala, Kartick Tarafder, Darshak R Trivedi "Design and synthesis of a new organic receptor and evaluation of colorimetric anion sensing ability in organo-aqueous medium" Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Vol. 170 Page: 29(2017)
13. Swapna Challagulla, Kartick Tarafder, Ramakrishnan Ganesan, Sounak Roy "Structure sensitive photocatalytic reduction of nitroarenes over TiO_2 ", Nature Scientific Reports, Vol. 7, Page: 8783(2017)
14. Hidayath Ulla, M Raveendra Kiran, B Garudachari, TN Ahipa, Kartick Tarafder, Airody Vasudeva Adhikari, G Umesh, MN Satyanarayan, "Blue emitting 1, 8-naphthalimides with electron transport properties for organic light emitting diode

- applications", *Journal of Molecular Structure*, Vol. 1143, Page: 344 (2017)
15. Swapna Challagulla, Kartick Tarafder, Ramakrishnan Ganesan, Sounak Roy, "All that Glitters Is Not Gold: A Probe into Photocatalytic Nitrate Reduction Mechanism over Noble Metal Doped and Undoped TiO₂", *The Journal of Physical Chemistry C*, Vol. 212, Page: 27406(2017)
 16. R.K. Gupta, Hidayath Ulla, M.N. Satyanarayan, A.S. Achalkumar, "Perylene-Triazine based Star-shaped Green Light Emitter for Organic Light Emitting Diodes, *European J. Organic Chemistry*, Vol 2018, 1608-1613 (Feb. 2018)
 17. Makesh M., Sri kala P., M.N. Satyanarayan, Darshak R. Trivedi, "Photophysical and Electrochemical Properties of Organic Molecules: Solvatochromic Effect and DFT Studies", *Optical Materials* Vol. 77, 211-220 (2018)
 18. J. Tagare, Hidayath Ulla, M.N. Satyanarayan and V. Sivakumar, "Efficient Non-Doped Bluish-Green Organic Light Emitting Devices Based on N1 functionalized Star-Shaped phenanthroimidazole fluorophores", *J. Photochemistry and Photobiology A: Chemistry* 353, 53 – 64(2018).
 19. Raveendra Kiran, Hidayath Ulla, M.N. Satyanarayan and G. Umesh, "Optoelectronic Properties of Hybrid Diodes Based on Vanadyl-phthalocyanine and Zinc oxide", *Superlattices & Microstructures* 112, 654-664 (2017)
 20. T. Jairam, Hidayath Ulla, M.N. Satyanarayan and Sivakumar Vaidyanathan, "Synthesis, Photophysical and Electroluminescence Studies of New Triphenylamine – Phenanthroimidazole Based materials for Organic Light Emitting Diodes", *Journal of Luminescence* 194, 600-609 (2017)
 21. Abhay Kumar Yadav, Balaram Pradhan, Hidayath Ulla, Subrata Nath, Joydip De, Santanu Kumar Pal, M. N. Satyanarayan, Achalkumar A.S., "Tuning the self-assembly and photophysical properties of bi-1,3,4-Thiadiazole derivatives through electron donor-acceptor interactions and their application in OLEDs" *J of Materials Chem. C* 5, 9345-9358 (2017)
 22. S. Varadharajaperumal, Chinnaiyah Sripan, R. Ganesan, Gopalkrishna Hegde, and M. N. Satyanarayan, "Morphology Controlled n-Type TiO₂ and Stoichiometry Adjusted p-Type Cu₂ZnSnS₄ Thin Films for Photovoltaic Applications", *Crystal Growth & Design* 17(10), 5154-5162 (2017)
 23. Pranitha Sankar, H. D. Shashikala, Reji Philip "Ion dynamics of laser produced aluminium plasma at different ambient pressure", *Appl. Phys. A* (2018) 124: 26
 24. Sreekanth Perumbilavila, Kishore Sridharan, Dibyashree Koushika, Pranitha Sankara,, V. P. Mahadevan Pillai, Reji Philip, "Ultrafast and short pulse optical nonlinearity in isolated, sparingly sulfonated water soluble graphene", *Carbon*, Volume 111, January 2017, Pages 283-290.
 25. Akhila B Edathazhe, H.D. Shashikala, "Dissolution and in-vitro bioactive properties of BaO added Na₂O-CaO-P₂O₅ glasses", *Phys. Chem. Glasses: Eur. J. Glass Sci. Technol.*, 59, 34-49 DOI:10.13036/17533562.59.1.014
 26. Akhila B Edathazhe, H.D. Shashikala, "Corrosion resistance and in-vitro bioactivity of BaO containing Na₂O-CaO-P₂O₅ phosphate glass-ceramic coating prepared on 316 L, duplex stainless steel 2205 and Ti6Al4V", *Mater. Res. Express*, 5(3), 35404 DOI:10.1088/2053-1591/aab2f5
 27. Akhila B Edathazhe, H.D. Shashikala, "Optical properties of BaO added bioactive Na₂O-CaO-P₂O₅ glasses AIP Conference Proceedings. 1943, 020072, 1-7 DOI: 10.1063/1.5029648
 28. Deepak Vaid, "Superconducting and Antiferromagnetic Phases of Space-Time Advances in High Energy Physics, Vol 2017, Article ID 7935185 9 pages <https://doi.org/10.1155/2017/7935185>
 29. Vallema Sowjanya*, Kasturi. V. Bangera, G. K. Shivakumar, "Effect of

- substrate temperature and film thickness on the thermoelectric properties of In_2Te_3 thin films", *Journal of Alloys and Compounds*, Vol. 715, pp. 224-229
30. Siby Thomas, K M Ajith, M C Valsakumar, "Empirical potential influence and effect of temperature on the mechanical properties of pristine and defective hexagonal boron nitride" *Materials Research Express*, 4(6), 065005 (2017)
 31. Siby Thomas, K M Ajith, M C Valsakumar, "Effect of ripples on the finite temperature elastic properties of hexagonal boron nitride using strain-fluctuation method", *Superlattices and Microstructures* 111, 360-372(2017).
 32. Manju M.S, K M Ajith, M C Valsakumar, "Strain induced anisotropic mechanical and electronic properties of 2D-SiC", *Mechanics of Materials*, 120 43-52(2018)

SCHOOL OF MANAGEMENT

1. Priyanka and Shashikantha Koudur, "To Go, or Not to Go: The Palestinian Realities of Exile in the Works of Sahar Khalifeh", *Pertanika Journal of Social Sciences and Humanities*, 26 (1), pp. 441-452, March 2018.
2. Hungund, S. and Kiran K.B., "Influence of Firm-Level Factors on Adoption of Innovation Approach among Software Product SMEs: An Evidence from Bangalore Region of India", *International Journal of Business Innovation and Research* (Accepted for Publication, Indexed in Scopus and Ranked 'C' in ABDC list).
3. Hungund S. and Kiran K. B., "Open Innovation Practices Among Indian Software Product Firms: A Pilot Study", *International Journal of Innovation and Sustainable Development*, 11(4), 355-376, 2017 (Inderscience Publication, Scopus Indexed).
4. Saha, S., & Kumar, S. P., "Organization culture as moderator between affective commitment and job satisfaction: an empirical evidence from Indian Public Sector Undertakings", *International Journal of Public Sector Management*, 31(2), 184-206, 2018.
5. Kumar, S. P., & Giri, V. N., "Does involving teachers' in decision making enable them to walk an extra mile? An empirical investigation", *International Journal of Applied Business and Economic Research*, 15(22), 423-437, 2017.
6. Saha, S., & Kumar, S. P., "Influence of Trust and Participation in Decision Making on Employee Attitudes in Indian Public Sector Undertakings", *SAGE Open*, 7(3), 1-13, 2017.
7. Kumar, S. P., "Subjective well-being as a moderator between job satisfaction and job performance: A conceptual framework", *International Journal of Economic Research*, 14(17), 2017.
8. Saha, S., & Kumar, S. P., "Influence of Participation in Decision Making in Decision Making on Job Satisfaction, Group Learning, and Group Commitment: Empirical Study of Public Sector Undertakings in India", *Asian Academy of Management Journal*, 22(1), 79-101, 2017.
9. Mishra, S., & Kumar, S. P., "Exploring the Nexus between Psychological Contract and Turnover Intention: Conceptual Framework", *Romanian Economic and Business Review*, 12(1), 68-81, 2017.
10. Haritha, P.H., Uchil, Rashmi, "Effects Of Investor Sentiment in The Stock Market- A Behavioral Perspective", *Journal of Advanced Research in Dynamical and Control Systems*, 06 Issue, 1024-1032.
11. Suprabha K. R, Krishna Prasad, Shridev, "Labour Intensity and Skill Gap in Hospitality Sector: A Study in South India, Special Issue on *Service Innovation and Service Quality in the Public Sector*", *Public Enterprise Half-Yearly Journal*, 2017.
12. Vijayalakshmi N.S and Sequeira A. H. (2017), "The nature of Mother's employment on nurturing campus persistence among undergraduate students", *Asian Social Science*, Vol 13 No 6, pp 46-54.
13. Vijayalakshmi N.S and Sequeira A. H. (2017), "Campus Adaptations of Engineering Undergraduates by

- Gender", *Mediterranean Journal of Social Sciences*, Vol 8 No 3, pp 305-313.
14. Anitha P and Mohan, Bijuna C., "Effect of Peer Group Influence on Parental Purchases - Towards an Integrated Conceptual Frame Work", *International Journal of Applied Business and Economic Research*, Vol. 15, 2017.
 15. Haritha S and Mohan, Bijuna.C., "Influence of Involvement on Cognitive Dissonance in Online Shopping- A Critical Literature Review", *International Journal of Applied Business and Economic Research*, Vol. 15, 2017.
 16. Chakraborty, U. and Bhat, S. , "Credibility of online reviews and its impact on brand image", *Management Research Review*, Vol. 41, no. 1, pp.148-164, 2018.
 17. Chakraborty, U. and Bhat, S., "Online Reviews and Its Impact on Brand Equity", *International Journal of Internet Marketing and Advertising*, DOI: 10.1504/IJIMA.2018.090953, Vol. 12, no. 2, 2018.
 18. Chakraborty, U. and Bhat, S., "Effect of Credible Reviews on Brand Image: A Mixed Method Approach", *IIM Kozhikode society and management review*, Vol. 7, no.1, pp. 13-22, 2018.
 19. Chakraborty, U. and Bhat, S., "The effect of credible online reviews on brand equity dimensions and its consequence on consumer behaviour", *Journal of Promotion Management*, Vol. 24, no.1, pp. 57-82, 2017.
 20. Pranamya Bhat & Dhishna Pannikot., "The Performative Construct of Masculinity in Select Works of Hosseini", *Asian Quarterly: An International Journal of Contemporary Issues*. Volume No. 15 Issue No. 4. 100-109. ISSN 2229581X, Feb 2018.
 21. Dhishna Pannikot., "Travel Writing: Principles and Practice", *Asian Quarterly: An International Journal of Contemporary Issues* Volume No. 15 Issue No. 2, 6-20. ISSN 2229581X, August 2017.
 22. V. Bhatnagar, R. Majhi and Pradyot Ranjan Jena (2017)., "Comparative Performance Evaluation of Clustering Algorithms for Grouping Manufacturing Firms", *Arabian Journal for Science and Engineering*. DOI 10.1007/s13369-017-2788-4.
 23. Pradyot Ranjan Jena and Ulrike Grote (2017)., "Fairtrade Certification and Livelihood Impacts on Small-scale Coffee Producers in a Tribal Community of India.", *Applied Economic Perspectives and Policy*. 39(1), 87-110.
 24. Pradyot Ranjan Jena, Till Stellmacher, Ulrike Grote (2017)., "The impact of coffee certification on income among smallholders in Jinotega, Nicaragua. Environment, Development and Sustainability". 19(1), 45-66.
 25. Pradyot Ranjan Jena (2018)., "Does Trade Liberalization create more population? Evidence from a panel regression analysis across the states of India", *Environmental Economics and Policy Studies*. DOI.10.1007/s10018-018-0217-x.
 26. Rajesh Acharya H and Anver Sadath C., "Implications of energy subsidy reform in India", *Energy Policy*, Vol. 102, March 2017, pp. 453-462.
 27. Rajesh Acharya H and Anver Sadath C., "Assessing the extent and intensity of energy poverty using Multidimensional Energy Poverty Index: Empirical evidence from households in India", *Energy Policy*, Vol. 102, March 2017, pp. 540-550.

NATIONAL JOURNALS

DEPARTMENT OF APPLIED MECHANICS & HYDRAULICS

1. A V Hegde*, Subba Rao, Binumol, Sliding Stability Analysis Of Emerged Quarter Circle Breakwater With Varying Seaside Perforations, *IJGMS*, 2017
2. Binumol S, Subba Rao, and Arkal Vittal Hgde*, Wave reflection and loss characteristics of an emerged quarter circle breakwater with varying seaside perforations, *Journal of The Institute of Engineers India Series A*, Springer publications, vol 98 (3), pp 311-315. (<http://doi.org/10.1007/s40030-017-0198-y>), (ISSN 2250-2149 (Print); ISSN 2250-2157 (Online)).
3. Prashanth Janardhan, Subba Rao* and Kiran G. Shirlal, Reshaping berm breakwater- A physical model study *Indian Journal of Geo-Marine*

Science, Scopus indexed journal, vol 47(08/09), Sept 2017

4. Yajneswaran. B and Subba Rao*, Effect of Stiffness on Performance of a Diaphragm wall with Irregular Configuration, Indian Journal of Geo-Marine Science (IJMS), Scopus indexed journal, Nov/Dec 2017
5. Beena Mary J, Kiran G Shirlal and Subba Rao*, Experimental investigation of Wave Attenuation through Artificial vegetation Meadow, ISH Journal of Hydraulic Engineering, Taylor & Francis Publication, 2017
6. Binumol S, Subba Rao*, Arkal Vittal Hegde, Sliding stability analysis of emerged quarter circle breakwater with varying seaside perforations, Indian Journal of Geo-Marine Science, Scopus indexed journal, vol. 46 (07), July 2017, pp. 1428-1435.

DEPARTMENT OF CIVIL ENGINEERING

1. B. R. Jayalekshmi, S. V. Jisha and R. Shivashankar, "Analysis of foundation of tall R/C chimneys incorporating flexibility of soil", Journal of the Institution of Engrs (India), Series A, 17 DOI: 10.1007/s40030-017-0218-y, Sep.2017, 98(3):211-217, Springer publishers

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

1. H. Nagendrappa, and A. K. S. Bhat "A Fixed Frequency ZVS Integrated Boost Dual Three-Phase Bridge DC-DC LCL-Type Series Resonant Converter", IEEE Transactions on Power Electronics, vol. 33, no. 2, pp. 1007-1023, Feb. 2018
2. Akshata A Kotharkar and Puneekar G S "Grid connection to CPP in a deregulated electricity market: A case study related to fault current levels."The Journal of CPRI, Vol13, No.2, June 2017, pp.227-284
3. Srikanth Bhatt, Gopi Krishana Menon, Gururaj S Puneekar "On estimation of rate of change of frequency for relay settings during power export to grid from a CPP" The Journal of CPRI, Vol13, No.2, June 2017, pp.319-326

SCHOOL OF MANAGEMENT

1. Vijayalakshmi N.S and Sequeira A. H. ,(2017), "The Role Of Mother's Level Of Education Contouring Students Adaptation At Campus", Indian journal of Applied Research, Vol.7, Issue 1 , pp762-767 .

INTERNATIONAL CONFERENCES

DEPARTMENT OF APPLIED MECHANICS & HYDRAULICS

1. A.V.Hegde*, Jagalingam P., Building Extraction from Quickbird-2 Imagery, 6th International Engineering Symposium - IES 2017, March 1-3, 2017, Kumamoto University, Japan
2. Arkal Vittal Hegde* and Budime Raju, Conventional Prediction vs Beyond Data Range Prediction of Loss Coefficient for Quarter Circle Breakwater Using ANFIS, Springer International Publishing Switzerland 2015, I. Rojas et al. (Eds.): IWANN 2015, Part II, LNCS 9095, pp. 412-421, 2015. DOI: 10.1007/978-3-319-19222-2_35.
3. K. Suman and A. V. Hegde*, ANFIS Vs ANN for Prediction of Wave Reflection Coefficient for a Semicircular Breakwater, HYDRO 2017, 22nd International Conference on Hydraulics water resources and coastal engineering, LD college of Engineering, Ahmedabad, Dec., 21-23, 2017
4. Ramesh N, Hegde A V*, Subba Rao and Vivekanandan N, Comparison of Hydrodynamic Performance of Quarter Circular Breakwater using ANN and Auto Regression Methods, HYDRO 2017, 22nd International Conference on Hydraulics water resources and coastal engineering, LD college of Engineering, Ahmedabad, Dec., 21-23, 2017
5. Kumar Raju B C and L. Nandagiri*, Assessing Uncertainty of Variable Source Area Hydrological Model in Harangi watershed', 37th IAHR World Congress, 13-18 August 2017, Kuala Lumpur, Malaysia
6. Niranjan S and L. Nandagiri*, Evaluation of evapotranspiration models in different climatic regions of India

7. HYDRO 2017, 22nd International Conference on Hydraulics water resources and coastal engineering, LD college of Engineering, Ahmedabad, Dec., 21-23, 2017, p. 418-428.
8. Surajit Deb Barma, Amai Mahesha*, Ayilobeni Kikon, Paresh Chandra Deka, Amogh Mudbhatkal, A comparative analysis of hydrological signatures of two western ghat catchments , HYDRO 2017, 22nd International Conference on Hydraulics water resources and coastal engineering, LD college of Engineering, Ahmedabad, Dec., 21-23, 2017, p. 2242-2248.
9. Ajay Bhargav G, Kumaran V, Manu and Subba Rao*, Experimental Study on Caisson Breakwater
10. 7th International Conference on Emerging Trends in Engineering ICETE-2017", organized by NMAM Institute of Technology, NITTE from 12th May 2017,
11. Sanket Band and Subba Rao*, Predicting Wave Transmission Over Submerged Reef of Tandem Breakwater using ANFIS Algorithm, 7th International Conference on Emerging Trends in Engineering ICETE-2017"organized by NMAM Institute of Technology, NITTE from 12th May 2017
12. Vikas M, Subba Rao*, Jaya Kumar Seelam, Estimation of potential tidal energy along the Indian Coast
13. 13Proceedings of International Conference on Asian and Pacific Coasts 2017", organized by Philippines Institute of Civil Engineers, Pasay city, Philippines.
14. Geetha Kuntoji, Subba Rao*, Manu and Eluru Nava Bharath Reddy, Prediction of damage level of inner conventional rubble mound breakwater of Tandem breakwater using Swarm Intelligence based Neural Network (PSO-ANN) approach, 7th International Conference on Soft Computing for Problem Solving - SocProS 2017, during December 23-24, 2017 held at Indian Institute of Technology Bhubaneswar, Bhubaneswar (RECEIVED BEST PAPER AWARD for this paper)
15. 15Vikas Mendi, Subba Rao*, Jaya Kumar Seelam, General considerations for tidal energy extraction
16. 162nd International Conference on Climate Change, 15-16 February 2018, Colombo, Sri Lanka. (Poster)
17. 17Geetha Kuntoji, Subba Rao* and Manu, Prediction of Wave transmission over an outer submerged reef of Tandem breakwater using RBF based Support Vector Regression technique, Proceedings of 4th International Conference in Ocean Engineering (ICOE 2018), during 18th – 21st February, 2018 at IIT Madras, Chennai, India
18. Amaranatha Reddy N, Vikas Mendi, Jaya Kumar Seelam, Subba Rao* Non-dimensional classification of Tidal inlets along Central west coast of India Proceedings of 4th International Conference in Ocean Engineering (ICOE 2018), during 18th – 21st February, 2018 at IIT Madras, Chennai, India.
19. Kiran G Shirlal, Beena Mary John and Subba Rao*, Laboratory Investigations on the Effect of Fragmentation and Heterogeneity of Coastal Vegetation in Wave Height Attenuation", Proceedings of 4th International Conference in Ocean Engineering (ICOE 2018), during 18th – 21st February, 2018 at IIT Madras, Chennai, India.
20. 20Vikas Mendi, Amarnatha Reddy N, Jaya Kumar Seelam and Subba Rao*, Tidal energy estimation of potential tidal inlets along the east coast of India, 19.Proceedings of 4th International Conference in

- Ocean Engineering (ICOE 2018), during 18th – 21st February, 2018 at IIT Madras, Chennai, India
21. Ramesh N, Hegde A V, Subba Rao* and Vivekanandan N, Evaluation of Hydrodynamic performance of Quarter Circular Breakwater Using Soft Computing Techniques, Proceedings of 4th International Conference in Ocean Engineering (ICOE 2018), during 18th – 21st February, 2018 at IIT Madras, Chennai, India.2
 22. H. Ramesh*, Vidya Ganesh, Effectiveness of contrast limited adaptive histogram equalization technique on multispectral satellite imagery, International conference on Video and Image Processing (ICVIP-2017), Dec. 27-29, 2017, Nanyang Technological University, Singapore
 23. C. A. Rishikeshan, H. Ramesh*, Anjaly Vijay, An MM based approach for glacial lakes extraction
 24. 3rd International Conference on the Status and Future of the World's Large Rivers, 18-21 April 2017, New Delhi, India.
 25. Ramachandra Rao N., Vadivuchezhian Kaliveeran* and Amey Abraham, Buckling analysis of offshore pipelines using 3-D finite element analysis, International Conference on Recent Advances in Material Chemistry (ICRAMC 2017), Chennai, India.
 26. Raja Pandi R., Vadivuchezhian Kaliveeran*, Gowtham S. and Ramesh M. R, Effect of normal load on coefficient of friction for stainless steel alloys (SS304L and SS316) under dry sliding condition, International Conference on Recent Advances in Material Chemistry (ICRAMC 2017), Chennai, India.
 27. Palanikumar P., Nagaraj M. K., Gnanasekaran N., Gowtham S. and Vadivuchezhian Kaliveeran*, Dry sliding experiments to understand the effect of sliding speed on coefficient of friction for SS304 and SS304L International Conference on Recent Advances in Material Chemistry (ICRAMC 2017), Chennai, India
 28. Neeraja J., Vadivuchezhian Kaliveeran* and Murugan N., Dynamic analysis of jacket structure using finite element method, International Conference on Recent Advances in Material Chemistry (ICRAMC 2017), Chennai, India.
 29. Srinivasula Reddy I., Vadivuchezhian Kaliveeran*, Gowtham S. and Ramesh M. R, Wear tests on Aluminium alloys (Al 6061 and Al 6082) under dry sliding condition using pin on disk tribometer, International Conference on Recent Advances in Material Chemistry (ICRAMC 2017), Chennai, India.
 30. Vadivuchezhian K*, Buckling analysis of offshore pipelines using 3-D finite element analysis
 31. International Conference on Recent Advances in Material Chemistry (ICRAMC 2017), Chennai, India.
 32. 33. Vadivuchezhian K*, Effect of normal load on coefficient of friction for stainless steel alloys (SS304L and SS316) under dry sliding condition, ICRAMC 2017, Chennai, India.
 33. Vadivuchezhian K*, Dry sliding experiments to understand the effect of sliding speed on coefficient of friction for SS304 and SS304L , ICRAMC 2017, Chennai, India.
 34. Vadivuchezhian K*, Dynamic analysis of jacket structure using finite element method ICRAMC 2017, Chennai, India.
 35. 36. Vadivuchezhian K*, Wear tests on Aluminium alloys (Al 6061 and Al 6082) under dry sliding condition using pin on disk tribometer, ICRAMC 2017, Chennai, India.
 36. Thuvanismail, N.*, Shah, A.P, Surahonne, D.J. and Annamalaisamy, S.S., Effect of porous baffle on sloshing dynamics in a barge mounted

container subjected to wave excitation, (OMAE2017-61318). Proceedings of the 36th International Conference on Ocean, Offshore and arctic engineering, Trondheim, Norway, 25th – 30th June.

37. Thuvanismail, N*, Surahonne, D.J., Shah, A.P. and Annamalaisamy, S.S., Effect of porous baffle on sloshing pressure distribution in a barge carrying tank, (OMAE2017-61499). Proceedings of the 36th International Conference on Ocean, Offshore and arctic engineering, Trondheim, Norway, 25th – 30th June
38. Jhoga. P, Nasar. T*, Aanand. K. V, Kunhimammu. P., A geospatial approach to study shoreline configuration Dynamics - pre, during and post construction of training wall, 37th INDIAN NATIONAL CARTOGRAPHIC ASSOCIATION (INCA) International Congress on Geoinformatics for Carto-Diversity and it's management, Naval Hydrographic Office, Indian Navy, Dehradun. (Acknowledged by best paper award)

DEPARTMENT OF CHEMICAL ENGINEERING

1. S Gangamma, S Desai, D K Tripathi, D Vishnu Priya, and S Krishnaja. Biological components and inflammatory responses of particulate matter from biomass burning houses. Healthy Buildings Europe 2017, Lublin, Poland, July 2-5, 2017.
2. Niharika Gupta, Vishnu Manirethan, Rajmohan Balakrishnan and Keyur Raval , “Melanin coated PVDF disc packed bed column for the removal of hexavalent chromium from aqueous solution”, 7th International Engineering Symposium - IES 2018, March 7-9, 2018, Kumamoto University, Japan.
3. Keyur Raval, Ritu Raval, “Biomethane and Ammonia Generation Through Rice Mill Waste Water”, 6th Nirma University International Engineering Conference, Nov 23 to 25, 2017, Ahmedabad, India.
4. Thaira, H., Raval, K., Manirethan, V., Balakrishnan, R.M.,” Optimizing the biosynthesis of melanin nanoparticles and their application in heavy metal contaminated ground water remediation”, International conference on nanotechnology applications: Chemical e,nergy and Environment, 2017, SVNIT, Surat, India
5. Vishnu M, Reju Rajan, Harsha Thaira, Raj Mohan B, Keyur Raval, “Heavy Metal Remediation from Ground Water Using Bacterial Melanin Nanoparticles”, International conference on crystal ball vision on science and engineering for societal upliftment, 7-9 August, 2017, NIO, Goa, India
6. Harsha Thaira, Papacharyula Naveen Kumar, Keyur Raval and Raj Mohan Balakrishnan, “Studies on feasibility of organic solvents formelanin extraction”, International conference on crystal ball vision on science and engineering for societal upliftment, 7-9 August, 2017, NIO, Goa, India
7. Priyanka Bhat, Mrugali Sanjay Ghavte, Ritu Raval, and Keyur Raval, “Chitosan through Chitin Deacetylases: Past, Present and Future”, International conference on crystal ball vision on science and engineering for societal upliftment, 7-9 August, 2017, NIO, Goa, India.
8. Shiljashree Vijay, Smitha C K , Raj Mohan Balakrishnan, “Adsorption studies of nickel ferrite nanoparticles for removal

- of Irgalite violet dye from aqueous solutions” International Conference on Challenges in Environmental Science & Engineering CESE-2017. 11-15 November, 2017 Kunming, China
9. Smitha C K, Shiljashree Vijay, Raj Mohan Balakrishnan “Adsorption of Ibuprofen by silane coated nickel ferrite nanoparticles” International Conference on Challenges in Environmental Science & Engineering CESE-2017. 11-15 November, 2017 Kunming, China
 10. Raj Mohan Balakrishnan, Seenivasaperumal Alagarsamy, Smitha C K “Biosynthesis of Nickel ferrite Nanoparticles via an Endophytic Fungus *Lasiodiplodia theobromae* Isolated from *Plectranthus amboinicus*” International Conference on Challenges in Environmental Science & Engineering CESE-2017. 11-15 November, 2017 Kunming, China
 11. Raj Mohan Balakrishnan and Smitha C K “Triethanolamine and Oleic acid Assisted Synthesis of Nickel ferrite Magnetic Nanoparticles for degradation of pollutants in aqueous systems” The 5th International Symposium On Environmental Analytical Chemistry (ISEAC 5 – ASIA) May 16 – 20, 2017, Ho Chi Minh City, Viet Nam.
 12. Nithin K M , **Vidya Shetty K**, “Batch and Continuous Photocatalytic Degradation of 4-chlorophenol using Ag Core -TiO₂ Shell Structured Nanoparticles” Proceedings of **NanoWorld Conference** held during **April 03-05, 2017 at Boston, USA**
 13. Shivani R Jambur, Chetan Munegowdab and Vidya Shetty Kodialbail, “Photocatalytic degradation of dye reactive blue 220 (RB-220) by TiO₂ based photo catalyst containing biosynthesized silver nanoparticles, Proceedings of 7th International Engineering Symposium – IES2018,” *Organized by* Graduate School of Science & Technology Kumamoto University, Japan in association with National Institute of Technology Karnataka Surathkal, India during March 7-9, 2018 , B1-2
 14. Sonali Shetty, Rahul Agrawal, Prajwal H C and Vidya Shetty, “Synthesis of copper nanoparticles using *Tectona grandis* Linn leaf extract and its catalytic application in the reduction of 4-nitrophenol to 4-aminophenol, Proceedings of 7th International Engineering Symposium – IES2018,” *Organized by* Graduate School of Science & Technology Kumamoto University, Japan in association with National Institute of Technology Karnataka Surathkal, India during March 7-9, 2018, B1-5
 15. Shankramma K, Vidya Shetty K. “Photocatalytic activity of bismuth ferrite nanoparticles for degradation of dye; A comparative study , Proceedings of International conference on Recent Advances in Materials Science and Biophysics,” *Organized by* Department of Studies in Physics, Mangalore University, Mangalagangothri during January 23-25, 2018.
 16. Suman Das, Hari Mahalingam Development of polystyrene – TiO₂ nanocomposite photocatalyst for treatment of dye wastewaters, Fourth international Symposium on Advances in Sustainable Polymers (ASP 17) organized by Centre for sustainable polymers and Department Engg. IIT

Guwahati during January 8-11, 2018.

17. K S Pragadeesh, D Ruben sudhakar, "Experimental Investigation of Devolatilisation of Indian coal and Biomass during Chemical Looping Combustion"-First international Conference on Energy and Environment: global Challenges – 9th and 10th March, 2018 – NIT Calicut, Kerala

DEPARTMENT OF CIVIL ENGINEERING:

1. Nayana N. Patil, H.M. Rajashekar swamy and R. Shivashankar, "Effect of Reinforced soil structure interaction of foundation settlement characteristics of a 3D structure", ICEMIT 2017, Amity University, Ranchi, Dec. 2017
2. R. Shivashankar, Nalini E. Rebello, V. R. Sastry and B.R. Jayalekshmi, "Soil structure interaction studies with use of geosynthetics in soils beneath footings", GeoMEast 2017 at Sharm-el-Sheikh, Egypt.
3. J. Jayamohan, R. Shivashankar, Rajeev Kumar and Anjali Anandan, "Behaviour of footings resting on prestressed reinforced foundation beds", Geotechnical Frontiers 2017, March 12-15, Orlando, Florida, USA, ppr. Id 170333
4. Basavaraju Manu and Mahamood, "Photo-Fenton degradation of paracetamol – Evaluation of iron extracted from laterite soil as catalyst", RTESD 2018, VGU, Jaipur
5. K. Jayakesh and Suresha S.N., "Experimental Analysis of Interface Shear Fatigue Performance of Ultra-Thin Whitetopping", International Conference on Highway Pavements and Airfield Technology 2017, Philadelphia, Pennsylvania, August 27-30, 2017, pp. 283-294.
1. Christina Teresa Joseph, John Paul Martin, K Chandrasekaran, A Kandasamy, "Virtual Machine Migration A Perspective Study" in Advances in Big Data and Cloud Computing, Pages: 79-89 Publisher: Springer Singapore 2018
2. P Sarwesh, N Shekar V Shet, K Chandrasekaran "Reliable Cross Layer Design for E-Health Applications IoT Perspective in Cognitive Computing for Big Data Systems Over IoT, Pages: 97-113 Publisher: Springer Cham 2018
3. Krishna Kinnal, KV Sanjeev, K Chandrasekaran, "Analysis of Stock Prices and Its Associated Volume of Social Network Activity" in Networking Communication and Data Knowledge Engineering, Pages: 245-255 Publisher: Springer Singapore DOI: 10.1007/978-981-10-4585-1_20 2018
4. SR Shishira, A Kandasamy, K Chandrasekaran, "Comparative Study of Simulation Tools and Challenging Issues in Cloud Computing" in International Conference on Intelligent Information Technologies, Pages: 3-11 Publisher: Springer Singapore, DOI: https://doi.org/10.1007/978-981-10-7635-0_1 2017
5. SR Shishira, A Kandasamy, K Chandrasekaran, "Workload Characterization: Survey of Current Approaches and Research Challenges" in Proceedings of the 7th International Conference on Computer and Communication Technology, Pages: 151-156 Publisher: ACM, DOI: 10.1145/3154979.3155003 2017
6. S Anitha kumari, K Chandrasekaran "Interoperability Based Resource Management in Cloud Computing by Adaptive Dimensional Search", in Cloud Computing in Emerging Markets (CCEM) 2017 IEEE International Conference, Pages: 77-84 Publisher: IEEE, DOI: 10.1109/CCEM.2017.23 2017
7. C Marimuthu, K Chandrasekaran "Systematic Studies in Software Product Lines: A Tertiary Study", in Proceedings of the 21st

DEPARTMENT OF COMPUTER ENGINEERING

- International Systems and Software Product Line Conference-Volume A, Pages: 143-152 Publisher: ACM, DOI: 10.1145/3106195.3106212 2017
8. Kandiraju Sai Ashritha, TM Prajwala, K Chandrasekaran, "Activity Theory Based Approach for Requirements Analysis of Android Applications" in International Conference on Knowledge Management in Organizations, Pages: 3-15 Publisher: Springer Cham, DOI: https://doi.org/10.1007/978-3-319-62698-7_1 2017
9. Kiran Ramesh, Surya Ravishankaran, Abhishek Joshi, K Chandrasekaran, "A Survey of Design Techniques for Conversational Agents" in International Conference on Information Communication and Computing Technology, Pages: 336-350 Publisher: Springer Singapore, DOI:https://doi.org/10.1007/978-981-10-6544-6_31 2017
10. Deepthi Rao , DVN Siva Kumar , P Santhi Thilagam, "An Efficient Multi-User Searchable Encryption Scheme without Query Transformation over Outsourced Encrypted Data", in New Technologies Mobility and Security (NTMS) 2018 9th IFIP International Conference, Pages: 1-4 Publisher: IEEE, DOI: 10.1109/NTMS.2018.8328677
11. K Ganesh Reddy, V Purushothama Raju, P Santhi Thilagam "An effective analysis on intrusion detection systems in wireless mesh networks", in Advances in Computing Communications and Informatics (ICACCI) 2017 International Conference, Pages: 2213-2220 , Publisher: IEEE, DOI: 10.1109/ICACCI.2017.8126174, 2017
12. Tejaswi, P. V. Bindu, P. Santhi Thilagam "Target specific influence maximization: An approach to maximize adoption in labeled social networks" in COMSNETS 2017, pp -542-547
13. Vani M, "What makes a video memorable?", in 4th IEEE International conference on Data Science and Advanced Analytics (DSAA-2017) Japan
14. Likewin Thomas, MV Manoj Kumar, B Annappa, S Arun, A Mubin, "Prediction of Gallstone Disease Progression Using Modified Cascade Neural Network", in Proceedings of First International Conference on Smart System Innovations and Computing, Pages : 729-738 Publisher: Springer Singapore, DOI:https://doi.org/10.1007/978-981-10-5828-8_69 2018
15. MV Manoj Kumar, Likewin Thomas, B Annappa, "Simplifying Spaghetti Processes to Find the Frequent Execution Paths" in Proceedings of First International Conference on Smart System Innovations and Computing, Pages: 693-701 Publisher: Springer Singapore, DOI:https://doi.org/10.1007/978-981-10-5828-8_66 2018
16. Himanshu Yadav, B Annappa "Adaptive GPU resource scheduling on virtualized servers in cloud gaming" in Information and Communication Technology (ICT) 2017 Conference Pages-1-6 Publisher-IEEE, DOI: 10.1109/INFOCOMTECH.2017.8340641 2017
17. Ashwin Kumar Kulkarni, B Annappa "Cost aware service broker algorithm for load balancing geodistributed data centers in cloud" in Signal Processing Informatics Communication and Energy Systems (SPICES) 2017 IEEE International Conference, Pages-1-5 Publisher- IEEE, DOI: 10.1109/SPICES.2017.8091337 2017
18. RH Nidhi, B Annappa "Twitter-user recommender system using tweets: A content-based approach" in Computational Intelligence in Data Science (ICCIDS) 2017 International Conference, Pages- 1-6 Publisher- IEEE, DOI: 10.1109/ICCIDS.2017.8272631 2017

19. Routhu Srinivasa, Rao Alwyn Roshan Pais, "An Enhanced Blacklist Method to Detect Phishing Websites", in International Conference on Information Systems Security, Pages- 323-333 Publisher- Springer Cham, DOI- https://doi.org/10.1007/978-3-319-72598-7_20 2017
20. Mahaveer Prasad, Soni, Alwyn R Pais "Light-weight hash algorithms using GRP instruction" in Proceedings of the 10th International Conference on Security of Information and Networks, Pages-206-211 Publisher- ACM, Doi 10.1145/3136825.3136891 2017
21. Apurva S Kittur, Ashu Jain, Alwyn Roshan Pais "Fast Verification of Digital Signatures in IoT" in International Symposium on Security in Computing and Communication, Pages-16-27 Publisher- Springer Singapore, DOI- https://doi.org/10.1007/978-981-10-6898-0_2 2017
22. Alok Kumar, Alwyn Roshan Pais "Multi-sink En-Route Filtering Mechanism for Wireless Sensor Networks" in International Symposium on Security in Computing and Communication, Pages- 122-133 Publisher- Springer Singapore, DOI- https://doi.org/10.1007/978-981-10-6898-0_10 2017
23. Ajay Anto, R Srinivasa Rao, Alwyn Roshan Pais "Kernel Modification APT Attack Detection in Android" in International Symposium on Security in Computing and Communication, Pages- 236-249 Publisher- Springer Singapore, DOI: https://doi.org/10.1007/978-981-10-6898-0_20. 2017
24. Routhu Srinivasa Rao, Alwyn R Pais "Detecting phishing websites using automation of human behavior" in Conference, Proceedings of the 3rd ACM Workshop on Cyber-Physical System Security, Pages-33-42 Publisher- ACM, DOI:10.1145/3055186.3055188 2017
25. Inderjeet Singh, Alwyn R Pais "A Random Key Generation Scheme Using Primitive Polynomials over GF (2)" in International Symposium on Security in Computing and Communication, Pages-42-51 Publisher- Springer Singapore, DOI: 10.1049/iet-ipr.2017.0759
26. Keerthan S Shagrithaya, Eeshwar Gurushankar, Deepak Srikanth Pravin Ramteke, Shashidhar G Koolagudi "Video Stabilization Using Sliding Frame Window", in International Conference on Pattern Recognition and Machine Intelligence, Pages -227-232 Publisher- Springer Cham, DOI- https://doi.org/10.1007/978-3-319-69900-4_29, 2017
27. Saumya Hegde, Roshni Ajayghosh, Shashidhar G Koolagudi, Swapan Bhattacharya "Dynamic controller placement in edge-core software defined networks" in Region 10 Conference TENCON 2017-2017 IEEE, Pages-3153-3158 Publisher- IEEE, DOI: 10.1109/TENCON.2017.8228403, 2017
28. Manjunath Mulimani, UP Jahnavi, Shashidhar G Koolagudi, "Acoustic event classification using graph signals" in Region 10 Conference TENCON 2017 IEEE, Pages -1812-1816 Publisher- IEEE, DOI: 10.1109/TENCON.2017.8228152, 2017
29. David J Attokaren, Ian G Fernandes, A Sriram, YV Srinivasa Murthy, Shashidhar G Koolagudi, "Food classification from images using convolutional neural networks" Region 10 Conference TENCON 2017-2017 IEEE, Pages- 2801-2806 Publisher- IEEE, DOI: 10.1109/TENCON.2017.8228338, 2017
30. Manjunath Mulimani, UP Jahnavi, Shashidhar G Koolagudi "Acoustic event classification using graph signals" in Conference, Region 10 Conference TENCON , Pages-1812-1816 Publisher- IEEE, DOI: 10.1109/TENCON.2017.8228152, 2017
31. David J Attokaren, Ian G Fernandes , A Sriram, YV Srinivasa Murthy, Shashidhar G Koolagudi, "Food classification from images using

- convolutional neural networks” in Region 10 Conference TENCON, Pages -2801-2806 Publisher- IEEE, DOI: 10.1109/TENCON.2017.8228338, 2017
32. Pravin Bhaskar Ramteke, Anmol Sadanand, Shashidhar G Koolagudi, Vidya Pai “Characterization of aspirated and unaspirated sounds in speech” in Region 10 Conference TENCON, Pages -2840-2845 Publisher-IEEE, DOI: 10.1109/TENCON.2017.8228345, 2017
 33. Aparna R Joshi, Isha Tarte , Sreeja Suresh, Shashidhar G Koolagudi “Damage identification and assessment using image processing on post-disaster satellite imagery”, Global Humanitarian Technology Conference (GHTC) 2017 IEEE, Pages-1-7 Publisher- IEEE DOI: 10.1109/GHTC.2017.8239286, , 2017
 34. Veda Samhitha Abburu, Saumya Gupta, SR Rimitha, Manjunath Mulimani, Shashidhar G Koolagudi “Currency recognition system using image processing” Conference, Contemporary Computing (IC3) 2017 Tenth International Conference, Pages -1-6 Publisher-IEEE, DOI: 10.1109/IC3.2017.8284300 2017
 35. Nagaratna B, Chittaragi, Shashidhar G Koolagudi “Acoustic features based word level dialect classification using SVM and ensemble methods” in Contemporary Computing (IC3) 2017 Tenth International Conference, Pages - 1-6 Publisher-IEEE, DOI: 10.1109/IC3.2017.8284315 2017
 36. CB Yuvaraj, M Srikanth, V Santhosh Kumar, YV Srinivasa Murthy, Shashidhar G Koolagudi, “An approach to maintain attendance using image processing techniques” in Contemporary Computing (IC3) 2017 Tenth International Conference, Pages -1-3 Publisher- IEEE, DOI: 10.1109/IC3.2017.8284353 2017
 37. Ankit Tripathi, Benu Changmai, Shrukul Habib, Nagaratna B, Chittaragi, hashidhar G Koolagudi “Normalized video snapping: A non-linear video synchronization approach” in Contemporary Computing (IC3) 2017 Tenth International Conference, Pages- 1-6 Publisher -IEEE, DOI: 10.1109/IC3.2017.8284325 2017
 38. Saumya Hegde, Shashidhar G Koolagudi, Swapan Bhattacharya “Path restoration in source routed software defined networks” in Ubiquitous and Future Networks (ICUFN) 2017 Ninth International Conference, Pages- 720-725 Publisher- IEEE, DOI: 10.1109/ICUFN.2017.7993885 2017
 39. Kriti Nagori, Meenakshy Balachandran, Ankit Deepak, Mohit P Tahiliani, BR Chandavarkar “Common TCP Evaluation Suite for ns-3: Design Implementation and Open Issues” in Conference, Proceedings of the Workshop on ns-3, Pages- 9-16 Publisher -ACM, 2017
 40. Ankit Deepak, KS Shravya, Mohit P Tahiliani “Design and Implementation of AQM Evaluation Suite for ns-3” in Proceedings of the Workshop on ns-3, Pages- 87-94 Publisher- ACM, DOI:10.1145/3067665.3067674 2017
 41. Khyamling Parane, Basavaraj Talawar, Prabhu Prasad “YaNoC: Yet Another Network-on-Chip Simulation Acceleration Engine Using FPGAs” in VLSI Design and 2018 17th International Conference on Embedded Systems (VLSID) 2018 31st International Conference on Pages- 67-72 Publisher- IEEE, DOI: 10.1109/VLSID.2018.39 2018
 42. M. Venkatesan, “Hybrid Intelligent Bayesian Model for Analyzing Large Spatial Data” in The 6th International Conference on Frontier Computing (FC 2017) Lecture Notes in Electrical Engineering (LNEE) Springer, 2017
 43. Dr. M. Venkatesan, “Cognitive Computing for Big Data Systems Over Io, Frameworks Tools and

DEPARTMENT OF CHEMISTRY

1. Harsha B. and D. Krishna Bhat, Hierarchical porous BaTiO₃ nano-hexagons as a visible light photocatalyst, International Conference on Recent Trends in Engineering and Sciences, Vishakapatnam, February 20-21, 2018.
2. Harsha B. and D. Krishna Bhat, Rhodium doped SrTiO₃ as a visible light photocatalyst, 23 rd National Symposium on Catalysis, Bengaluru, January 17-19, 2018.
3. Meenaketan Sethi And D. Krishna Bhat, "Graphene-Nickel Cobaltite Nanocomposite As High Performance Supercapacitor Electrode Material." Presented In International Conference On Crystal Ball Vision On Science And Engineering For Societal Upliftment, Ijaa-2017, Held At Csiir-Nio, Goa During 7th-8th, August 2017.
4. D. Krishna Bhat and U. Sandhya Shenoy, 'High Thermoelectric Performance of co-doped Tin Telluride Due to Synergistic Effect of Magnesium and Indium' 5th International Conference of the Indian Council of Chemists held at Bali, Indonesia, June 7-9, 2017.
5. Praveen Mishra and Badekai Ramachandra Bhat (2018). "Oxalic acid and graphene oxide quantum dots in aqueous medium: an electrochemical perspective" International Conference on Science and Engineering of Materials (ICSEM 2018). 06-08 January 2018, Sharda University, Greater Noida, Uttar Pradesh, India.
6. Praveen Mishra and Badekai Ramachandra Bhat (2018). "Calcium Induced Photoluminescence Quenching in Graphene Quantum Dots" International Conference on Recent Trends in Engineering & Sciences (ICRTES 2018). 20-21 February 2018, Visakhapatnam, Andhra Pradesh, India
7. Lolakshi M. K and B. Ramachandra Bhat (2018). "Four coordinate copper pincer complex as a catalyst precursor for Suzuki Miyaura cross coupling ." International Conference on Science and Engineering of Materials (ICSEM 2018), 6-8th January, 2018. Sharda University, Greater Noida, U.P, India.
8. Lolakshi M. K and B. Ramachandra Bhat (2018). "Iron pincer complexes as catalysts in cross-coupling of aryl halides and phenylboronic acid." International Conference on Recent Trends in Engineering & Sciences(ICRTES-2018), 20-21st February, 2018. Vishakhapatnam, A.P, India.
9. Rasheeda M. Ansari and Badekai Ramachandra Bhat (2018). "Synthesis Characterization and Catalytic activity of Nano-iron (II) Schiff base Complex in Suzuki-Miyaura Cross coupling reaction" International Conference on Recent Trends in Engineering and Sciences (ICRTES-2018). 20th -21st February, 2018. Visakhapatnam, Andhra Pradesh, India.
10. Rasheeda M. Ansari and Badekai Ramachandra Bhat (2018). "Synthesis Characterization and Catalytic activity of Nano-structured Co(II) Schiff base complex in Suzuki-Miyaura cross coupling reaction" International Conference on Science and Engineering of Materials (ICSEM-2018). 6-8th January, 2018. School of basic Sciences and Research, Sharda University, Greater Noida-201306 Delhi, India.
11. Rasheeda M. Ansari and Badekai Ramachandra Bhat (2017). "Nano-Structured Fe(II) Schiff Base Complex: Synthesis, Characterization And Catalytic Activity" International Conference on Nanoscience and Nanotechnology (ICONN-2017). 9-11th August, 2017. Department of physics and Nanotechnology, SRM University, Kattankulanthur, Chennai- 603203 Tamil Nadu, India.
12. Praveen Mishra and Badekai Ramachandra Bhat (2017). Effect of ion beam on graphene quantum

- dots. International Conference on "Accelerators in Materials and Medical Sciences (ICAMMS'17)", 5-7th October 2017, Amity University Dubai Campus, Dubai, UAE.
13. Praveen Mishra and Badekai Ramachandra Bhat, Electrochemical Detection of Oxalic acid in aqueous solution using Graphene Quantum Dots, 5th International conference of Indian Council of Chemists at Swiss-Belhotel Rainforest, Kuta, Bali, Indonesia, June 7-9, 2017.
 14. Nagabhushana Nayak and Udaya Kumar D. "Click reaction and green chemistry approach for the synthesis of new pyrazole-triazole hybrids" 5th international conference organized by Indian Council of Chemists on 'Current concepts in Chemistry'. 07 - 09 June 2017. Bali, Indonesia.
 15. Viprabha K. and Udayakumar, D. "A thiophene derivative for application in optoelectronic devices." International Conference on Emerging Trends in Chemical Sciences, held at Manipal Institute of Technology, Manipal. 14-16 September, 2017.
 16. Rajalakshmi K and **A Vasudeva Adhikari**, "Molecular Design and Synthesis of Metal Free Diphenylamine Based Sensitizer for Dye Sensitized Solar Cells", International Conference on Emerging Trends in Chemical Sciences (ICETCS-2017), Manipal Institute of Technology, Manipal, Karnataka, Sep 14-16, 2017
 17. Rajalakshmi K and A Vasudeva Adhikari, "Design and synthesis of an asymmetric bi-anchored metal-free dye for dye sensitized solar cell", 2nd International conference on Advances in Material Science and Technology (ICAMST-2017), VIT Institute, Vellore, Tamil Nadu, Oct 9-11, 2017.
 18. A. Vasudeva Adhikari, Vinayakumara, Sandeepkumar, "Luminescent columnar liquid crystals based on cyanopyridine-2-one: Synthesis, structure,

mesomorphic and photophysical properties", Indian Council of Chemists 5th International Conference on Current Concepts in Chemistry, held at Swiss-Belhotel Rainforest, in Bali (Indonesia), during June 07 - 09, 2017.

DEPARTMENT OF ELECTRONICS AND COMMUNICAION ENGINEERING

1. Karishma Shiraj Mulani, Harish Kumar, Gaurav M.K and Sumam David S Hardware Acceleration of Optically Labeled Human Genome Sequencing using a Novel Algorithm, International Conference on Electronics, Computing and Communication Technologies (IEEE CONECCT), Bangalore, March 2018 .
2. Bhat Raghavendra Ravi, Deepu S. P., Ramesh Kini M., Sumam David S., Wavelet based Noise Reduction Techniques for Real Time Speech Enhancement, International Conference on Signal Processing and Integrated Networks, SPIN2018, Noida, February 2018.
3. Basti Bharath Shenoy, Tonse Laxminidhi and U. Shripathi Acharya, "Design and Development of Sustainable Low Cost Clean Energy Harvesting System for Lighting Targeted at Rural Applications", IEEE 2018 Biennial International Conference on Power and Energy Systems: Towards Sustainable Energy (PESTSE), Jan 2018.
4. Prashant K Kharat, Aniket Rege, Aneesh Goel, Muralidhar Kulkarni, " QUIC Protocol Performance in Wireless Networks', Seventh IEEE International Conference on Communication and Signal Processing – ICCSP'18, India. Accepted for oral presentation and publication in IEEE Xplore.
5. Prashant Kharat, Muralidhar Kulkarni, "Situation-Based Congestion Control Strategies for Wired and Wireless Networks",

- International Conference on Advances in Communication and Computing Technology (ICACCT)- 2018, India.
6. Anu Shaju Areeckal, Mathew Sam, and Sumam David S., "Computerized Radiogrammetry of Third Metacarpal Using Watershed and Active Appearance Model", Proceedings of 19th IEEE International Conference on Industrial Technology (ICIT), Lyon, France, DOI: 10.1109/ICIT.2018.8352401, pp.1490-1495, 2018.
 7. Anu Shaju Areeckal, Nikil Jayasheelan, Jagannath Kamath, Sophie Zawadynski, Michel Kocher, and Sumam David S., "Early Diagnosis of Osteoporosis using Radiogrammetry and Texture Analysis from Hand and Wrist Radiographs in Indian Population", Osteoporosis International, Springer, DOI: 10.1007/s00198-017-4328-1, VOL 29, no 3, pp.665-673, Mar 2018.
 8. R Prasad Naik, Amardeep kumar and U Shripathi Acharya, "Experimental Studies on performance of Optical Communication links for seawater employing Channel Coding, Interleaving and Diversity Techniques" International Conference on Sonar Sensors and Systems, Feb 2018.
 9. Asha C S and A V Narasimhadhan, Vehicle Counting for Traffic Management System using YOLO and Correlation Filter, accepted, IEEE Connect 2018.
 10. Kuncham S, Gadiyar Manasa, Sushmitha Din, Kirankumar Lad & Laxminidhi T. "A Novel Zero Blind Zone Phase Frequency Detector for Fast Acquisition in Phase Locked Loops" Proceedings of 31st International Conference on VLSI Design (VLSID), Jan 2018 pp. 167-170 (IEEE).
 11. Sowmya Sankaranarayanan; Kulkarni Chaitali Vinod; Aswanth Sreekumar; Tonse Laxminidhi; Vipul Singhal; Rajat Chauhan "Single Inductor Dual Output Buck Converter for Low Power Applications and Its Stability Analysis" Proceedings of 31st International Conference on VLSI Design (VLSID), Jan 2018, pp 347-352, (IEEE)
 12. Shilpa Suresh, Devikalyan Das, and Shyam Lal, "A Framework for Quality Enhancement of Multispectral Remote Sensing Images", 9th IEEE International Conference on Advanced Computing (ICoAC-2017), Chennai, Tamil Nadu, December 14 – 16, 2017. (yet to be updated on IEEE Xplore)
 13. Karthik Rudramuni, Krishnamoorthy Kandasamy, Abhishek Kandwal and Qingfeng Zhang, "Compact Bandpass Filter Based on Hybrid Spoof Surface Plasmon and Substrate Integrated Waveguide Transmission Line", IEEE Electrical Design of Advanced Packaging and Systems (EDAPS) Symposium, Haining, Hangzhou, China, Dec-2017.
 14. Mathew Sam, Anu Shaju Areeckal, and Sumam David S., "Early Diagnosis of Osteoporosis Using Active Appearance Model and Metacarpal Radiogrammetry", Proceedings of 13th IEEE International Conference on Signal Image Technology and Internet Based Systems (SITIS), Jaipur, India, DOI: [10.1109/SITIS.2017.38](https://doi.org/10.1109/SITIS.2017.38), pp.173-178, Dec 2017.
 15. Shreyas A Simu and Shyam Lal, "Automated Bone Age Assessment using Bag of Features and Random Forests", Proc. of IEEE International Conference on Intelligent Sustainable Systems (ICISS 2017), Coimbatore, Tamil Nadu, December 7-8, 2017.

16. Shilpa, Aparna and Abhilash, "Sample-based DC prediction strategy for HEVC lossless intra prediction mode", Fourth International Conference on Image Information Processing (ICIIP), DOI:10.1109/ICIIP.2017.8313797, pp. 1-5, Dec 2017.
17. B. Majumder, K. Kandasamy, J. Mukherjee and K. P. Ray, "A Novel Beam Steering Dipole Antenna using Phase Varying Metasurface as Reflector", IEEE International Conference on Antenna Innovations and Modern Technologies (IAIM)-2017, Bangalore, India, 24-26 November 2017.
18. Karthik Samtani, Jobin Thomas V, Deepu S.P, Sumam David S, Area and Power Optimised ASIC Implementation of Adaptive Beamformer for Hearing Aids, 13th IEEE Biomedical Circuits and Systems Conference (BioCAS 2017), Turin, October 2017.
19. Abhishek MB, N. Shekar V. Shet, "Data Transmission Unit and web server interaction to monitor water distribution: A cyber physical system perspective", 4th International Conference on Earth Sciences and Engineering, Andalas University, Padang, Indonesia, 29-31 August 2017.
20. Puneeth Kumar and Rekha S., "Fast startup Crystal Oscillator Design", IEEE International Conference on Energy, Communication, Data Analytics & Soft computing (ICECDS)-2017, SKR Engg. College, Tamil Nadu, August 1st-2nd, 2017.
21. Alison E. Viegas, Rekha S., Srinivasan Raghavan and Navakanta Bhat, "A novel 3D Capacitor Design using Nanoporous and nanotubular Anodic Oxides", 8th ISSS International Conference on Smart Materials, Structures and Systems, IISc, Bengaluru, July 5-7 2017.
22. Princy M Paul, K. Krishnamoorthy, and Mohammed S. Sharawi, "SRR Loaded Slot Antenna for Multiband Applications", 2017 IEEE AP-S Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting, San Diego, California, USA, July 9-14, 2017.
23. N. Ramshanker, Kolla Lakshmi Ganapathi, Shankaranarayana M Bhat and Sangeneni Mohan "RF Sputtered CeO2 Films For Oxygen Sensing", Eighth International Conference on Smart Materials, Structures & Systems (ISSS), July 5-7, 2017
24. Hanumantha Rao G. and Rekha S. "Low Voltage, Low Power Transconductor for Low Frequency Gm-C Filters" 21st International Symposium VLSI Design and Test (VDAT), Roorkee, India, June 29-July 2, 2017.
25. Abhishek Rathan Kumar, Anirudh Birur, Vivek Venkatraman, Sumam David S., Accelerating Real-time Computer Vision Applications using HW/SW Co-design, IEEE International Conference on Computer, Communications and Electronics 2017 (Comptelix 2017), Jaipur, July 2017.
26. Karthik Samtani, Jobin Thomas V, Abhinav Varma, Sumam David S, Deepu S.P., FPGA Implementation of Adaptive Beamforming in Hearing Aids, 39th Annual International Conference of the IEEE Engineering in Medicine and Biology, Jeju Island, Korea, July 2017.
27. Ranjan Kumar Mahapatra, N.S.V. Shet, "Topology Control in Wireless Sensor Networks: A Survey" ICIECE, July, 2017.
28. Princy M Paul, K. Krishnamoorthy, and Mohammed S. Sharawi, "Quad Band SRR loaded Square Slot Antenna", THE 9th IEEE GCC CONFERENCE & EXHIBITION, Manama, Bahrain, 8-11 May 2017.
29. Baldeo Sharan Sharma and M. S. Bhat, "A Novel Dual-Gate

- Nano-Scale InGaAs Transistor with modified Substrate Geometry", IEEE International Conference on Innovations in Electronics, Signal Processing and Communication (ICIESC 2017), 6-7 April, 2017, Shillong, Meghalaya - Won the Best Paper Award.
30. Naga Lakshmana Kumar K, Pathipati Srihari, Gnane Swarnadh Satapathi, GVK Sharma " A High Speed Complementary Pulse Compressor and its Implementation of FPGA " IEEE Radar Conference (Radarcon-2017), Seattle, USA May 8-12, 2017.
 31. C. S. Balure, Arnav Bhavsar, Ramesh Kini M, Local segment-based dense depth reconstruction from very sparsely sampled data, Twenty third National Conference on Communications, (NCC 2017) DOI: 10.1109/NCC.2017.8077134
 32. C. S. Balure, Ramesh Kini M., Arnav Bhavsar, GMM Based Single Depth Image Super-Resolution, National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics (NCVPRIPG 2017)
 33. Nagaraj Y and A V Narasimhadhan, Comparison of edge detection algorithms in the framework of despeckling carotid ultrasound images based on Bayesian estimation approach, NCVPRIPG 2017, IIT Mandi.
 34. G V S S K R Naganjaneyulu, Ch Sai Krishna and A V Narasimhadhan A Novel Method for Logo Detection Based on Curvelet Transform Using GLCM Features, accepted in CVIP, 2017
 35. Asha C S and A V Narasimhadhan, Evaluation of Feature Channels for Object Tracking in RGB and Thermal Imagery Using Correlation Filter, Accepted in NCC 2017.
 36. K. S. Babu and D. Vijayasenan, "Robust features for automatic estimation of physical parameters from speech," *TENCON 2017 - 2017 IEEE Region 10 Conference*, Penang, 2017, pp. 1515-1519. doi: 10.1109/TENCON.2017.8228097
 37. K. Sravani and R. Rao, "High throughput and high capacity asynchronous pipeline using hybrid logic," *2017 International Conference on Innovations in Electronics, Signal Processing and Communication (IESC)*, Shillong, 2017, pp. 11-15. doi: 10.1109/IESPC.2017.8071856
 38. Ragahvendra M A N S; Goutham Simha G D; U. Sripathi. " Non-Orthogonal Full Rank Space-Time Block Codes over Eisenstein-Jacobi Integers for MIMO Systems", International Conferences 4th International Conference on Electronics and Communication Systems (ICECS -17) Year: 2017.
 39. Goutham Simha G.D.; Shriharsha Koila; Ragahvendra M A N S, U.Sripathi. "Modified Signal Design for Multistream Spatial Modulation over Spatially Correlated Channels", International Conferences on Advances in Computing, Communications and Informatics (ICACCI). Year: 2017.
 40. Ragahvendra M A N S; Goutham Simha G D; U. Sripathi, "Abelian Codes over Eisenstein-Jacobi Integers for MIMO Systems", International Conferences on Advances in Computing, Communications and Informatics (ICACCI) Year: 2017.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

1. E. Prasanthi and K. N. Shubhanga, "Modelling of Protection of Converter Systems against Faults in a DFIG-based WECS", Proceedings of International Conference on Innovations in Power and Advanced Computing Technologies, IPACT-2017 held at VIT, University,

- Vellore,, INDIA, April 21st and 22nd 2017
2. Teena Johnson and Shubhanga K.N “Response-type Modelling of a Two-terminal HVDC link for Power System Stability Analysis” Proceedings of International Conference on Innovations in Power and Advanced Computing Technologies, IPACT-2017 held at VIT, University, Vellore,, INDIA, April 21st and 22nd 2017.
 3. Rashmi and Shubhanga K.N, “Dynamic Modelling of a Double-cage Induction Machine for Analysis with WECS” Proceedings of International Conference on Innovations in Power and Advanced Computing Technologies, IPACT-2017 held at VIT, University, Vellore,, INDIA, April 21st and 22nd 2017
 4. Gajanana Abhyankar B, Girisha Navada and Shubhanga K.N, “Design and Implementation of a Laboratory Scale Three-phase Thyristor Controlled Reactor” Proceedings of International Conference on Innovations in Power and Advanced Computing Technologies, IPACT-2017 held at VIT University, Vellore,, INDIA, April 21st and 22nd 2017.
 5. Santhosh V Singh and Shubhanga K.N., “Software in the loop based MPPT Enabled Real-time Solar Photovoltaic Simulator in FPGA Platform for Academic Appreciation” IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems 2017, (IEEE SPICES 2017)
 6. Rashmi and Shubhanga K.N, “Rotor speed-instability Performance of Type-1 WECS employing Double-cage Induction Generator” IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems 2017, (IEEE SPICES 2017)
 7. Gajanana Abhyankar B, Girisha Navada and Shubhanga K.N “Analysis of a Laboratory Scale Three-phase FC-TCR -based Static VAR Compensator” IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems 2017, (IEEE SPICES 2017)
 8. Girisha Navada, Santhosh V Singh and Shubhanga K.N “Modelling of a Solar Photovoltaic Power Plant for Power System Studies” IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems 2017, (IEEE SPICES 2017).
 9. E. Prasanthi and K. N. Shubhanga “Small-signal Stability Analysis of a Grid Connected Type-3 Wind Energy Conversion System” IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems 2017, (IEEE SPICES 2017).
 10. Krishna Rao and Shubhanga K.N “A Comparison of Power System Signal Detrending” Algorithms International Conference on Power Systems (ICPS 2017), held during 21th – 23rd December 2017 at College of Engineering, Pune, Maharashtra, India.
 11. T. Bhavani Shanker, H. N. Nagamani, Deepthi Antony, Gururaj S Puneekar “Case Studies on Transformer Fault Diagnosis using Dissolved Gas Analysis” IEEE PES APPEEC 2017 November 8-10, 2017 Bangalore, India. Papers to appear in IEEE-Xplore
 12. Deepthi Antony, Gururaj S. Puneekar, N. K. Kishore “Effects of error in time-delay on AEPD source localization using Newton’s method : Numerical experimentation” IEEE 3rd International conference on Condition Assessment Techniques in Electrical Systems CATCON 2017 Held at IIT Ropar, 16th to 18th Nov 2017, Papers to appear in IEEE-Xplore Paper ID 95 Page No 166 – 169.
 13. D Harimurugan, Gururaj S Puneekar, “A comparative study of field computation methods: Charge Simulation Method and Method of Moments “ IEEE conference EPSICON2018, held at Vidya Academy of Science & Technology,

- Trissur Kerala. Papers to appear in IEEE-Xplore
14. Akshata A Kotharkar, G.S. Puneekar, "Motor contribution to three phase fault currents in a power intensive industry with CPP: A case study" IEEE conference EPSICON2018, held at Vidya Academy of Science & Technology, Trissur Kerala. Papers to appear in IEEE-Xplore .
 15. Sudarshan V J, Gururaj. S. Puneekar, "Forces due to Short Circuit in a 400 kV outdoor Substation: A study" IEEE conference EPSICON2018, held at Vidya Academy of Science & Technology, Trissur Kerala. Papers to appear in IEEE-Xplore.
 16. A. Deepthi, A. Aiswarya and G.S. Puneekar "Acoustic Emission Partial Discharge Source Localization: Number of Sensors versus Accuracy" 7th INTERNATIONAL ENGINEERING SYMPOSIUM (IES2018) & 4th SPRING INTERNSHIP PROGRAM (SIP2018) Kumamoto University, Japan, March 6-13, 2018, Paper No. K2-2-1
 17. H. Nagendrappa, and A. K. S. Bhat, "A Fixed Frequency ZVS Integrated Boost Dual Three-Phase Bridge DC-DC LCL-type Series Resonant Converter for large Power Applications" IEEE International Conference on Smart grids, Power and Advanced Control Engineering, Bangalore, India, 2017, pp. 121-127.
 18. Dhaneesh Krishnan TV, Krishnan C M C, Panduranga Vittal K, "Design of Robust H-infinity Speed Controller for High Performance BLDC Servo Drive" Proc. Of IEEE International Conference on Smart Grids, Power and Advanced Control Engineering (ICSPACE 2017), 17-19 August 2017, Global Academy of Technology, Bangalore, India.
 19. M Mohan and K. Panduranga Vittal, "Modeling and Simulation Studies on Performance Evaluation of Three-Terminal VSC- HVDC Link Connected Offshore Wind Farms" Proc. Of IEEE International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS 2017)", 1-2 August, 2017, S.K.R. Engineering College, Ponnammallee, Tamilnadu, India.
 20. Somepalli Asha and K. P. Vittal,, "Insulation coordination studies and selection of Lightning Arrester for 765kV switchyard" Proc. Of IEEE International Conference on Intelligent Computing, Instrumentation and Control Technologies (ICICT-2017) ", 6th - 07th July, 2017, Vimal Jyothi Engineering College, Kannur, Kerala, India
 21. Snigdha Tale, M Mohan and K. P. Vittal, "Performance Analysis of Distance Relay in an AC Grid with VSC-HVDC Connection" Proc. Of IEEE International Conference on Intelligent Computing, Instrumentation and Control Technologies (ICICT-2017) ", 6th - 07th July, 2017, Vimal Jyothi Engineering College, Kannur, Kerala, India
 22. Vivekanandan S., Dr. Debashisha Jena. "Design, Modelling and Analysis of A New Dual Input-Output Switched Capacitor Converter" International Conference TENCON 2017, Malaysia 5th to 8th Nov.2017.
 23. Vijaya Bhaskar Reddy G., Nagendrappa H "Fixed frequency control of LCL-T Resonant Power Converter with Capacitive Output Filter" International conference held at CERA – 2017, IIT Roorkee 5-7th October, 2017.
 24. Pooja Krishna M.R, Ravi Teja Arumalla, Sheron Figarado and Krishnan CMC, "Harmonic and Switching Loss Analysis for Two-Level Space Vector Based Pulse Width Modulation Schemes " IECON

- 2017 – 43rd Annual Conference of the IEEE Industrial Electronics Society, Beijing, 2017, Accepted for presentation.
25. B. Rajanarayan Prusty, Dr. Debashisha Jena, "A Detailed formulation of sensitivity matrices for probabilistic load flow assessment considering Electro-thermal coupling effect" IEEE PES APPEEC 2017 held at Bangalore on 8th to 10th November, 2017.
 26. Reddiprasad Reddivari, Dr. Debashisha Jena "Differential Mode Gamma Source Inverter with reduced switching stresses", IEEE PES APPEEC 2017 held at Bangalore on 8th to 10th November, 2017.
 27. Ramu S., Vinatha U. "A hybrid controller design for Vsc-hvdc Transmission system for Pmsg based offshore Wind Farm" IEEE PES APPEEC 2017 held at Bangalore during 8th to 10th November, 2017
 28. Sandeep N., Udaykumar R.Y. "Simplified hybrid nine-level stack multi-cell converter with reduced part counter for grid connected applications" IEEE PES APPEEC 2017 held at Bangalore during 8th to 10th November, 2017
 29. Shreeram V. K., D.N. Gaonkar, "Operation and Control of a microgrid in isolated mode with multiple distributed generation systems IEEE TAP Energy 2017 held at AMVV, Kollam, Kerala from 21st to 23rd Dec., 2017.
 30. R.T.SenthilKumar "Optimization of Soil Parameters in Multiple Layers of ground structure" IEEE PES APPEEC 2017 held at Bangalore from 8th to 10th Nov. 2017.
 31. Dr. Parthiban P.; Deepak Ronanki, "Design Methodology and Sensorless Control of Electric Propulsion System using DTC-SVM" IEEE TENCON held at Penang, Malaysia 5th to 8th November, 2017.
 32. Karthikeyan A., Abhilash Krishna D.G, "Design and Analysis of multiloop feedforward control schemes for DVR Under Distorted GRID conditions", IEEE INDICON 2017 held at IIT Roorkee 15th to 17th December, 2017
 33. Karthikeyan A., Prabhakaran K .K "Stator flux based MRAS speed and stator resistance estimator for sensorless PMSM Drive IEEE INDICON 2017 held at IIT Roorkee 15th to 17th December, 2017.
 34. R. Kalpana., Kiran R. "Renewable energy sources Fed Dual Input Full-bridge DC-DC Converter for Battery Charging Applications" IEEE ITEC India 2017 held at Pune 13th to 15th December, 2017.
 35. R. Kalpana, Kiran R. " Design and Development of Current Source fed Full-bridge DC-DC Converter for (60V/50A) Telecom Power Supply " IEEE TAP Energy 2017 held at Amrita University, Kollam, Kerala 21st to 23rd December, 2017
 36. Saravana Prakash P. R. Kalpana, Bhim Singh, G. Bhuvaneswari "Power Quality Improvement in front end hybrid AC-DC converter based on current injection technique" IEEE ITEC India 2017 held at Pune 13th to 15th December, 2017
 37. Saravana Prakash P. R. Kalpana, Bhim Singh "Design and Analysis of Solar photo voltaic array fed modular full bridge DC to DC converter for 12 KW SMPC" IEEE TAP Energy 2017 held at Amrita University, Kollam, Kerala 21st to 23rd December, 2017 ,
 38. Saravana Prakash P. R. Kalpana, Bhim Singh "Solar photovoltaic array fed push pull buck DC to DC converter for telecom load" IEEE INDICON 2017 held at IIT Roorkee 15th to 17th December, 2017
 39. Remya V.K., P. Parthiban, Avinash Nandakumar "Phase advanced compensation of voltage sags using full bridge inverter based DVR" IEEE TAP Energy 2017 held at Amrita

- University, Kollam, Kerala 21st to 23rd December, 2017
40. J. Saikrishna Goud. R, Kalpana "Optimal Sizing of Hybrid Power Supply system for telecommunication BTS Load to ensure reliable Power at Lower Cost" IEEE TAP Energy 2017 held at Amrita University, Kollam, Kerala 21st to 23rd December, 2017
 41. Jayasankar V.N. Nisha B. Kumar, Vinathu U "Grid Connected hybrid Wind-Solar System with Shunt Active Filter Functionality" 2nd International Conference on Systems, Energy and Environment ICSEE 2017 held at Govt. College of Engineering, Kannur during 15th to 16th December, 2017.
 42. Pavana, Vinathu U. "One Cycle Control Based SEPIC PFC for PAM-BLDC drive" 2nd International Conference on Systems, Energy and Environment ICSEE 2017 held at Govt. College of Engineering, Kannur during 15th to 16th December, 2017
 43. Jayasankar V.N. Nisha B. Kumar, Vinathu U. "Enhancement of load voltage compensation using positive sinusoidal sequence regulator in Fuzzy Logic Controlled three phase series active filter" IEEE TAP Energy 2017 held at Amrita University, Kollam, Kerala 21st to 23rd December, 2017.
 44. J. Venkataramanaiah, Y. Suresh "Performance Verification a New Cascaded Transformer Based Multilevel Inverter using Modified Carrier SPWM Strategy" ,ICETEST International Conference on Power, Instrumentation, Control (PICC – 2018) held at GEC, Thrichur, on 18th to 20th Jan.2018.
 45. Uday Patil, Nagendrappa H., "Analysis and Design of High Frequency isolated Full Bridge CLL resonant DC-DC Converter for Renewable Energy Applications" ICETEST International Conference on Power, Instrumentation, Control (PICC – 2018) held at GEC, Thrichur, on 18th to 20th Jan.2018.
 46. Ramu S. and Vinatha U., "Combined Approach based on ACO with MTSP for Optimal Internal Electrical System Design of Large Off-shore Wind Farm" ICETEST International Conference on Power, Instrumentation, Control (PICC – 2018) held at GEC, Thrichur, on 18th to 20th Jan.2018.
 47. Aswathi R., Asif Abdullah, Krishnan C.M.C "A Novel Strategy for Daily Electric Load Prediction by Combining an Average Trend Mode with Supervisory Learning" 2018 Biennial International Conference on Power and Energy Systems: Towards Sustainable Energy (PESTSE) held at Amrita School of Engineering, Bangalore during 18th to 20th Jan.2018.
 48. Arjun M., P. Subrahmya Adiga, Anusha R. and B. V. Perumal "Experimental Investigation of the Effectiveness of the LC filter in PV fed induction Motor water pumping systems with different type of Inductors" International Conference on Emerging trends in Engineering, Science and Technology – PICC 2018 held at Govt. Engineering College, Thrissur, on 18th to 20th Jan.2018.
 49. Roopa Viswadev, Vanjari Venkata Ramana, Sukumar Mishra and B. V. Perumal " Real and reactive power control of solar grid-tie inverter under distorted grid conditions" International Conference on Emerging trends in Engineering, Science and Technology – PICC 2018 held at Govt. Engineering College, Thrissur, on 18th to 20th Jan.2018.
 50. Tukaram Moger, Teena Johnson and Thukaram Dhadbanjan "Significance of Reactive Power Loss and Its Application to System Voltage Stability" International Conference ENGINEER INFINITE-e-

Technxt-2018 Greater Noida, NCR, India held on 13th & 14th March, 2018.

51. Ramu Srikakulapu and Vinatha U. "Combined approach of Firefly algorithm with travelling salesmen problem for optimal design of offshore wind farm" International Conference IEEE PES General Meeting 2017, held in Chicago, USA during 16th to 20th July, 2017
52. Vanjari Venkata Ramana, Arjun Mudlapur, Roopa Viswadev Damodaran, B Venkatesaperumal, Sukumar Mishra "Efficient Global Peak Tracking of PV System Under Mismatching Conditions Using Searching Technique and Bisection Method" International Conference IEEE Engineer Infinite 2018, held in Noida, India during 13th to 14th March, 2018
53. Santhosh K G Manikonda, D N Gaonkar, "Influence of Various Load Types on Voltage at PCC and Islanding Detection in a Microgrid" IEEE International Conference on Innovative Technologies in Engineering 2018 (ICITE OU), Osmania University, Hyderabad, Telangana, India, 11-13 April 2018
54. Shreeram V Kulkarni, and Dattatraya N Gaonkar "Performance study of microgrid with multiple distributed generation systems" IEEE Workshop on Electronics Power Transmission And Distribution (eT&D-2017), 7-9th November 2017, Aalborg, Denmark.
55. Omkar Powar, Krishnan Chemmangat "Feature Selection for Myoelectric Pattern Recognition Using Two Channel Surface Electromyography Signals" IEEE Region 10 Conference (TENCON 2017), 1022-1026, 2017, Penang Malaysia.
56. A. Karthikeyan, K K Prabhakaran, B Venkatesa Perumal and C. Nagamani, "Pseudo derivative feedback current controlled

sensorless PMSM drive with flux-torque based mras estimator for low speed operation" IEEE International Symposium on Sensorless Control for Electrical Drives (SLED -2017), 18-19 Sept. 2017

DEPARTMENT OF INFORMATION TECHNOLOGY

1. Neeraj Kumar Sharma, Priyanka Sharma and G Ram Mohana Reddy, "Energy Efficient Quality of Service Aware Virtual Machine Migration in Cloud Computing", 4th IEEE International Conference on Recent Advances in Information Technology (RAIT 2018), March 15-17, 2018, IIT(ISM) Dhanbad, India.
2. Aparna Sarswat and Ram Mohana Reddy Guddeti, "A Novel Overlapping Community Detection Using Parallel CFM and Sequential Nash Equilibrium", IEEE 10th International Conference on COMMUNICATION SYSTEMS & NETWORKS (COMSNETS 2018), January 3-7, 2018, Bangalore, India.
3. Aditya Kumar, Vedant Patel, Vivek Kumar Sah and Ram Mohana Reddy Guddeti, "Prediction of Violence in Civil Unrest Areas of Jammu and Kashmir", 5th International Conf. on Business Analytics and Intelligence (BAICONF 2017), December 11-13, 2017, Indian Institute of Management Bangalore (IIMB), Bangalore, Karnataka, India.
4. Vivek Dani, Aparna Sarswat, Vishnu Swaroop, Shridhar Domanal and G. Ram Mohana Reddy, "Fast Convergence to Near Optimal Solution for Job Shop Scheduling using Cat Swarm Optimization", Springer, 7th Int. Conference on Pattern Recognition and Machine Intelligence (PREMI'17), Dec. 5-8, 2017, ISI Kolkata, India. Pushpalatha K and Ananthanarayana V. S.
5. Abraham Gerard Sebastian, Shreya Singh, Manikanta P, Ashwin T S and G Ram Mohana Reddy, "Multimodal Group Activity State Detection for Classroom Response System using

- Convolutional Neural Networks", Springer 5th Int. Conference on Advanced Computing, Networking, and Informatics (ICACNI-2017), June 1-3, 2017, NIT Goa, India.
6. Abhishek Tripathi, D. G. Manasa, Rakshitha K, Ashwin T S and G Ram Mohan Reddy, "Role of Intensity of Emotions for Affective Personalized Video Recommendation: A Reinforcement Learning Approach", Springer 5th International Conference on Advanced Computing, Networking, and Informatics (ICACNI-2017), June 1-3, 2017, NIT Goa, India.
 7. Syed Mohammed Yousuff H., Chaudary Sugandh Kumar, Meghana NP, Ashwin TS and Ram Mohana Reddy Guddeti, "Zigbee Based Wearable Device for Elderly Health Monitoring With Fall Detection", Springer 5th International Conference on Advanced Computing, Networking, and Informatics (ICACNI-2017), June 1-3, 2017, NIT Goa, India.
 8. Rohit Sharma, Ashwin T S and Ram Mohana Reddy Guddeti, "A Novel Real-Time Face Detection System Using Modified Affine-Transformation and Haar Cascades", Springer 5th International Conference on Advanced Computing, Networking, and Informatics (ICACNI-2017), June 1-3, 2017, NIT Goa, India.
 9. Aparna Sarswat and G. Ram Mohana Reddy, "A Novel Hybrid Algorithm for Overlapping Community Detection in Social Network Using Community Forest Model and Nash Equilibrium", Springer 5th International Conference on Advanced Computing, Networking, and Informatics (ICACNI-2017), June 1-3, 2017, NIT Goa, India.
 10. Karthik N and Ananthanarayana V.S. "Sensor Data Modeling for Data Trustworthiness" The 16th IEEE International Conference On Trust, Security And Privacy In Computing And Communications (IEEE Trust Com-17) Sydney, Australia, August 1 - 4, 2017
 11. "A New Multimedia Documents Clustering Approach based on Feature Patterns Similarity" 19th IEEE International Symposium on Multimedia (ISM 2017), December 11 - 13, 2017.
 12. Karthik N and Ananthanarayana V.S. "An Ontology based Trust Framework for Sensor-Driven Pervasive Environment " Eleventh Asia International conference on Mathematical Modeling and Computer Simulation, Sabah, Malaysia during December 4-6, 2017.
 13. Karthik K and Sowmya Kamath S" A Bag of Visual Words Model for Medical Image Retrieval" 7th Intl Engineering Symposium, Kumamoto University, Mar 7-9, 2018
 14. Pooja M Soundalgekar, Mukta Kulkarni, Divija Nagaraju and Sowmya Kamath S "Medical Image Retrieval Using Manifold Ranking with Relevance Feedback" International Workshop on Semantic Multimedia Computing co-located with the 12th IEEE Int. 2Conference on Semantic Computing (ICSC 2018), Laguna Hills, California, USA
 15. Vaishakh K, Pravalika A, Sowmya Kamath S and Geetha V "Constructing an Enriched Domain Taxonomy for Hindi using Word Embeddings" 21st Int. Conference on Asian Language Processing (IALP 2017), 5-7 December 2017, Singapore.
 16. Amol Bhopale and Sowmya Kamath S "Temporal Topic Modeling of Scholarly Publications for Future Trend Forecasting" 5th International Conference on Big Data Analytics (BDA 2017), 12-15 December, 2017, Hyderabad, India.
 17. Shravan Karthik, Rishab Doshi and Sowmya Kamath S, "SemAcSearch: A Semantically Modeled Academic Search Engine" International Conference on Information and Communication Technology (CICT), ABV-IIITM Gwalior, November 3-5, 2017
 18. Amol Bhopale and Sowmya Kamath S "Augmenting Document Clustering with Unsupervised Hybrid Feature Selection Models", 6th International

- Conference on Advances in Computing, Communications and Informatics (ICACCI 2017), 13-16 September 2017, Manipal, India.
19. Pravalika Avaru, Oza Vishvesh, Meghana N P, Sowmya Kamath S "Domain-specific Sentiment Analysis for Code-mixed Indian Social Data", 8th International Conference on Computing, Communication and Networking Technologies (8th ICCCNT 2017), IIT Delhi, India, July 3-5 2017.
 20. Gokul S Krishnan and Sowmya Kamath S "An approach for Dynamic, Temporal User Profiling for Personalized Recommenders using Heterogeneous Data Sources" 8th International Conference on Computing, Communication and Networking Technologies (8th ICCCNT 2017), IIT Delhi, India, July 3-5 2017.
 21. Avijit Shah, Valerio Basile, Elena Cabrio and Sowmya Kamath S "Frame Instance Extraction and Clustering for Default Knowledge Building" International Workshop on Application of Semantic Web technologies in Robotics (AnSWeR 2017), co-located with the 14th Extended Semantic Web Conference (ESWC), Slovenia, 28 May - 1st June 2017.
 22. Vaishak K, Mounica Sanapala, Akshay C D, Sowmya Kamath S, "A Morphological Approach for Measuring Semantic Similarity Between Sanskrit Sentences" 22nd International Conference on Natural Language & Information Systems (NLDB 2017), Liège, Belgium, June 21st - 23rd, 2017.
 23. Kedia, Ashish, Ajith Pandel, Adarsh Mohata, and S. Sowmya Kamath, "An Intelligent Algorithm for Automatic Candidate Selection for Web Service Composition" In Progress in Intelligent Computing Techniques: Theory, Practice, and Applications, pp. 373-382. Springer, Singapore, 2018.
 24. Kotekar, Sunaina, and S. Sowmya Kamath "Enhancing Web Service Discovery Using Meta-heuristic CSO and PCA Based Clustering", Progress in Intelligent Computing Techniques: Theory, Practice, and Applications, pp. 393-403. Springer, Singapore, 2018.
 25. Shaha Mandar, and S. Sowmya Kamath "A Quality-Centric Scheme for Web Service Ranking Using Fuzzified QoS Parameters" Progress in Intelligent Computing Techniques: Theory, Practice, and Applications. Springer, Singapore, 2018. 383-392.
 26. Vaishakh K, Pravalika A, Sowmya S Kamath, Geetha V "Constructing an Enriched Domain Taxonomy for Hindi using Word Embeddings" 21st International Conference on Asian Language Processing (IALP 2017), 5-7 Dec 2017, Singapore (Scopus Indexed)
 27. Archana Bhat, Geetha V "Survey on Routing Protocols for Internet of Things" 7th International Symposium on Embedded Computing and System Design, 18-20th Dec 2017, NIT, Durgapur. (Scopus Indexed)
 28. Geetha V, Sravanthi M N, Nikhita Hegde and Shruthi Hegde "Hierarchical Routing Protocol for Underwater Acoustic Network" Seventh International Engineering Symposium – IES 2018, 7-9 March 2018, Kumamoto University, Japan
 29. Kusumakumari, V., Sherigar, D., Chandran, R., Patil, N. "Frequent pattern mining on stream data using Hadoop CanTree-GTree" Procedia Computer Science, 10.1016/j.procs.2017.09.134, pp. 266-273., 2017
 30. Akanksha Kumari, Ashish Kumar Singh and Nagamma Patil "Travel Recommendation System Using Geotagged Photos" Proceedings of the 7th International Conference on Computer and Communication Technology, 10.1145/3154979.3154995, pp 22-26, 2017

31. Sanjay Bankapur and Nagamma Patil "Position-Residue Specific Dynamic Gap Penalty Scoring Strategy for Multiple Sequence Alignment" 8th International Conference on Computational Systems-Biology and Bioinformatics (CSBio 2017), 10.1145/3156346.3156354, pp 42-45, 2017
32. Sanjay Bankapur and Nagamma Patil "Efficient and Effective Multiple Protein Sequence Alignment Model Using Dynamic Progressive Approach with Novel Look Back Ahead Scoring System" Pattern Recognition and Machine Intelligence. PReMI 2017, 10.1007/978-3-319-69900-4_50, pp 397-404, 2017.
33. Mukta Kulkarni, Yogitha AN and Nagamma Patil "Extreme Learning Machine for Salient Object Detection in Images" 22nd World Multiconference on Systemics, Cybernetics and Informatics (WMSCI 2018), 2018
34. Kiranpreet Kaur and Nagamma Patil "A Novel Technique of Feature Selection with ReliefF and CFS for Protein Sequence Classification" 5th International Conference on Advanced Computing, Networking, and Informatics (ICACNI - 2017), 2017
35. Aditya Sriram, Mounica Sanapala, Ronak Patel and Nagamma Patil "Classification of Protein Sequences by Means of an Ensemble Classifier with an Improved Feature Selection Strategy" 5th International Conference on Advanced Computing, Networking, and Informatics (ICACNI - 2017), 2017.

**DEPARTMENT OF
MATHEMATICAL &
COMPUTATIONAL SCIENCES**

1. Maximum Number of Holes in Square of Cycles, [International Conference on Discrete Mathematics and its Applications, Manonmaniam

Sundaranar University, Tamilnadu, January 18-20, 2018, International Journal of Mathematical Combinatorics, to appear], Srinivasa Rao Kola, Balakrishna Gudla and Niranjana P K.

2. The Radio Number for a Class of Cartesian Products of Complete Graphs and Cycles, [7th International Engineering Symposium - IES 2018, Kumamoto University, Japan, March 7-9, 2018, E1-1-1 to E1-1-5], Srinivasa Rao Kola and Niranjana P K

**DEPARTMENT OF
MECHANICAL ENGINEERING**

1. V Bhajantri, P Krishna, S Jambagi, A brief review on fly ash and its use in surface engineering, AIP Conf proceedings, 1943, 1, 2018
2. CFD Simulation of Flow in Lid Driven Cavity with different Obstacles of different shapes, International Conference on Applied Analysis, Mathematical Modeling and Computing Techniques (ICAAMMCT – 2018), 1, 2018
3. DA Perumal, AK Yadav, Lattice Boltzmann Simulation of Double-Sided Deep Cavities at low Reynolds number, International conference on Innovative Design, Analysis and Development Practices in Aerospace and Automotive Engineering, 1, 2018
4. I Rajan, B Kesana, DA Perumal, Lattice Boltzmann Computation of Creeping Fluid Flow in Roll-Coating Applications, International Conference on Design, Materials & Manufacture - IcDeM 2018, 1943, 1, 2018
5. Avdhoot Walunj, A. Sathyabhama, Bubble Dynamics in Pool Boiling on Rough Surface Under Exponential Heat Supply 3rd Thermal and Fluids

- Engineering Conference (TFEC), 2018,
6. Raghavendra S, Jayapal Reddy C, Sathyabhama A, Computational evaluation of aerodynamic performance of leading edge slots at low Reynolds numbers, 6th Asian symposium on computational heat transfer and fluid flow, ASCHT 2017, 2017
 7. Sreejith B K, Pratik B Maniya, Ravi N Patel, Sathyabhama A, Effect of different shapes of boundary layer trips on aerodynamic performance of E216 airfoil profile, 6th Asian symposium on computational heat transfer and fluid flow, ASCHT 2017, 2017
 8. V C Nikhil, VRajashekar, Desai Rangaraj, JSharnappa, Kumar Hemantha, Experimental Analysis of Power Regeneration from a Magnetic Damper. International Conference on Vibration Problem, 2017
 9. Suhas S Aralikatti, Hemantha Kumar, Vardhaman Ajay B.s, Muniyappa, Amarnath. Experimental investigations to enhance the tribological performance of spur gears using titanium nitride coating. 10th International Conference on Precision, Meso, Micro and Nano Engineering (COPEN-10), 2017
 10. Gurubasavaraju T.M, Hemantha Kumar and Arun M "A study of influence of material properties on magnetic flux density induced in magnetorheological damper through finite element analysis", International Conference on Research in Mechanical Engineering Sciences, 2017
 11. Gurubasavaraju T.M, Hemantha Kumar and Arun M "Effect of rheological properties of MR fluid on dynamic performance of semi-active suspension with MR damper". International Conference on Vibration Problem. 2017
 12. J Vipin Allien, Hemantha Kumar, Vijay Desai. Semi-Active Vibration Control of Partially Treated Magnetorheological Fluid Sandwich Composite Beams. 13th International Conference on Vibration Problems, 2017
 13. M.H. Sumukha, R. Sandeep, N. Vivek, K.P. Lijesh, Hemantha Kumar, Design and Development of Magneto-Rheological Brake for Optimum Casing Thickness. International Conference on Innovative Mechanisms for Industry Applications (ICIMIA 2017),
 14. Ravikumar K.N., Madhusudhana C.K., Hemantha Kumar and K.V. Gangadharan., "Ball Bearing Fault Diagnosis Based on Vibration Signals of Two Stroke IC engine using Continuous Wavelet Transform", 13th International Conference on Vibration Problems (ICOVP), 2017
 15. N. Srinivasa, Hemanth K, Hemantha Kumar and Arun M. Vibration Analysis of Sandwich Beam Filled with Magnetorheological Fluid The 1st International and 18th ISME Conference ISME 18 2017
 16. Madhusudana C. K., Hemantha Kumar and Narendranath S. Fault Diagnosis of Face Milling Tool using Decision Tree and Sound Signal International Conference on Materials Manufacturing and Modelling (ICMMM - 2017), 2017
 17. Anil Kumar K.S, S. M. Murigendrappa, Hemantha Kumar. Effect of Tool Rotation Speed on Microstructure and Tensile Properties of FSW Joints of 2024-T351 and 7075-T651 Reinforced With SiC Nano Particle: The Role of FSW Single Pass. International conference on Design, Materials and Manufacture (ICDEM 2018), 2018
 18. M C Kiran, S Kattimani Investigation of free

- vibration characteristics for skew multiphase magneto-electro-elastic plate International conference on Design, Materials and Manufacture (ICDEM 2018), 2018
19. H. C. Chetan, Subhaschandra Kattimani, S. M. Murigendrappa Finite element modelling for mode-I fracture behaviour of CFRP
 20. International conference on Design, Materials and Manufacture (ICDEM 2018), 2018
 21. M. Nagamadhur, GCM Kumar P. Jeyaraj Effect of stacking sequence on mechanical properties neem wood veneer plastic composites International conference on Design, Materials and Manufacture (ICDEM 2018), 2018
 22. V. Bhagat, N. George, P. Jeyaraj S. M. Murigendrappa Buckling and free vibration behavior of cylindrical panel under thermal load: Influence of graphene grading International conference on Design, Materials and Manufacture (ICDEM 2018), 2018.
 23. S. Waddar, J. Pitchaimani, M. Rityunjay Doddamani Experimental investigation on stability and dynamic behaviour of laminated composite beam International conference on Design, Materials and Manufacture (ICDEM 2018), 2018
 24. M. Nagamadhur, P. Jeyaraj, G. C. Mohan Kumar A novel approach to determine the thermal transition of gum powder/hydrogels using dynamic mechanical analysis International conference on Design, Materials and Manufacture (ICDEM 2018), 2018
 25. K. P. Shenoy, A. K. Singh, K. S. A. Raman, K. V. Gangadharan Experimental investigation of torsional vibration isolation using Magneto Rheological Elastomer MATEC Web of Conferences 2018
 26. D. Shetty, P. Umesh, K. V. Gangadharan Platform for Mechatronics Education Using: (1) Mechatronics Technology Demonstrator, and (2) Web Based Virtual Experimentation ASME 2017 International Mechanical Engineering Congress and Exposition 2017
 27. Jeyachandran, P., Patil, B. R., Doddamani, M. R., Bontha, S., and Balla, V. K., Development of Thermoplastic Feedstock Filament for 3D Printing 10th International Conference on Precision, Meso, Micro and Nano Engineering (COPEN 10) 2017
 28. R. Maniyeri Numerical Simulation of Viscous Flow Past Elliptic Cylinder 3rd International Conference on Innovative Design, Analysis and Development Practises in Aeronautical and Automobile Engineering-IDAD 2018 2018
 29. M. Kanchan, R. Maniyeri Flow Analysis for Efficient Design of Wavy Structured Microchannel Mixing Devices International Conference on Design, Materials & Manufacture-IcDeM 2018 2018
 30. M. Kanchan, R. Maniyeri Computational Study of Fluid Flow in Wavy Channels Using Immersed Boundary Method 7th International Conference Soft Computing for Problem Solving (SocProS 2017) 2017
 31. R. Maniyeri, S. Kang Numerical Study on the Dynamics of Organism Motion Under Background Flow 6th International Conference on Bioinformatics and Biomedical Science (ICBBS 2017)
 32. Swapnil Shinde, Sharnappa Joladarashi, Prabhakar N, Suresh Gayakwada Analytical Investigation of Performance of Air Suspension System for Commercial Vehicles 3rd

- International Conference on Innovative Design, Analysis & Development Practices in Aerospace and Automotive Engineering I-DAD, 22-24 Feb, 2018. Dr. Sagunthala R & D Institute of Science and Technology Avadi, Chennai 2018
33. Bharath. J., Sharnappa Joladarashi, Srikumar Biradar, P. Naveen Kumar Frequency and Deflection analysis of Cenosphere/Glass fiber interply hybrid composite Cantilever beam International Conference on Design, Materials & Manufacture-IcDeM 2018, NITK Surathkal-575 025 Karnataka INDIA. 2018
 34. Nithin Srinath. Ashwin Kumar G V. Sharnappa Joladarashi, Smart multi-mode transmission for automobiles. International Design Engineering Technical Conferences and Computers and Information in Engineering Conference IDETC-2017, AUG 6-9, Cleveland, Ohio, USA 2017
 35. Vinay. M. Sharnappa Joladarashi Effect of stress concentration factor on threaded hole under different loading conditions using transfer functions International Conference on Applied science and Engineering Technology. ICASET 10-12 July 2017. MIT Manipal. Karnataka. 2017
 36. Srikumar Biradar. Sharnappa Joladarashi, S. M. Kulakarni Analytical and FE analysis of AL 6061 T6 and laminated composite LPG cylinder International Conference on manufacturing and science. ICMAT-2017. IIT Madras. 7 July 2017
 37. P. Naveen Kumar. Sharnappa Joladarashi Frequency and damping characteristics of cenosphere reinforced particulate composite cantilever beam International Conference on Advances in Mechanical Engineering Sciences. ICAMES-2017. 21-22 April 2017. PES college of Engg. Mandya. Karnataka. 2017
 38. Permi Jagadish. Sharnappa Joladarashi, Ravikiran Kadoli Bending and free vibration studies on layered Al-Al₂O₃ functionally graded beam prepared using powder metallurgy process International conference on advances in mechanical engineering science". ICAMES-2017 21-22 April 2017. PES college of Engg. Mandya. Karnataka 2017
 39. Vishvas Mahesh. Sharnappa Joladarashi, S. M. Kulakarni Modelling and analysis of material behaviour under normal and oblique low velocity impact International conference on emerging trends in materials and manufacturing engineering. -2017 10-12 March. NIT-Trichy India 2017
 40. Timothy Harold Gonsalves, G. C. Mohan Kumar, and M. R. Ramesh Parametric study of laminated composite material shaft of high speed rotor-bearing system AIP Conference Proceedings 1943 2018
 41. Pradeep V. Badiger, Vijay Desai, and M. R. Ramesh Performance of Ti-multilayer coated tool during machining of MDN431 alloyed steel AIP Conference Proceedings 1943 2018
 42. S. Prakrathi, Mallikarjun Matin, P. Kiran, Bhaskar Manne, and M. R. Ramesh Crystallisation kinetics study in stabilisation treatment of sol-gel derived 45S5 bioglass AIP Conference Proceedings 1943 2018
 43. C. Durga Prasad, Sharnappa Joladarashi, M. R. Ramesh, and Anunoy Sarkar High temperature gradient cobalt based clad developed using microwave hybrid heating AIP Conference Proceedings 1943 2018

44. Veeresh Nayak C , M R Ramesh, Vijay Desai, Sudip Kumar Samanta Examination for high temperature wear and oxidation proprieties of nickel based metal matrix composite fabricated by metal injection moulding International Conference On Composite Materials And Structures . IIT-HYDERABAD, 27-29th December 2017
45. Gajanan Anne, M R Ramesh, H S Shivananda Nayaka, Shashi Bhushan Arya and Sandeep Sahu Development of Mg-ZN / Al – 1100 Multi- Layered composite by accumulative roll bonding process Advances in materials and processing : Challenges and opportunities (AMPCO 2017), Organized by Department of Metallurgical and Materials Engineering, IIT Roorkee. 20th Nov. – 2nd Dec. 2017
46. Nithin Hiriyalu Shivegowda, Vijay Desai and M R Ramesh Oxidation and hot corrosion behavior of plasma sprayed MCrAlY coating reinforced with chrome carbide Advances in materials and processing: Challenges and opportunities (AMPCO 2017). Organized by Department of Metallurgical and Materials Engineering, IIT Roorkee. 20th Nov. – 2nd Dec. 2017
47. Veeresh Nayak Chinnathaypgal, M R Ramesh, Vijay Desai and Sudip Kumar Samanta Studies on wear characteristics of metal injection molded T15 Tool steel part at different temperatures Advances in materials and processing: Challenges and opportunities (AMPCO 2017). Organized by Department of Metallurgical and Materials Engineering, IIT Roorkee. 20th Nov. – 2nd Dec. 2017
48. Pradeep V Badiger, Vijay Desai and M R Ramesh Performance of DLC coated tool during machining of MDN 431 alloyed steel Advances in materials and processing: Challenges and opportunities (AMPCO 2017). Organized by Department of Metallurgical and Materials Engineering, IIT Roorkee. 20th Nov. – 2nd Dec. 2017
49. H.S. Nithin, Vijay Desai, Ramesh M R Cyclic Oxidation and Hot Corrosion Behaviour of Plasma Sprayed CoCrAlY/WC-Co Coating on Turbine Alloys International Conference on Metallurgical Coatings and Thin Films, San Diego, CA, USA, April 24-28, 2017
50. P V Badiger , V Desai, M R Ramesh, Sharnappa Joladarashi Fretting wear behavior of monolayer and multilayer Ti-Based coatings developed on alloy steel TACT 2017 International Thin Films Conference Oct. 15–18, 2017, National Dong Hwa University, Hualien, Taiwan 2017
51. Veeresh Nayak C, Ramesh M R, Vijay Desai, Sudip Kumar Samanta Evaluation of wear behaviour of metal injection moulded nickel base metal matrix composite The Porous and Powder Materials Symposium and Exhibitions, held at Kusadasi, Turkey on 12 -15th September 2017
52. Hargovind Soni, Narendranath S, Ramesh M R Evaluation of wire electro discharge machining characteristics of Ti50Ni45Co5 shape memory alloy International Conference on precision, meso, micro and nano engineering, Indian institute of Technology Madras, December 07-09, 2017.

DEPARTMENT OF MINING ENGINEERING

1. Dr. Sastry V.R ,” Tapping of Electrical Energy from Ground Vibrations caused due to Blasting – An Innovation”, Next Generation Technologies for Mining and Fuel Industries

- (NxGnMiFu-2017), CIMFR, New Delhi
2. Dr.Ch.S.N.Murthy and Dr.M.Govinda Raj," Performance of Load Haul Dumper in Underground Mines- An overview", International Conference on Deep Excavation, Energy Resources and Production, IIT, Kharagpur.
 3. Dr.Ch.S.N.Murthy and Dr.R.P. Choudhary,"Numerical Modeling of Rock Indentation", International Conference on Deep Excavation, Energy Resources and Production, IIT, Kharagpur.
 4. Dr.Ch.S.N.Murthy and Dr.B.M. Kunar," Effect of thermal response on physical properties during drilling operations-A review", International Conference on Deep Excavation, Energy Resources and Production, IIT, Kharagpur.
 5. Dr.Ram Chandar K, "Vegetation Growth in Waste Rock Produced from opencast Coal Mines with Different Additives", Proc. 6th Int. Engineering Symposium-IES 2017, Kumamoto University, Japan.
 6. Dr.Ram Chandar K,: Mechanical and Durability Properties of Concrete with Precious Slag Balls as Replacement for Fine Aggregates", Proc. 6th Int. Engineering Symposium-IES 2017, Kumamoto University, Japan.
 7. Dr.Ram Chandar K, "Analysis of Stresses Around a Tunnel Opening", Proc. 6th Int. Engineering Symposium-IES 2017, Kumamoto University, Japan.
 8. Abhishek Kumar Tripathi, Dr.M.Aruna and Dr.Ch.S.N.Murthy" Effect of Shading on PV Panel Technology", IEEE Approved ICECDS. SKR Engineering College.
 9. Abhishek Kumar Tripathi, Dr.M.Aruna and Dr.Ch.S.N.Murthy,"

- Performance Degradation of PV Module Due to Different Types of Dust Pollutants", IPN Conferences
10. Abhishek Kumar Tripathi, Dr. M. Aruna and Dr.Ch.S.N.Murthy," Performance degradation of solar photovoltaic panel due to dust shading", UAC International Conference,
 11. Abhishek Kumar Tripathi, Ch.S.N.Murthy and M.Aruna," Performance Analysis of PV Panel Under Varying Surface Temperature", International Conference on RIMES – 2017.
 12. Ravindra, Dr Aruna M and Dr.Harsha Vardhan," Performance Testing of Diesel Engine Using Cardanol-Kerosene Oil Blend", International Conference on RIMES –
 13. Ravindra M, Dr. M.Aruna and Dr. Harsha Vardhan," Usage of Bio Fuels for Mining Application : A Review". Proceedings of Sixth Annual Rock Conference – INDOROCK 2016, June 17-18, IIT, Bombay, India 2016, pp 1001-1009.

DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

1. T. S. Ajmal, **Shashi Bhushan Arya & K. Rajendra Udupa**, Flow Accelerated Corrosion of API X70 Pipeline Steel in Oilfield Water, 5th CORSYM, IIT Madras, Chennai, 23-24 March 2018.
2. M. Khalifa, S. Janakiraman, S. Ghosh, A. Venimadhav, **S. Anandhan**, Development of Halloysite nanotubes/Poly(vinylidene fluoride) Nanocomposite Nanofiber Separator for Lithium Ion Battery, Second International Conference on Advanced Polymeric Materials (ICAPM 2017), M. G. University, India, April 2017 (Invited paper).

3. B. Sachin Kumar, V. C. Gudla, R. Ambat, S. K. Kalapathy, **S. Anandhan**, Structural and Magnetic Properties of Polymorphic Nickel Titanate Nanofibers, 12th Pacific Rim Conference on Ceramic and Glass Technology, The American Ceramic Society, Hawaii, USA, May 2017.
4. M. Khalifa, S. Janakiraman, S. Ghosh, A. Venimadhav, **S. Anandhan**, New Gel Polymer Electrolyte from Electrospun PVDF/Halloysite Nanocomposite-based Non-woven Fabric for Lithium Ion Battery, International Conference on Nanotechnology: Ideas, Innovations and Initiatives (ICN:3I-2017), IIT Roorkee, Uttarakhand, India, December 2017.
5. M. Khalifa, A. Mahendran, **S. Anandhan**, Durable, Efficient and Flexible Piezoelectric Nanogenerator from Electrospun PANi/HNT/PVDF Nanocomposite, International Conference on 'Advancements in Polymeric Materials APM-2018', CIPET-Bhubaneswar, India, February 2018.
6. Gorti Vasu Kiran, Golla Sairam, B. Bhavani Shankar, Kantubhukta Jyothi, Kokkiligadda Jhansi, Ramesh S. Rao, and **A. O. Surendranathan**, Fabrication and Characterization of Graphene Reinforced Tungsten Carbide – Cobalt Composite, Nanotech France 2017 Paris, 28-30, June, 2017.
7. M.S. Nandana, **K. Udaya Bhat**, and C.M. Manjunatha, Retrogression and Re-ageing Treatment of AA7010 to Improve the Corrosion Resistance, ICONEST -17, IISC Bangalore, PP-Cor 13 Aug 10-12, 201.
8. M.S. Nandana, **K. Udaya Bhat**, and C.M. Manjunatha, Influence of Retrogression and Re-ageing Heat Treatment on Microstructure and Microchemistry of AA7010 Alloy, IIM, NMD- ATM-17, BITS Goa Nov 2017.
9. M.S. Nandana, **K. Udaya Bhat**, and C.M. Manjunatha, Effect of retrogression and re-ageing heat treatment on microstructure and microhardness of aluminium 7010 alloy, RiMES 2017, MIT Manipal, Dec-2017, 144,02003, 1-6, Jan -2018.
10. M.S. Nandana, **K. Udaya Bhat**, and C.M. Manjunatha, Effect of retrogression duration on the grain boundary microstructure and microchemistry of AA7010, Advances in Mechanical Design, Materials and Manufacture, NITK Surathkal, Jan 2018, 1943, 020085.
11. Prabukumar, C., Sadiq, M. M. J., Bhat, D. K., & **K. Udaya Bhat**, Effect of solvent on the morphology of MoS₂ nanosheets prepared by ultrasonication-assisted exfoliation, Advances in Mechanical Design, Materials and Manufacture, NITK Surathkal, Jan 2018, 1943, 020084.
12. Z. Abbas, M. Surendran, PA Anjana, PK Jidev, H Dasari, NS Naidu, Anandhan S., **K. Udaya Bhat**, Uday Bhaskar Babu G., Hari Prasad Dasari, Solubility Limits of Ceria-Zirconia-Lanthana Solid-Solutions, Materials Today: Proceedings 4 (9), 9360-936, 2017.
13. Manjunath, G. K., Kumar, G. P., & **K. Udaya Bhat**, Effect of equal channel angular pressing on the microstructure and mechanical properties of Al-10Zn-2Mg alloy, Advances in Mechanical Design, Materials and Manufacture, NITK Surathkal, Jan 2018, 1943, 020067.
14. Jayalakshmi, M., Bhat, B. R., & **K. Udaya Bhat**, Enhanced cell adhesion on severe peened-plasma nitrided 316L stainless steel, Advances in Mechanical Design, Materials and Manufacture, NITK Surathkal, Jan 2018, 1943, 020086.
15. Bairy, R., Jayarama, A., Shivakumar, G. K., Patil, P. S., &

- K. Udaya Bhat**, Zn doped CdO thin films with enhanced linear and third order nonlinear optical properties for optoelectronic applications, *Advances in Mechanical Design, Materials and Manufacture*, NITK Surathkal, Jan 2018, 1943, 020070.
16. Sangamesh, **K. S. Ravishankar**, S. M. Kulkarni, Synthesis and comparison of mechanical behavior of fly ash-epoxy and silica fumes-epoxy composite, *IOP Conf. Ser.: Mater. Sci. Eng.* 225 012299. doi:10.1088/1757-899X/225/1/012299. IOP Publishing, 2017.
 17. Palaksha P.A. & **Ravishankar K. S.**, Influence of Austempering Heat Treatment on Microstructure and Mechanical Properties of Medium Carbon High Silicon Steel, *IOP Conference Series: Materials Science & Engineering* (Vol. 225, No. 1, p. 012006). IOP Publishing, 2017.
 18. Palaksha, P.A., Syamkrishna, P., & **Ravishankar, K. S.**, Effect of Austempering Heat Treatment Parameters on the Microstructure and Dry Sliding Wear Behaviour of AISI 9255 High Silicon Steel, *Materials Today: Proceedings*, 4(10), 10757-10763. Elsevier publishing.
 19. Sangamesh, **K. S. Ravishankar**, S. M. Kulkarni, Synthesis and comparison of mechanical behavior of fly ash-epoxy and silica fumes-epoxy composite, *International Conference on Materials, Alloys and Experimental Mechanics [ICMAEM- 2017]* Narsimha Reddy engineering college, Maisammaguda (V), Kompally, Secunderabad, Telangana, India.
 20. Palaksha P.A. & **K. S. Ravishankar**, Influence of Austempering Heat Treatment on Microstructure and Mechanical Properties of Medium Carbon High Silicon Steel, *International Conference on Materials, Alloys and Experimental Mechanics [ICMAEM- 2017]* Narsimha Reddy engineering college, Maisammaguda (V), Kompally, Secunderabad, Telangana, India.
 21. Sangamesh, **K. S. Ravishankar**, S. M. Kulkarni, Numerical study on energy absorption capability of Glass-Epoxy and Jute-Epoxy-Rubber Composites, *NMD ATM- 2017*, BITS Pilani Goa. November 11-14, 2017.
 22. Sangamesh Rajole, Naveen Kumar, K. S. Ravishankar, and S. M. Kulkarni, *Mechanical Characterization and Finite Element Analysis of Jute-Epoxy Composite* International Conference on Research in Mechanical Engineering Sciences [RiMES-2017], Manipal Institute of Technology, Manipal, Karnataka, India December 21- 23, 2017.
 23. Palaksha Acharya, Ajit Kumar & **K. S. Ravishankar**, Microstructure and Wear Behavior of Austempered High Carbon High Silicon Steel, *International Conference on Research in Mechanical Engineering Sciences [RiMES- 2017]*, Manipal Institute of Technology, Manipal, Karnataka, India, December 21-23, 2017.
 24. Sangamesh Rajole, Ravishankar K.S., S M Kulkarni, Study on Ballistic Energy Absorption Capability of Glass-Epoxy and Jute-Epoxy-Rubber Sandwich Composites, 2018 3rd International Conference on Composite Materials and Material Engineering [ICCMME2018], National University of Singapore, January 26-28, 2018.
 25. Pavankumar R Sondar, **Dr. Subray R. Hegde**, Cryogenic Treatment of Low Alloy Steels Before and After Tempering, IIM NMD ATM 2017, BITS PILANI GOA, NOV 11-14, 2017.
 26. Basavaraj N, Dr. Subray R. Hegde, Introducing Spheroidal Cementite-Graphite Iron, IIM

- NMD ATM 2017, BITS PILANI
GOA, NOV 11- 14, 2017.
27. Gurudath B, Dr. Srikanth
Bontha, Dr. Subray R Hegde,
Stress Analysis of Rail Steel, IIM
NMD ATM 2017, BITS PILANI
GOA, NOV 11-14, 2017.
 28. Jagadish Banappanavar, Preetish
C. Dsilva, Sadhana M. Bhat,
Dr. Subray R. Hegde, Failure
analysis of Superheater Tubes in
a Chemical Plant, IIM NMD ATM
2017, BITS PILANI GOA, NOV 11-
14, 2017.
 29. Sunil Gejji, Preetish Dsilva,
Dr. Subray R. Hegde, Failure and
Stress Analysis of Boiler Feed
Water Pump Shaft, IIM NMD ATM
2017, BITS PILANI GOA, NOV 11-
14, 2017.
 30. Abhilash Agnihotri, Siddharth
Dhananjay, Anirudha C S,
Gurudath B, Preetish Dsilva,
Dr. Subray R. Hegde, Failure
Analysis of a Tongue Rail, IIM NMD
ATM 2017, BITS PILANI GOA, NOV
11-14, 2017
 31. Preetish Dsilva, **Dr. Subray R.
Hegde**, Failure Analysis of
Transverse Fissure of KRCL Rail,
IIM NMD ATM 2017, BITS PILANI
GOA, NOV 11-14, 2017.
 32. Preetish C. Dsilva, **Dr. Subray R.
Hegde**, Recrystallization behaviour
of Cold-Worked Inconel 601,
International Conference on
Advances in Materials & Processing
: Challenges & Opportunities
(AMPCO 2017), IIT Roorkee, 30 Nov
– 2 Dec, 2017.
 33. Preetish C. Dsilva, Dr. Subray
R. Hegde, Recrystallization studies
of Inconel 601 and Stainless steel
304 sheets, 7th National Conference
on Processing and Characterization
of Materials (NCPCM 2017), NIT
Rourkela, 8-9 December, 2017.
 34. Anjan B.N., **Preetham Kumar
G. V.**, Mechanical and
Microstructural Characterization
of ZA-27 Based Composites
Reinforced with Silicon Carbide,
International Symposium on
Lightweighting for Defence and
Transportation: Trends, New
Paradigms and Strategies Indian,
Nov. 2017.
 35. Manjunath G, Anusha P,
Ashritha Salian and **Saumen
Mandal**, Effect of O₂, N₂ and H₂ on
annealing of pad printed high
conductive Ag-Cu nano-alloys
electrodes, 4th International
Conference on Nanoscience and
Nanotechnology (ICONN 2017),
SRM University, Kattankulathur,
India. (Oral), 9-11th August, 2017.
 36. Robbi Vivek Vardhan, Sanjay Pujari,
Pavan Pujar, **Saumen Mandal**,
Effect of annealing atmospheres on
enhancement of conductivity of
indium zinc titanium oxide
transparent electrode developed
through low temperature solution
combustion technique, 81st Annual
session of Indian Ceramic Society
and International Conference on
Expanding Horizons of Technological
Applications of Ceramics and
Glasses (EH-TACAG'17), COE, Pune,
India, 14-16th December 2017.
 37. Komalakrishna H, Kaushal R
Shakya, Gavrav Kumar, Saumen
Mandal, Study of biomineralization
of porous hydroxyapatite scaffold
developed from cuttlefish bone, 81st
Annual session of Indian Ceramic
Society and International Conference
on Expanding Horizons of
Technological Applications of
Ceramics and Glasses (EH-
TACAG'17), COE, Pune, India, 14-
16th December 2017.
 38. Ashritha Salian, Shridhar S Shirol,
Satwik Pandit, Pavan Pujar and
Saumen Mandal, Highly conductive
spray printed copper oxide reinforced
silver matrix composite films,
International conference on
Engineering Materials, Metallurgy
and Manufacturing (ICEMMM2018),
SSN College of Engineering, Chennai,
India. (Oral), 15-16th February
2018.

39. Manjunath G, Robbi Vivek Vardhan, Ashritha Salian, Rashi Jagannatha, Mayank Kedia and **Saumen Mandal**, Development of Combustion Synthesized High Conductive Calcium Vanadium Oxide (CaVO_3) Thin Film Electrodes, International Conference on Nano Science and Nano Technology (ICONSAT-2018), Centre for Nano and Soft Matter Sciences, Bengaluru, 21-23rd March 2018.
40. Thakur Ashish, S B Arya, T. S. Ajmal, Study of Flow Accelerated Corrosion on AZ91D Magnesium Alloy Used in Engine Radiator, 5th CORSYM, IIT Madras, Chennai, 23-24 March.
41. T. Baskaran, S B Arya, Fabrication of Samarium Strontium Aluminate ($\text{Sm}_2\text{SrAl}_2\text{O}_7$) ceramic and deposition of thermal barrier coating by air plasma process, International Conference On Research in Mechanical Engineering Sciences (RiMES, 2017, Manipal University, Manipal, Karnataka, 21-23 Dec.
42. T. Baskaran, **S B Arya**, Evaluation of microstructural changes and thermally grown oxide growth of oxidized $\text{Sm}_2\text{SrAl}_2\text{O}_7$ ceramic thermal barrier coatings for gas turbine applications, 81st Annual session of Indian Ceramic Society and International conference on "Expanding Horizons of Technological Applications of Ceramics and Glasses" EH-TACAG'17, Pune, 14-16 Dec, 2017.
43. Shivaram M. J., **S B Arya**, J Nayak, Fabrication and Mechanical Properties of Porous Ti-20Nb-5Ag alloy for Biomedical Application, NMD-ATM-2017, Goa, November 2017.
44. T. Baskaran, **SB Arya**, Oxidation behavior of $\text{Sm}_2\text{SrAl}_2\text{O}_7$ ceramic thermal barrier coatings for gas turbine applications, NMD-ATM-2017, Goa, November 2017.
45. Shivaram M. J., **SB Arya**, J Nayak, Bharat B Panigrahi, Electrochemical Impedance Spectroscopy and In-vitro Corrosion Behaviour of Porous Ti-20Nb-5Ag Alloy in Simulated Body Fluids, The 6th Asian Biomaterials, Trivandrum, Kerala, October 2017.
46. Shivaram M. J., **S B Arya**, J Nayak, Bharat B Panigrahi, Influence of Ball Milling Time on Mechanical Properties of Newly Developed Porous Ti-20Nb-5Ag Alloy, 19th International Conference on Powder Metallurgy and Particulate Technology, Paris, France, September 2017.
47. Gajanan Anne, M R Ramesh H Shivananda Nayaka, **SB Arya**, Microstructure, mechanical and corrosion properties of accumulative roll bonded Mg-2%Zn/anodized Al-7075 composite, Int. Conf. on Emerging Trends in Materials and Manufacturing Engg, NIT Thiruchirapalli, 2017.
48. Komalakrishna H, Shine Jyoth T.G, Biswanath Kundu, **Saumen Mandal**, Low Temperature Development of Nano-Hydroxyapatite from *Austromegabalanus psittacus*, Star fish and Sea urchin, Materials Today: Proceedings 4 (2017) 11933–11938.
49. Palaksha Acharya, Ajit Kumar & **Ravishankar K. S.**, Microstructure and Wear Behavior of Austempered High Carbon High Silicon Steel, *MATEC Web of Conferences* (Vol. 144, p. 02013). EDP Sciences Publishing, 2018.
50. Sangamesh Rajole, Naveen Kumar, **K. S. Ravishankar**, and S. M. Kulkarni, Mechanical Characterization and Finite Element Analysis of Jute-Epoxy Composite, *MATEC Web of Conferences*, vol. 144, p. 02014., EDP Sciences Publishing, 2018.
51. Sangamesh, **Ravishankar, K. S.**, and S. M. Kulkarni, Ballistic Impact Study on Jute-Epoxy and Natural Rubber Sandwich Composites, Materials Today: Proceedings 5, no. 2: 6916-6923, Elsevier publishing, 2018.

52. Sangamesh, **Ravishankar, K. S.**, and S. M. Kulkarni, Impact Analysis of Natural Fiber and Synthetic Fiber Reinforced Polymer Composite, AIP Conference Proceedings 1953, 130003, AIP publishing, 2018.

DEPARTMENT OF PHYSICS

1. E. Veena*, Kasturi V. Bangera, G.K. Shivakumar "Influence of zinc precursor concentration on properties zinc sulphide thin films using spray pyrolysis technique", FCSPTC-2017, Andhra Pradesh, India, 7-8 April 2017, AIP Conference Proceedings, Vol. 1859, Issue 1, pp. 020115 (2017)
2. Amudha A, H.D Shashikala, H.S Nagaraja," Electrochemical corrosion behaviour of nickel chromium-chromium carbide coating by HVOF process" AIP Conference Proceedings, Volume 1943, Issue 1, id.020092, Doi no: 10.1063/1.5029668
3. S.P. Bharath*, Kasturi V. Bangera, G.K. Shivakumar, "Preparation of ZnO: Cd thin films for acetone sensor applications", ICTF 2017, New Delhi, India, 13-17 Nov. 2017, pp. 174.
4. P. P. Das, A. Jones, M. Cahay, Sterin N. S., S. Kalita, Yadunath T. R., Advaita M., S. T. Herbert, "The realization of an all-electric semiconductor Datta-Das spin field effect transistor", Proceeding of The XIX International Workshop on The Physics of Semiconductor Devices (IWPSD 2017), IIT Delhi, India, Dec 11-15, 2017
5. Sterin N. S., S. S. Mal, P. P. Das, "Resistive switching in Na₆V₁₀O₂₈ polyoxometalate thin film based two terminal device", International Conference On Recent Advances in Materials Science and Biophysics (RAMSB 2018), Mangalore University, India, Jan 23-25, 2018
6. S. Kumari, S. S. Mal, P. P. Das, "Graphene oxide-polyoxometalate composite materials for energy harvesting", International

Conference On Recent Advances in Materials Science and Biophysics (RAMSB 2018), Mangalore University, India, Jan 23-25, 2018.

7. KS Bhat, HS Nagaraja, "Two-dimensional nickel hydroxide nanosheets as high performance pseudo-capacitor electrodes", AIP Conference Proceedings 1943 (1), 020057 (2018)
8. Amudha A, H.D Shashikala, H.S Nagaraja,"Characterization of Hydrothermally Synthesized Alumina-Graphene Oxide Composite", International Conference on Nanotechnology: Ideas, Innovations and Initiatives-2017(ICN:3I-2017), 06-08 December 2017.
9. Amudha A, H.S Nagaraja, H.D Shashikala," Electrochemical corrosion behaviour of nickel chromium-chromium carbide coating by HVOF process", International conference on Design, Materials and Manufacture 2018. ICDEM-2018, 29-31 January. Conducted by NITK Surathkal
10. Pranitha Sankara,, H. D. Shashikala, Reji Philip "Ion dynamics of laser produced aluminium plasma at different ambient pressure", International Conference On Laser Ablation (COLA -2017), September 2017
11. Pranitha Sankara, H. D. Shashikala, S.S. Harilal, Reji Philip, "Effect of beam spot size on the dynamics of ultrashort laser produced plasma generated in vacuum", 45th IEEE International Conference on Plasma Science (ICOPS 2018),
12. Akhila B Edathazhe, H.D. Shashikala, "Optical properties of BaO added bioactive Na₂O-CaO-P₂O₅ glasses", International Conference on Design, Materials & Manufacture (IcDeM 2018), NIT Karnataka, India, AIP Conference Proc. 1943, 020072, 1-7, DOI: 10.1063/1.5029648
13. Ahmed Rizwan C.L, Deepak Vaid, "Second order phase transition in thermodynamic geometry and

- holographic superconductivity in low-energy stringy black holes”, 2nd International Conference on Condensed Matter & Applied Physics (ICC 2017), Govt. Engineering College, Bikaner, Rajasthan during November 24-25, 2017.
14. Ahmed Rizwan C.L, Rajani K.V, Safir.T.K, Deepak Vaid, “A comparative study: Cosmological BCS mechanism and Holographic superconductivity”, 29th meeting of the Indian Association for General Relativity and Gravitation (IAGRG), IIT Guwahati, 18 -20 May, 2017
 15. Deepak Vaid, “Gravity as a Condensate of Gauge Fields: Superconducting and Antiferromagnetic Phases of Spacetime”, IAGRG 29, IIT Guwahati, 18 - 20 May, 2017
 16. Deepak Vaid, “Connecting LQG and String Theory: From Quantum Geometry to the Nambu-Goto Action (based on arXiv:1711.05693)”, 6th Tux Workshop on Quantum Gravity, Tux, Austria, Feb 19 - Feb 23, 2018
 17. M. S. Manju, K. M. Ajith, M. C. Valsakumar, “Uniaxial stress induced band structure changes in h-SiB”, 2018 IP Conference Proceedings, 1953, 110027.

SCHOOL OF MANAGEMENT

1. Shrisha S. and Kiran K. B. (2018)., “Demand, Markets and Innovation for Indian MSMEs”, 11th Annual Conference of EuroMed Academy of Business (EMAB), Valletta, Malta.
2. Sumukh S Hungund and Kiran K B, “*Open Innovation Approach for Small and Medium Enterprises: An Evidence from Indian Software Product Firms*”, South Asian Conference on Social Entrepreneurship and Innovation 2018 at TISS Mumbai.
3. Koudur, Shashikantha, “Kannada Movement and the Case of ‘Light Music’ in Kannada”, International

- Conference on Performing and Visual Arts, University of Malaya, Kuala Lumpur, Malaysia, Jan. 9-11, 2018.
4. Mishra. S., & Kumar, S. P., “Prospecting the Enablers of Employer Branding: Retention Aspect”, Presented at 27th Annual Conference of National Academy of Psychology (NAOP). Held at IIT Kharagpur (IIT KGP) during 22nd-24th December 2017.
 5. Maurya, U., Kumar, S. P. & Mishra, P., “Corporate Reputation Dimensions, Enablers and Outcomes in Service Organizations”, 5th International conference on Applied Business and Economics Research 20-21 May 2017. Organizing by M/s. Serials Publications, New Delhi, India.
 6. Suprabha K R., “An Idiosyncratic study on financial distress and default of select Indian companies”, International Engineering Symposium, Kumamoto University, March 7-9, 2018.
 7. Vadivel S.M. and Sequeira A.H., “An operational performance of Indian Postal Service using Lean manufacturing approach –A conceptual framework”, International conference on Strategies in volatile and uncertain environment for emerging markets , Department of Management Studies , IIT Delhi, 14-15 July 2017.
 8. Shamal S and Dr. Bijuna C Mohan, “Consumer acceptance of branded fortified foods and beverages in India: Potential for Healthy Marketing”, NASMEI Summer Marketing Conference IIM Indore, July 27- 29, 2017, pp.112.
 9. Bhat, S. (2017), “Determinants of R&D behaviour of foreign firms in India”, 12th Annual Conference of the Forum for Global Knowledge Sharing (in partnership with Tata Trusts) held during 10-12 November 2017 at Nabakrushna

- Choudhury Centre for Development Studies, Bhubaneswar, India.
10. Tanupriya and Dhishna Pannikot, "Significance of Gender Liminality and Performativity: A Study on Hijras and Transvestites", *International Social Sciences and Humanities Book of Abstracts*. Hambolt: Berlin, May 2017 p 57.
 11. Pradyot Ranjan Jena and Bibhu Prasad Naik, "Can third party certifications programme improve livelihoods and reduce food insecurity: An empirical study from southern India", 9th Biennial Conference of Indian Society of Ecological Economics, Thrissur, Kerala, 8th-10th Nov 2017.
 12. Sunil Khosla and Pradyot Ranjan Jena, "Estimating determinants of poverty alleviation: An Empirical Study from Rural Odisha", International Conference on "India after 25 years of Economic Reforms: What's achieved? What's ahead?" & One-day Doctoral Colloquium, Kerala, In, March 1-3, 2018.
 13. Rajesh M Kalli, Sunil Khosla, and Pradyot Ranjan Jena, "Effect of Climate Variability on Agriculture using Regression Analysis", Conference on Data Analytics, Machine Learning, and Security, Guru Ghasidas University, Chhattisgarh, In, February 15-16, 2018.
 14. Rajesh M Kalli and Pradyot Ranjan Jena, "Assessing Climate Change Impact on Millet Yields in Karnataka Region of South India", 7th International Engineering Symposium, Kumamoto University, Japan, March 7-9, 2018.
 15. Rajesh M Kalli and Pradyot Ranjan Jena, "Does Climate Change Affect Agriculture Adversely at Small Spatial Scale? Evidence from District-wise Analysis in Karnataka", International Conference on and Business, Indian Institute of

Management Calcutta, IN, January 13-14, 2018.

NATIONAL CONFERENCE

DEPARTMENT OF APPLIED MECHANICS AND HYDRAULICS

1. **A V Hegde***, Rekha K, and Anand S, Wave reflection characteristics of Emerged seaside non-perforated and perforated quarter circle breakwater, IDEAS 2017, Thiruvananthapuram, Kerala, May 11-12, 2017
2. K. Suman and **A. V. Hegde *** Prediction of Reflection Coefficient below the Data Range for Emerged Perforated Non-overtopping Semicircular Breakwater, OSICON 17 Conference, 28-30 August 2017, NCESS Thiruvananthapuram

DEPARTMENT OF CIVIL ENGINEERING

1. Nimi Ana Vincent, R. Shivashankar and K. N. Lokesh, "Some studies on laboratory and field electrical resistivities of soils", Indian Geotechnical Conference 2017, IIT Guwahati, December 2017.
2. Divya Nath, Nimi Ana Vincent, R. Shivashankar and K. N. Lokesh, "Electrical resistivity studies on lateritic soils", Indian Geotechnical Conference 2017, IIT Guwahati, December 2017.

DEPARTMENT OF CHEMSTRY

1. Meenaketan Sethi, D. Krishna Bhat* ELECTROCHEMICAL STUDY OF GRAPHENE-NiCo₂O₄ NANOCOMPOSITES FOR HIGH PERFORMANCE SUPERCAPACITOR APPLICATIONS. Presented at ICAM-I2CAM Energy school held at JNCASR from 25 Nov-02 Dec, 2017.
2. Meenaketan Sethi and D. Krishna Bhat, "HIGH

PERFORMANCE SYMMETRICAL SUPERCAPACITOR BASED ON GRAPHENE-NiCo₂O₄ NANOCOMPOSITES. " Presented at CRSI-ACS Symposium and 21st CRSI-National Symposium in Chemistry held at CSIR-IICT Hyderabad during 13th-16th, July 2017.

3. Kavyashree Sukad Keremane, Praveen Naik, **Airody Vasudeva Adhikari**, "Design and synthesis of new carbazole based metal-free organic chromophore for Dye-Sensitized Solar Cells", National conference on Science and Technology: reaching the unreachable (NCST-RU-2017), Mangalore University, Mangalore Karnataka, September 08-09, 2017.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

1. G. S. Puneekar, A. Deepthi, A. Aiswarya, and . Bhavani Shanker, "Effects of error in acoustic velocity on partial discharge localization in power transformers over its working temperature range".National Conference on Condition Monitoring NCCM-2017, October 26-27, 2017, IGCRA-Kalpakkam Paper No 3A-D.

DEPARTMENT OF MECHANICAL ENGINEERING

1. Ravikumar K.N., Hemantha Kumar and K.V. Gangadhara Fault Diagnosis of Ball Bearing of Two Stroke IC engine Based on Vibration Signals using Decision Tree and K-Star algorithm. 5th National symposium on Rotor Dynamics (NSRD 2017), 2017
2. SushanlalBabu, Anish SAN Aerothermal Investigation of Purge Flow Behaviour in a Linear Turbine Cascade With Upstream Wakes44th National Conference on Fluid Mechanics and Fluid Power2017

3. Deepak narayanan,Anand S, S AnishA COMPUTATIONAL HEMODYNAMIC STUDY ON IDEALIZED BIFURCATED ARTERIES44th National Conference on Fluid Mechanics and Fluid Power2017

4. M. Kanchan, R. ManiyeriNumerical Simulation of Flow in a Wavy Wall Microchannel Using Immersed Boundary Method44th National Conference on Fluid Mechanics and Fluid Power (FMFP 2017)2017

5. C D Prasad, Sharnappa Joladarashi, M R Ramesh , B H ChannabasappaEffect of Intermetallic Laves Phases on Elevated Temperature Wear Behavior of HVOF Sprayed Co-Mo-Cr-Si CoatingTACT2017 International Thin Films Conference Oct. 15-18, 2017, National Dong Hwa University, Hualien, Taiwan2017.

DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

1. R.V. Kurahatti, A.O. Surendranathan, A.V. Ramesh Kumar and V. Auradi, A Comparative Study on Mechanical and Tribological Properties of Epoxy Composites Filled with Nano-ZrO₂ and Nano-Al₂O₃ Fillers, Techno-Societal 2016, Maharashtra, India, Jan 4, 2018, pp. 549-557.
2. Yashaswini Karanth, Meghana Banavath, Komalakrishna H, Kaushal R Shakyaa, K Rajendra Udupa, Saumen Mandal, Development of nano-hydroxyapatite-Fe₂O₃ based UV absorbing sun screen filter from austromegabalanus psittacus, 7 – 9th December, 2017.

DEPARTMENT OF PHYSICS

1. Pranitha Sankar, H. D. Shashikala, Reji Philip," Expansion dynamics of aluminum ions in ultrashort

plasma at different ambient pressures”, National Laser Symposium - 26, December 2017

2. Deepak Vaid, "Differential Equations in Physics: From Newton to Einstein", National Workshop on Topics In Partial Differential Equations, MACS, NITK Surathkal, July 28, 2017

SCHOOL OF MANGEMENT

1. Maben, Sonia Annette., & Uchil, .S. Rashmi, "Talent Acquisition Strategies towards Engagement of knowledge Workers: A conceptual 17th Consortium of Students in Management Research (COSMAR), Dept. of Management Studies, IISc, Bangalore, 20-21 November, 2017.
2. Shenoy, Veena & Uchil, Rashmi, "Virtual Employee Experience and Employee engagement", 17th Consortium of Students in Management Research (COSMAR), Dept. of Management Studies, IISc, Bangalore, 20-21 November, 2017.
3. Sequeira A.H., "Role of governance and technology in sustainable social development' at National conference on "Sustainable Social Development", St. Aloysius Evening College and Mangalore Sociology Association, 3rd March, 2018.
4. Sequeira A.H., 'Strategic Planning in University', conference on "Formation of Jesuit University with Difference", St. Joseph's College(Autonomous), Bangalore, 17-18 November 2017.
5. Sunil Khosla and Pradyot Ranjan Jena, "Unravelling the Socioeconomic Determinants that Affect Poverty: An Econometric Analysis from Rural Odisha", Conference on Transforming Odisha: policies, Institution, and Innovation, Centre for the Study on Contemporary Societies,

Bhubaneswar, IN, March 4-6, 2018.

6. Rajesh M Kalli, Sunil Khosla, and Pradyot Ranjan Jena, "The Impact of Climate Change on Agriculture: Evidence of Cereal Crop using Panel Regression from Karnataka", 5th National Conference on The Network of Rural and Agrarian Studies, Nabakrushna Chaudhury Centre for Development Studies, Bhubaneswar, In, October 27-29, 2017.
7. Bibhu Prasad Naik, Pradyot Ranjan Jena and K. L. Maharjan, "Livelihoods, Vulnerability and Adaptation Strategies to Climate Variability and Climate Change: A Study of Inland Districts of Odisha", 5th National Conference on The Network of Rural and Agrarian Studies, Nabakrushna Chaudhury Centre for Development Studies, Bhubaneswar, In, October 27-29, 2017.
8. Rajesh Acharya H, "Investment and Exchange Rate: Firm Level Evidence from India, at the two day national conference on 'Globalizing the Finance?' organized by Department of Economics, Pondicherry University, from 10 to 11 April, 2017.

14 TECHNICAL EVENTS

DEPARTMENT OF APPLIED MECHANICS AND HYDRAULICS

Books Chapters:-

1. Kovoov, G. and Nandagiri, L*, Sensitivity analysis of FAO-56 Penman-Monteith reference evapotranspiration estimates using Monte Carlo simulations, Chapter in book '*Hydrologic Modeling*', Eds.: VP Singh, Shalini Yadav & RN Yadav. Water Science and Technology Library, Springer, [In Press], Sept 2017
2. Ramesh. H*. and Soorya P.P, Application of EO-1 hyperion Data for mapping and discrimination of agricultural crops., A chapter contributed to a book "Hydrologic Modeling". Edited by V. P. Singh, Springer Publications, 2017
3. Beena Mary John, Kiran G. Shirla*1 and Subba Rao, Experimental Investigations of wave height attenuation by Submerged artificial vegetation, 33, Hydrologic Modeling, Water Science and Technology Library, Springer
4. Beena Mary John, R T Arun Vignesh, Kiran G Shirlal* and Subba Rao, Experimental Study on Role of Emergent Artificial Coastal Vegetation in Controlling Wave Run up, 36, Hydrologic Modeling, Water Science and Technology Library, Springer

GIAN Course:-

1. Practical Analysis of Environmental Data with Open Source Software (R and QGis), Dr. Amba Shetty & Dr. Pruthviraj U., MHRD, New Delhi, February 5-9, 2018.
2. Geo statistical Analysis of Environmental Data, Dr. Amba Shetty & Dr. Pruthviraj U., MHRD, New Delhi, February 19 - 23, 2018

FOREIGN VISITORS TO DEPARTMENT

1. Dr. Gomez Cecile, Scientist, IRD, Agrosystems and Hydrosystems, FRANCE, 07.04.2017
2. Mr. Kusangi Kazuma, Professsor, Dept. of Aerospace of Marine system engineering, Osaka Prefectre Univerisity, Japan, 06.09.2017
3. Dr. S.Neelamani, Senior Research Scientist, Coastal Management Program, Kuwait Institute of Scientific Research, Kuwait, 02.01.2018
4. Prof. Ada E. Yonath, Nobel Laureate in Chemistry (2009), Israel, 10.01.2018
5. Prof. Serge Haroche, Nobel Laureate in Physics (2012), France, 10.01.2018
6. Dr. Georg Hörmann, Senior Scientist, Dept. of Hydrology and Water Management, Kiel University, Germany, Feb. 5-9, 2018
7. Dr. Pierre Goovaerts, Chief Scientist, Bio-Medware Inc., Courtesy Associate Professor, Soil and Water Science Department, University of Florida, USA, Feb. 19 - 23, 2018
8. Mr. Snehamoy Chattergi, Asst. Professor, Geological and Mining Engineering, Michigan Technological University, USA, 15.03.2018
9. Dr. Gomez Cecile, Scientist, IRD France, 17.04.2018

INDIAN VISITORS TO DEPARTMENT

1. Dr. Sharad K. Jain, Proessor, NIH Roorkee, 22.03.2017
2. Dr. Nagesh Kumar, Professor, IISc., Bengaluru, 23.05.2017
3. Dr. S.K.Mishra, Professor, Dept. of Civil Engineering, IIT Roorkee, 14.07.2017
4. Prof. Prasad Bhaskaran, Professor, IIT Kharagpur, 05.09.2017
5. Dr. Sanasiraj, Professor, IIT Madras, 29.09.2017
6. Dr. M.Karthikeyan, Scientist,

- ISRO, Bengaluru, 26.10.2017
7. Dr. Sasikumar K., Associate Professor, Dept. of Civil Engg., NITK, Calicut, 09.12.2017
 8. Prof. Prasad Bhaskaran, Professor, IIT Kharagpur, 27.12.2017
 9. Dr. S.A.Sanasiraj, Professor, Ocean Department, IIT Madras, 29.09.2017
 10. Dr. M.Karthikeyan, Scientist, ISRO, Bengaluru, 26.10.2017
 11. Dr. Sasikumar K., Associate Professor, Dept. of Civil Engg., NITK, Calicut, 09.12.2017
 12. Dr. Prasad K. Bhaskaran, Professor & Head, Dept. of Civil engineering, IIT, Kharagpur, 27.12.2017
 13. Dr. S.A.Sanasiraj, Professor, Ocean Department, IIT Madras, 10.01.2018
 14. Dr. Selvaraju Narayanasamy, Dept. of Bio-Sciences & Bio-Engineering, IIT, Gauwahati, 02.03.2018
 15. Dr. Y.S.Rao, Centre for Studies for Resources Engineering, IIT, Bombay, 13.03.2018
 16. Dr. Y.S.Rao, Centre for Studies for Resources Engineering, IIT, Bombay, 14.03.2018

AWARDS AND RECOGNITIONS

- Geetha Kuntoji, Subba Rao, Manu and Eluru Nava Bharath Reddy (2017), "Prediction of damage level of inner conventional rubble mound breakwater of Tandem breakwater using Swarm Intelligence based Neural Network (PSO-ANN) approach", **7th International Conference on Soft Computing for Problem Solving - SocProS 2017**, during December 23-24, 2017 held at Indian Institute of Technology Bhubaneswar and has been honoured with **BEST PAPER AWARD** for the year 2017.
- Jhoga. P, **Nasar. T**, Aanand. K. V, Kunhimammu. P., A geospatial approach to study shoreline configuration Dynamics - pre, during and post construction of

training wall, 37th INDIAN NATIONAL CARTOGRAPHIC ASSOCIATION (INCA) International Congress on Geoinformatics for Carto-Diversity and its management, Naval Hydrographic Office, Indian Navy, Dehradun. (**Acknowledged by best paper award**), 2017.

- Dr. G.S.Dwarakish, 2018, 'Climate change and global sustainability : Action for bridging the gap', 2nd International conference on Climate change 2018, , 15-16, Feb. 2018, colombo, Srilanka has been honoured with **BEST PAPER AWARD**.

Some of the events conducted by the dept.

Workshop titled Prakruthi Infocus on 9th Jan. 2016

Workshop titled Satellite Remote Sensing based Societal Applications on 30th June 2016
CEP on Advanced Surveying, Total Station, GIS, GPS & Mapping during : 25-29 July 2016.

Training Programme on Mike 21 Software during : 22-26 August, 2016

CEP on Flood forecasting, flood routing and emergency preparedness of reservoir during : 19-23 Sept. 2016

Workshop titled Rainfall Run off-Modelling during : 26-30 Sept. 2016

Workshop titled Coastal Hydrodynamics and modelling' On 7th Oct. 2016

Workshop titled Microwave Remote Sensing during : 17-18 Oct. 2016.

GIAN Course on Offshore Renewable Energy (Wave, Wind and Tidal Energy) during : 7th -11th November, 2016

GIAN Course on Geo statistical Analysis of Environmental Data during : December 05-09, 2016

Workshop titled Prakruthi Infocus on 4th Feb. 2017

Workshop titled Past, present and future scenarion in Marine Structures on 20th Feb. 2017

GIAN Course on Practical Analysis of Environmental Data with Open Source Software (R and QGis) during : February 5-9, 2018

GIAN Course on Geo statistical Analysis of Environmental Data, during : February 19-23, 2018

DEPARTMENT OF CHEMICAL ENGINEERING

Book chapters

1. Lavanya, A., Raval Keyur, Raval, R., "Photobioreactors for wastewater treatment: Recent advances", in Photobioreactors: Advancements, Applications and Research, ISBN: 978-153612355-5; 978-153612354-8, Nova Science Publishers Inc., USA
2. Dr. Raj Mohan B., Dr. Jaya Mary Jacob & Dr. Dhilna Damodharan - Contributed a chapter in ***Handbook of Metal-Microbe Interactions and Bioremediation***, CRC Press, Taylor & Francis Group (2017)

Patents

1. Keyur Raval, Vishnu M, Raj Mohan Balakrishnan, "Removal of heavy metals from contaminated water by adsorption using melanin bound activated carbon", Indian patent office, patent application number: 201841000695, date: 06.01.2018
2. Keyur Raval, Rohit Kalnake, D V R Murthy, "Rotating packed disc bioreactor", Indian patent office, patent application number: 201841000694, date: 06.01.2018
3. Vidya Shetty K, Afshan Kilpady, Deekshitha, "Bacterial based synthesis of core shell AgO@TiO₂ nanoparticles for photocatalytic water disinfection and dye degradation" *Indian Patent Office*, Application Number: 201741044068 December 8th, 2017

REVIEWS:

1. Dr. Keyur Raval, Review of the fullmength article, "Kinetic modelling of hyaluronic acid production in palmyra palm (Borassus flabellifer) based medium by Streptococcus zooepidemicus MTCC 3523" in Elsevier journal "Biochemical Engineering Journal".

STTPS (SHORT TERM TRAINING PROGRAMMES)/SCHOOLS

1. Short Term training Programme on "Basics of Environmental Engineering " for Engineers of MRPL Organized by Department of Chemical Engineering and Centre for Continuing Education , NITK Surathkal, held during 20-26 March 2018. Coordinators: Dr. Hari Mahalingam and Dr. Vidya Shetty K

CONFERENCES:-

1. National Conference on Risk Reduction and Disaster Management in Industries -2018 (RRDMI-2018) held on 20th and 21st January 2018 organized by Department of Chemical Engineering , NITK Surathkal in association with Department of Factories, Boilers, Industrial Safety and Health, Government of Karnataka and National Disaster Management Authority, Government of India. Conference Chair: Prof. G.Srinikethan. Organizing Secretary: Dr. Vidya Shetty K

SEMINARS (NATIONAL & INTERNATIONAL)

1. Seminar on Multiphase Flow by on 2nd September 2017
2. Seminar on "Indigenous Technologies: From laboratory to the field" by Prof. Sirshendu De, IIT Kharagpur, 11th October 2017
3. Seminar on "Recycling of Carbon Dioxide to Methanol and Derived Products – Closing the Loop" by

Prof. G.K. Surya Prakash, USA,
23rd November, 2017

Expert Lecture

1. Expert Lecture on the topic “Chemical Engineering principles in the treatment of infectious diseases” by Prof. Narendra M. Dixit, Bangalore, August 10, 2017.
2. Expert Lecture on “Indigenous Technologies: From laboratory to the field” by Prof. Sirshendu De, IIT Kharagpur, 11th October 2017.
3. Expert Lecture on “Recycling of Carbon Dioxide to Methanol and Derived Products – Closing the Loop” by Prof. G K Surya Prakash, USA, 23rd November, 2017.

Talk

1. Talks on “Basics and Technologies in natural gas processing career counselling for prospective process engineers” by Mr. Jamil Ahamed, Doha, Qatar, 15th January, 2018

VISIT TO ABROAD (Faculty):-

1. Dr. Vidya Shetty K, Department of Chemical Engineering attended and presented a paper at NanoWorld Conference in Boston, USA during April 03-05, 2017

Awards

1. Dr. S. Gangamma -European Respiratory Society short term fellowship 2017, Blizard Institute, Queen Mary University, London.

DEPARTMENT OF COMPUTER ENGINEERING

SEMINARS (NATIONAL & INTERNATIONAL)

1. SDN Online Lab organized by Dr. Mohit P Tahiliani on 20th December 2017
2. Wireless Alternative to Fiber for Residential Enterprise and Urban Access organized by Dr. Mohit P Tahiliani on 21st December 2017

WORKSHOPS:

Dr. Mohit P. Tahiliani and Dr. B R Chandavarkar organized A WINGS's 7th 3 days' Workshop on “Open-source Network Experimentation (ONE-2017)”, 1st – 3rd June 2017

FACULTY DEVELOPMENT PROGRAMME

Cryptanalysis: Tools and Techniques organized by Dr. Alwyn R Pais from 4th - 8th December 2017

GIAN COURSE

1. Algorithmic foundations of Wireless Sensor Networks with Applications organized by Mrs. Saumya Hegde and Dr. Pushparaj Shetty with A GIAN (MHRD Govt. of India) from 10-14th December 2017
2. Software Based Networks : SDN and Integration of Virtualization in Networks organized by Dr. Mohit P Tahiliani with A GIAN (MHRD Govt. of India) from 19-23rd December 2017

STRESS MANAGEMENT TRAINING PROGRAMME

EXPERT/TECHNICAL TALK

1. Need of Interdisciplinary Research in Contemporary Research Arena organized by Dr. Shashidhar G Koolagudi on 03rd July 2017
2. Practical Formal Methods for Mainstream LLVM Developers organized by Dr. Alwyn R Pais on 10th August 2017
3. Modern Speech Interfaces organized by Dr. Shashidhar G Koolagudi on 10th August 2017
4. Data Visualization organized by Dr. P. Santhi Thilagam on 04th September 2017
5. Big Data Analytics Software Development Life Cycle(BDA-SDLC) organized by Dr. Alwyn R Pais on 03rd November 2017
6. Formal Verification of robustness properties of Hybrid Systems organized by Dr. P. Santhi Thilagam on 2nd January 2018
7. Wireless Network Performance Evaluation organized by Dr. Mohit P Tahiliani on 3rd January 2018

FOREIGN VISITORS TO DEPARTMENT

1. Dr. Santosh Nagarkatte Assistant Professor of Computer Science at Rutgers University visited on 10th August 2017
2. Dr. Sajal K. Das Distinguished Professor Computer Science Rolla USA visited department from 10-14th December 2017
3. Daniel St. Clair Endowed The Chair Professor Missouri University of Science & Technology Rolla USA visited department from 10-14th December 2017
4. Prof.K. K. Ramakrishnan Professor University of California Riverside USA visited department from 19-23rd December 2017
5. Dr. Aravind R. Raghavan Director of Product Management at Tarana Wireless Inc. Santa Clara USA visited on 21st December 2017
6. Prof. Sumit Roy Professor Dept of Electrical Engineering University of Washington Seattle USA visited on 3rd January 2018

VISIT TO ABROAD (Faculty):-

1. Dr. Annappa was invited as a Visiting expert to Universite des Mascareignes Mauritius during 19th May to 18th June 2017.
2. Dr. K. Chandrasekaran Delivered an invited talk/ tutorial in the International Conference KMO 2017, Beijing China, titled "Knowledge Management in the context of Pervasive and Mobile Computing".
3. Dr. Mohit P. Tahiliani Delivered a talk on "Need for Speed: Minimize the Impact of Bufferbloat in Home Broadband Internet" at Lawrence Livermore National Laboratory 12th October 2017.
4. Dr. Mohit P. Tahiliani Selected as a Mentor at Google Campus Sunnyvale California from 13th – 15th October 2017. Funded by Google Summer of Code to participate in GSoC Mentor Summit

DEPARTMENT OF CHEMISTRY

NATIONAL CONFERENCE

1. **Meenaketan Sethi, D. Krishna Bhat*** Electrochemical Study Of Graphene-NiCo₂O₄ Nanocomposites For High Performance Supercapacitor APPLICATIONS. Presented at ICAM-I2CAM Energy school held at JNCASR from 25 Nov-02 Dec, 2017.
2. Meenaketan Sethi And D. Krishna Bhat, "HIGH PERFORMANCE SYMMETRICAL SUPERCAPACITOR BASED ON GRAPHENE- NiCo₂O₄ NANOCOMPOSITES. " Presented At CRSI-ACS Symposium And 21st CRSI-National Symposium In Chemistry Held At CSIR-IICT Hyderabad During 13th-16th, July 2017.
3. Kavyashree Sukad Keremane, Praveen Naik, Airody Vasudeva Adhikari, "Design and synthesis of new carbazole based metal-free organic chromophore for Dye-Sensitized Solar Cells", National conference on Science and Technology: reaching the unreachable (NCST-RU-2017), Mangalore University, Mangalore Karnataka, September 08-09, 2017.

BOOKS PUBLISHED :-

1. YN Sudhakar, M Selvakumar, D. Krishna Bhat, Biopolymer Electrolytes: Fundamentals and Applications in Energy Storage, Published by Elsevier, 2018, ISBN: 978-0-12-813447-4
2. Dr. A. M. Isloor, Inorganic Nanomedicines, published by Transtech Publishers, Switzerland

BOOKS EDITED:-

1. Advanced Nanomaterials for Membrane synthesis and its applications, Published by Elsevier, 2018

EXHIBITIONS

1. Dr. A.M. Isloor has exhibited Membrane module and its filtration at the National level Exhibition organized at Rashtrapathi Bhawan on 19 & 20th March 2018.

PATENTS

1. **Amir Al Ahmed** and **Arun M. Isloor**, "Method of N-formylating amines with a phosphonic anhydride" US Patent (**Patent number:** 9862675), Granted on 9th January 2018.
2. **Amir Al Ahmed** and **Arun M. Isloor**, "METHOD FOR REMOVING CATIONIC DYES FROM AN AQUEOUS SOLUTION USING AN ADSORBENT", US Patent (**Publication number:** 20170233265), Published on 17th August 2017.

POSTERS PRESENTED

1. Jith C. Janardhanan, Gourab Das, Vakayil K. Praveen,* Anisha Puthuvakkal, Cherumuttathu H. Suresh, Manoj Narayanapillai* and Beneesh P. Babu, "Multiluminescent Indazole Dyes by Palladium Catalyzed Condensation Reactions of Hydrazones and pQuinones" 8th East Asia Symposium on Functional Dyes and Advanced Materials, NIIST-CSIR, Trivandrum-19. IN, September 20-22, 2017.

FOREIGN VISITORS TO DEPARTMENT

1. Dr. Erna Yulawati, Associate Professor of UMP Palembang, Indonesia visited Chemistry Dept. NITK Surathkal on August 2017.

VISIT TO ABROAD (Faculty):-

1. Dr. A. V. Adhikari, Dr B. Ramachandra Bhat, Dr D. Krishna Bhat and Dr Udayakumar D. attended 5th International conference of Indian Council of Chemists at Swiss-Belhotel Rainforest, Kuta, Bali, Indonesia, June 7-9, 2017.
2. Dr. Arun M. Isloor of Chemistry Dept. visited Universitas Muhammadiyah Palembang-Indonesia during June 2017 and University of Toronto-Canada during February 2018.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

TECHNICAL EVENTS ORGANIZED

Workshop:-

1. Two-Day Workshop on SMART CAMPUS: IoT Solutions for Utility Management by Dr. M. S Bhat with NITK, Surathkal Newton Bhabha Fund Royal Academy of Engineering, 16th – 17th February 2018.

Training

1. Two day Hands-on Training programme on IoT by Dr. M. S. Bhat with NITK, Surathkal Newton Bhabha Fund Royal Academy of Engineering, 23rd – 24th February 2018.
2. Hands-on Training programme on IoT by Dr. M. S. Bhat with Team from FluxGen Engineering Technologies Pvt. Ltd., Bangalore, 18th – 19th August 2017.

GIAN Course:-

1. Advance level course on Introduction to Software Defined Networking by Dr. P. Srihari and Dr. Prashantha Kumar H with GIAN (MHRD), 26th – 30th March 2018.
2. MHRD Supported GIAN Advance Level Course on Estimation, Tracking and Information Fusion by Dr. P Srihari, 04th – 08th December 2017.
3. MHRD Supported GIAN Advance Level Course on Remote Sensing Image Processing and Analysis by Dr. Shyam Lal, 16th – 20th November 2017.

FOREIGN VISITORS TO DEPARTMENT

1. Prof. John Mathews, Professor School of Electrical Engineering & Computer Science Oregon State University Corvallis, OR 97331, USA, visited on 28th March 2018.
2. Mr. Akshay Pattabhi , PhD Student UC Berkeley visited on 20th September 2017.

3. Dr. Pramod Kolar, Staff Engineer, Portland, Intel Corporation, Oregon Area, visited on 17th August 2017.
4. Mr. Vikram Shenoy Handiru, PhD Researcher, NTU Singapore, visited on 11th August 2017

VISIT TO ABROAD (Faculty):-

1. Dr. Sumam David S., Department of E&C Engg, attended 19th International Conference on Industrial Technology at Lyon, France and presented a paper, February 20-22, 2018.
2. Dr. Aparna P., Department of E&C Engg, attended International Conference on Infocom Technologies and Unmanned Systems (ICTUS 2017) at Dubai and presented a paper, 18-20 December 2017.
3. Dr. Sumam David S., Department of E&C Engg, visited US Universities to serve as a Program Evaluator for ABET on behalf of IEEE for ABET accreditation, 29-31 October 2017.
4. Dr. M S Bhat, Department of E&C Engg, attended 8th IEEE Annual Ubiquitous Computing, Electronics & Mobile Communication Conference at Columbia University, New York USA and presented a paper, 19-21 October 2017.
5. Dr. M S Bhat, Department of E&C Engg, attended IEEE International Humanitarian Technology Conference IHTC 2017 at Toronto, Canada and presented a paper, July 20-21, 2017.
6. Dr. P Srihari, Department of E&C Engg, attended IEEE Radar Conference at Seattle, USA and presented a paper, May 8-12, 2017.

DEPARTMENT OF INFORMATION TECHNOLOGY

BOOK CHAPTERS:-

1. Kumar P., Ram Mohana Reddy G. (2018), "Friendship Recommendation System Using Topological Structure of Social Networks". In: Sa P., Sahoo M.,

Murugappan M., Wu Y., Majhi B. (eds) Progress in Intelligent Computing Techniques: Theory, Practice, and Applications. Advances in Intelligent Systems and Computing, Vol. 519. pp. 237-246, Springer, Singapore.

2. Raghu G., Sharma N.K., Domanal S.G., Ram Mohana Reddy G. (2018), "Memory-Based Load Balancing Algorithm in Structured Peer-to-Peer System". In: Sa P., Sahoo M., Murugappan M., Wu Y., Majhi B. (eds) Progress in Intelligent Computing Techniques: Theory, Practice, and Applications. Advances in Intelligent Systems and Computing, Vol. 518, pp. 431-439, Springer, Singapore.
3. Kumar P., Jaiswal A., Deepak B., Ram Mohana Reddy G. (2018), "Hand Gesture-Based Stable PowerPoint Presentation Using Kinect". In: Sa P., Sahoo M., Murugappan M., Wu Y., Majhi B. (eds) Progress in Intelligent Computing Techniques: Theory, Practice, and Applications. Advances in Intelligent Systems and Computing, Vol. 518, pp. 81-94 Springer, Singapore.
4. Dani V., Sarswat A., Swaroop V., Domanal S., and Guddeti. R. M. R. (2017), "Fast Convergence to Near Optimal Solution for Job Shop Scheduling using Cat Swarm Optimization", In: Shankar B. et al. (Eds.): PReMI'17, Springer Lecture Notes in Computer Science, Vol. 10597, pp. 282-288, 2017.

STTPS (SHORT TERM TRAINING PROGRAMMES) / SCHOOLS

1. 5 Days Short-Term Program on "IPv4 Networking Fundamentals" by Dr. Jaidhar C D, 19th to 23rd March 2018
2. Two day workshop on "Information Security" by Dr. G. Ram Mohana Reddy with

Mercedez Benz & OLA
Bangalore, 31/10/2017

3. One Day workshop on "AMD Tech Day" by Dr. G. Ram Mohana Reddy with AMD Bangalore, 23/3/2018
4. Dr. Sowmya Kamath S visited NUS, Singapore for Research interaction and conference paper presentation, Dec 3-9, 2017.
5. Dr. Sowmya Kamath S visited Kumamoto University (Japan) for Research interaction and conference paper presentation, Mar 5-11, 2018
6. Dr. Nagamma Patil visited Vietnam to attend 8th International Conference on Computational Systems-Biology and Bioinformatics (CSBio 2017), Dec 6th -9th, 2017.

VISIT TO ABROAD (FACULTY):-

1. Prof. Ananthanarayana V S visited Sydney, Australia for paper presentation and research interaction, 30th July - 5th August 2017.
2. Dr. Geetha V visited Kumamoto University, Japan for IES 2018, 7-9 March 2018.
3. Dr. Geetha V visited NUS, Singapore, For IALP 2017, 5-7 Dec 2017.
4. Dr. Sowmya Kamath S visited NUS, Singapore for Research interaction and conference paper presentation, Dec 3-9, 2017.
5. Dr. Sowmya Kamath S visited kumamoto University (Japan) for Research interaction and conference paper presentation, Mar 5-11, 2018.
6. Dr. Nagamma Patil visited Vietnam to attend 8th International Conference on Computational systems-Biology

and Bioinformatics (CSBio 2017), Dec 6th-9th, 2017.

DEPARTMENT OF COMPUTATIONAL & MATHEMATICAL SCIENCES

Workshops:-

1. National Workshop, A six day workshop on Algebraic Graph Theory, 25/01/18 & 6 days, NBHM - DAE, Government of India & CSIR, Government of India, A. Senthil Thilak, Pushparaj Shetty D, Srinivasa Rao Kola.

DEPARTMENT OF MECHANICAL ENGINEERING

BOOKS PUBLISHED :-

1. G.C Mohan Kumar, Advances in Mechanical Design, Materials and Manufacture American Institute of Physics, 2018 ISBN: 978-0-7354-1638-3, Volume number: 1943 Published: Apr 20, 2018
2. Arumuga Perumal, Lattice Boltzmann Computation of Macro- & Micro Fluids & Heat Transfer Lambert Academic Publishing, 2017, ISBN: 978-620-2-01337-6, Published August 2017
3. Veeresh Nayak C,M R Ramesh,Vijay Desai, Sudip Kumar Samanta, Manjunath Patel G.C Optimization of Metal Injection Moulded Process using Taguchi, Grey relational and Principal Component Analysis" book title "Materials Forming, Machining and Post Processing Springer International Publishing, Cham-Switzerland 2018 ISBN: 9780735416383, Published year: 2018

CONFERENCES

- International Conference on design, materials and manufacture 29 Jan 2018 serb-dstnewdelhi, csir, new delhi gcmohankumar

- National Conference 25th National Conference on Internal Combustion Engines and Combustion 2017 Dec 15-17, 2017 Combustion Institute Indian Section Kumar G N

WORKSHOPS:

- SHAPER , Quantity 2, QUALITY MACHINE TOOLS COPORATION BATALA, QHTI8G
- HYDRALIC POWER HACKSAW Quantity: 1, SHREE NIDHI ENGINEERING BENGALURU , HPS-300
- WOOD TURNING LATHE, 3, YASH MACHINE TOOLS AHMEDABAD, YMT921

DEPARTMENT OF MINING ENGINEERING.

GIAN Course

1. GAIN Course on “Computer Application and data analysis in mining and other core industries” Organised by Department of Mining Engineering on 12th to 16th March 2018 at NITK, Surathkal (course coordinator Prof.B.M.Kunar).

DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

Book Chapters:

1. Dr. Udaya Bhat K. and Dr. K. Rajendra Udupa, Preparation and Characterization of Copper thin films for antimicrobial applications”, Apple Academic Publishing. CRC Press, 2017.

Foreign Visitors to Department:

1. Dr. Sameer Guduru, Post Doctoral Researcher Engineer, SATT & LP3, CNRS, Aix-Marseille Univ., Marseille, France visited on 30th May, 2017.
2. Dr. Sumanth Shankar, Director, LMCRC, Dept. of Mechanical

Engineering, McMaster University, 26th September, 2017

3. Dr. M. P. Phaniraj, Brain Korea Asst. Professor, Dept. of Materials Science & Engineering, Seoul National University, 09th March, 2018
4. Dr. Samir Degan, President, NACE International, Houston, USA, 21st March, 2018

Visit to Abroad (Faculty):

1. **Dr. K. Rajendra Udupa** attended International Conference on “Emerging Materials Congress 2018” at Hotel Park Inn, London during 22nd to 23rd, March 2018.
2. **Dr. A. O. Surendranathan** attended conference on “Nanotech France” at Paris, France during 28th to 30th June 2017
3. **Dr. K. Narayan Prabhu** attended Conference on “Heat Treat 2017” at Columbus, Phio, USA during 23rd to 26th October, 2017.

DEPARTMENT OF PHYSICS

BOOKS PUBLISHED :-

1. **Deepak Vaid, Sundance Bilson-Thompson**, “LQG for the Bewildered”, Book, Springer Nature, 2017, doi: 10.1007/978-3-319-43184-0

POSTERS PRESENTED

1. **S. Kumari, S. S. Mal, P. P. Das**, “Graphene oxide-polyoxometalate composite materials for energy harvesting”, International Conference On Recent Advances in Materials Science and Biophysics (RAMSB 2018), Mangalore University, India, Jan 23-25, 2018.

FOREIGN VISITORS TO DEPARTMENT

1. Dr. Nishant Sirse ,Post-Doctoral Fellow, Dublin City University, UK delivered a special lecture on Electronegative Plasma Diagnostics, May 24th 2017

2. Dr. Sakshath S, Post-Doctoral researcher, Technische University, Kaiserslautern, Germany delivered a special lecture on Ultrafast Demagnetisation Dynamics in Multicomponent Systems, January 12th 2018.

SCHOOL OF MANAGEMENT

Book Chapters:-

1. Koudur, Shashikantha, "Representing the Subaltern: From Tulu Text to the Kannada Context", in Translation: Try Thy Metaphor, Eds. Shailendra Kumar Singh and Aparupa Dasgupta, New Delhi: Lakshi Publishers and Distributors, 2017
2. Mishra, S., & Kumar, S. P. "Strengthening Internal Employer Branding by linking it to Employee Engagement: Retention Aspect, Riding the New Tides Navigating the Future through Effective People Management". *Emerald Publishing*, 178-185, 2017.
3. Pradyot Ranjan Jena, Ulrike Grote and Till Stellmacher, "Certifying Coffee Cooperatives in Ethiopia, India And Nicaragua: How Far Do Small Small-Scale Coffee Producer Benefit?" Fair Trade and organic agriculture-A winning Combination? page no 157-172.

REVIEWS:-

Reviewed journal manuscripts for following journals

1. World Development
2. Ecological Economics
3. Journal of cleaner production
4. Working paper for Gujarat Institute for Development Research (GIDR)
5. Applied Economic Perspective and Policy

STTPS (SHORT TERM TRAINING PROGRAMMES)/SCHOOLS

1. Management Development Programme on Talent Management and Succession Planning for KIOCL – by Prof. K. B. Kiran and Dr. Rashmi Uchil from 11th December to 15th

December, 2017 at NITK Surathkal

CONFERENCES SEMINARS (NATIONAL & INTERNATIONAL) WORKSHOPS

1. Workshop on 'Financial Econometrics using R' organized by Amrita Vishwa Vidyapeetham in collaboration with The Indian Econometric Society (TIES) at Bangalore during May 27-28, 2017, Dr. Rajesh Acharya attended.
2. Crisil Executive Training Programme on 'Debt Mutual Fund Investments- Imperatives for fund selection and monitoring' at Mumbai during July 28-29, 2017, Dr. Rajesh Acharya attended.

FACULTY DEVELOPMENT PROGRAMME GIAN COURSE

1. Randomized Controlled Trials (RCTs) and Non-experimental Approaches to Program Evaluation and Research Design, from October 23-27, 2017, Pradyot Ranjan Jena

FOREIGN VISITORS TO DEPARTMENT

1. Prof Laurence Larghi from HEIG-VD, Switzerland, Professor, visited Indian Leg of International Summer University Program 2018, on 9th February to 22nd February 2018.
2. Prof. Tianan Yang from BIT, China, Professor, visited Indian Leg of International Summer University Program 2018, on 9th February to 22nd February 2018.
3. Prof Zysman Eytan from HEIG-VD, Switzerland, Professor, visited Indian Leg of International Summer University Program 2018, on 9th February to 22nd February 2018.

VISIT TO ABROAD (Faculty):-

1. Dr. Shashikantha Koudur, Associate Professor, attended the 1st International Conference on Performing and Visual Arts,

University of Malaya, Kuala Lumpur, Malaysia, Jan. 9-11, 2018.

2. Dr. S. Pavan Kumar visited Switzerland as part of *Summer University 2017*, it is an exchange program between School of Management, NITK and School of Management and Engineering Vaud, Switzerland. The event was organized during June 28th 2017 to July 14th 2017.
3. Dr. Suprabha K. R visited Japan for the International Engineering Symposium held on March 7-9, 2018.

CONSULTANCY PROJECTS

DEPARTMENT OF APPLIED MECHANICS & HYDRAULICS

1. Inspection and assessment of removable sand quantity in sand bars of Netravathi, Gurpur, Nandini and Shambhavi rivers of DK dist, May 2017., Client : Dy. Director, Dept of Mines & Geology, Mangalore. , Consultant : Prof. Amai Mahesha, Rs. 6.0 Lakhs
2. Feasibility study on coastal reservoir construction to impound Netravathi river flood waters: A sustainable strategy for water resources development for Mangalore. May – Aug. 2017., Client : Chairman, CSSP, Indian Institute of Science, Bengaluru- 12. , Consultant : Prof. Amai Mahesha, Dr. H. Ramesh, Dr. T Nasar, Dr. Manu B. and Dr. Raviraj M., Rs. 6.0 Lakhs
3. Design of drainage system at Mangalore airport, 2018, Client : AAI, Mangalore, Consultant : Dr. Paresh Chandra Deka, Rs. 10.00 Lakhs
4. Sand Mining exploration in Karwar district, 2018, Client : Deptt. Of Mining and Geology, Govt. of Karnataka, Consultant : Dr. Paresh Chandra Deka & Dr. H. Ramesh, Rs. 7.00 Lakhs

DEPARTMENT OF MINING ENGINEERING

1. Prof.V.R.Sastry, “ Under water Blasting for Rock Dredging in New Mangalore Port, Rock & Reef Dredging”, NMPT. April –June 2017, 3,56,500.0
2. .Prof.V.R.Sastry,” Study of Impact of Ground Vibrations caused due to Blasting in Stone Quarry”, Sr.Geologist, Department of Mines, &Geology, Udupi District, April-May 2017, 86,250.00. 3.
3. Prof.V.R.Sastry, Dr.Ram Chandar. K,” Study of the Impact of Ground Vibration caused due to Blasting in Stone Quarry”, Sri Shrisha Nayak, Kenjar, Karkala Taluk., June- July 2017, 86,250.00.
4. Prof.V.R.Sastry,” Study of Impact of Ground Vibrations caused due to Blasting in Stone Quarry in Hallady”,
5. Sri .Jagannath Shetty, Stone Quarry, Hallady Village, Kundapur Tuluk, July- August 2017, 88,500.00
6. Prof.V.R.Sastry,” Study of Ground Vibrations generated due to Blasting Operation” August –September 2017, 88,500.00
7. Prof.V.R.Sastry, “Slope stability study in Rain Lime Stone Mine”, Rain cements, Srinagar colony, Hyderabad, August –September 2017, 5,95,700.00
8. Prof.V.R.Sastry,” Stability Analysis of Rock Slope in front of Pallivasal Property ”, T Asok kumar, Pallivasal, Munnar, Kerala, October.-November 2017, 2,36,000.00.
9. Prof.V.R.Sastry, Dr. K. Ram Chandar, “Scientific Study on Blast in ground vibration At Manvguru SCCL, and Scientific study for stability of OB bench at RKP-OCP, Mandamarri area, SCCL”, The Singareni Collieries co ltd, Kothagudam, October –November- 2017, 7,96,500.00.
10. Prof.V.R.Sastry, “Study of the Ground Vibrations caused due to blasting in stone quarry”, Hirechosaba Stone Crusher, M/S. Santa Narayna Nayak, November- December 2017, 94,400.00

11. Prof. V.R. Sastry, "Study of ground vibration due to blasting in stone quarry", Gajanana Stone Crusher, Kumta, Uttara Kannada, December-January 2017, 94,400.00.
12. Prof. V.R. Sastry, Dr. Ram Chandar. K, "Study of ground vibration caused due to tunnel blasting", M/S GVPR-ELHCC(JV), Yettinahole Project, Sakleshpura, November -December-2017, 94,400.00.
13. Prof. V.R. Sastry, "Consultancy for slope blasting methodology for safe excavation of jackwell pump house, BPLIS, Narayanapura dam, Karnataka", Amrutha construction Pvt Ltd, Ashwath Nagara, Bangalore., February-March 2018, 2,36,000.00.
14. Prof. V.R. Sastry, "Study of ground vibrations -Impact on Railway track, Sakleshpura", Maruthi Power gen Ltd, Sakleshpura., January - February 2018, 1,77,000.00.
15. Prof. V.R. Sastry, Dr. Ram Chandar. K, Study for stability of dump and highwall benches, KTKOC Sector-I, Bhupalapalli Area, Singareni Collieries co. ltd, Kothagudem Collieries, Telangana state, March - April 2018, 54,000.00.
16. Prof. V.R. Sastry, "Blasting studies in building stone quarry", Fathima Granite, Ernakulam district, Kerala, March-April 2018, 1,77,000.00
17. Prof. V.R. Sastry, "Vibration Test on PVIP Aqueduct at ch.5400 of Paipra MD in Mulavoor village, Kothamangalam Tq" Mr.Shareef, quarry Owner
- Solders for Soldering Applications at ABB Limited, Rs. 14 ,00,000, June 2017, (completed)
4. Dr. Udaya Bhat K: Excessive Slag formation, Lamina Foundries, Nitte, Rs. 40,120/-, July 2017, (completed)
5. Dr. Udaya Bhat K: Analysis of coatings for Aluminum extrusions, CPWD, NITK, August 2017, Rs.54,120/= (completed)
6. Dr. Subray Hegde: Failure of STG7 Steam Turbine Blades – Preliminary Report, MRPL, October 2017, Rs.97,940/= (completed)
7. Dr. Subray Hegde: Rail Fracture Analysis, KRCL, November 2017, Technical Outreach Activity Completed.
8. Dr. Udaya Bhat K: Development of quality assurance, SKF Boiler's & Driers, Moodabidri, December 2017, Rs. 80,000/=, (completed)
9. Dr. Subray Hegde: Inclusion Analysis of STG Steam Turbine Blade, Rs. 2,98,500/=, January 2018, (On going).
10. Dr. Subray Hegde: Failure of DCU Heater Tubes, MRPL, 2018, Rs. 3,65,800 (On going).
11. Dr. Subray Hegde: Failure of K-Type Thermocouples, MRPL, 2018, Rs.4,07,100/=, (On going).
12. Dr. Subray Hegde: Failure of DCU Tube Anchor, MRPL, 2018, Rs.3,65,800/= (On going).
13. Dr. Subray Hegde: High Temperature Hydrogen Cracking of Distillation Vessel, MRPL, 2018, Rs. 3,00,900/= (On going).
14. Dr. Subray Hegde: Failure of Cooling Tower Pump Shaft, MRPL, 2018, Rs. 3,89,400/= (On going).
15. Dr. Subray Hegde: Failure of Cooling Pump Impeller, MRPL, 2018, Rs.4,54,300/= (On going).

**DEPARTMENT OF
METALLURGICAL & MATERIALS
ENGINEERING**

1. Dr. Udaya Bhat K: Failure Analysis of GOHDS stripper, MRPL, Rs.85,000/=, April 2017 (completed)
2. Dr. Udaya Bhat K: Failure Analysis of SS 202 steam pipes, SKF Boiler's & Driers, Moodabidri, Rs.69,000/=, June 2017, (completed)
3. Dr. K.N.Prabhu: Comparative Study of Wetting Behavior and Mechanical properties of Pb-based and Pb-free

16.Dr. Subray Hegde: Cracking of
fractionator Column, MRPL, 2018,
Rs.3,65,800/= (On going).

15 HUMAN RESOURCE DEVELOPMENT

15.1 TRAINING STATUS

DEPARTMENT OF CHEMICAL ENGINEERING

1. Miss. Rajalakshmi K. (Reg. No.148041CY14F05) and Miss. Kavyashree S Keremane (Reg. No.165027CY16F03), (full-time Ph.D. students of Prof. A. V. Adhikari, Dept. of Chemistry, NITK) carried out research work in Nanyang Technological University, Singapore (from Jan 1st to June 1st, 2018) under “NTU- India Connect Research Internship Programme 2018” with Prof. Subodh Mhaisalkar, Energy Research Institute @NTU, Singapore.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

1. Dr. B. Nagavel, Department of E&C Engg, attended QIP Sponsored Short Term Course on Modern Antennas for Wireless Systems at IIT Kharagpur during 20-24 March, 2018.
2. Dr. Shyam Lal, Department of E&C Engg, attended workshop on Swarm & Evolutionary Algorithms: Theory & Algorithms at IIT Roorkee during 17-18 March, 2018.
3. Dr. Deepu Vijayaseenan, Department of E&C Engg, attended the workshop on Brain, Computation and Learning at IISc, Bangalore on 8-13 January 2018.
4. Dr. B. Nagavel, Department of E&C Engg, attended Short Term Course on Design of Microwave Antennas for Wireless Communication Application at IIT Kharagpur during 21-26 August, 2017.
5. Dr. Aparna P., Department of E&C Engg, attended Short Term Course on Advanced DSP Design Techniques at IIT Kharagpur during 10-14 July, 2017.
6. Ms. Kalpana G. Bhat, Department of E&C Engg, attended Instruction

Enhancement Programme on Mixed Signal and RFIC Design at NIT Sikkim during 5-9 June, 2017.

7. Dr. Sumam David S., Department of E&C Engg, attended NIRF India Rankings 2017 function at Rashtrapathi Bhavan, New Delhi on 10th April 2017.
8. Dr. Krishnamoorthy K., Department of E&C Engg, attended CST Studio Suite – Workshop series 2017 at CST India Pvt. Ltd, Bangalore on 10th April 2017.
9. Mr. Sanjeeva Poojary, Department of E&C Engg, attended the Training on General Financial Rules 2017 and Public Procurement Under TEQIP on 2-3 February, 2018.

SCHOOL OF MANAGEMENT

1. First Deshpande Gopalakrishnan Symposium conducted by IIT Madras, Chennai on 28th-30th January, 2018 , Prof. K. B. Kiran.
2. Reach Where you aspire to- Leadership Training Programme conducted by All India Management Association (AIMA) from February 21-23, 2018, Jodhpur, Dr. Bijuna C. Mohan.
3. Specialized training programme for Women Professionals on “Reach Where You Aspire To: Leadership Training” organised by All India Management Association (AIMA) from 21 to 23 February, 2018 at Ranbika Palace, Jodhpur, Rajasthan , Dr. Dhishna P.
4. Ten days GIAN Course on “Comparative Literature” organised by Dr Punyashree Panda at the School of Humanities, Social Science & Management from 6-12-2017 to 16-12-2017 at Indian Institute of Technology Bhubaneswar, Dr. Dhishna P.

DEPARTMENT OF INFORMATION TECHNOLOGY

1. Prof. G. Ram Mohana Reddy attended Amdocs Sponsored 2-Day Industry Interaction (Faculty Enrichment Program), Pune, India, August 3-4, 2017.

2. Prof. G. Ram Mohana Reddy attended Deloitte Sponsored 1Day Bridge-Aligning Academia with Industry Analytics, Hyderabad, India, Feb. 24, 2018
3. Prof. G. Ram Mohana Reddy attended 4th IEEE Int. Conf. on Recent Trends in Information Technology (RAIT 2018), IIT(ISM) Dhanbad, March 15-17, 2018.
4. Prof. Ananthanarayana V S attended General Financial Rules 2017 & Public Procurement organized by NITK on 2-3 Feb. 2018
5. Prof. Ananthanarayana V S attended Workshop on Curriculum organized by NITK on 10 March 2018.

PLACEMENT OF STAFF FOR ACADEMIC EXCELLENCE

Department Of Computer Engineering

1. Dr. Annappa Invited as a Visiting expert to Universite des Mascareignes Mauritius during 19th May to 18th June 2017.
2. Dr. Mohit P. Tahiliani Selected as a Mentor for Google Summer of Code (GSoC) from ns-3 organization (30th May 2017 to 21st Aug 2017)
3. Dr. K. Chandrasekaran As CVO of NITK organized a one week "Vigilance Awareness Week" during 30th Oct to 4th Nov 2017
4. Dr. K. Chandrasekaran delivered an invited talk/ tutorial in the International Conference KMO 2017 titled "Knowledge Management in the context of Pervasive and Mobile Computing".
5. Dr. Mohit P. Tahiliani Invited to participate in "Intel India Colloquium" at Bangalore 9th October 2017
6. Dr. Mohit P. Tahiliani Delivered a talk on "Need for Speed: Minimize the Impact of Bufferbloat in Home Broadband Internet" at Lawrence Livermore National Laboratory 12th October 2017
7. Dr. Mohit P. Tahiliani invited by Google Summer of Code to participate in GSoC Mentor Summit at Google Campus Sunnyvale California from 13th – 15th October 2017.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

1. Dr. Sumam David, Department of E&C Engg., Branch Counsellor of the IEEE student branch @ IEEE Annual General Body Meeting Bangalore.
2. Dr. Sumam David, Department of E&C Engg., Professor in charge of Analytics, Accreditation & Ranking.
3. Dr. Ramesh Kini M and Dr. Ashvini Chaturvedi, Department of E&C Engg, visited Govt. Engg. College, Jhalawar, Rajasthan to participate in twinning activities during 7 -14 February, 2018.
4. Dr. U. Shripathi Acharya, Dr. Ramesh Kini M., Dr. Laxminidhi T., Dr. Ashwini Chaturvedi and Dr. Shyamlal visited Govt. Engg. College, Jhalawar, Rajasthan to participate in twinning activities during 11-16, September 2017.
5. Dr. U Shripathi Acharya, Department of E&C Engg, appointed as external member, Department Curriculum Committee in E&C Engg. MIT Manipal, 2017.
6. Dr. U Shripathi Acharya, Dr. T Laxminidhi, Dr. Ramesh Kini and Dr. Ashwini Chaturvedi, Department of E&C Engg, Nominated as Nodal officers for the proper planning, co-ordination, implementation, monitoring and evaluation of TEQIP-III activities in NITK
7. Dr. U Shripathi Acharya, Department of E&C Engg, visited NPIU, Noida for Orientation Workshop, on 25th July, 2017.

8. Dr. Aparna P., Department of E&C Engg, Chaired a Session on Computational Applications in the XIV Control Instrumentation System Conference CISCON-2017 held on 3 - 4 November 2017 at Dept. of Instrumentation and Control Engg, MIT Manipal
9. Dr. Aparna P., Department of E&C Engg, Delivered a Keynote on Role of Embedded Systems in Instrumentation in the XIV Control Instrumentation System Conference CISCON-2017 held on 3 - 4 November 2017 at Dept. of Instrumentation and Control Engg, MIT Manipal.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

1. Gururaj S Punekar Invited talk of 3 Hrs in management Development program for KIOCL personnel on "Strategy Electrical"
2. Gururaj Punekar KOICL Mangalore extended an invitation for a training session "Electrical Safety" at their premises for their technical personnel.
3. Gururaj S Punekar, The Institute of Marine Engineers Mangalore, requested for a guest lecture on "Spectacular Lightning".

DEPARTMENT OF MECHANICAL ENGINEERING

Arumuga Perumal D, Innovative Technological Research (Thermal Engineering) & Dedicated Teaching Professional Award

DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

1. Dr. A. O. Surendranathan, 15-9-2017: Conferred the Engineers' Day Honour-2017 by The Institution of Engineers (India), Mangaluru Local Centre, & Kodagu, Dakshina Kannada & Udupi Engineers' Association

2.28-12-2017: Marquis Who's Who selected for their official **2018 Albert Nelson Marquis Lifetime Achievement Award**

2. Dr. K. Narayan Prabhu, Selected for the National Metallurgists' Day (NMD) **Award - Metallurgist of the Year** in the Nonferrous Category. The award was presented on the 55th National Metallurgists' Day held on 14th November 2017 at BITS Pilani-Goa by Shri Chaudhary Birender Singh, Union Minister of Steel, Government of India. NMD award scheme is instituted by the Ministry of Steel, Government of India to honour technologists/scientists in recognition of their specific original contributions made in the fields of production/research made in the last 5 years and its impact on National Scenario.
3. Dr. S. Anandhan, Elected Fellow of the Institution of Engineers (India) from the 31st of August 2017.
4. Dr. Kumkum Banerjee, Selected for the award of Distinguished Woman in Engineering for the contribution and achievement in the field of Metallurgical Engineering on 3rd March 2018.

Placement Details Highlights

The year 2017-18 has been a very successful year for the Dept. of Training & Placement. We had reasonably very high percentage of Placements and Training slots.

Main Objectives:

To provide opportunities for,

1. Placement to all students of the final year B.Tech, M.Tech, MCA, MBA and M.Sc.
2. Training to all students to be covered during the 5th, 6th and 7th Semester vacations.
The compulsory training for B.Tech. Mining Engg. Students during the 5th and 6th Semester vacations.
3. Provide Counseling and facilitate development of Soft Skills and Personal Effectiveness to help students build a successful career.

Performance Overview:

1. A total of 256 Companies visited NITK Surathkal for Campus Recruitments.
2. 47 Companies visited NITK for Placement process for the first time.
3. 870 students were placed – 610 B.Techs, 161 M.Techs, 67 MCAs, 27 MBAs, 4 MSc (Chemistry) and 1 MSc (Physics)

PLACEMENT DETAIL 2017 – 18

Sl. No.	Name of the Company	Students placed	Pay Package (Rs. In Lakhs p.a.)	
			UG	PG
1	MICROSOFT, HYD	22	22.4	22.4
2	INTUIT, B'LORE	5	25.2	-
3	MYNTRA DESIGN, B'LORE	5	28	-
4	UBER INDIA SYSTEMS, B'LORE	1	36.6	-
5	ORACLE, B'LORE	15	22	22.5
6	BAJAJ AUTO, PUNE	5	7.8	8.2
7	ADOBE SYSTEMS, B'LORE	3	20.4	20.4
8	NETAPP, B'LORE	2	-	18
9	TEXAS INSTRUMENTS, B'LORE	10	16.6	18.8
10	SAMSUNG R&D, B'LORE	36	16	18
11	QUALCOMM, B'LORE	29	15.6	17.8
12	ARCESIUM INDIA, HYDRBD	2	31	-
13	DELL EMC, B'LORE	8	10.8	13.4
14	ALTISOURCE, B'LORE	4	10	10
15	MORGAN STANLEY, MUMBAI	3	16.2	16.8
16	HERO MOTOCORP, N DELHI	1	7	-
17	TESCO, B'LORE	5	15	15
18	G E INDIA, B'LORE	3	8.3	10
19	GOLDMAN SACHES, B'LORE	1	28	-
20	AMAZON, HYDRBD	4	15.5	16
21	FIDELITY, B'LORE	21	12.9	-
22	VE COMMERCIAL VEHICLES, M.P	3	5	-
23	SYMANTEC SOFTWARE, CHENNAI	1	12	12.5
24	ARISTA NETWORKS, B'LORE	2	13	-

25	RBS, MUMBAI	3	8	8
26	CITI BANK, MUMBAI	16	13.5	10
27	INFORMATICA, B'LORE	2	11.3	11.3
28	ZENDRIVE, B'LORE	0	18	18
29	RIVERBED TECH, B'LORE	5	9.7	9.7
30	CODE NATION, B'LORE	0	25	-
31	CYPRESS SEMICONDUCTOR, B'LORE	2	13.6	13.6
32	DIRECTI, MUMBAI	0	20.5	20.5
33	DEUTSCHE BANK, MUMBAI	4	12.1	-
34	MEDIATEK, B'LORE	7	-	10.8
35	CREDIT SUISSE, MUMBAI	3	11.4	-
36	THOROGOOD, B'LORE	2	11	11
37	ITTAM SYSTEMS, B'LORE	1	9.4	10.1
38	VISA INC, BANGALORE	5	18	-
39	PATH PARTNER, B'LORE	1	9	9
40	SANDVINE TECH, B'LORE	2	9.5	9.5
41	WALMART, B'LORE	0		
42	NEXT EDUCATION, B'LORE	0	10	10
43	J P MORGAN, MUMBAI	12	12	12
44	NVIDIA, PUNE	1	15.4	-
45	L & T MUMBAI	1	4.9	-
46	IBM, B'LORE	3	-	18
47	UGAM SOLUTIONS, B'LORE	5	7	-
48	KLA TENCORE S.W, CHENNAI	2	-	11.7
49	TARGET CORPN,B'LORE	9	12.7	12.7
50	RADISYS INDIA, B'LORE	3	10	10
51	WIPRO TECH, B'LORE	18	9	-
52	SOCIETE GENERALE ,B'LORE	4	12.3	-
53	TELSTRA INDIA,NOIDA	0	12	12
54	SAP LABS, B'LORE	1	10	10
55	TATA DIGITAL HEALTH,B'LORE	2	10	-
56	PHILIPS INNOVATION , B'LORE	0	6.5	7
57	CISCO, B'LORE	1	14.4	16
58	ARYAKA NETWORKS, B'LORE	2	-	7.5
59	FUTURES FIRST,B'LORE	2	9.2	-
60	MCAFEE S.W,B'LORE	4	10	10
61	INNOPLEXUS CONSULTING,BLR	0	10	-
62	TOSHIBA SOFTWARE,B'LORE	2	12	12.5
63	SMARTPIX WEB,B'LORE	0	19	19
64	AMADEUS S W,B'LORE	0	8.1	-
65	MARUTI SUZUKI, N.DELHI	3	6.4	7.4
66	NESTLE INDIA, MUMBAI	1	6.3	-
67	WELLS FARGO, B'LORE	10	8	-
68	ONE CONVERGENCE, HYDRBD	3	-	6.5
69	MU-SIGMA, B'LORE	4	8.3	-
70	TREDENCE ANALYTICS, B'LORE	4	6.5	-

71	GRAPHENE HEALTHCARE, BLR	7	8.5	8.5
72	Z S ASSOCIATES, PUNE	6	6.5	-
73	EXXONMOBIL, NOIDA	7	8.8	-
74	DELOITTE, HYDERABAD	22	6.7	-
75	CENTURYLINK, B'LORE	7	6	-
76	REDBUS, B'LORE	3	7.5	7.5
77	SHEROES, B'LORE	0	12	-
78	EXL SERVICES, B'LORE	9	6	3
79	TALLY SOLUTIONS, B'LORE	1	6	6
80	CAPGEMINI, B'LORE	8	6	6
81	INTELLECT DESIGN, B'LORE	0	5	4
82	L & T INFO, MUMBAI	1	9	-
83	WESTERN DIGITAL, B'LORE	1	15.2	17
84	42 GEARS, B'LORE	3	7	7
85	FINISAR CORPN, MUMBAI	0	10	10
86	L & T CONST, CHENNAI	32	5.1	5.4
87	ITRON, B'LORE	3	8	9
88	EXICOM TELE SYSTEMS, B'LORE	3	8	-
89	ACG WORLDWIDE, B'LORE	1	4.5	-
90	CGI INFORMATION, B'LORE	2	7.1	-
91	ATKINS INDIA, B'LORE	3	-	5.2
92	LATENT VIEW, HYD	3	5	5
93	i3 CONSULTING, NEW DELHI	4	7.5	7.5
94	QUANTIPHI ANALYTICS, MUMBAI	6	7	-
95	PLANET GANGES, B'LORE	0	6	6
96	DANONE GROUP, MUMBAI	1	10	-
97	HEXAGON, HYDRBD	11	5.5	5.5
98	BASE EDUCATIONAL, B'LORE	4	4.8	4.8
99	C-DOT, B'LORE	4	10.3	10.5
100	AXIS BANK, MUMBAI	10	8.1	-
101	MAQ SOFTWARE, B'LORE	1	7	7
102	BRIDGEi2i ANALYTICS, B'LORE	0	4.5	5
103	FIRST AMERICAN, B;LORE	0	7	7
104	TATA METALIKS, KOLKATA	0	7.5	-
105	NOKIA NETWORKS, B'LORE	5	-	7
106	JOHN DEERE, PUNE	5	6.5	-
107	AMDOCS, PUNE	3	8	8
108	DQUOTIENT, BLORE	3	4	4
109	MCX, MUMBAI	3	5.5	6
110	ACCENTURE, B'LORE	12	8	8
111	INFOSYS, B'LORE	1	8	8
112	HONEYWELL, B'LORE	0	7	8
113	ROBERT BOSCH, B'LORE	2	5	-
114	CERNER CORP, B'LORE	4	-	5.5
115	HCL TECHNOLOGIES, CHENNAI	2	-	7.5
116	BPCL, MUMBAI	16	14.1	-
117	FIAT, PUNE	0	6	6

118	RELIANCE IND, MUMBAI	20	5.5	-
119	RELIANCE CORP, MUMBAI	4	5.5	-
120	UGAM SOLUTIONS, B'LORE	5	7	-
121	INTEL TECH, B'LORE	9	12.5	15.5
122	L & T MUMBAI	1	4.9	-
123	IMPACT ANALYTICS, B'LORE	5	5.5	-
124	ORBEES MEDICAL, B'LORE	2	6	-
125	DELTA POWER, B'LORE	2	5	7
126	INFINITI RESEARCH, B'LORE	6	-	5.5
127	MICROLAND,B'LORE	2	10	-
128	ABB INDIA, B'LORE	0	5.5	-
129	INDIAN NAVY, MUMBAI	*		
130	GGK TECH, CHENNAI	3	7	7
131	TEACH FOR INDIA, B'LORE	0	4	4
132	POWER2SME, GURGAON	1	7	7.5
133	VIRTUSA COMM, B'LORE	0	5	3.3
134	CLAIRVOLEX, GURGAON	2	-	6
135	SYSTEMANTICS, B'LORE	0	10	-
136	MERCEDES-BENZ, B'LORE	10	-	8
137	TOTAL ENVIRONMENT, B'LORE	2	4	5.5
138	IPETRONIC INC, B'LORE	2	5	5
139	TCS , B'LORE	25	3.3	3.5
140	HINDUSTAN COCACOLA, B'LORE	2	7.5	-
141	KPIT TECHNOLOGIES, PUNE	0	4.5	-
142	ASHOK LEYLAND, CHENNAI	1	4	-
143	HSBC TECH, B'LORE	0	12	-
144	TATA MOTORS, PUNE	10	5.6	-
145	SJAIN VENTURES, RAIPUR	0	3.5	-
146	ROBOSOFT , UDUPI	1	4	4
147	PLAYSIMPLE GAMES, B'LORE	0	16	16
148	ARJUNAA ACADEMY, B'LORE	2	3.6	4.5
149	MIHUP COMM, B'LORE	0	10	-
150	ORACLE OFSS, B'LORE	7	7.4	7.4
151	DR REDDYS LAB, HYDERABAD	4	7.1	-
152	SIFY TECHNOLOGIES, BANGALORE	2	6	-
153	APPLIED MATERIALS, B'LORE	3	-	9.5
154	COGNIZANT, CHENNAI	1	10.3	10.3
155	TIME EDUCATION, B'LORE	1	6	6
156	FLYTXT MOBILE, MUMBAI	0	11	12
157	DOLCERA ITES, HYDRBD	0	-	5.8
158	BANK OF AMERICA,HYDERABAD	6	6.5	-
159	VIGNAN'S FOUNDATION, A.P	2	-	4.8
160	VEDANTA GROUP, GOA	29	8	-
161	ATKINS INDIA, B'LORE	3	-	5.1
162	COMMSCOPE NETWORKS, B'LORE	1	8.1	8.9
163	IMS HEALTH, B'LORE	4	6	-
164	HOME CREDIT,GURGAON	2	7.2	-

165	MAHINDRA & MAHINDRA, MUMBAI	0	6.3	-
166	TEJAS NETWORKS, B'LORE	0	8	8.3
167	ADP, HYDRBD	4	5	5
168	TOPPER. COM, B'LORE	0	13	13
169	BHARAT FORGE, PUNE	3	4.5	-
170	TECHNIP INDIA, CHENNAI	4	4.8	4.8
171	AFCON INFRA, MUMBAI	4	-	6
172	BNY MELLON TECH, B'LORE	0	15	15
173	MURUGAPPA GROUP, CHENNAI	1	4.3	-
174	CARTESIAN CONSULTING, BLR	3	5	-
175	SMALLDAY TECH, B'LORE	2	4.3	4.3
176	THINK & LEARN BYJUS, B'LORE	7	8	-
177	OLA- BLR	0	11.5	-
178	AASAANJOBS, MUMBAI	2	8	8
179	CLEANMAX SOLAR, B'LORE	0	4	4
180	THERMO FISHER, B'LORE	1	7.5	7.5
181	RENAULT NISSAN, T.N	6	4.2	5.2
182	EPIROC (ATLAS), PUNE	1	6.5	-
183	SKYLARK DRONES, B'LORE	0	4.3	-
184	AVANTI FELLOWS, B'LORE	1	5	5
185	DRONAMAPS, B'LORE	0	4.2	7.2
186	THERMAX, PUNE	1	4.8	-
187	TATA HITACHI, B'LORE	1	6.3	-
188	TAVANT TECH, B'LORE	6	4.5	4.5
189	EVIVE SOFTWARE, B'LORE	3	5.5	5.5
190	IOCL, NEW DELHI	9	16.7	-
191	FEDERAL MOGUL, GURGAON	2	4	-
192	STARHOME MACH, B'LORE	0	6	6
193	STERLITE TECHNOLOGIES, CHENNAI	8	5	-
194	THE GATE ACADEMY	1	-	6.5
195	L &W BUILDING SOLUTIONS,BLR	0	5.4	-
196	SIGTUPLE, B'LORE	0	6	6
197	BOOKEVENTZ.COM, B'LORE	0	6	-
198	IRCON INTERNATIONAL, N.DELHI	5	9.3	-
199	SYSCLOUD, CHENNAI	2	-	5
200	ANGLO EASTERN SHIP, MUMBAI	0	18	-
201	PRESIDENCY UNIVERSITY, BLR	5	-	6
202	PARUL UNIVERSITY, M.P	0	-	5
203	HOSPIRA, CHENNAI	2	-	6.6
204	MIC COLLEGE OF TECH, A.P	1	-	3.8
205	THEMATH COMPANY,B'LORE	2	4.5	-
206	RAO EDU SOLUTIONS,MUMBAI	9	4	-
207	RAOADO, B'LORE	0	4.5	-
208	TATA SPONGE, ODISHA	2	5.1	-
209	RELIANCE JIO, MANGALORE	0	4.5	-
210	TOWER RESEARCH CAPITAL,	0	32	-

211	WESTLINE, AHMEDABAD	8	3.5	-
212	CONTINENTAL AG, B'LORE	1	6.5	-
213	ALPHA 9 MARINE SERVICES	0	5.5	-
214	GLAXOSMITHKLINE, RAJMNDRY	1	7.3	-
215	HPCL, MUMBAI	4	16.7	-
216	MPHASIS, B'LORE	7	4	-
217	CVRS EDUCATIONAL,	10	5	5
218	NARAYANA GROUP, B'LORE	20	5	5
219	VOLVO INDIA, B'LORE	2	5.5	-
220	APPRANIX, CHENNAI	1	4	4
221	MOOG INDIA, B'LORE	2	-	6
222	VBC FERRO ALLOYS,	17	3	3.6
223	LUMMUS TECH , NOIDA	0	5.5	5.5
224	SAPIENT,	1	-	4.5
225	TURBO ENERGY, CHENNAI	0	4.6	-
226	MYLAN LABS, B'LORE	0	2.75	-
227	VALUED EPISTEMICS	0	6	-
228	LUPIN LIMITED, MUMBAI	5	5.5	-
229	AVI NETWORKS	0	10	10
230	JAIN COLLEGE OF ENGG,	1	-	4.2
231	TEXTRON INDIA, B'LORE	1	4.5	-
232	E-LITMUS, B'LORE	*	3.6	-
233	SELEKT, MUMBAI	*	8	8
234	VMWARE, B'LORE	1	22	-
235	WABCO INDIA, CHENNAI	2	5.5	7
236	CG POWER, MUMBAI	1	-	8.4
237	EMPLOY WISE, GURUGRAM	*	8	-
238	BEL 'B'LORE	8	10	-
239	BOEING INDIA, B'LORE	4	8	-
240	GOOGLE INDIA	1	34.1	-
241	ACCEL TREE SOFTWARE	2	3	3
242	PRDC, B'LORE	*	-	4.5
243	SONATA SOFTWARE, B'LORE	*	4	4
244	ENGINEERS INDIA,	*	14	-
245	THE SANDUR MANGANESE,BELLARY	*	3.6	-
246	WIRTGEN INDIA, PUNE	*	4.5	-
247	JOHNSON CONTROLS,	*	5	-
248	ADAGE AUTOMATION,GOA	*	5	-
249	JSW STEEL, MUMBAI	*	5.5	-
250	VOYANTS SOLUTIONS	*	-	4.5
251	NESTAWAY TECH,	*	8	8
252	NMTRONICS INDIA, NOIDA	*	5.2	-
253	SHRIRAM PISTONS, N.DELHI	*	4.7	-
254	VISTEON CORPORATION, CHENNAI	*	7	-
255	AKS IT SERVICES, B'LORE	*	6	-
256	ALSHAYA INDIA, B'LORE	*	4.25	-

COMPANIES : 256	TOTAL JOBS : 940
NEW ORGANIZATIONS VISITED NITK IN 2017-18 : 47	
<i>* Final Results awaited</i>	

BRANCHWISE PLACEMENTS 2017-2018:

Branch	Total Eligible Students	Placed
UG (B.Tech)		
CIVIL	72	56
CHEMICAL	38	36
COMPUTER	94	94
E & C	94	85
E & E	89	80
IT	93	91
MECHANICAL	123	109
METALLURGY	28	26
MINING	37	33
Total (B.Tech)	668	610
PG (M.Tech)		
STRUCTURAL ENGG.	24	9
GEO TECH.	13	2
ENVIRONMENTAL	24	6
TRANSPORTATION SYSTEM	17	2
CONSTRUCTION TECH & MGMT	17	3
MARINE STRUCTURES	12	6
WATER RESOURCE ENGG & MGMT	9	1
REMOTE SENSING & GIS	16	1
INDUSTRIAL POLLUTION CONTROL	5	2
CHEMICAL PLANT DESIGN	5	1
INDUSTRIAL BIOTECHNOLOGY	10	5
COMPUTER SCIENCE & ENGG	19	18
INFORMATION SECURITY	22	22
VLSI	21	14
COMMUNICATION ENGG	17	10
POWER & ENERGY SYSTEM	19	6
INFORMATION TECHNOLOGY	15	13
THERMAL ENGG	13	6
MANUFACTURING ENGG	13	4
MECHATRONICS	17	10
DESIGN & PRECISION	15	6
PROCESS MET.	4	3
MATERIALS ENGG.	14	3
NANOSCIENCE AND NANOTECHONLOGY	3	0
COMPUTATIONAL MATHEMATICS	11	8
Total(M.Tech)	355	161
MCA	82	67
MBA	40	27
MSc(Chemistry)	10	4
MSc(Physics)	4	1
	1159	870

TOTAL NO OF PLACEMENTS – 870

(With 63 students getting placed in two companies)

PLACEMENT BREAKUP 2017-18					
Sl. No.	Name of Company	Date of visit	No. of Students Placed	Branchwise breakup	
				UG	PG
1	MICROSOFT, HYD	Aug. 03, 2017	22	CS 14, IT 8	-
2	INTUIT, B'LORE	Aug. 03, 2017	5	CS 05	-
3	MYNTRA DESIGN, B'LORE	Aug. 03, 2017	5	CS 03, IT 02	-
4	UBER INDIA SYSTEMS, B'LORE	Aug. 04, 2017	1	CS 01	-
5	ORACLE, B'LORE	Aug. 04, 2017	15	CS 08, IT 05, EC 01	CSE 01
6	BAJAJ AUTO, PUNE	Aug. 04, 2017	5	MECH 04, EEE 01	-
7	ADOBE SYSTEMS, B'LORE	Aug. 04, 2017	3	CS 02, IT 01	-
8	NETAPP, B'LORE	Aug. 05, 2017	2	-	CSE 01, IT 01
9	TEXAS INSTRUMENTS, B'LORE	Aug. 05, 2017	10	EC 06, EEE 02	VLSI 02
10	SAMSUNG R&D, B'LORE	Aug. 05, 2017	36	CS 09, IT 14, EC 13	-
11	QUALCOMM, B'LORE	Aug. 06, 2017	29	IT 02, EC 06, EEE 03	IT 02, VLSI 06, CMA 02, CSE 03, IS 03, CE 02
12	ARCESIUM INDIA, HYDRBD	Aug. 06, 2017	2	CS 01, IT 01	-
13	DELL R&D, B'LORE	Aug. 07, 2017	8	CS 01	CSE 01, IS 02, CMA 03, MCA 01
14	ALTISOURCE, B'LORE	Aug. 07, 2017	4	CS 01, IT 01, EC 02	-
15	MORGAN STANLEY, MUMBAI	Aug. 07, 2017	3	CS 01, IT 01	MCA 01
16	HERO MOTOCORP, N DELHI	Aug. 08, 2017	1	MECH 01	-
17	TESCO, B'LORE	Aug. 08, 2017	5	CS 01, IT 03	IT 01
18	G E INDIA, B'LORE	Aug. 08, 2017	3	-	TH 02, ML 01
19	GOLDMAN SACHES, B'LORE	Aug. 09, 2017	1	IT 01	-
20	AMAZON, HYDRBD	Aug. 09, 2017	4	CS 01, ME 01, MT 01	IS 01
21	FIDELITY, B'LORE	Aug. 10, 2017	21	CS 06, IT 09, EC 02, EEE 01, MET 02, CH 01	-
22	VE COMMERCIAL VEHICLES, M.P	Aug. 10, 2017	3	MECH 03	-
23	SYMANTEC SOFTWARE, CHENNAI	Aug. 11, 2017	1	-	CSE 01
24	ARISTA NETWORKS, B'LORE	Aug. 11, 2017	2	CS 01, IT 01	-
25	RBS, MUMBAI	Aug. 11, 2017	3	CS 01, EC 02	-

26	CITICORP SERVICES, MUMBAI	Aug. 11, 2017	16	CS 07, IT 02, EC 03, EEE 01	MCA 03
27	INFORMATICA, B'LORE	Aug. 12, 2017	2	-	MCA 02
28	ZENDRIVE, B'LORE	Aug. 12, 2017	0	-	-
29	RIVERBED TECH, B'LORE	Aug. 13, 2017	5	CS 01, IT 01	CSE 01, IS 02
30	CODE NATION, B'LORE	Aug. 13, 2017	0	-	-
31	CYPRESS SEMICONDUCTOR, B'LORE	Aug. 14, 2017	2	EEE 01	DP 01
32	DIRECTI, MUMBAI	Aug. 15, 2017	0	-	-
33	DEUTSCHE BANK, MUMBAI	Aug. 16, 2017	4	IT 01, EC 01, EEE 02	-
34	MEDIATEK, B'LORE	Aug. 16, 2017	7	-	VLSI 05, CE 02
35	CREDIT SUISSE, MUMBAI	Aug. 16, 2017	3	EC 02, EEE 01	-
36	THOROGOOD, B'LORE	Aug. 17, 2017	2	EEE 01, MECH 01	-
37	ITTAM SYSTEMS, B'LORE	Aug. 17, 2017	1	EC 01	-
38	VISA INC, BANGALORE	Aug. 17, 2017	5	CS 03, IT 02	-
39	PATH PARTNER, B'LORE	Aug. 17, 2017	1	EEE 01	-
40	SANDVINE TECH, B'LORE	Aug. 18, 2017	2	IT 01	CSE 01
41	WALMART, B'LORE	Aug. 18, 2017	0	-	-
42	NEXT EDUCATION, B'LORE	Aug. 18, 2017	0	-	-
43	J P MORGAN, MUMBAI	Aug. 18, 2017	12	CS 02, IT 05,	MCA 05
44	NVIDIA, PUNE	Aug. 19, 2017	1	EC 01	-
45	L & T MUMBAI	Aug. 19, 2017	1	MECH 01	
46	IBM, B'LORE	Aug. 19, 2017	3	-	CSE 02, IS 01
47	UGAM SOLUTIONS, B'LORE	Aug. 19, 2017	5	CS 03, EC 01, MECH 01	
48	KLA TENCORE S.W, CHENNAI	Aug. 19, 2017	2	-	MCA 02
49	TARGET CORPN, B'LORE	Aug. 19, 2017	9	CS 01, IT 01, EC03, EEE 02	MCA 02
50	RADISYS INDIA, B'LORE	Aug. 19, 2017	3	EC 02,	IS 01
51	WIPRO TECH, B'LORE	Aug. 20, 2017	18	CS 01, IT 01, EC 03, EEE 09, MECH 03, MN 01	-
52	SOCIETE GENERALE, B'LORE	Aug. 20, 2017	4	IT 02, EEE 02	
53	TELSTRA INDIA, NOIDA	Aug. 20, 2017	0	-	-
54	SAP LABS, B'LORE	Aug. 21, 2017	1	-	CSE 01
55	TATA DIGITAL HEALTH, B'LORE	Aug. 21, 2017	2	IT 01, EC 01	
56	PHILIPS INNOVATION , B'LORE	Aug. 22, 2017	0	-	-
57	CISCO, B'LORE	Aug. 22, 2017	1	-	CSE 01

58	ARYAKA NETWORKS, B'LORE	Aug. 22, 2017	2	-	IS 02
59	FUTURES FIRST, B'LORE	Aug. 22, 2017	2	EEE 01, MN 01	-
60	MCAFEE S.W, B'LORE	Aug. 23, 2017	4	CS 01, IT 01	MCA 02
61	INNOPLEXUS CONSULTING, B'LORE	Aug. 23, 2017	0	-	-
62	TOSHIBA SOFTWARE, B'LORE	Aug. 24, 2017	2	EC 02	
63	SMARTPRIX WEB, B'LORE	Aug. 25, 2017	0	-	-
64	AMADEUS S W, B'LORE	Aug. 26, 2017	0	-	-
65	MARUTI SUZUKI, N.DELHI	Aug. 26, 2017	3	MECH 01	MC 01, TH 01
66	NESTLE INDIA, MUMBAI	Aug. 28, 2017	1	MECH 01	
67	WELLS FARGO, CHENNAI	Aug. 28, 2017	10	IT 04, EC 03, EEE 01, MECH 01, CIVIL 01	
68	ONE CONVERGENCE, HYDRBD	Aug. 28, 2017	3	-	IT 01, MCA 02
69	MU-SIGMA, B'LORE	Aug. 28, 2017	4	CS 01, EEE 03	
70	TREDENCE ANALYTICS, B'LORE	Aug. 28, 2017	4	CS 01, CH 01, CIVIL 02	
71	GRAPHENE HEALTHCARE, BLR	Aug. 28, 2017	7	CS 03, IT 01, EC 01, EEE 02	
72	Z S ASSOCIATES, PUNE	Aug. 28, 2017	6	MECH 04, CIVIL 02	
73	EXXONMOBIL, NOIDA	Aug. 29, 2017	7	EEE 01, MECH 03, CH 01, CIVIL 01, MT 01	
74	DELOITTE, HYDERABAD	Aug. 29, 2017	22	IT 03, EC 03, EEE 04, CH 03, CIVIL 02, MECH 07	
75	CENTURYLINK, B'LORE	Aug. 30, 2017	7	CS 03, IT 01, EC 01, EEE 02	
76	REDBUS, B'LORE	Aug. 30, 2017	3	IT 01	IT 01, MCA 01
77	SHEROES, B'LORE	Aug. 30, 2017	0		
78	EXL SERVICES, B'LORE	Aug. 31, 2017	9	CIVIL 02, MECH 01, MN 01	MCA 05
79	TALLY SOLUTIONS, B'LORE	Aug. 31, 2017	1	CS 01	
80	CAPGEMINI, B'LORE	Sept. 01, 2017	8	CS 01, IT 01, EC 01, EEE 02, CIVIL 01, MECH 01, MN 01	
81	INTELLECT DESIGN, CHENNAI	Sept. 03, 2017	0	-	-

82	L & T INFO, MUMBAI	Sept. 03, 2017	1	EC 01	-
83	WESTERN DIGITAL, B'LORE	Sept. 03, 2017	1	CS 01	-
84	42 GEARS, B'LORE	Sept. 04, 2017	3	CS 02,	MCA 01
85	FINISAR CORPN, MUMBAI	Sept. 04, 2017	0	-	-
86	L & T CONST, CHENNAI	Sept. 05, 2017	32	CIVIL 15, EEE 02, MECH 04	ST 06, CTM 02, GT 01, PES 01, ENV 01
87	ITRON, B'LORE	Sept. 06, 2017	3	-	CSE 01, IS 02
88	EXICOM TELE SYSTEMS, B'LORE	Sept. 07, 2017	3	EC 01, EEE 02	
89	ACG WORLDWIDE, MUMBAI	Sept. 07, 2017	1	MECH 01	
90	CGI INFORMATION, B'LORE	Sept. 07, 2017	2	IT 01, MECH 01	
91	ATKINS INDIA, B'LORE	Sept. 07, 2017	3	-	GTE 01, ENV 01, ST 01
92	LATENT VIEW, HYD	Sept. 08, 2017	3	EC 01, EEE 01, MN 01	
93	i3 CONSULTING, NEW DELHI	Sept. 08, 2017	4	CIVIL 1, MECH 01, MN 02	-
94	QUANTIPHI ANALYTICS, MUMBAI	Sept. 08, 2017	6	EC 02, EEE 01, MECH 01, MN 01, MT 01	
95	PLANET GANGES, B'LORE	Sept. 09, 2017	0	-	-
96	DANONE GROUP, MUMBAI	Sept. 16, 2017	1	MECH 01	-
97	HEXAGON, HYDRBD	Sept. 18, 2017	11	CIVIL 04, MECH 04, EC 01, MN 01, MT 01	-
98	BASE EDUCATIONAL, B'LORE	Sept. 18, 2017	4	CHEM 01	MSC CHEM 04
99	C-DOT, B'LORE	Sept. 19, 2017	4	EC 03, IT 01	-
100	AXIS BANK, MUMBAI	Sept. 19, 2017	10	CIVIL 02, CHEM 02, MECH 02, EC 01, IT 01, MN 02	-
101	MAQ SOFTWARE, B'LORE	Sept. 19, 2017	1	IT 01	-
102	BRIDGEi2i ANALYTICS, B'LORE	Sept. 20, 2017	0	-	-
103	FIRST AMERICAN, B'LORE	Sept. 20, 2017	0	-	-
104	TATA METALIKS, KOLKATA	Sept. 20, 2017	0	-	-
105	NOKIA NETWORKS, B'LORE	Sept. 20, 2017	5	-	MCA 04, IT 01
106	JOHN DEERE, PUNE	Sept. 21, 2017	5	MECH 03, IT 02	-
107	AMDOCS, PUNE	Sept. 22, 2017	3	EC 01	IT 02
108	DQUOTIENT, BLORE	Sept. 22, 2017	3	IT 01, MN 01	MCA 01

109	MCX, MUMBAI	Sept. 22, 2017	3	CS 01	IT 01, IS 01
110	ACCENTURE, B'LORE	Sept. 23, 2017	12	EEE 01	CMA 01, IT 02, CSE 01, ENV 02, IS 01, MC 01, DP 01, ML 01, CTM 01
111	INFOSYS, B'LORE	Sept. 24, 2017	1		IS 01
112	HONEYWELL, B'LORE	Sept. 25, 2017	0		
113	ROBERT BOSCH, B'LORE	Sept. 25, 2017	2	EEE 02	
114	CERNER CORP, B'LORE	Sept. 25, 2017	4		MCA 04
115	HCL TECHNOLOGIES, CHENNAI	Sept. 25, 2017	2	-	IS 02
116	BPCL, MUMBAI	Sept. 25, 2017	16	CHEM 06, CIVIL 04, CS 02, MECH 04	-
117	FIAT, PUNE	Sept. 25, 2017	0	-	-
118	RELIANCE IND, MUMBAI	Sept. 26, 2017	20	CHEM 10, MECH 05, EEE 04, MT 01	-
119	RELIANCE CORP, MUMBAI	Sept. 26, 2017	4	EC 02, EEE 01, CS 01	-
120	UGAM SOLUTIONS, B'LORE	Sept. 27, 2017	5	CS 03, EC 01, MECH 01	-
121	INTEL TECH, B'LORE	Sept. 27, 2017	9	EEE 01, EC 01	IT 02, IS 01, CS 01, CMA 01, CE 01, VLSI 01
122	L & T MUMBAI	Sept. 27, 2017	1	MECH 01	-
123	IMPACT ANALYTICS, B'LORE	Sept. 28, 2017	5	IT 01, MT 03, MECH 01	-
124	ORBEES MEDICAL, B'LORE	Oct. 04, 2017	2	CIVIL 01, MN 01	-
125	DELTA POWER, B'LORE	Oct. 04, 2017	2	EEE 01	PES 01
126	INFINITI RESEARCH, B'LORE	Oct. 06, 2017	6	-	MBA 06
127	MICROLAND, B'LORE	Oct. 06, 2017	2	MECH 02	-
128	ABB INDIA, B'LORE	Oct. 07, 2017	0	-	-
129	INDIAN NAVY, MUMBAI	Oct. 07, 2017	*	-	-
130	GGK TECH, CHENNAI	Oct. 07, 2017	3	IT 01, EEE 01	MCA 01
131	TEACH FOR INDIA, B'LORE	Oct. 10, 2017	0	-	-
132	POWER2SME, GURGAON	Oct. 10, 2017	1	-	MCA 01
133	VIRTUSA COMM, B'LORE	Oct. 11, 2017	0		
134	CLAIRVOLEX, GURGAON	Oct. 17, 2017	2	-	CE 02
135	SYSTEMANTICS, B'LORE	Oct. 19, 2017	0	-	-
136	MERCEDES-BENZ, B'LORE	Oct. 23, 2017	10		MC 05, PES 03, CSE 01, TH 01
137	TOTAL ENVIRONMENT, B'LORE	Oct. 24, 2017	2	CIVIL 01, MN 01	ST 01
138	IPETRONIC INC, B'LORE	Oct. 24, 2017	2		MCA 02

139	TCS , B'LORE	Oct. 25, 2017	25	CIVIL 03, CHEM 01, EEE 04, EC 01, IT 01, MN 01	MCA 12, CMA 01, DP 01
140	HINDUSTAN COCACOLA, B'LORE	Oct. 26, 2017	2	MECH 02	-
141	KPIT TECHNOLOGIES, PUNE	Oct. 27, 2017	0	-	-
142	ASHOK LEYLAND, CHENNAI	Oct. 27, 2017	1	MECH 01	-
143	HSBC TECH, B'LORE	Oct. 30, 2017	0	-	-
144	TATA MOTORS, PUNE	Oct. 30, 2017	10	MECH 06, EEE 04	-
145	SJAIN VENTURES, RAIPUR	Oct. 30, 2017	0	-	-
146	ROBOSOFT , UDUPI	Oct. 30, 2017	1	IT 01	-
147	PLAYSIMPLE GAMES, B'LORE	Nov. 01,2017	0	-	--
148	ARJUNAA ACADEMY, B'LORE	Nov. 02,2017	2	CIVIL 01, MN 01	-
149	MIHUP COMM, B'LORE	Nov. 02,2017	0	-	-
150	ORACLE OFSS, B'LORE	Nov. 03,2017	7	MECH 02, EC 01	DP 01, CMA 01, CS 01, MCA 01
151	DR REDDYS LAB, HYDERABAD	Nov. 03,2017	4	CHEM 03, MECH 01	-
152	SIFY TECHNOLOGIES, BANGALORE	Nov. 03,2017	2	EC 02	-
153	APPLIED MATERIALS, B'LORE	Nov. 03,2017	3	-	DP 01, TH 01, MC 01
154	COGNIZANT, CHENNAI	Nov. 04,2017	1	IT 01	-
155	TIME EDUCATION, B'LORE	Nov. 07,2017	1	CIVIL 01	-
156	FLYTXT MOBILE, MUMBAI	Nov. 07,2017	0	-	-
157	DOLCERA ITES, HYDRBD	Nov. 08,2017	0	-	-
158	BANK OF AMERICA,HYDERABAD	Nov. 08,2017	6	CS 02, IT 02, EC 01, EEE 01	-
159	VIGNAN'S FOUNDATION, A.P	Nov. 09,2017	2	-	CE 02
160	VEDANTA GROUP, GOA	Nov. 10,2017	29	MECH 08, EEE 04, MN 09, CHEM 03, MT 03, EC 01, CIVIL 01	-
161	ATKINS INDIA, B'LORE	Nov. 11,2017	3	-	ST 01, GTE 01, ENV 01
162	COMMSCOPE NETWORKS, B'LORE	Nov. 11,2017	1	-	IS 01
163	IMS HEALTH, B'LORE	Nov. 13,2017	4	CHEM 01, MECH 01, MN 01, MT 01	-
164	HOME CREDIT,GURGAON	Nov. 14,2017	2	-	MCA 02

165	MAHINDRA & MAHINDRA, MUMBAI	Nov. 15,2017	0	-	-
166	TEJAS NETWORKS, B'LORE	Nov. 16,2017	0	-	-
167	ADP, HYDRBD	Nov. 16,2017	4	-	MCA 04
168	TOPPER. COM, B'LORE	Nov. 16,2017	0	-	-
169	BHARAT FORGE, PUNE	Nov. 18,2017	3	MT 03	-
170	TECHNIP INDIA, CHENNAI	Dec. 04, 2017	4	CIVIL 01	ST 01, MS 02
171	AFCON INFRA, MUMBAI	Dec. 14, 2017	4	-	MS 04
172	BNY MELLON TECH, B'LORE	Jan 03, 2018	0	-	-
173	MURUGAPPA GROUP, CHENNAI	Jan 03, 2018	1	MECH 01	-
174	CARTESIAN CONSULTING, BLR	Jan 04, 2018	3	CIVIL 01, EC 01, EEE 01	-
175	SMALLDAY TECH, B'LORE	Jan 05, 2018	2		MCA 02
176	THINK & LEARN BYJUS, B'LORE	Jan 05, 2018	7	CIVIL 02, IT 01, MT 01, EC 01, CHEM 01, MECH 01	-
177	OLA- BLR	Jan 08, 2018	0	-	-
178	AASAANJOBS, MUMBAI	Jan 09, 2018	2	CS 01	CSE 01
179	CLEANMAX SOLAR, B'LORE	Jan 10, 2018	0	-	-
180	THERMO FISHER, B'LORE	Jan 10, 2018	1	-	CE 01
181	RENAULT NISSAN, T.N	Jan 11, 2018	6	MECH 01	ME 02, MC 01, DP 01, PES 01
182	EPIROC (ATLAS), PUNE	Jan 11, 2018	1	MN 01	-
183	SKYLARK DRONES, B'LORE	Jan 11, 2018	0	-	-
184	AVANTI FELLOWS, B'LORE	Jan 16, 2018	1	CIVIL 01	-
185	DRONAMAPS, B'LORE	Jan 18, 2018	0	-	-
186	THERMAX, PUNE	Jan 18, 2018	1	MECH 01	-
187	TATA HITACHI	Jan 18, 2018	1	MECH 01	-
188	TAVANT TECH, B'LORE	Jan 19, 2018	6	EEE 01	MCA 05
189	EVIVE SOFTWARE, B'LORE	Jan 20, 2018	3	-	MBA 02, MCA 01
190	IOCL, NEW DELHI	Jan 22, 2018	9	EC 04, EEE 05	-
191	FEDERAL MOGUL, GURGAON	Jan 23, 2018	2	MECH 02	-
192	STARHOME MACH, B'LORE	Jan 23, 2018	0	-	-
193	STERLITE TECHNOLOGIES, CHENNAI	Jan 24, 2018	8	CHEM 03, MECH 04, EEE 01	-
194	THE GATE ACADEMY	Jan 25, 2018	1	-	TSE 01
195	L &W BUILDING SOLUTIONS,BLR	Jan 27, 2018	0	-	-
196	SIGTUPLE, B'LORE	Jan 29, 2018	0	-	-

197	BOOKEVENTZ.COM, B'LORE	Jan 31, 2018	0	-	-
198	IRCON INTERNATIONAL, N.DELHI	Feb. 01, 2018	5	CV 04, EC 01	-
199	SYSLOUD, CHENNAI	Feb. 03, 2018	2	-	MCA 02
200	ANGLO EASTERN SHIP, MUMBAI	Feb. 01, 2018	*	-	-
201	PRESIDENCY UNIVERSITY, BLR	Feb. 05, 2018	5	-	MF 02, RS 01, TSE 01, ENV 01,
202	PARUL UNIVERSITY, M.P	Feb. 06, 2018	0		
203	HOSPIRA, CHENNAI	Feb. 09, 2018	2	-	IPC 01, CPD 01
204	MIC COLLEGE OF TECH, A.P	Feb. 09, 2018	1	-	DP 01
205	THEMATH COMPANY,B'LORE	Feb. 09, 2018	2	CHEM 01, MECH 01	-
206	RAO EDU SOLUTIONS,MUMBAI	Feb. 12, 2018	9	CHEM 02, CIVIL 01, EEE 01, MECH 01, MT 01, MIN 01	IS 01, MBA 01
207	RAOADO, B'LORE	Feb. 13, 2018	0	-	-
208	TATA SPONGE, ODISHA	Feb. 14, 2018	2	MECH 01, MT 01	-
209	RELIANCE JIO,	Feb. 26, 2018	0	-	-
210	TOWER RESEARCH CAPITAL,	Feb 16, 2018	0	-	-
211	WESTLINE, AHMEDABAD	Feb. 17, 2018	8	CIVIL 01, EEE 02, MECH 03, MT 01, MN 01	-
212	CONTINENTAL AG, B'LORE	Feb. 20, 2018	1	EEE 01	-
213	ALPHA 9 MARINE SERVICES	Feb. 20, 2018	0	-	-
214	GLAXOSMITHKLINE, RAJMNDRY	Feb. 21, 2018	1	MECH 01	-
215	HPCL, MUMBAI	Feb. 22, 2018	4	MECH 04	-
216	MPHASIS, B'LORE	Feb. 28, 2018	7	CIVIL 02, EC 02, EEE 01, MECH 01, MN 01	-
217	CVRS EDUCATIONAL,	Mar. 05, 2018	10	MN 01	MBA 05, IB 02, ML 01, IPC 01
218	NARAYANA GROUP, B'LORE	Mar. 08, 2018	20	CIVIL 04, MECH 01, CHEM 01, MT 02, MN 03	IB 03, TE 01, ENV 01, MSC (CY)03, MSC(PHY) 01
219	VOLVO INDIA, B'LORE	Mar. 08, 2018	2	MT 02	-
220	APPRANIX, CHENNAI	Mar. 09, 2018	1	EC 01	-

221	MOOG INDIA, B'LORE	Mar. 16, 2018	2	-	MC 01, DP 01
222	VBC FERRO ALLOYS,	Mar. 16, 2018	17	MT 04, MN 03	PM 03, MBA 07
223	LUMMUS TECH , NOIDA	Mar. 23, 2018	0		
224	SAPIENT,	Mar. 27, 2018	1	-	MCA 01
225	TURBO ENERGY, CHENNAI	April 04, 2018	0	-	
226	MYLAN LABS, B'LORE	April 07, 2018	0	-	
227	VALUED EPISTEMICS	April 07, 2018	0	-	
228	LUPIN LIMITED, MUMBAI	April 10, 2018	5	MECH 04, CHEM 01	-
229	AVI NETWORKS	April 10, 2018	0	-	-
230	JAIN COLLEGE OF ENGG,	April 11, 2018	1		WRE 01
231	TEXTRON INDIA, B'LORE	April 11, 2018	1	MECH 01	-
232	E-LITMUS, B'LORE	April 13, 2018	0	-	-
233	SELEKT, MUMBAI	April 14, 2018	0	-	-
234	VMWARE, B'LORE	April 16, 2018	1	IT 01	-
235	WABCO INDIA, CHENNAI	April 16, 2018	2	-	ME 01, MC 01
236	CG POWER, MUMBAI	April 17, 2018	1	-	PES 01
237	EMPLOY WISE	April 17, 2018	*		
238	BEL 'B'LORE	April 19, 2018	8	CIVIL 01, EC 01, MECH 04, CS 02	-
239	BOEING INDIA, B'LORE	April 24, 2018	4	MECH 03, CS 01	-
240	GOOGLE INDIA	April 24, 2018	1	CS 01	-
241	ACCEL TREE SOFTWARE	April 28, 2018	2	CS 01	MCA 01
242	PRDC	April 30, 2018	*		-
243	SONATA SOFTWARE, B'LORE	April 30, 2018	*		
244	ENGINEERS INDIA, NEW DELHI	May 02, 2018	*		-
245	THE SANDUR MANGANESE, BELLARY	May 02, 2018	*		-
246	WIRTGEN INDIA, PUNE	May 03, 2018	*		-
247	JOHNSON CONTROLS	May 04, 2018	*		-
248	ADAGE AUTOMATION, GOA	May 08, 2018	*		-
249	JSW STEEL, MUMBAI	May 09, 2018	*		-
250	VOYANTS SOLUTIONS	May 10, 2018	*	-	
251	NESTAWAY TECH	May 11, 2018	*		
252	NMTRONICS INDIA, NOIDA	May 11, 2018	*		-
253	SHRIRAM PISTONS, DELHI	May 12, 2018	*		-
254	VISTEON CORPORATION, CHENNAI	May 14, 2018	*		-
255	AKS IT SERVICES, B'LORE	May 16, 2018	*		-
256	ALSHAYA INDIA, B'LORE	May 19, 2018	*		-

Training Slots for the Academic Year 2017-18

Sl. No.	Branch	No. of Slots
01	Chemical Engineering	62
02	Civil Engineering	31
03	Computer Engineering	63
04	Electronics & Communication Engineering	50
05	Electrical & Electronics Engineering	73
06	Information Technology	58
07	Mechanical Engineering	117
08	Metallurgical & Material Engineering	53
09	Mining Engineering	82
	Total Number of Students	589

Number of Companies : 134	Number of Training Slots : 589
----------------------------------	---------------------------------------

17 SPECIAL INITIATIVES

17.1 Scholarships / Assistanceship

As per the guidelines of Govt. of India (MHRD) Merit and Merit cum Means Scholarship have been awarded to I B.Tech. students every year who have got 60% above marks in +2 exam and the same will be continued based on their performance in II, III & IV B.Tech. Examinations. In addition, based on performances at the semester Examinations scholarship have been awarded to the students of II, III and IV year B.Tech. Several other scholarship awarded by Central and State Govts., Endowments, Institution of Engineers etc., are enjoyed by the students. SC/ST students will be paid post-matric scholarship and facilities of Fee Concessions.

The Post Graduate students who have qualified with GATE are paid a sum of Rs.12,400/- as P.G. stipend per month. M.Tech. (Q.I.P.) Regular and (Q.I.P.) Poly are paid Rs.4,000/- per month.

Full-Time Ph.D. Research Scholars are paid institute scholarship @ Rs.25,000/-p.m for *I and II year and III, IV and V year* Rs. 28,000/- per month. Ph.D. QIP(R) students are paid Fellowship of Rs.9,000/- per month and a contingent grant of Rs.10,000/- per year.

17.2 MEMORANDUM OF UNDERSTANDING (MOUs)

1. Rambal India limited, Thiruporur, Tamil Nadu, 5th March 2018, 3 years
TEQIP
2. University of District of Columbia (UDC) school of Engineering and applied Science Washington, USA, 18 January 2018, 5 years
3. Internshala, 18th January 2018, 3 years
4. Gheorghe Asachi, Technical university of Lasi, Romania, under Erasmus + Programme, 9th January 2018
5. Networkers Home New Delhi, 6th December 2017, 1 year

6. Mangalore Refinery and Petrochemicals Ltd. (MRPL), 4 the December 2017, 10 years
7. IEEE Power and Energy Society Bangalore chapter, 25th October, 2017
8. AMD india Private limited (AMD India), 8th April 2017, 2 years
9. Infineon Technologies Asia Pacific Pte Ltd, 6th April, 2017, 5 years

17.4 Innovations & Technology Transfer

DEPARTMENT OF CIVIL ENGINEERING

INNOVATIONS:-Details of Innovation:- Isolated, characterized and Identified Iron Bacteria - Acidithiobacillus Ferroxidans BMSNITK17 (USA Genbank Accession Number - MG271840), Basavaraju Manu/Baskar Malwa

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

1. Dr. Shubhanga KN, Mr. Vikas Singh (M.Tech. Student). "Development of Power System Analysis packages in open-source software", SCILAB under FOSSEE, ICT, Government of India, Coordinated by, Department of Chemical Engg., IIT Bombay.

MECHANICAL ENGINEERING

1. Swirl Generator for Human Arterial Network (Patent filed), Prashantha B, Anish S
2. Dual fence with tapered trailing edge for turbine /compressor blade passage (Patent filed), Kiran K N, Anish S Multi material smart structure with controllable multi directional property
3. RohitRajpal, Arunkumar. M.P., Susheel Kumar, Gangadharan K V, patent filed
4. A Nerve Trimming Kit, Abhijith J Kamath (EE B tech), Gangdharan K V, Pruthviraj, KMC and CSD , Patent filed Ulnar Neuropathy

Device, Omei Mohan manyar, rsheshHarshenduGokani, RaghavendraSirigeriHanumesh, RakshithRathnakarKamath, Dr. K V Gangadharan & Dr. Vijay Desai

5. KMC & CSD, Patent filed

6. **Automated Illizarov Apparatus**, Dr. Vijay Desai, KMC, CSD patented filed

17.5 Concessions For SCs, STs, Handicapped Students

All SC/ST candidates are eligible for exemption of Tuition Fees as per the order of M.H.R.D., GOI, New Delhi.

17.6 SC/ST CELL

In order to promptly address the grievances of the employee/students belongs to SC/ST community and to monitor the implementation of reservation and maintenance of reservation roster/register, SC-ST Cell was established in the year 2006.

In the interest of the students, the Cell also coordinates Scholarship Schemes for the benefit of the students belonging to SCs/STs category.

- In 2017-2018 Ministry of Social Justice and Empowerment under the Central Sector Top Class Education Scholarship (TCES) Scheme provides scholarship for the top 23 first year B.Tech SC students and top 12 SC students from second, third and final year each, whose family income is below 4.5 lakh.

In 2017-2018, Ministry of Tribal Affairs under Central Sector Top Class Education Scholarship (TCES) scheme provides scholarship for B.Tech/M.Tech ST students who have registered online in the National Scholarship Portal and whose family income is below 4.5 lakhs. 5 ST students (Ministry of Tribal Affairs) from third and final year B.Tech are receiving TCSE scholarship.

- To cater the needs of academically weaker students, in 2017-2018, SC-ST Cell has arranged Special Coaching Classes for all theory subjects and Computer Programming Lab for first year B.Tech students belongs to SC/ST/OBCs, Minorities and PWDs category.

- SC-ST Cell has coordinated Ambedkar Jayanthi in the Institute on April 14th 2017. Shri P. Harishekar IPS, IG, Mangalore, was the Chief Guest of the function and Chief Guest delivered 2 hours and 45 minutes talk on various aspects of the society.

- To promote qualitative education in Engineering, following schemes are implemented for SC/ST students of the Institute whose family income from all sources doesn't exceed Rs.4.5 lakhs per annum.

- a) Book allowance-Rs.6000/- (Rs.3000/- per semester).
- b) Waiver of Hostel Fee (except caution deposit).
- c) Latest computer with full accessories limited to Rs.45000/- per student as one time assistance.
- d) Students Academic Performance Incentives (Rs.12,000-00 if CGPA is more than 6.5 and Rs.18,000-00 if CGPA is more than 8.0 in previous year).

Apart from the Scholarship schemes, SC-ST cell has organized many programs for the benefit of SC/ST students of this Institute. Following are the details of the program conducted during 2016-2017.

Following are the programs organised by SC/ST Cell for our Students.

Professional Skill Development Programme

Date: 12th to 15th August 2017

No. of Student Participated: 37

Topic Covered: Ice Breaking, Group Discussion, Counselling, Motivation, Personality Development, Communication Skill, Body Language, CV Building & Covering Letter, Time Management, Calculation Technique, Interview, Aptitude & Logical Reasoning,

Self Enrichment Programme

Date: 2nd to 4th December 2017

No. of Students Participated: 20

Topic Covered: Ice Breaking, Soft Skills, Personality Development, Stress Management, Importance of Communication Skills, SWOT Analysis, Body Language, Motivation, Confidence Building, Leadership Skills, Group Dynamics, Interpersonal Relation.

Faculty Workshop

Date: 2nd and 3rd March 2018

No. of Teaching /Non Teaching Staff Participated: 29

Topic : “Reservation Policy of Government of India”

Resource Person: Professor Rana

17.7 NSS (National Service Scheme)

The NSS unit of the NITK Surathkal (formerly KREC Surathkal) has been actively rendering its services to the backward areas and villagers of Dakshina Kannada district since its inception in this institute in 1964. The NSS unit organizes regular activities like, tree plantation, clean up of the hostels and NIT K Beach, organizes blood donation, medical, dental and eye camp for the villagers. It also involves in promoting literacy to villagers irrespective of their age, and enhances educational tools and, motivates primary school children of the schools located in various villages. The NSS unit of the institute was initially part of the Mysore University, Mangalore University and Vishvesvaraya Technological University. For the year 2010, the institute has already obtained permission from the Karnataka state

NSS unit to have NSS unit which is independent to NIT K Surathkal.

17.8 RIGHT TO INFORMATION ACT (RTI 2005)

The Right to Information Act, 2005 empowers citizens to get information from any 'public authority'. The Central Public Information Officer (CPIO) of a public authority plays pivotal role in making the right of a citizen to information a reality. The Act casts specific duties on him and makes him liable for penalty in case of default.

RIGHT TO INFORMATION UNDER THE ACT

A citizen has a right to seek such information from a public authority which is held by the public authority or which is held under its control. This right includes inspection of work, documents and records; taking notes, extracts or certified copies of documents or records; and taking certified samples of material held by the public authority or held under the control of the public authority. The Act gives the citizens a right to information at par with the Members of Parliament and the Members of State Legislatures. Right to Information Cell was established as per the MHRD letter No. F.19-31/2005-TS-III dated 20.09.2005.

Suo-Moto disclosures are uploaded on the NITK website under RTI section. These disclosures are mandatory and are crucial to ensure transparency and accountability. This would reduce the load of RTI Applications which are freely available to citizens. 72 RTI Applications were received during the year 2017-18 (from 01.04.2017 to 31.03.2018).

17.9 YOGA CENTRE HISTORY

Yoga club is a club which organizes all sorts of meditation methods like different yam or self discipline, niyam or discipline, Asanas or position, Bandha or Mudra, Pranayama or control of breath, pratyahar or determination, dharana or dedication, dhayan or meditation and Samadhi or deep meditation which help in concentration in study, helping in attaining happiness by removing all sorts of diseases, for the purity of external life and for internal purity by following regulation of purity of thoughts. It has been organizing yoga events from the last 15 years in NITK.

RECENT INITIATIVES

- We have planned to organize 6 batches in this year which is much more than last year in which only 3 batches were conducted in one year and previous years.
- We are also planning to conduct some special yoga practices for faculty members who are willing to join in large number. A large number of faculty members have enquired and wanted to join the yoga practices.
- We are planning to attract more number of B.TECH students by increasing the size of organizing members and also inducting 1st years into organizing committee.
- We are trying to make people aware of yoga programs more and more by notices as well through personal and group contacts.

MAJOR ACHIEVEMENTS

- 180 people have been enrolled in this semester in different batches which is very large as compared to previous year enrolments and about same number of students are likely to enroll in the next semester yoga practices.
- More than 60 girl students have enrolled for yoga practices this year and

are actively participating in almost all batches.

- Postgraduate students and Ph.D scholars have shown much more interest in practicing and learning yoga asanas and pranayams than undergraduate people.

17.10 TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME (TEQIP)

NITK has been consistently identified as one of the top performers in implementing the TEQIP project. Based on the good performance in TEQIP-I & TEQIP-II and on the merit & strength of our Institutional Development Proposal (IDP) for TEQIP-III, our Institute has been selected to participate in TEQIP-III with a total outlay of Rs. 700 lakhs.

TEQIP-III commenced with effect from 01-04-2017. Our Institute has been designated as Mentor Institute for Government Engineering College, Jhalawar, Rajasthan. A Memorandum of Understanding (MoU) with MHRD and agreement between NITK and Mentee Institute GEC Jhalawar have been signed on 7th July 2017.

Action Plans for every quarter of the year 2017-18 have been sent to NPIU covering various activities envisaged by NPIU. Details of these activities have been uploaded in Public Finance Management System (PFMS). All the payment transactions in TEQIP-III are regulated under this portal only.

Procurement

Budget allocated by NPIU for procurement of goods/equipments is Rs.350/-lakhs. Accordingly procurement activities initiated and till 31-03-2018 a sum of Rs. 49,46,867/- has been spent on this. Procurement of other equipment/software is under progress.

Academic Activities:

Twinning activities are under progress. A team of faculty members from the Department of E & C Engineering, Department of Physics, Department of Information Technology, Department of Computer Science and Engineering, Department of Mechanical Engineering, Department of Civil Engineering and School of Management have visited Mentee Institute - Government Engineering College, Jhalawar. During this visit faculty members engaged regular classes in which the fundamental principles of various engineering courses were emphasized. Faculty members also gave an overview of the scope of various engineering disciplines and the opportunities available in industry/R&D organization and academia. A visit to central facilities such as Hostels, Library, Sports Complex, Computer Centre was also conducted and extensive feedback on the improvements to be carried out in these departments was provided.

A team of Faculty members from Government Engineering College, Jhalawar have visited NITK Surathkal and had interactions with faculty members of various departments and visited central facilities like Central Library, Central Computer Centre, Placement Cell, R. E. office etc. They were given a guided tour of the entire Institute and were briefed about the good practices put in place in these Central Facilities.

A team of Faculty members, TEQIP officers, Principal and Chairperson BoG from GEC Jhalawar visited NITK in the month of January 2018, visited various departments, various activity centers, Central Facilities and interacted with the Faculty members, Heads of Sections and other concerned non-teaching staff.

Another team of Faculty members of GEC Jhalawar dealing with Procurement process under TEQIP-III visited NITK on 05-02-2018 and 06-02-2018 and studied the procurement

procedure such as preparation of Procurement Plan, Purchase procedures, drafting specifications etc. They visited various Laboratories and interacted with the concerned faculty members and others. Procurement plans for all engineering departments of GEC Jhalawar were prepared with the help of faculty members of NITK, Surathkal.

A 5 days short term course on "IPv4 Networking Fundamentals" had been organized in the department of Information Technology during 19th-23rd March, 2018 for the benefit of I.T. and C.S. students of GEC Jhalawar.

Improving Non-Cognitive skill of students

(i) Finishing School programme for the benefit of students had been organized as envisaged in the IDP and as per the guidelines issued by NPIU. The activity was carried out during October 3 - 15, 2017 and approximately 20 students participated in this exercise.

(ii) Induction Programme is one of the vital activities under Improve Students Learning head. Accordingly, Induction programme for the benefit of newly joined Ist year B. Tech students. (About 800 students) was organized during October 6 - 8 2017 and November 3 - 5, 2017.

(iii) Student Learning Assessment (SLA) for the students of Department of Electronics and Communication Engineering and Department of Information Technology was held during November 15 -16, 2017 in compliance with NPIU/MHRD norms. This exercise was carried out at Central Computer Centre. Approximately 440 students and the faculty members of the respective departments took part in this exercise.

Recruitment of Asst. Professors for TEQIP focus states:

Selection of Assistant Professors on contract to TEQIP-III institutions of focus states was a new additional activity introduced by the MHRD/NPIU in the project. With the cooperation from various departments, this exercise

was completed during December 11-12, 2017 at NITK.

Faculty and Staff Development:

During the project duration i.e. August 2017 to March 2020, the provision for budgetary estimate under Faculty and Staff Development and Motivation head for faculty members and non-teaching staff is as under:

(i) For faculty members of NITK to attend Training programmes/Conferences/Seminars/Workshops within India, a provision of Rs. 50,000/- per faculty has been made.

(ii) For non-teaching and supporting staff of NITK to attend Training programmes/Workshops within India a provision of Rs. 40,000/- per staff member has been made. (Both the above figures of Rs. 50,000/- and Rs. 40,000/- have been arrived at after study of the Institute norms for travel, accommodation and other miscellaneous expenses).

Students attending conference and internship in Industry:

(i) TEQIP-III provides for enhancement of Research & Development and Innovation among the students of UG, PG and Ph.D Scholars in the Institution. Following activities are permitted under this scheme:

Attending workshops, Technology exhibitions, publications by UG and PG (Regular) and M. Tech (by Research) and Ph.D Scholars attending conferences/presentation of research papers in National/ International conferences held **in India**.

Travelling expenses (travel by Train by III AC class)

Per diem @ Rs. 950/- (includes Boarding, lodging) per day.

Sundry expenses/allowances as per actual against cash memos.

Above expenditure will be subject to a **maximum limit of Rs. 18,000/-** per

student subject to the availability of TEQIP funds under particular account head. A student can avail this facility **only once** during the TEQIP-III phase. A total of **37 students** have availed this benefit during the year 2017-18.

(ii) It has been made mandatory that the UG students should undergo three internships in industry each spanning at least 4 weeks before completion of their UG programme, as per the guidelines issued by NPIU.

In accordance with the above mandatory clause of NPIU, UG students of this Institute are allowed financial support from TEQIP-III fund as permissible under sub-activity 2.2.a. of list of permissible and non-permissible expenditure published by NPIU.

(iii) In accordance with the provisions of instructions of NPIU, reimbursement of GATE examination Fee to the final year B. Tech students has been made available. A total of 127 students have availed this facility.

Expenditure up to 31-03-2018:

Description of activity	Amount spent in Rs.
Procurement	
Mentoring/Twinning System	5,41,036.00
Assistantship	
Research & Development	3,71,468.00
Travel expenses	2,92,795.00
Office Expenses	70,326.00
Salary to Staff	6,30,096.00
Graduate Employability	2,61,845.00
Improve Student Learning	10,68,558.00

Selection of Asst. Professors	5,44,501.00
Faculty and Staff Development	78,026.00
Total	90,15,067.00

18 INDUSTRY INSTITUTE INTERACTION

18.1 INDUSTRY INSTITUTE PARTNERSHIP CELL (I.I.P.CELL)

The IIP Cell at NITK, Surathkal is engaged in building Institute Industry Collaboration for mutual benefit. The Cell is headed by a faculty member of Associate Professor or above grade supported by a Literate Assistant. The faculty in-charge reports to Dean (P & D)/Director. IIP Cell is mainly involved in handling of Testing and Consultancy works of all the departments and arranging endowment lectures. The Institute Revenue Generation through Testing and Consultancy has been improving substantially. The total revenue through Testing & Consultancy works for the year 2017-18 is Rs. 1.30 (One Crores thirty Laks)

IP Cell has been encouraging industries in the local region to make use of the testing and experimental facilities of the Institute.

18.2 INDUSTRY INSTITUTE COLLABORATION

DEPARTMENT OF COMPUTER ENGINEERING

1. Dr. Santhi Thilagam was a Technical committee Member at International Conference on Technical Advancements in Computers and Communication on 10th & 11th April 2017, Tamil Nadu, India
2. Dr. Annappa was invited as a Visiting expert to Universite des Mascareignes Mauritius during 19th May to 18th June 2017.
3. Dr. Mohit P. Tahiliani Selected as a Mentor for Google Summer of Code (GSoC) from ns-3 organization (30th May 2017 to 21st Aug 2017)
4. Dr. K. Chandrasekaran as CVO of NITK organized a one week "Vigilance Awareness Week" during 30th Oct to 4th Nov 2017 (Newsletter copy attached).
5. Dr. K. Chandrasekaran Delivered an invited talk/ tutorial in the International Conference KMO 2017 titled "Knowledge Management in the

context of Pervasive and Mobile Computing".

6. Dr. Mohit P. Tahiliani Selected as a Mentor for Google Summer of Code (GSoC) from ns-3 organization (30th May 2017 to 21st Aug 2017)
7. Dr. Mohit P. Tahiliani Invited to participate in "Intel India Colloquium" at Bangalore 9th October 2017.
8. Dr. Mohit P. Tahiliani Delivered a talk on "Need for Speed: Minimize the Impact of Bufferbloat in Home Broadband Internet" at Lawrence Livermore National Laboratory 12th October 2017.
9. Dr. Mohit P. Tahiliani Selected as a Mentor at Google Campus Sunnyvale California from 13th – 15th October 2017. Funded by Google Summer of Code to participate in GSoC Mentor Summit

DEPARTMENT OF CHEMISTRY

NIIST – CSIR, Trivandrum and CUSAT, Kochi

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Texas Instruments India Ltd., DRDO, LRDE, ANRC, Boeing, Academic and Research., April 2017 to March 2018

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

1. KIOCL-Mangalore Training session on their premises on their request of "Electrical Safety" By G S Punekar 2 Hrs
2. KIOCL Management Development training a session "Electrical Strategy" by G S Punekar at NITK Premises as part of MDP of management Sciences-NITK 1.5 Hrs x2= 3 Hrs
3. OMPL-Mangalore Research collaboration from 2015-2017 leading to M.Tech-(Research) degree to an employee of OMPL. 2015- 2017

DEPARTMENT OF INFORMATION TECHNOLOGY

Siemens Research, Bangalore,
Academic Research – Jun-
Dec. 2017

**DEPARTMENT OF MECHANICAL
ENGINEERING**

1. Robert Bosch Bangalore, M Tech Project, 1 Year.
2. WABCO INDIA LTD, M Tech Project, 1 Year.
3. Robert Bosch Bangalore, M Tech Project, 1 Year.
4. Rambal India Pvt. Limited, Project Collaborator, 3 years.
5. Ashok Leyland Limited, Project Collaborator, 3 years.
6. Aryatechnocrats, Project Collaborator, 3 years.
7. Aditya Auto, Dept. of Heavy Industry sponsored project on Electrical Vehicle, 3 years.
8. Applied Materials, Project Collaborator, 1 year.
9. ONGC - MRPL, Consultancy support, 3 years.

**DEPARTMENT OF METALLURGICAL
& MATERIALS ENGINEERING**

- INDIRA GANDHI CENTRE FOR ATOMICRESEARCH, KALPAKKAM
- INDIAN INSTITUTE OF SCIENCE, BANGALORE
- NATIONAL AERONAUTICS LTD., BANGALORE
- HINDUSTAN AERONAUTICS LTD., BANGALORE
- JINDAL SOUTH WEST, VIJAYANAGAR
- INTERNATIONAL FEDERATION OF HEAT TREATMENT AND SURFACE ENGINEERING (IFHTSE), UK
- KENNAMETAL LTD., BANGALORE
- THERMET SOLUTIONS (P) LTD., BANGALORE
- TATA INSTITUTE OF FUNDAMENTAL RESEARCH, HYDERABAD
- IIT HYDERABAD

Foundry & Forging Division,
Hindustan Aeronautics
Limited Bangalore

Kerala Minerals & Metals Limited, Kollam, Kerala.	Internship	May To June 2017
Autokast Limited Kerala	Internship	May To June 2017
Steel & Industrial Forgings Limited(Sifl) Athani, Kerala.	Internship	May To June 2017
Visakhapatnam Steel Plant, Visakhapatnam	Internship	May To June 2017
Bhilai Steel Plant, Bhilai, Chattisgarh	Internship	May To June 2017
Saint Gobain India Pvt. Ltd., Chennai	Pg Project	July 2017 To April 2018

19.0 SIGNIFICANT ACHIEVEMENTS

19.01 Notable Achievements

DEPARTMENT OF CIVIL ENGINEERING

Achievements during 1st April 2017 to 31st March 2018

R. SHIVASHANKAR

- Reviewed papers for Intl. Journal of Pavement Research and Technology, Elsevier; Journal of computational engg and physical modeling; Journal of Institution of Engineers (India); Southeast Asian Geotechnical Journal, Geomechanics and Engineering Journal (Techno-press), Indian geotechnical conference 2017, GeoShanghai 2018 international conference etc.
- Reviewed PhD theses from VTU, JNTUH, JNTUA, NITC etc.
- Nominated as Technical Committee (TC 107 on laterites and lateritic soils) member of the Intl. Society of Soil Mechanics and Geotechnical Engg. for 2018-2021
- Appointed member of assessment committee of National Transportation Planning and Research Centre (NATPAC) at Trivandrum

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Achievements during 1st April 2017 to 31st March 2018

Dr. Shyam Lal received outstanding reviewer award for the prestigious journal i.e. "Biomedical Signal Processing and Control" Elsevier Publisher. February 2018.

IEEE Bangalore - Best Large student Branch Award for the year 2017 presented to NITK - Surathkal in recognition of thier outstanding contribution to the Bangalore section in the year 2017.

Best paper award for the paper titled "**A Novel Dual-Gate Nano-Scale InGaAs Transistor with modified Substrate Geometry**" by Baldeo Sharan Sharma and M. S. Bhat, in the IEEE International Conference on Innovations in Electronics, Signal Processing and Communication (ICIESC 2017), 6-7 April, 2017.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Achievements during 1st April 2017 to 31st March 2018

- Prof. K. Panduranga Vittal - Chairman, Institute of Engineers, Mangalore Chapter, 2016-18.
- Prof. K. Panduranga Vittal - Member, BOS, MCE, Hassan, 2016-17.
- Prof. K. Panduranga Vittal - Academic Auditor for EEE Departments of NIE – Mysore, 2017.
- Prof. K. Panduranga Vittal - Member of Standing Committee, formed under the chairmanship of Mrs. Sumam David, Prof. ECE to frame guidelines and monitor MHRD - HEFA funding in NITK.
- Dr. Nagendrappa H. - Received Best Research Paper Award in the IEEE-International Conference – ICSPACE 2017 held at Bangalore.
- E. Prasanthi and K. N. Shubhanga, "Modelling of Protection of Converter Systems against Faults in a DFIG-based WECS", Proceedings of International Conference on Innovations in Power and Advanced Computing Technologies, IPACT-2017 held at VIT University, Vellore,, INDIA, April 21st and 22nd 2017. This paper has won the best paper award.

DEPARTMENT OF INFORMATION TECHNOLOGY

Prof. G. Ram Mohana Reddy: AMD Best Research Project Award for M.Tech Thesis on Affective Video Content Analysis Using CNN, June 2017.

Dr. Sowmya Kamath S - Recipient of Early Career Research Award from

Department of Science and Technology (DST), Govt. of India in June 2017

Dr. Sowmya Kamath S - Participated in Innovation Exhibition 2018 and Interaction with Grassroots innovators at Rashtrapathi Bhawan on special invite (19th March, 2018)

Dr. Sowmya Kamath S - Innovative work titled "Predictive Analytics for Intelligent Healthcare Applications" was selected for participation in the Festival for Innovation and Entrepreneurship 2018 (FINE 2018), organized by The President's Secretariat in association with Department of Science & Technology/National Innovation Foundation -India (March 19-21, 2018).

DEPARTMENT OF MINING ENGINEERING

Notable Achievements: **Achievements**

“National Design Award- 2017 in Mining Engineering’ for Outstanding Contribution in the field of Engineering Design by National Design Research Forum (NDRF) of Institution of Engineers.

DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

Students Achievements:

1. Sudheer R. - **Best Poster Award** for the paper titled 'Heat Transfer Characteristics of Nanoparticle Dispersed Nitrate Salt-PCM for Thermal Energy Storage Applications' at the International Conference on Sustainable Energy & Environmental Challenges 2018 held at IISc Bangalore during 31st Dec 2017 to 3rd Jan 2018.
2. T. Baskaran - **Best Poster Award** – Structural Ceramics Poster Presentation on Int. Conference on EH-TACAG’17 during December 2017 at Indian Ceramic Society, Pune
3. Sangamesh - **Best Paper** for the paper titled 'Ballistic Impact Study on Jute –

Epoxy and Natural Rubber Sandwich Composites' in IMME’17 at NIT Trichy.

4. Preitish Crimson D'Silva, Gurudath, Abhilash Agnihotri, Dhananjay, Anirudha C. S., **Best Short Oral & Poster Presentation – 1st Prize** (Theme: Materials Science & Engineering), paper titled Failure Analysis of a Tongue Rail.

Special talk from Institute/Industries/R&D

1. Dr. Sameer Guduru, Post Doctoral Researcher Engineer, SATT & LP3, CNRS, Aix-Marseille Univ., Marseille, France, Topic: Laser Applications in Micro, 30-05-2017.
2. Mr. Devdas Bhat P., Doctoral student in Unite Materiaux et Transformations – Metallurgie Physique et Genie des Materiaux, Lille, France, Topic: Development of Magnesium Alloys for Biomedical Applications, 07-08-2017
3. Prof. Bikramjit Basu, Materials Research Centre, IISc., Bangalore, Topic: Additive Manufacturing of Implantable Biomaterials: A New Paradigm, 14-08-2017
4. Prof. B. S. Murthy, Professor & Head Dept. of Metallurgical & Materials Engg., Institute Professor, Girija & R. Muralidharan Institute Chair Professor, IIT, Madras, Topic: Excitement in Making and Probing Materials at Small Scale, 22-09-2017
5. Dr. Sumanth Shankar, Director, LMCRC, Dept. of Mechanical Engineering, McMaster University, Topic: Advances in Net Shaped Casting & Solidification Research at McMaster University, 26-09-2017
6. Prof. Brij Kumar Dhindaw, MGM Chair Professor, School of Minerals, Metallurgical & Materials Engineering, IIT, Bhubanewar, Topic: Recyclability of Aluminium Alloys, Twin Roll Casting and Nucleation Issues, 05-10-2017
7. Dr. R. Raghavan, Hindustan Zinc Ltd., Topic: Chemical Analysis in Non-

Ferrous Extractive Metallurgy & Extraction of Zinc Lead Cadmium and Silver, 23-10-2017.

8. Mr. Ullal Pranav Nayak
Alumnus of the Department
(M.Sc. in Materials Science under 'ERASMUSMUNDUSFAME' scheme in Univ. of Augsburg Germany & University of Averoio (Portugal), Topic: Effect of Single Point Forming on the Microstructure and Mechanical Properties of Aluminium and Steel, 24-10-2017.
9. Dr. Uday Chakkingal, Professor
Indian Institute of Technology, Madras, Topic: Improvement in Biomaterial Properties of MG Alloy by Severe Plastic Deformation, 22-01-2018
10. Mr. Surya Pratap Singh, Sr. Process Engineer Mineral Processing Department Central R&D Lab, Hindustan Zinc Ltd., (Vedanta Resources PLC), Udaipur, Rajasthan, Topic: Recovery of metals from low quality ore at HZL, 16-02-2018
11. Mr. Karthik Karkera, Manager R&D at HILTI, Topic: An overview of manufacturing processes at HILTI, Surat, Gujarat, 07-03-2018
12. Dr. M. P. Phaniraj, Brain Korea Asst. Professor, Dept. of Materials Science & Engineering, Seoul National University, Topic: Development of low carbon ultra high strength steel with nano-sized copper and carbide precipitates, 09-03-2018.
13. Dr. Samir Degan, President, NACE International, Houston, USA, Topic: NACE International & its mission across the globe to control corrosion issues 21-03-2018

Faculty achievements:

1. Dr. K.N. Prabhu receiving the Metallurgist of the Year Award from by Shri Chaudhary Birender Singh, Union Minister of Steel

1. Dr. Kumkum Banerjee receiving the award of "Distinguished Woman in Metallurgical Engineering" by Venus International Foundation, Chennai.

SCHOOL OF MANAGEMENT

Report on the Management Development Programme on Talent Management and Succession Planning

A Management Development Programme (MDP) on Talent Management and Succession Planning for Kudremukh Iron Ore Company Limited (KIOCL) was conducted by the School of Management, NITK Surathkal during 11th to 15th December 2017. In today's competitive and fast changing environment, both Business & HR leaders consider talent management to be one among their topmost priorities. It has been well-recognized that a robust talent strategy is required for organizations to achieve peak performance, be it for the present or the future. Hence, ensuring continuous flow of high quality talent has become part of the larger business agenda.

Hence the MDP was designed for the senior managers of KIOCL. 25 senior management personnel from the General Manager and the Deputy and Assistant General Manager cadres participated in the programme. The programme was designed to accommodate diverse topics ranging from Enhancing managerial success by leveraging alignment strategies, strategic analysis, disaster management, safety management, electrical engineering, remote health monitoring and control of systems, succession planning, leadership, talent management to integrating strategies with vision and mission of KIOCL. The MDP was conducted with the help of resource persons both within the Institute and from outside. The MDP was coordinated by Dr. Rashmi Uchil, Assistant Professor, School of Management. The programme was conducted on a full day basis for 5 days.

Summer University Program 2018

Indian Leg of International Summer University Program 2018 was organized

by School of Management (SoM), National Institute of Technology Karnataka, Surathkal (NITK) in collaboration with University of Applied Sciences Western Switzerland, School of Business and Engineering Vaud (HEIG-VD), Switzerland and Beijing Institute of Technology (BIT), China. The program was held during 9th February to 22nd February 2018.

Dr. S. Pavan Kumar from SoM, NITK and Prof Laurence Larghi from HEIG-VD, Switzerland were the coordinators for the event. Prof K. B. Kiran, Head, SoM had supervised the event and Prof. G. S. Dwarakish, Dean (*Planning and Development*), NITK was the chief guest for the function. Apart from 24 students from all the above three Universities Prof. Tianan Yang from BIT, China and Prof Zysman Eytan from HEIG-VD, Switzerland also took part in Summer University 2018.

DR. DHISHNA P RECEIVED THE VENUS INTERNATIONAL FOUNDATION AWARD OF “YOUNG WOMAN IN LANGUAGE STUDIES” for the contribution and achievement in the field of English Language 2017 organized by VIF, Centre for Women Empowerment at Chennai, Tamil Nadu India.

Dr. Suprabha K.R. received The Venus International Foundation award of “Young Woman in Management” for the contribution and achievement in the field of Finance 2018 organized by VIF, Centre for Women Empowerment at Chennai, Tamil Nadu India.

DEPARTMENT OF INFORMATION TECHNOLOGY

ACHIEVEMENTS DURING 1ST APRIL 2017 TO 31ST MARCH 2018

Prof. G. Ram Mohana Reddy: AMD Best Research Project Award for M.Tech Thesis on Affective Video Content Analysis Using CNN, June 2017.

Dr. Sowmya Kamath S - Recipient of Early Career Research Award from

Department of Science and Technology (DST), Govt. of India in June 2017

Dr. Sowmya Kamath S - Participated in Innovation Exhibition 2018 and Interaction with Grassroots innovators at Rashtrapathi Bhawan on special invite (19th March, 2018)

Dr. Sowmya Kamath S - Innovative work titled "Predictive Analytics for Intelligent Healthcare Applications" was selected for participation in the Festival for Innovation and Entrepreneurship 2018 (FINE 2018), organized by The President's Secretariat in association with Department of Science & Technology/National Innovation Foundation -India (March 19-21, 2018).

Addition(s) to Building Infrastructure

DEPARTMENT OF MECHANICAL ENGINEERING

4th, 5th And 6th Floors Have Been Completed And Occupied At The Existing Department Building.

DEPARTMENT OF COMPUTER ENGINEERING

New building for the department is being constructed.

Department of Physical Education & Sports

ACHIEVEMENTS:

1. Dasara Tournaments: Basketball (Men) District level Runners, TT (Men) – Runners-Up.
2. BSA Kumar Inter collegiate Basketball tournament conducted by yenepoya University – Runner-Up.
3. All India Inter NIT Athletics, Weight Lifting, Power Lifting and Body building Championship Held at MNIT Jaipur: Won Team Championship In Body Building and Mr. Prathamesh of I MTech was declared as Mr.NIT for the year, 2015-16.
4. All India Inter NIT Sports held at SVNIT Surat, Badminton, (Men)

- Second Runner-Up, Tennis, Runner-Up.
5. All India Inter NIT Sports held at NIT, Calicut, Basketball Men and Women teams were Second Runner-Ups.
 6. All India Inter NIT Sports held at NITK Surathkal during, 18th to 20th March, 2016 Institute Aquatics Men team won Team Championship, Aquatics Women team won team Championship and Hockey team won First place.
 7. In “REVELS” All India Inter Engineering Collegiate Tournaments organized by MIT, Manipal: Volleyball Women teams were Runners-Up.
 8. NITK Cup, 2015-16 Chess Tournament held at NITK Surathkal: Institute Men & Women Team were Winners.

20. ASSOCIATED CENTRES

20.1. National Institute Of Technology Karnataka (STEP)

NITK is equipped with a Science & Technology Entrepreneurs' Park (STEP) in a separate earmarked zone [20 acres land] of the vast complex of NITK. The major goals of the NITK-STEP is to create a healthy startup technology ventures through Business Incubation, capitalize on the intellectual base at the academia to develop competitive business units, to nurture and grow the spirit of Techno Entrepreneurship and Entrepreneurial Thinking through promotion of appropriate training programs and capacity building, to reach out to the young, unemployed youth in the region and improve their employability by imparting Technology-based skill development programs etc. STEP was formed as an independent registered society in the year 1994 by the erstwhile KREC. It became functional in 1998 by setting up its administrative and entrepreneurs' block along with other required infrastructure.

NITK- STEP has incubated so far about 44 incubatees (physical incubation), of which a few have established multi crores sales turnover companies employing hundreds of knowledge workers. A few of the innovators prompted have turned out to be outstanding ones bagging reputed, national and international level awards. Robosoft Technologies Pvt. Ltd. a unit which emerged out of NITK- STEP in 2000. Other innovations include 4 independent product developments cum testing units of M/s Omnesys Technologies (P) Ltd. Now part of Thomson Reuters managed by 4 incubatees (development center heads) moved out in October 2013. This technology unit offering financial software products to capital market was shifted to Mangalore for large-scale commercial operations. Remote control system for power tillers, and Mozziquit, mosquito trap, innovative import substitution product, Bacterial Colony

Counter, developed by Expert Vision Labs (P) Ltd., are some of the products innovated and produced with the expertise from NITK-STEP. Thus the innovations which emerged out of NITK-STEP show a deep link with the local requirements and utilizing local talent.

Prof. G. Srinikethan, Dept. of Chemical Engg. NITK has taken over the charge as Director i/c. NITK-STEP on 29.01.2018.

The Core Advisory Group of NITK-STEP was constituted from the Following members:

1. Prof. Suman David, Dept. of E&C Engg., NITK
2. Prof. N. Lakshman Nandagiri, Dept. of Applied Mechanics, NITK
3. Dr. Venkatesh Perumal, Dept. of E&E , Engg., NITK
4. Dr. Ashwini Chaturvedi , Dept. of E&C Engg., NITK
5. Dr. Jeny, Rajan, Dept. of Computer Engg., NITK
6. Dr. Hariprasad Dasari Dept. of Chemical Engg., NITK

The First meeting of the Core Advisory Group of NITK-STEP was held on 23.02.2018.

Training Programmes :-

1. Training Program on "Talent Management and Career Progression to the Executives of KIOCL Ltd. was conducted from 11th to 15th December 2017.
2. NITK-STEP & Dept. of Electrical & Electronics Engg. of NITK jointly proposed to conduct one week self-financed short term course on "Power Converter design "

Existing Entrepreneurs:

1. Expert Vision Labs Pvt. Ltd.
2. Mindstack Technologies
3. Kambala Solutions Pvt. Ltd.
4. Technisys
5. Serpro Consultations
6. ZENDX Technologies Pvt. Ltd. (Startup company)

Proposed :

1. Establishment of IPR Cell
2. Conduct of Certificate/Degree courses in association with NITK.

**20.2 CENTRE FOR CONTINUING
EDUCATION (C.C.E)**

Sl.No.	Title of the Course	Name of the Coordinator	Duration	No. of Participants	Type of the Programme
1	2	3	4	5	6
1	Workshop on 'Build & Fly Mini Quad Copter'	Dr. Pruthviraj U & Prof. K.V. Gangadharan	16-04-2017 (One day)	69	For faculty, Practicing Engineers, PG & UG students
2	Workshop on 'Open Source Network Experimentation (ONE-2017)	Dr. Mohit P. Tahiliani & Dr. B.R.Chandavarkar CSE Dept.	01-06-2017 to 03-06-2017	18	For UG, PG, Research Scholars & Faculty
3	PMGSY Pavements Module-I	Prof. A.U.Ravishankar Civil Engg. Dept.	22-05-2017 to 24-05-2017	25	For Engineers from various Divisions of Karnataka Government.
4	PMGSY Pavements Module-II	-do-	29-05-2017 to 30-05-2017	20	-do-
5	Repairs & maintenance of Buildings	Dr. B.B. Das Civil Engg. Dept.	19-06-2017 to 23-06-2017	29	For Engineers from various division of Karnataka Govt., sponsored by Engg. Staff College, KR.Sagara.
6	IoT and its Applications in Electrical Systems	Dr. A.Karthikeyan & Dr. P. Parthiban Asst. Professors E&E Department.	14-07-2017 to 15-07-2017	51	Faculty of Engineering & Diploma, Industrial Personals & students.
7	Water & Waste Water Treatment	Dr. Basavaraju Manu, Asst. Professor, Dept. of Civil Engg.	28-08-2017 to 01-09-2017	12	For Engineers from various division of Karnataka Govt., sponsored by Engg. Staff College, KR.Sagara.
8	Recent Trends in Highway Pavements & Design & Highway Geometrics	Dr. Suresha S.N. Asst. Professor Dept. of Civil Engg.	11-09-2017 to 15-09-2017	22	For Engineers from various division of Karnataka Govt., sponsored by Engg. Staff College, KR.Sagara.
9	Basics of Environmental Engineering	Prof. Hari Mahalingam & Dr. Vidya Shetty, Dept. of Chemical Engg.	20-03-2018 to 26-03-2018	21	Training program for MRPL Engineers
Total:				267	

QIP CENTRE ACTIVITY DETAILS

FOR THE YEAR 2017-2018

I) QIP (Engineering) Scheme : Details of students on role during 2017-18:

Ph.D Program				Master's Degree Program	
Pre Ph.D	I year	II year	III year	I year	II year
(2017-18 batch) 12	(2017-18 batch) 07	(2016-17 batch) 06	2014-15 batch = 02 2015-16 batch = 00	(2017-18 batch) Nil	2015-16 batch = 02 2016-17 batch = 02

II) QIP (poly) Scheme : Details of students on role during 2017-18:

Ph.D Program				Master's Degree Program	
Pre Ph.D	I year	II year	III year	I year	II year
(2017-18 batch) 01	(2017-18 batch) Nil	(2016-17 batch) Nil	2014-15 batch = Nil 2015-16 batch = Nil	(2017-18 batch) 04	2015-16 batch = 01 2016-17 batch = 04

20.3 Research & Development Centre For Clay Roofing Tiles, Bricks And Other Ceramic Products.

1 ACTIVITIES :

- Received many enquiries for renting the machinery for interlocking pavement and wall blocks. Attempts are on to sign MOU for the same.
- Talks are underway to strike understanding with granite quarry owners to transfer technology of making masonry soil blocks with quarry dust.
- The M.O.U. with M/s Integrated Blocks & Bricks, Mangalore for “Utilization of the production facility of R & D Centre for the manufacture of various cement based / concrete building products” completed successfully.
- One Ph.D work on “Strength of concrete subjected to high temperature” which is a part of BRNS Project is completed successfully using the furnace available.

Technology is available for transfer for the following products:

Sl. No.	Product Details	Technology Status
1.	Bricks	Ready
2.	Hollow Blocks	Ready
3.	Cavity Bricks	Ready
4.	Hollow Roof Block	Ready
5.	Roof Tiles	Ready

6.	Decorative Tiles	Ready
7.	Pavement Block	Ready
8.	Interlock Wall Block	Ready

3. Facilities at R & D Centre:

1. Muffle Furnace	16. Planetary Mixers
2. Pot Mill Racks	17. Hydraulic Press
3. Jaw Crusher	18. Mixing Tank with Scrap Blunger
4. Electronic Balance	19. Roto Pump
5. Moisture Meter	20. Pilot Level Kiln
6. Sieve Shaker	21. Hydraulically Operated Concrete Block Making machine with Triple Vibrator
7. Weighing Balance	22. Ram and Mould
8. Ball Mills	23. 10/7 CFT Concrete Mixer
9. Discharge Tank with Agitator	24. Wheel Borrows
10. Pilot Level Kiln	25. Hand Operated Concrete Block Making Machine With Moulds
11. Ferro Filter	26. Hydraulic Block Cutting Machine
12. Filter Press	27. Vibrating Earth Rammer
13. Diaphragm Pump	28. Soil Block Interlock wall Block making Machine
14. De-Airing Pug Mill	29. Screener
15. Granulator / Pulveriser	30. Pulveriser

4. Services Offered:

1. Technology development and transfer
2. Hands on training for entrepreneurs.
3. Providing processing facilities on rental basis to existing industrialists and new entrepreneurs.
4. Research and consultancy in establishing similar kind of facilities using different kinds of waste.
5. Undertake manufacture and supply of Bulk orders on custom designed corporate gifts, made from eco-friendly materials.
6. Manufacture & Sale of building products made from industrial wastes and conventional materials.

