



**National Institute of Technology Karnataka, Surathkal**  
Mangalore - 575 025, India



**Annual Report**  
2016 - 17

**NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA SURATHKAL  
MANGALORE - 575 025 INDIA**



# **ANNUAL REPORT 2016-17**

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# ANNUAL REPORT 2016-2017

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# NITK Surathkal – at a Glance

## GOVERNANCE

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

## TEAM NITK

13 Departments

01 School

247 highly qualified and dedicated faculty

172 committed supporting staff

5382 talented and motivated students

## LIST OF DEPARTMENTS

- Applied Mechanics & Hydraulics
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science & Engineering
- Electronics & Communication Engineering
- Electrical & Electronics Engineering
- Information Technology
- Mathematical & Computational Sciences
- Mechanical Engineering
- Metallurgical & Materials Engineering
- Mining Engineering
- Physics

## SCHOOLS

- School of Management

## ACADEMIC PROGRAMS

B.Tech. – 9 disciplines

M.Tech. – 25 Specializations

M.Tech. (Research) – All Specializations

MBA

MCA

M.Sc. (Chemistry)

M.Sc. (Physics)

Ph. D. – offered by all departments

All the Departments of the Institute are recognized QIP centers for admission of teachers of both Engineering colleges and Polytechnics for their post-graduate & doctoral studies.

## INTERDISCIPLINARY CENTERS OF EXCELLENCE

Disaster Risk Reduction

Innovation

Material Research

Sustainable Technologies

System Design (Virtual Instrumentation)

Wireless Sensor Networks

Renewable Energy Integrated Smart Grid Technologies

## ASSOCIATED CENTRES

Centre for Continuing Education, R&D center for - Clay, Roofing Tiles & Ceramic Products, Industry Institute Partnership Cell; NITK Science and Technology Entrepreneurs Park (NITK-STEP), IGNOU Study Centre.

## CAMPUS

295 acres of lush green beach-side campus located at Srinivasnagar, Surathkal Mangalore. Departments & facilities on Eastern and Western sides of NH-66 with connectivity through a 2-lane vehicular underpass.

Well connected by rail and road to the rest of country. Flights available to major Indian cities and International destinations.

## FACILITIES & SUPPORTS

150 + Classrooms, 140+ laboratories

12 hostel blocks for boys with 3708 seating capacity & 5 hostel blocks for girls with 1138 seating capacity consisting Mega Hostel for boys with 1512 single-seater rooms and New Ladies Hostel with 347 single-seater room. Internet connectivity (1Gbps, 155 Mbps, 6000 nodes) Central computer Center, Central Library, E-Library, On-line access to journals 1200-capacity Auditorium, 1800-capacity Open-air theatre, co-operatives stores, Post office, Banks, ATMs, Health Care Centre with many visiting specialist doctors, Yoga Centre, 3 Campus schools (Kannada & English Medium), Guest House, Food Court and Canteens, International standard Swimming – pool, Sports Grounds for cricket, hockey, football floodlit Courts for Basketball, Volley ball and Tennis, NCC – 2<sup>nd</sup> Karnataka Engineering Company, Surathkal Innovation Challenge (SIC), Student Internship Programme (SIP).

### **BUDGET (2016-17)**

Total Financial Outlay ₹ 143.60 Crores  
Internal Revenue Generated ₹ 42.39 Crores  
Consultancy & Testing Earnings ₹ 1.30 Crores  
Corpus Fund of more than ₹ 142.57 Crores

### **PUBLICATIONS (2016-17)**

International Journals – 513  
National Journals – 17  
International Conference – 375  
National Conference – 42

### **DOCTORAL OUTPUT**

2014-15: 60 candidates  
2015-16: 79 candidates  
2016-17: 59 candidates

Doctoral students on rolls –732

### **EXTRA AND CO-CURRICULAR ACTIVITIES**

More than 30 clubs, societies and professional body chapters are active conducting regular activities through elected leaders and representatives. 'INCIDENT' and "ENGINEER" are popular cultural and technical annual festivals. NITK has won various championship of Inter NIT Sports consecutively for the past several years.

### **TRAINING AND PLACEMENT**

NITK is ranked among the top institutions for student placements. During 2016-17 about

212 companies visited. UG placements 82%, and 35% PG students got placement through the campus selection. The department also facilities internships for students within India and overseas.

### **MOUs WITH FOREIGN COUNTRIES**

- 1) Korea Institute of Science and Technology, Korea (KIST), 13<sup>th</sup> March 2017
- 2) M/s Wolfram Research, Inc. USA (WRI), 16<sup>th</sup> September 2016
- 3) Sapience Consulting, a Texas Instruments University Program Partner, India, 30<sup>th</sup> August 2016
- 4) WABCO India Limited 19<sup>th</sup> April 2016
- 5) National Institute of Technology Tiruchirappalli, Tamil Nadu 5<sup>th</sup> April 2016

### **MOUs WITH OTHER UNIVERSITIES/ORGANIZATIONS**

- 1) Advanced Polymer Design and Development Research Laboratory (R&D Unit of CIPET) Bengaluru, 27<sup>th</sup> December 2016
- 2) IBM India Pvt. Ltd. Bangalore, 25<sup>th</sup> November 2016
- 3) University of California Berkeley Mechanical Engineering (Combustion Group) Berkeley, California 4<sup>th</sup> April 2016

### **TEQIP-II**

A sum of ₹2.50 crore was received under the scheme TEQIP-II for the year 2016-17. Also, additional funding ₹1.50 crore was received under "Modernization of NITs" on June 14<sup>th</sup>, 2016.

### **SCHOLARSHIPS & MEDALS**

Several well-known and prestigious scholarship (25) awards and medals (66) are on offer for students at all levels. This is in addition to all regular scholarships of Govt. of India and Other State Governments. SPARSH and several other scholarship opportunities.

# **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 5<sup>th</sup> 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  
Chairman
2. Education Secretary, Ministry of HRD, Government of India  
Member
3. The Chairperson of National Institute of Technology Karnataka, Surathkal  
Member
4. Director of National Institute of Technology Karnataka, Surathkal  
Member
5. Chairman, UGC  
Member
6. Chairman, All India Council for Technical Education  
Member
7. Director, General, Council for Scientific and Industrial Research  
Member
8. Secretary, Department of Bio-Technology, Government of India  
Member
9. Secretary, Department of Atomic Energy, Government of India  
Member
10. Secretary, Department of Information Technology, GOI  
Member
11. Secretary, Department of Space, Government of India  
Member
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 where the Institutes are located.
15. Financial Adviser, Ministry of HRD, Government of India  
Member
16. Joint Secretary (Technical)/Additional Secretary (Technical),  
Department of Higher Education, Ministry of HRD, GOI

**BOARD OF GOVERNORS**

1. Ms. Vanitha Narayanan ..... Chairperson  
Chairman  
IBM India Private Limited  
Embassy Golf Links Business Park  
Block A, Off Indiranagar  
Koramangala Intermediate Ring Road  
BENGALURU – 560 071.
2. Shri Shashi Prakash Goyal ..... Member  
Joint Secretary (T)  
Ministry of Human Resource Development  
Dept. of Higher Education, Technical Education Bureau  
122B-C, Shastri Bhavan  
NEW DELHI – 110 001.
3. Ms. Darshana M Dabral ..... Member  
Joint Secretary and Financial Advisor  
Ministry of Human Resource Development  
Dept. of Higher Education, Technical Education Bureau  
120-C, Shastri Bhawan  
NEW DELHI – 110 001.
4. Dr. Shanth Averahally Thimmaiah ..... Member  
Managing Director  
M/s. METAMORPHOSIS Project Consultants Private Limited  
“PRAKRUTI BHAVAN”, #200, 2<sup>nd</sup> Floor  
1<sup>st</sup> Cross, 40<sup>th</sup> Main, Behind Central Silk Board  
BTM Layout, 2<sup>nd</sup> Stage, BENGALURU – 560068.
5. Shri Mudda Kedarnath ..... Member  
Advisor – Aditya Birla Group  
#17, Shankar Nilaya  
8<sup>th</sup> Main , 18<sup>th</sup> Cross  
Upper Palace Orchard  
Sadashivnagar, BENGALURU – 560080.
6. Dr. (Ms.) Lalitha R Gowda ..... Member  
Former Chief Scientist, CSIR  
Central Food Technological Research Institute (CFTRI)  
Baylor, 125 Gange Road, 3<sup>rd</sup> Cross  
Kuvempunagar, MYSURU - 570 023.
7. (Ms.) Anju Chadha ..... Member  
Professor, Department of Biotechnology  
Indian Institute of Technology Madras  
CHENNARI - 600 036.
8. Prof. M. K. Nagaraj ..... Member  
Professor

Department of Applied Mechanics & Hydraulics  
NITK, SURATHKAL.

- |     |   |      |           |
|-----|---|------|-----------|
| 9.  | Dr. G. N. Kumar<br>Asst. Professor<br>Dept. of Mechanical Engg.<br>NITK, SURATHKAL. | .... | Member    |
| 10. | Prof. K. N. Lokesh<br>Director (In-charge)<br>NITK, SURATHKAL.                      | .... | Member    |
| 11. | Shri K. Ravindranath<br>Registrar<br>NITK, SURATHKAL.                               | .... | Secretary |

**FINANCE COMMITTEE**

- |    |   |      |             |
|----|---|------|-------------|
| 1. | Ms. Vanitha Narayanan<br>Chairman<br>IBM India Private Limited<br>Embassy Golf Links Business Park<br>Block A, Off Indiranagar<br>Koramangala Intermediate Ring Road<br>BENGALURU – 560 071.  | .... | Chairperson |
| 2. | Shri Shashi Prakash Goyal<br>Joint Secretary (T)<br>Ministry of Human Resource Development<br>Dept. of Higher Education, Technical Education Bureau<br>122B-C, Shastri Bhavan<br>NEW DELHI – 110 001.   | .... | Member      |
| 3. | Ms. Darshana M Dabral<br>Joint Secretary and Financial Advisor<br>Ministry of Human Resource Development<br>Dept. of Higher Education, Technical Education Bureau<br>120-C, Shastri Bhawan<br>NEW DELHI – 110 001.  | .... | Member      |
| 4. | Dr. Shanth Averahally Thimmaiah<br>Managing Director<br>M/s. METAMORPHOSIS Project Consultants Private Limited<br>“PRAKRUTI BHAVAN”, #200, 2 <sup>nd</sup> Floor<br>1 <sup>st</sup> Cross, 40 <sup>th</sup> Main, Behind Central Silk Board<br>BTM Layout, 2 <sup>nd</sup> Stage, BENGALURU – 560068. | .... | Member      |
| 5. | Prof. M. K. Nagaraj<br>Professor<br>Department of Applied Mechanics & Hydraulics<br>NITK, SURATHKAL.  | .... | Member      |

- |    |  |      |           |
|----|--|------|-----------|
| 6. | Prof. K. N. Lokesh<br>Director (In-charge)<br>NITK, SURATHKAL. | .... | Member    |
| 7. | Shri K. Ravindranath<br>Registrar<br>NITK, SURATHKAL.          | .... | Secretary |

### **BUILDING AND WORKS COMMITTEE**

- |   |   |  |                  |
|---|---|--|------------------|
| 1 | K.N. Lokesh Ph.D. (from 25.6.2016)<br>Director i/c  |  | Chairman         |
|   | Srinivasan Sundarrajan, Ph.D. (from 28.12.15 to 24.6.2016)<br>Director i/c<br>N.I.T.K.SURATHKAL   |  |                  |
| 2 | Shri. Sanjeev K Sharma<br>Director – NITs, Dept of Higher Education,<br>MHRD, GOI, Shastri Bhavan, New Delhi.                                 |  | Member           |
| 3 | Shri. K Uday<br>Principal Chief Architech, PW, P & IWTD<br>State PWD, K R Circle, Bengaluru – 560 001   |  | Member           |
| 4 | A U Ravi Shankar<br>Dean (P&D), NITK, Surathkal<br>Mangaluru – 575 025  |  | Member           |
| 5 | Shri M Seetarama Rao<br>Superintending Engineer (Civil), CPWD<br>Mysore Central circle, T Narasipura Road<br>Siddarthnagar, Mysuru – 570 011  |  | Member           |
| 6 | Sri S N Rai<br>Superintending Engineer (Ele).<br>CPWD, Bangalore Central Electrical Circle<br>Kendriya Sadana, Koramangal, Bengaluru - 560034 |  | Member           |
| 7 | Ravindranath<br>Registrar<br>NITK, Surathkal,<br>Post Srinivasnagar,<br>Mangalore-575 025   |  | Member Secretary |

### **OTHER COMMITTEES**

#### **SENATE**

- |   |          |
|---|----------|
| S.Sundarrajan, Ph.D. (from 29.12.15 to 24.6.2016) ... | Chairman |
| K N Lokesh, Ph.D. (from 25.6.2016)                    |          |

## Members

1. A. Chitharanjan Hegde, Ph.D	.....	Member
2. A. Kandaswamy, Ph.D	.....	Member
3. A. Mahesha, Ph.D	.....	Member
4. A. Nityananda Shetty, Ph.D	.....	Member
5. A. Vittal Hegde, Ph.D	.....	Member
6. A. H. Sequeira, Ph.D	.....	Member
7. A. O. Surendranathan, Ph.D	.....	Member
8. A. U. Ravi Shankar, Ph.D	.....	Member
9. A. V. Adhikari, Ph.D	.....	Member
10. Ananthanarayana V.S, Ph.D	.....	Member
11. B. Raj Mohan, Ph.D	.....	Member
12. B. Ramachandra Bhat, Ph.D	.....	Member
13. Ch. S.N. Murthy, Ph.D	.....	Member
14. D. Krishna Bhat, Ph.D	.....	Member
15. D. Venkat Reddy, Ph.D	.....	Member
16. D.V.R. Murthy, Ph.D	.....	Member
17. Dwarakish G.S., Ph.D	.....	Member
18. G. Ram Mohana Reddy, Ph.D	.....	Member
19. G. Srinikethan, Ph.D	.....	Member
20. G. C. Mohan Kumar, Ph.D	.....	Member
21. Gangadharan K.V, Ph.D.	.....	Member
22. Gopal Mugeraya, Ph.D	.....	Member
23. H. Suresh Hebbar, Ph.D	.....	Member
24. H. D. Shashikala, Ph.D	.....	Member
25. Jagannath Nayak, Ph.D	.....	Member
26. John D'Souza, Ph.D	.....	Member
27. K. B. Kiran, Ph.D	.....	Member
28. K. Chandrasekaran, Ph.D	.....	Member
29. K. K. Appu Kuttan, Ph.D	.....	Member
30. K. Narayan Prabhu, Ph.D	.....	Member
31. K. Panduranga Vittal, Ph.D	.....	Member
32. K. Rajendra Udupa, Ph.D	.....	Member
33. K. Swaminathan, Ph.D	.....	Member
34. K. S. Babu Narayan, Ph.D	.....	Member
35. Kasturi V. Bangera, Ph.D	.....	Member
36. Katta Venkataramana, Ph.D	.....	Member
37. Kiran G. Shirlal, Ph.D	.....	Member
38. M. Govinda Raj, Ph.D	.....	Member
39. M. B. Saidutta, Ph.D	.....	Member
40. M. C. Narasimhan, Ph.D	.....	Member
41. M. K. Nagaraj, Ph.D	.....	Member
42. M. S. Bhat, Ph.D	.....	Member
43. Muralidhar Kulkarni, Ph.D	.....	Member
44. Murulidhar N.N, Ph.D	.....	Member
45. N. K. Udayashankar, Ph.D	.....	Member
46. N. Lakshman, Ph.D	.....	Member
47. Narendranath S, Ph.D	.....	Member
48. P. Mohanan, Ph.D	.....	Member
49. Prasad Krishna, Ph.D	.....	Member
50. R. Shivashankar, Ph.D	.....	Member
51. Ravikiran Kadoli, Ph.D	.....	Member
52. S. Shrihari, Ph.D.	.....	Member

53.S. Sumam David, Ph.D	.....	Member
54.S. M. Hegde, Ph.D	.....	Member
55.S. M. Kulkarni, Ph.D	.....	Member
56.Santosh George, Ph.D	.....	Member
57.Sitaram Nayak, Ph.D	.....	Member
58.Srikantha S. Rao, Ph.D	.....	Member
59.Subba Rao , Ph.D	.....	Member
60.Subhas C.Yaragal, Ph.D	.....	Member
61.T. P. Ashok Babu, Ph.D	.....	Member
62.U. Sripati, Ph.D	.....	Member
63.Udaya Bhat K, Ph.D	.....	Member
64.Udayakumar R.Y. , Ph.D	.....	Member
65.V. Rama Sastry, Ph.D	.....	Member
66.Varghese George, Ph.D	.....	Member
67.Vijay H Desai, Ph.D	.....	Member
68.(Mrs.) Vinatha U, Ph.D	.....	Member
69.(Mrs.) P. Santhi Thilagam, Ph.D	.....	Member
70.P.G. Mohanan, Ph.D	.....	Member
71.Smt. Anusuya Chakari, Ph.D	.....	Member
72.Mr. B.R. Sthavishtha	.....	Spl. Invitee
73.Ms. Mahima R.	.....	Spl. Invitee
74.Dr. N. C. Shivaprakash	.....	External Member
75.Dr. (Ms.) Rama Govindarajan	.....	External Member
76.Dr. (Ms.) Haripriya Gundimeda	.....	External Member
77.Sri. K. Ravindranath	.....	Secretary

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

#### **Constitution:**

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

### **QUARTERS ALLOTMENT COMMITTEE**

1.	K N Lokesh, Director i/c, Ph.D.	President
2.	T P Ashok Babu, Ph.D.	Chairman
3.	B R Bhat, Ph.D., (BOG Member)	Member
4.	Kumar G N, Ph.D, (BOG Member)	Member
6.	Sri. K Ravindranath, Registrar	Member

7.	D N Gaonkar, Resident Engineer i/c	Member
8.	Sri. Rammohan Y, Dy. Registrar (A/cs)	Member
9.	K Narayana Prabhu, Professor, Met. & Mat. Engg.	Member
10.	Dr. (Mrs) P Santhi Thilagam, Associ. Professor, CSE	Member
11.	Sri. Monappa Mera, Assistant SG-1, A/c II	Member
12.	Suresha S N, Faculty In-charge (Estate Works) Member/Secretary	

### **INSTITUTE GRIEVANCE COMMITTEE**

1.	A Nithyananda Shetty, Ph.D., till 20.6.2016 A. C Hegde, Ph.D. from 21.6.2016	Chairman
2.	Sripathi U, Ph.D., Professor, Dept. of E&C Engg.	Member
3.	Satyanarayana, Ph.D., Asst. Professor, Dept. of Physics	Member
4.	Sam Johnson P, Ph.D., Dept. of MACS	Member
5.	Mrs. Yashavanthi, Asst. Executive Engineer Dept. of Computer Engg.	Member
6.	Vijaykumar Ghode., Sr. Scientific Officer, Central computer Centre	Member
7.	Gangamma S, Ph.D., Asst. Professor, Chemical Engg.	Member
8.	Mr. Soumen Karmakar, Asst. Registrar(Admn.)	Member

### **SECURITY COMMITTEE**

1.	Dean (Faculty Welfare)
2.	Dean (Planning & Development) i/c (Prof. V S Ananthanarayana)
3.	Registrar
4.	S S Kamath, Chairman, CCC
5.	A.C Hegde, Prof. i/c – Hostel Affairs,
6.	Resident Engineer
7.	Suresh S N,, FIC- E&W
8.	P sam Johnson, Faculty i/c-Security
9.	Sri. Y Ram Mohan, Dy. Registrar (A/cs)
10.	Mr. Arshad Khan, Students Council President
11.	Mr. Rahul M Rajesh, Joint Secretary, PG, Ph.D.
12.	Ms. Almas Pervin, Vice President, NITK Students Council
13.	Mrs. Varisha Ferhin, PG Girls Representative
14.	The Manager, KSS, MAnalore
15.	Representative, KSS
16.	Mr. Manohar Karanth, Security Officer

### **LIBRARY ADVISORY COMMITTEE**

1.	D V R Murthy, Ph.D. (till 15.6.2016) Ravikiran Kadoli, Ph.D. from 16.6.2016	Chairman
2.	Mrs. Anasuya C, Ph.D.	Secretary
3.	Amba Shetty, Ph.D.	Library
4.	Prasanna B D, Ph.D.	Member
4.	A C Hegde, Ph.D	Member
5.	Arun Kumar Thalla, Ph.D.	Member
6.	Jeny Rajan, Ph.D.	Member
7.	Nagendrappa H, Ph.D.	Member
8.	P Srihari, Ph.D.	Member

9.	Sowmya Kamath, Ph.D.	Member
10.	B R Shankar, Ph.D.	Member
11.	Anish S, Ph.D.	Member
12.	Shashi Bhushan Arya, Ph.D.	Member
13.	B M Kunar, Ph.D.	Member
14.	T K Shajahan, Ph.D.	Member
15.	Bijuna C Mohan, Ph.D.	Member
16.	Mr. Iranna M Shettar	Member

### **SPORTS ADVISORY COMMITTEE**

1.	Director	President
2.	Dean (S. W.)	Chairman
3.	Dean (F.W.)	Member
4.	Registrar	Member
5.	Dy. Registrar (A/cs.)	Member
6.	Hem Prasad Nath, PhD, SAS officer	Member
7.	Manoj, PhD.,SAS Officer	Member
8.	Resident Engineer	Member
9.	Faculty In-charge Hostel Affairs	Member
10.	N Lakshman, Ph.D	Member
11.	Jagannath Nayak, Ph.D.	Member
12.	B M Dodamani, Ph.D.	Member
12.	Aruna M, Ph.D.	Member
13.	Sam Johnson, Ph.D.	Member
14.	Kalpana Bhat	Member
15.	Ram Prasad Chowdhury, Ph.D.	Member
16.	Raviraj H Mulangi, Ph.D.	Member
17.	Mr Iranna Shetter, Library	Member
18.	Hari Prasad Dasari, Ph.D.	Member
19.	President Students' Council	Members
20.	Girls Representatives	Members
21.	R. C. Convener	Member
22.	All Captains	Member
23.	Asst. Physical Director Member/Secretary	

### **NITK HEALTH CARE COMMITTEE**

1.	Dean Faculty Welfare	Chairman
2.	Girls Hostel Warden	Member
3.	Professor Incharge Hostel Affairs	Member
4.	SC/ST Cell Liaison Officer	Member
5.	Faculty Representative	Member
6.	Staff representative	Member
7.	Women Representative (a) from Faculty (b) from staff	Member
8.	Deputy Registrar (A/C)	Member
9.	Supdt. Accts III	Member
10.	President Students Council	Member

- |     |                      |           |
|-----|----------------------|-----------|
| 11. | Girls Representative | Member    |
| 12. | Medical Officer      | Member    |
| 13. | Medical Officer      | Secretary |

**COMPLAINTS COMMITTEE**

- |    |  |           |
|----|--|-----------|
| 1. | Santi Thilagam, Ph.D. till 14.6.2016<br>Chairperson<br>Jayalekshmi B R, ph.D. from 15.6.2016 |           |
| 2. | C P Devatha, Ph.D.   | Member    |
| 3. | Aruna M, Ph.D.   | Member    |
| 4. | Yogeesh  | Member    |
| 5. | Parvathi   | Member    |
| 6. | Anasuya Chakari  | Member    |
| 7. | Manjula V Prasad,  | Secretary |

### **3 DEPARTMENTS AND SCHOOLS**

1. Applied Mechanics & Hydraulics	(AM)
2. Chemical Engineering	(CH)
3. Chemistry	(CY)
4. Civil Engineering	(CV)
5. Computer Engineering	(CO)
6. Electrical & Electronics Engineering	(EE)
7. Electronics & Communication Engineering	(EC)
8. Information Technology	(IT)
9. Mathematical & Computational Sciences	(MA)
10. Mechanical Engineering	(ME)
11. Metallurgical & Materials Engineering	(MT)
12. Mining Engineering	(MN)
13. Physics	(PH)

#### **SCHOOLS**

1. School of Management	(SM)
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## **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 Communication Engg
- 16 Chemical Plant Design
- 17 Industrial Pollution Control Engg.
- 18 Industrial Biotechnolgy
- 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**

<b>Sl. No.</b>	<b>Academic Year</b>	<b>Programmes</b>	<b>Admission Commenced on</b>	<b>Admission closed on</b>
1.	2016-17	B.Tech.	22.07.2016	26.07.2016
2.	2016-17	M.Tech.	18.07.2016	22.07.2016
	2016-17	M.Tech. by Research/Spon.	4.7.2016	11.7.2016
3.	2016-17	MCA	9.07.2015	28.07.2015
4.	2016-17	M.B.A.		
5.	2016-17	M.Sc. (Physics & Chemistry)	4.7.2016	11.7.2016
6.	2016-17 (July Session)	Ph.D.	4.7.2016	11.7.2016

## 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 3.8.2016 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 2016-17

### 6.1 The number of candidates admitted are as follows:

#### I. B.Tech.

1	Admission through JEE ( Main) Rank	678
2	G.O.I. Nominee- through Ministry of External Affairs (Education & Welfare)	10
3	DASA Scheme	108
<b>Total</b>		<b>796</b>

#### 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	448
2	Sponsored candidates	04
3	Admission under DASA Scheme	02
4	QIP candidates	06
5	L&T Sponsored Candidates	30
6	NAVY sponsored	02
<b>Total</b>		<b>492</b>

#### M.Tech. (By Research)

1	GATE qualified with Scholarship	11
2	Non Scholarship	07
<b>Total</b>		<b>18</b>

#### 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 92 candidates admitted were as follows:-

OP	46
OBC	25
SC	14
ST	07
<b>Total</b>	<b>92</b>

#### **IV M.B.A.:**

Selection of candidates were made on the basis of CAT 2015 among candidates applied to NITK, Surathkal, Group Discussion and interview. A total 48 candidates were admitted as follows:-

OP	31
OBC	07
SC	02
ST	08
<b>Total</b>	<b>48</b>

#### **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
<b>Total</b>	<b>25</b>

##### **ii M.Sc (Physics)**

OP	13
OBC	07
SC	04
ST	01
<b>Total</b>	<b>25</b>

#### **VI. Ph.D. Programme:**

OP	65
OBC	24
SC	14
ST	03
Sponsored	16

#### **External Registrants (Part Time) 28**

A total number of 825 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 2016-17.**

B.Tech I Year	SC			ST			OBC			DASA			MEA			GENERAL			TOTAL		
	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To
	Civil Engg	10	3	13	7	0	7	18	2	20	11	4	15	1	0	1	25	12	37	72	21
Mechanical Engg.	20	0	20	11	0	11	34	2	36	21	0	21	2	0	2	59	4	63	147	6	153
Electrical & Electronics Engg.	10	4	14	4	0	4	15	10	25	11	3	14	4	0	4	24	18	42	68	35	103
Electronics & Communication Engg.	11	3	14	6	0	6	21	1	22	14	4	18	0	1	1	33	12	45	85	21	106
Chemical Engg.	5	1	6	3	1	4	9	1	10	7	2	9	0	0	0	9	8	17	33	13	46
Metallurgical & Materials Engg.	5	1	6	1	3	4	9	2	11	0	0	0	0	0	0	12	7	19	27	13	40
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	19	5	24	13	3	16	0	2	2	30	11	41	79	25	104
Information Technology	10	3	13	1	3	4	18	9	27	9	3	12	0	0	0	37	7	44	75	25	100
<b>Total</b>	<b>88</b>	<b>18</b>	<b>106</b>	<b>42</b>	<b>9</b>	<b>51</b>	<b>150</b>	<b>32</b>	<b>182</b>	<b>86</b>	<b>19</b>	<b>105</b>	<b>7</b>	<b>3</b>	<b>10</b>	<b>242</b>	<b>80</b>	<b>322</b>	<b>615</b>	<b>161</b>	<b>776</b>

B.Tech II Year	SC			ST			OBC			DASA			MEA			ICCR			GENERAL			TOTAL		
	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To
	Civil Engg	14	0	14	5	1	6	8	5	13	0	0	0	0	0	0	30	10	40	78	19	97		
Mechanical Engg.	19	0	19	9	2	11	22	1	23	1	0	1	0	0	0	70	0	70	157	4	161			
Electrical & Electronics Engg.	10	3	13	6	0	6	13	1	14	0	1	1	0	1	1	34	13	47	81	24	105			
Electronics & Communication Engg.	11	2	13	4	3	7	13	2	15	1	0	1	0	0	0	34	13	47	83	25	108			
Chemical Engg.	4	1	5	4	0	4	7	1	8	0	0	0	0	0	0	9	11	20	35	14	49			
Metallurgical & Materials Engg.	3	3	6	3	1	4	0	0	0	0	0	0	0	0	0	9	7	16	26	11	37			
Mining Engg.	5	1	6	2	1	3	0	0	0	0	0	0	0	0	0	17	1	18	34	3	37			
Computer Engg.	10	4	14	5	1	6	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	2	12	0	0	0	0	0	0	33	13	46	68	36	104
<b>Total</b>	<b>85</b>	<b>19</b>	<b>104</b>	<b>41</b>	<b>12</b>	<b>53</b>	<b>160</b>	<b>33</b>	<b>15</b>	<b>100</b>	<b>3</b>	<b>1</b>	<b>4</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>274</b>	<b>76</b>	<b>350</b>	<b>648</b>	<b>157</b>	<b>805</b>

B.Tech III Year	SC			ST			OBC			DASA			MEA			GENERAL			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
Mechanical Engg.	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
<b>Total</b>	<b>82</b>	<b>27</b>	<b>109</b>	<b>45</b>	<b>9</b>	<b>54</b>	<b>156</b>	<b>41</b>	<b>197</b>	<b>72</b>	<b>29</b>	<b>101</b>	<b>4</b>	<b>1</b>	<b>5</b>	<b>266</b>	<b>90</b>	<b>356</b>	<b>625</b>	<b>197</b>	<b>822</b>

IV Year B.Tech.	SC			ST			OBC			DASA			MEA			GENERAL			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	6	1	7	17	5	22	8	5	13	1	0	1	32	5	37	77	17
Mechanical Engg.	19	1	20	9	0	9	37	1	38	17	0	17	1	0	1	68	1	69	151	3	154
Electrical & Electronics Engg.	14	0	14	4	2	6	24	3	27	7	4	11	0	1	1	32	14	46	81	24	105
Electronics & Communication Engg.	12	2	14	5	2	7	20	5	25	12	3	15	0	1	1	36	11	47	85	24	109
Chemical Engg.	6	1	7	3	0	3	7	2	9	4	4	8	0	0	0	19	3	22	39	10	49
Metallurgical & Materials Engg.	6	0	6	3	1	4	6	5	11	0	1	1	0	0	0	16	3	19	31	10	41
Mining Engg.	7	0	7	4	0	4	11	0	11	0	0	0	0	0	0	18	1	19	40	1	41
Computer Engg.	10	2	12	7	0	7	21	4	25	11	5	16	0	1	1	33	13	46	82	25	107

Information Technology	5	9	14	4	1	5	21	7	28	5	6	11	0	0	0	28	16	44	63	39	102
<b>TOTAL</b>	<b>92</b>	<b>16</b>	<b>108</b>	<b>45</b>	<b>7</b>	<b>52</b>	<b>164</b>	<b>32</b>	<b>196</b>	<b>64</b>	<b>28</b>	<b>92</b>	<b>2</b>	<b>3</b>	<b>5</b>	<b>282</b>	<b>67</b>	<b>349</b>	<b>649</b>	<b>153</b>	<b>802</b>

**M.Tech. Students Strength for the year 2016-17**

M.Tech (I Year)	SC			ST			OBC			QIP			DASA			Sponsored			GENERAL			TOTAL		
	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To
<b>CIVIL ENGG: - Structural Engg.</b>	4	0	4	2	0	2	3	3	6	1	0	1				0	0	0	9	3	12	19	6	25
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	11	3	14	18	7	25
Transportation Systems Engg.	3	0	3	0	0	0	3	3	6	0	1	1	0	0	1	0	1	7	6	13	14	10	24	
Construction Technology & Mgt.	4	0	4	0	0	0	7	0	7	0	1	1	0	0	26	3	29	6	5	11	43	9	52	
<b>APPLIED MECHANICS &amp; HYDRAULICS:-</b> Marine Structures	1	1	2	0	0	0	11	0	11	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	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	8	1	9	13	5	18		
<b>MECHANICAL ENGG: -</b> Thermal Engg.	1	0	1	1	0	1	6	0	6	0	0	0	0	0	0	0	0	2	1	3	10	1	11	
Mechatronics Engg.	3	1	4	1	0	1	4	1	5	0	0	0	0	0	1	0	1	11	3	14	20	5	25	
Manufacturing Engg.	2	0	2	1	0	1	4	0	4	1	1	2	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	7	0	7	15	0	15		
<b>ELECTRICAL &amp; ELECTRONICS ENGG:-</b> Power & Energy Systems	4	0	4	0	1	1	4	3	7	0	0	0	0	0	0	0	10	1	11	18	5	23		
<b>ELECTRONICS &amp; COMMUNICATION ENGG:-</b> VLSI Design	2	2	4	2	0	2	8	2	10	0	0	0	0	0	0	7	2	9	19	6	25			

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Communication Engg.	3	1	4	0	0	0	7	1	8	0	0	0	0	1	0	1	1	0	1	6	4	10	18	6	24
<b>CHEMICAL ENGG:-</b> Chemical Plant Design	1	0	1	1	0	1	1	0	1	0	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	0	3	3	6	6	3	9
Industrial Biotechnology	0	3	3	1	1	2	1	7	8	0	0	0	0	0	0	0	0	0	0	5	6	11	7	17	24
<b>M &amp; M ENGG:-</b> Process Metallurgy	1	0	1	0	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	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	0	1	0	1	3	2	5
<b>COMPUTER ENGG:-</b> Computer Science & Engg	4	0	4	1	0	1	4	1	5	0	0	0	0	0	1	0	1	0	1	8	5	13	18	6	24
Computer Science & Engg. - Information Security	3	1	4	1	1	2	8	1	9	0	0	0	0	0	0	0	0	0	0	5	5	10	17	8	25
<b>MACS:-</b> Computational Mathematics	1	0	1	1	0	1	2	2	4	0	0	0	0	0	1	1	0	0	0	4	4	8	8	7	15
<b>INFORMATION TECHNOLOGY</b>	3	0	3	1	0	1	6	0	6	0	0	0	0	0	0	0	0	0	0	4	2	6	14	2	16
<b>TOTAL</b>	<b>54</b>	<b>11</b>	<b>65</b>	<b>17</b>	<b>5</b>	<b>22</b>	<b>100</b>	<b>40</b>	<b>140</b>	<b>3</b>	<b>3</b>	<b>6</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>30</b>	<b>4</b>	<b>34</b>	<b>145</b>	<b>64</b>	<b>209</b>	<b>350</b>	<b>127</b>	<b>477</b>	

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	To	M	F	To	M	F	To	M	F	To
	CIVIL ENGG: - Structural Engg.	4	0	4	2	0	2	3	5	8	0	0	0	0	0	0	0	0	0	8	2	10	17	7
Geotechnical Engg.	2	0	2	0	0	0	1	3	4	1	0	1	0	0	0	0	0	0	0	0	7	4	10	14
Environmental Engg.	2	2	4	0	0	0	3	3	6	0	0	0	0	0	0	0	0	0	5	8	13	10	13	23
Transportation Systems Engg.	4	0	4	1	1	2	3	4	7	0	0	0	0	0	0	0	0	0	5	7	12	13	12	25
Construction Technology & Mgt.	2	2	4	1	0	1	4	4	8	0	0	0	0	0	1	27	1	12	11	1	12	44	8	52
<b>APPLIED MECHANICS &amp; HYDRAULICS:-</b> Marine Structures	2	1	3	0	0	0	4	2	6	0	0	0	0	0	0	0	0	0	7	4	11	13	7	20



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<b>TOTAL</b>	<b>52</b>	<b>13</b>	<b>65</b>	<b>17</b>	<b>1</b>	<b>18</b>	<b>69</b>	<b>43</b>	<b>112</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>27</b>	<b>2</b>	<b>29</b>	<b>161</b>	<b>70</b>	<b>231</b>	<b>331</b>	<b>129</b>	<b>460</b>
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<b>M.Tech Research Students Strength for the year 2016-17</b>	<b>SC</b>			<b>ST</b>			<b>OBC</b>			<b>GENERAL</b>			<b>TOTAL</b>		
	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To
<b>CIVIL ENGG:</b> 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	2	2	0	2	2
Construction Technology & Mgt.	1	0	1	0	0	0	0	0	0	0	1	1	1	1	2
<b>APPLIED MECHANICS &amp; HYDRAULICS:-</b> Marine Structures	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Resources Engg. & Management	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1
Remote Sensing & GIS	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1
<b>MECHANICAL ENGG: -</b> Thermal Engg.	0	0	0	0	0	0	1	0	1	5	0	5	6	0	6
Mechatronics Engg.	0	0	0	0	0	0	1	0	1	3	1	4	4	1	5
Manufacturing Engg.	1	0	1	0	0	0	0	0	0	3	0	3	4	0	4
Design and Precision Engg.	0	0	0	0	0	0	1	0	1	4	0	4	5	0	5
<b>ELECTRICAL &amp; ELECTRONICS ENGG:-</b> Power & Energy Systems	0	0	0	0	0	0	1	0	1	0	2	2	1	2	3
<b>ELECTRONICS &amp; COMMUNICATION ENGG:-</b> VLSI Design	0	0	0	0	0	0	0	0	0	5	4	9	5	4	9
Communication Engg.	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1
<b>CHEMICAL ENGG:-</b> Materials Engg.	0	0	0	0	0	0	1	0	1	0	0	0	1	0	1
<b>MINING:-</b> Rock Exavation Technology & Mgt.	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1
<b>COMPUTER ENGG:-</b> 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
<b>Total</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>1</b>	<b>6</b>	<b>24</b>	<b>15</b>	<b>39</b>	<b>32</b>	<b>16</b>	<b>48</b>

<b>MCA Students Strength for the year 2016-17</b>															
<b>Year</b>	<b>SC</b>			<b>ST</b>			<b>OBC</b>			<b>GENERAL</b>			<b>TOTAL</b>		
	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>
<b>I YEAR</b>	12	2	14	5	2	7	21	4	25	30	16	46	68	24	92
<b>II Year</b>	8	3	11	7	0	7	21	3	24	28	17	45	64	23	87
<b>III YEAR</b>	4	7	11	3	3	6	15	10	25	28	17	45	50	37	87
<b>TOTAL</b>	<b>24</b>	<b>12</b>	<b>36</b>	<b>15</b>	<b>5</b>	<b>20</b>	<b>57</b>	<b>17</b>	<b>74</b>	<b>86</b>	<b>50</b>	<b>136</b>	<b>182</b>	<b>84</b>	<b>266</b>

<b>MBA Students Strength for the year 2016-17</b>															
<b>Year</b>	<b>SC</b>			<b>ST</b>			<b>OBC</b>			<b>GENERAL</b>			<b>TOTAL</b>		
	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>
<b>I YEAR</b>	2	5	7	1	0	1	6	1	7	22	9	31	31	15	46
<b>II YEAR</b>	2	1	3	0	1	1	4	1	5	13	12	25	19	15	34
<b>TOTAL</b>	<b>4</b>	<b>6</b>	<b>10</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>10</b>	<b>2</b>	<b>12</b>	<b>35</b>	<b>21</b>	<b>56</b>	<b>50</b>	<b>30</b>	<b>80</b>

<b>M.Sc(Chemistry) Students Strength for the year 2016-17</b>															
<b>YEAR</b>	<b>SC</b>			<b>ST</b>			<b>OBC</b>			<b>GENERAL</b>			<b>TOTAL</b>		
	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>
<b>I YEAR</b>	2	2	4	2	0	2	2	5	7	4	8	12	10	15	25
<b>II YEAR</b>	1	1	2	0	1	1	2	5	7	3	10	13	6	17	23
<b>TOTAL</b>	<b>3</b>	<b>3</b>	<b>6</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>4</b>	<b>10</b>	<b>14</b>	<b>7</b>	<b>18</b>	<b>25</b>	<b>16</b>	<b>32</b>	<b>48</b>

<b>M.Sc(Physics) Students Strength for the year 2016-17</b>															
<b>YEAR</b>	<b>SC</b>			<b>ST</b>			<b>OBC</b>			<b>GENERAL</b>			<b>TOTAL</b>		
	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>
<b>I YEAR</b>	4	0	4	0	1	1	1	6	7	4	9	13	9	16	25
<b>II YEAR</b>	2	2	4	0	2	2	1	5	6	5	7	12	8	16	24
<b>TOTAL</b>	<b>6</b>	<b>2</b>	<b>8</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>11</b>	<b>13</b>	<b>9</b>	<b>16</b>	<b>25</b>	<b>17</b>	<b>32</b>	<b>49</b>

## Ph.D. Students Strength for the year 2016-17

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	7	2	9	2	0	2	7	7	14	0	1	1	0	0	0	0	0	2	0	2	24	23	47	42	33	75
App. Mechanics	4	1	5	1	0	1	9	1	10	1	0	1	0	0	0	0	2	0	2	35	9	44	52	11	63		
Mechanical	12	0	12	6	0	6	25	2	27	6	0	6	1	0	1	0	1	0	1	80	5	85	131	7	138		
E&E	6	0	6	0	0	0	7	2	9	1	0	1	0	0	0	1	2	0	0	30	4	34	45	7	52		
E&C	1	0	1	3	0	3	5	0	5	2	0	2	1	0	1	3	0	3	1	0	27	10	37	43	10	53	
Chemical	4	3	7	1	1	2	2	3	5	1	0	1	0	0	0	0	0	0	0	11	18	29	19	25	44		
Metallurgy	6	0	6	2	0	2	11	1	12	0	0	0	0	0	0	0	0	0	0	20	2	22	39	3	42		
Mining	4	0	4	0	0	0	4	0	4	1	0	1	0	0	0	0	0	1	0	12	1	13	22	1	23		
Computer Information Technology	4	0	4	1	1	2	2	1	3	2	2	4	0	0	0	7	1	8	0	1	14	7	21	30	13	43	
Physics	1	1	2	1	0	1	2	0	2	0	0	0	0	0	0	2	1	3	0	0	11	1	12	17	3	20	
Chemistry	2	1	3	2	0	2	8	7	15	0	0	0	0	0	0	0	0	0	0	22	17	39	32	19	51		
MACS	2	1	3	1	0	1	2	4	6	0	0	0	0	0	0	0	0	1	1	14	9	23	20	15	35		
School of Mgt.	3	5	8	0	0	0	8	2	10	0	0	0	0	0	0	0	0	1	0	12	14	26	24	21	45		
Total	58	15	73	20	2	22	101	31	132	14	3	17	2	0	2	13	3	16	9	2	323	126	449	540	182	722	

**6.3 ADMISSION STATISTICS Undergraduate Programmes – B. Tech.**  
**Particulars of sanctioned intake and admissions made during 2016-17**

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	OP			
1	Civil Engg.	92	3	16	111	13	7	20	38	1	16	95
2	Mechanical Engg.	139	3	22	164	20	11	37	66	2	23	159
3	Electrical & Electronics Engg.	93	4	14	111	14	5	25	42	4	14	105
4	Electronics & Communication Engg.	93	3	16	112	14	7	24	45	1	18	109
5	Chemical Engg.	46	2	8	56	6	4	11	17	0	9	47
6	Metallurgical & Materials Engg.	46	0	3	49	6	4	11	19	0	0	40
7	Mining Engg.	46	0	3	49	6	4	7	14	0	0	31
8	Computer Engg.	92	2	16	110	14	7	25	45	2	16	109
9	Information Technology	93	0	13	106	13	4	27	44	0	12	101
	<b>Total</b>	<b>740</b>	<b>17</b>	<b>111</b>	<b>868</b>	<b>106</b>	<b>53</b>	<b>187</b>	<b>332</b>	<b>10</b>	<b>108</b>	<b>796</b>

**Details of Male & Female admissions – course wise and category wise**  
**ADMISSION STATISTICS – B. Tech. 2016-17**  
**Details of Male & Female admissions – course wise and category wise**

Sl. No	Courses offered	SC			ST			OBC			DASA			MEA			GN			Total		
		M	F	To	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To
1	Civil Engg.	10	3	13	7	0	7	18	2	20	12	4	16	1	0	1	26	12	38	74	21	95
2	Mechanical Engg.	20	0	20	11	0	11	35	2	37	23	0	23	2	0	2	62	4	66	153	6	159
3	Electrical & Electronics Engg.	10	4	14	4	1	5	15	10	25	11	3	14	4	0	4	25	18	42	69	36	105
4	Electronics & Communication Engg.	11	3	14	7	0	7	23	1	24	14	4	18	0	1	1	33	12	45	88	21	109
5	Chemical Engg.	5	1	6	3	1	4	9	2	11	7	2	9	0	0	0	9	8	17	33	14	47
6	Metallurgical & Materials Engg.	5	1	6	1	3	4	9	2	11	0	0	0	0	0	0	12	7	19	27	13	40
7	Mining Engg.	6	0	6	3	1	4	7	0	7	0	0	0	0	0	0	13	1	14	29	2	31
8	Computer Engg.	11	3	14	6	1	7	20	5	25	13	3	16	0	2	2	33	12	45	83	26	109
9	Information Technology	10	3	13	1	3	4	18	9	27	9	3	12	0	0	0	37	8	45	75	26	101
	<b>Total</b>	<b>88</b>	<b>18</b>	<b>106</b>	<b>43</b>	<b>10</b>	<b>53</b>	<b>154</b>	<b>33</b>	<b>187</b>	<b>89</b>	<b>19</b>	<b>108</b>	<b>7</b>	<b>3</b>	<b>10</b>	<b>250</b>	<b>82</b>	<b>332</b>	<b>631</b>	<b>165</b>	<b>796</b>

**ADMISSION STATISTICS - POST GRADUATE PROGRAMMES**  
**M. Tech. Programme - Particulars of Intake and Admissions during 2016-17**

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			OBC			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 QIP (P)	20	6	26	4	0	4	2	0	2	3	3	6	10	3	14	0	0	0	0	0	0
2	Geotechnical Engg.	15+1***+1*	14	1 DASA	6	9	15	1	1	2	1	0	1	5	6	2+1 DASA	3	6	0	0	0	0	0	0	0
3	Environmental Engg.	27+1*	25		18	7	25	3	1	4	1	1	2	3	2	5	11	3	14	0	0	0	0	0	0
4	Transportation Engg.	27+1*	23	1QIP (P) 1 Spon	14	11	25	3	0	3	0	0	0	3+1 Spon	4	8	7	6+1 QIP(P)	14	0	0	0	0	0	0
5	Construction Technology & Management	27+1*+30 (L&T)	24	1QIP (R) 30 L&T, 1 Spon	47	9	56	4	1	5	0	0	0	7	0	7	8+28 L&T	5+2 L&T, 1 QIP(R)	44	0	0	0	0	0	0
6	Marine Structures	27+1***+1*	21	1 Non GATE (SC)	19	3	22	2	1	3	0	0	0	11	0	11	6	2	8	0	0	0	0	0	0
7	Water Resources Engineering & Management	15+1*	11		3	8	11	0	0	0	0	1	1	4	5	2	3	5	0	0	0	0	0	0	0

8	Remote Sensing & Geographic Information Systems	27+1*** 1*	16	2 Non GATE (OBC)	13	5	18	2	2	0	2	1	0	1	0	1	2	4	6	8	1	9	0	0	0
9	Design and Precision Engg.	15+1*	14	1 QIP (P)	15	0	15	2	0	2	1	1	0	1	0	1	4	0	4	7+1Q IP	0	8	0	0	0
10	Manufacturing Engg.	15+1*	14	1 QIP (P), 1 QIP(R)	15	1	16	2+1 QIP	0	3	1	1	0	1	0	1	4	0	4	71 QIP (R)	0	8	0	0	0
11	Mechatronics Engg.	27+1*	24	1 Non GATE, I NAVY Spon	21	5	26	3	1	4	1	1	0	1	0	1	5	1	6	10 +1 spon	3	14	1	0	1
12	Thermal Engineering	15+1*** 1*	14	--	13	1	14	2	0	2	1	1	0	1	0	1	7	0	7	3	1	4	0	0	0
13	Power & Energy Systems	27+1*	24	--	18	6	24	4	0	4	0	0	1	1	1	4	4	8	10	10	1	11	0	0	0
14	VLSI Design	27+1*** 1*	26	--	20	6	26	2	2	4	2	2	0	2	0	8	2	10	8	8	2	10	0	0	0
15	Communication Engg.	27+1*** 1*	25	1DASA, 1 Spon	21	6	27	4	1	5	0	0	0	0	0	7+1 spon	1	9	6+1 DASA	5	12	1	0	1	0
16	Chemical Plant Design	15+1*	05		4	1	5	1	0	1	1	1	0	1	0	1	1	0	1	1	1	2	0	0	0
17	Industrial Pollution Control Engg.	27+1*	08	1 Non GATE(OBC)	6	3	9	2	0	2	0	0	0	0	0	1	1	0	1	3 NonG ATE	3	6	0	0	0
18	Industrial Biotechnology	27+1*	23	1 OBC Non GATE	7	17	24	0	3	3	1	1	1	2	1	Non GAT E	7	8	5	6	11	0	0	0	0
19	Materials Engg.	27+1*	21		20	1	21	4	0	4	0	0	0	0	0	7	0	7	9	9	1	10	0	0	0
20	Process	15+1***	4	I Non	5	0	5	1	0	1	0	0	0	0	0	0	0	0	0	4	0	4	0	0	0



**M.TECH. PROGRAMME (BY RESEARCH) 2015-16****Intake**

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

**Admission made for the year 2015-16**

Sl. No.	Name of the Programme	No. of candidates admitted		Total number of candidates admitted		
		Gate Scholarship Seat	Non-Scholarship Seat	Male	Female	Total
1	Structural Engg.	1 OC	1 OC	1	1	2
2	Geotechnological Engg	1 SC	-	1	0	1
3	Environmental Engg.	--	2 OC	-	2	2
4	Construction Technology & Management	1 OC	-	--	1	1
5	Remote Sensing & Geographic's Information Systems	--	1 OC	--	1	1
6	Water Resources & Mgt.	-	1 OC	-	1	1
7	Marine Structures	--	1OBC	1	-	1
8	Thermal Engg.	1 OC+ 1 OBC	--	2	-	2
9	Design & Precision Engg.	-	1 IR(OC)	1	-	1
10	VLSI Design	4 OC	-	2	2	4
11	Computer Science & Engg (Information Security)	1 OC + 1OBC	-	-	2	2
	<b>Total</b>	<b>8 OC + 2 OBC + 1 SC</b>	<b>5 OC + 1 OBC + 1 IR</b>	<b>8</b>	<b>10</b>	<b>18</b>

IR – Internal Registrants

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

**Particulars of Admissions during 2016-17**

Sl. No.	Programme	Intake	Total			SC		ST		OBC		Gen	
			Boys	Girls	Total	M	F	M	F	M	F	M	F
	Master of Computer Applications (MCA)	92+1**	68	24	<b>92</b>	12	2	5	2	20+1PD	4	29+1PD	16
2	Master of Business Administration (MBA)	64+5*+1**	32	16	<b>48</b>	2+1PD	5	1	1	6	1	22	9
3	M.Sc. (Chemistry)	27+1**	10	15	<b>25</b>	2	2	2	0	2	5	4	8
4	M.Sc. (Physics)	27+1**	9	16	<b>25</b>	4	0	0	1	1	6	4	9
	<b>Total</b>	<b>210+5*+4**=219</b>	<b>119</b>	<b>71</b>	<b>190</b>	<b>20+1 PD</b>	<b>09</b>	<b>08</b>	<b>04</b>	<b>29 + 1PD</b>	<b>16</b>	<b>59+ 1PD</b>	<b>42</b>

\* 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 2016-17**

Intake for the year 2016-17

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

**Details of Admissions made during 2016-17**

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												
		Fellowship Holder		Other category- Non Fellowship+ QIP+ Sponsored and Admissions under Visvesvaraya Ph.D Scheme	M	F	OC		OB		SC		ST		OTHERS ( Nonfellowship/ QI.P/Sponsored and Admissions under Visvesvaraya Ph.D. Scheme).				
		M	F	M			F	M	F	M	F	M	F						
1	Civil Engg	10	06	2	01	1 OC + 2 OC (ER)	1	OC	3	5	3	2	3	0	--	2	Ethiopia	1	QIP (R)
2	Applied Mech. & Hydraulics	9	2	2	--	2 OBC 2 OC (ER)	1	OC (ER)	2	4	4	--	1	-	--	2	Ethiopia	--	--
3	Mechanical Engg	17	01	3	QIP (R)	2 OC + 2 OC (ER) + 1 OBC	--	--	10	1	4	--	2	-	1	0	3	QIP (R)	--
4	Electrical & Electronics Engg	7	--	1	QIP (R)	1 OC (IR) + 2 oc (ER) + 1 OBC ER	--	--	6	--	1	--	--	-	--	--	1	QIP (R)	OP

National Institute of Technology Karnataka, Surathkal

5	Electronics & Communication Engg	11	--	1 QIP (R) OP	--	1 OC (ER)	--	8	--	1	--	1	-	1	0	1 QIP (R) OP	--
6	Chemical Engg	--	5	--	--	--	--	--	5	--	--	--	-	--	--	--	--
7	Metallurgical & Materials Engg	7	1	--	--	1	0	2	1	2	--	2	0	1	0	--	--
8	Mining Engg	2	--	--	--	1	--	1	--	1	0	--	-	--	--	--	--
9	Computer Science & Engg	3	1	--	--	1 OC (ER)	1 OC	1	1	1	0	1	-	--	--	--	--
10	Information Technology	1	--	2 OC (VIS) **	1 SC (VIS) ** + 1 OC (VIS) **	--	--	--	--	--	--	--	-	--	--	2 OC (VIS) **	1 SC (VIS) ** + 1 OC (VIS) **
11	Physics	4	2	--	--	--	--	2	2	1	--	1	-	--	--	--	--
12	Chemistry	2	3	--	--	1 OBC + 1 OC	--	2	--	2	1	--	-	--	--	--	--
13	Mathematical & Computational Sciences	3	1	1 OC (VIS) **	--	--	--	3	1	--	--	--	-	--	--	1 OC (VIS) **	--
14	School of Management	3	6	1 OP (SPON)	--	1 OC	1 OC	4	1	1	1	--	2	--	--	1 OC (SPON)	--
	<b>Total</b>	<b>79</b>	<b>28</b>	<b>13</b>	<b>03</b>	<b>24</b>	<b>4</b>	<b>44</b>	<b>21</b>	<b>19</b>	<b>5</b>	<b>12</b>	<b>2</b>	<b>3</b>	<b>0</b>	<b>13</b>	<b>3</b>

\*\* Admissions under "Visvesvaraya Ph.D. Scheme" during December 2016  
SP= Sponsored. QIP = Admitted Under AICTE QIP Scheme

**Total Student's Strength**

<b><u>Programme</u></b>	<b><u>Strength</u></b>
1. Undergraduate	3205
2. Post Graduate (Including MCA/M.Tech./M.Tech – by research MBA/M.Sc.)	1428
3. Ph.D. Programme	722
	-----
<b>Total</b>	<b>5355</b>

## **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. by Research program for full-time students, the duration of study shall be a minimum of four 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 2016

### B.Tech.Examination Details

#### RESULT OF 2015-2016

#### Under Graduate

Sl.No.	Branch	Total No. Appeared	No. of students passed in				Total Pass	Percent age 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	105	65	22	7+2*	1+3*	100	95.24	19+1*
2.	Mechanical Engineering	160	105	31+1*	8+3*	2+2*	152	95.00	23+3*
3.	Electrical And Electronics Engineering	106	63	34	9	0	106	100.00	20
4.	Electronics And Communication Engineering	106	74	18	9	1+1*	103	97.17	19
5.	Chemical Engineering	53	27	14	8+1*	1	51	96.23	9
6.	Metallurgical And Materials Engineering	42	24	10	6+1*	0	41	97.62	10+1*
7.	Mining Engineering	43	21	12	7+1*	2*	43	100.00	10+3*
8.	Computer Engineering	108	75	17+1*	9+2*	1*	105	97.22	17
9.	Information Technology	104	59	24	12+2*	3+1*	101	97.12	19+1*
	<b>Total</b>	<b>827</b>	<b>513</b>	<b>182+2*</b>	<b>75+12*</b>	<b>8+10*</b>	<b>802</b>	<b>96.98</b>	<b>146+9*</b>

\* Repeaters

**M.Tech./MBA/M.Sc.(Chemistry & Physics)**

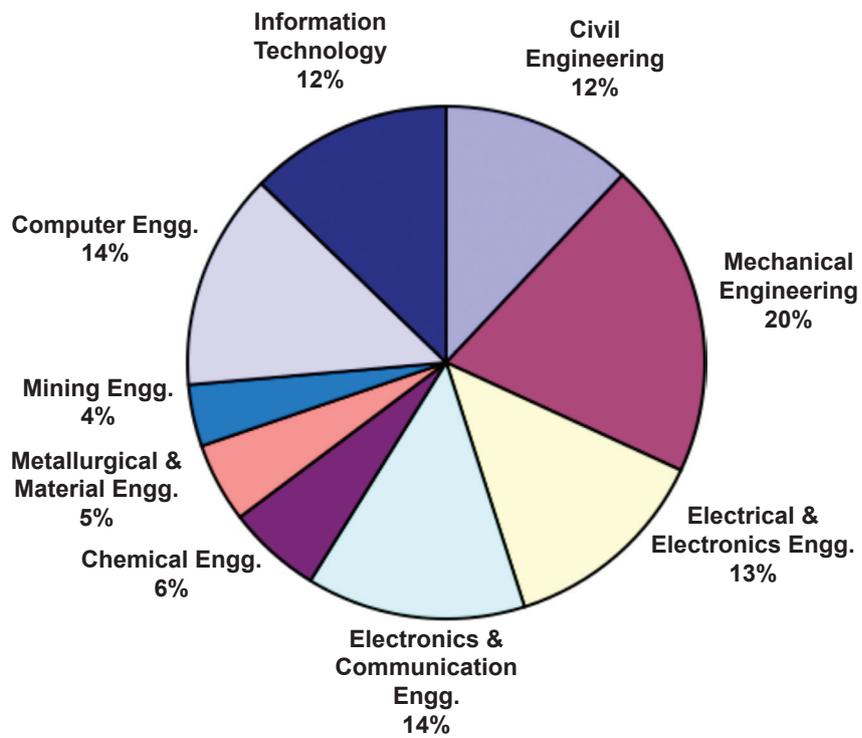
Sl.No.	Branch	Total No. Appeared	No. of students passed in			Total Pass	Pass %	No. of SC/ST candidates passed
			CGPA above 7 & below 10	CGPA above 6 & below 7	CGPA above 5.50 & below 6			
1.	Construction Technology & Management	53	53	0	0	53	100.00	4
2.	Structural Engineering	26	24	2	0	26	100.00	6
3.	Geotechnical Engineering	14	13	1	0	14	100.00	3
4.	Environmental Engineering	25	23	2	0	25	100.00	6
5.	Transportation Engineering	25	25	0	0	25	100.00	5
6.	Marine Structures	23	21	2	0	23	100.00	5
7.	Remote Sensing & Geographic Information System	26	24	1*	1*	26	100.00	4+2*
8.	Water Resources Engineering & Management	15	14	1	0	15	100.00	3
9.	Design and Precision Engineering	14	12	1	0	13	92.86	2
10.	Manufacturing Engineering	15	14	1	0	15	100.00	3
11.	Mechatronics Engineering	26	23	2	1*	26	100.00	6+1*
12.	Thermal Engineering	13	8	5	0	13	100.00	2
13.	Power & Energy Systems	25	19	5	0	24	96.00	6
14.	VLSI Design	24	17	5	1	23	95.83	6
15.	Communication Engineering	29	25	2	2	29	100.00	6
16.	Chemical Plant Design	11	4	5	2	11	100.00	1
17.	Industrial Biotechnology	24	17	7	0	24	100.00	4
18.	Industrial Pollution Control	19	13	5	1	19	100.00	0
19.	Process Metallurgy	13	11	2	0	13	100.00	2
20.	Materials Engineering	24	20	4	0	24	100.00	6
21.	Nanotechnology	12	10	1	0	11	91.67	2
22.	Computational Mathematics	22	19	2	1	22	100.00	1
23.	Computer Science and Engineering	26	23	2	1	26	100.00	6
24.	Computer Science and Engineering - Information Security	24	18	4	1*	23	95.83	3+1*
25.	Information Technology	21	18	3	0	21	100.00	2
26.	Master of Computer Applications	91	65	22	3	90	98.90	20
27.	Master of Business Administration	37	36	1	0	37	100.00	4
28.	Master of Science (Chemistry)	23	17	5	1	23	100.00	4
29.	Master of Science (Physics)	22	18	3	1	22	100.00	2
	<b>Total</b>	<b>722</b>	<b>604</b>	<b>95+1*</b>	<b>13+3*</b>	<b>716</b>	<b>99</b>	<b>124+4*</b>

\* Repeaters

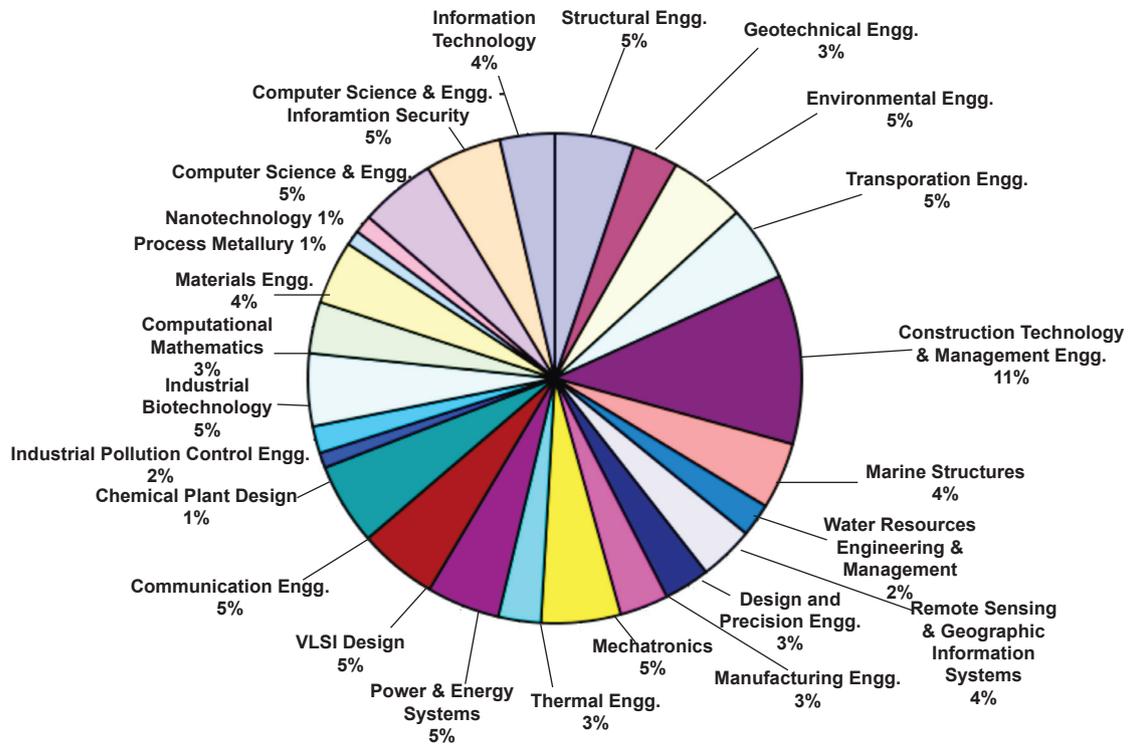
**Ranks secured by the B.Tech./M.Tech./MCA/MBA/M.Sc. (Physics & Chemistry) Examination held in April/May, 2016**

**B.Tech.**

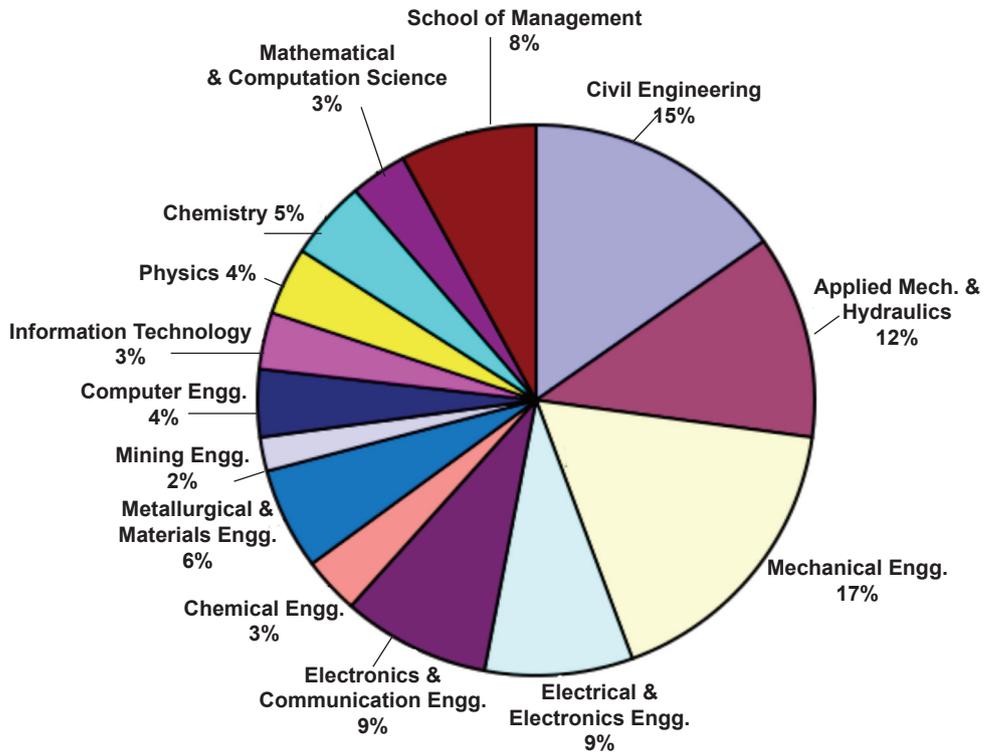
Sl. No.	Branch	Reg. No.	Name of the Student
1	CHEMICAL ENGINEERING	12210412CH11	<u>APRAMEYA G</u> 1) Institute Medal 2) Mohan V Hosur Gold Medal 3) 1986 Batch Gold Medal
2	CIVIL ENGINEERING	12275112CV47	<u>MANASA BHAT K I</u> 1) Institute Medal 2) Prof. M. N. Shivashankar Gold Medal 3) Dr. R.K. Yaji Gold Medal 4) 1986 Batch Gold Medal
3	COMPUTER ENGINEERING	12209012CO44	<u>M JAYASHREE</u> 1) Institute Medal
4	ELECTRONICS & COMMUNICATION ENGINEERING	12211512EC13	<u>ANIRUDH B K</u> 1) Institute Medal 2) 1986 Batch Gold Medal
		12212212EC24	<u>PRADYUMNA B S</u> 1) Institute Medal 2) 1986 Batch Gold Medal
5	ELECTRICAL & ELECTRONICS ENGINEERING	12206412EE51	<u>MANASA M BHAT</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	12203212IT31	<u>KARTHIK S</u> 1) Institute Medal
7	MECHANICAL ENGINEERING	12268812ME104	<u>RAMAKRISHNAN BHUPENDERA PRASHANTH</u> 1) Institute Medal 2) 1986 Batch Gold Medal 3) Prof. Shuichi Torii Gold Medal
8	METALLURGICAL & MATERIALS ENGINEERING	12270312MT02	<u>AJAY V KRISHNAN</u> 1) Institute Medal 2) Karthik Alloys Gold Medal 3) Prof. H. V. Sudhaker Nayak Gold Medal 4) SMIORE Gold Medal



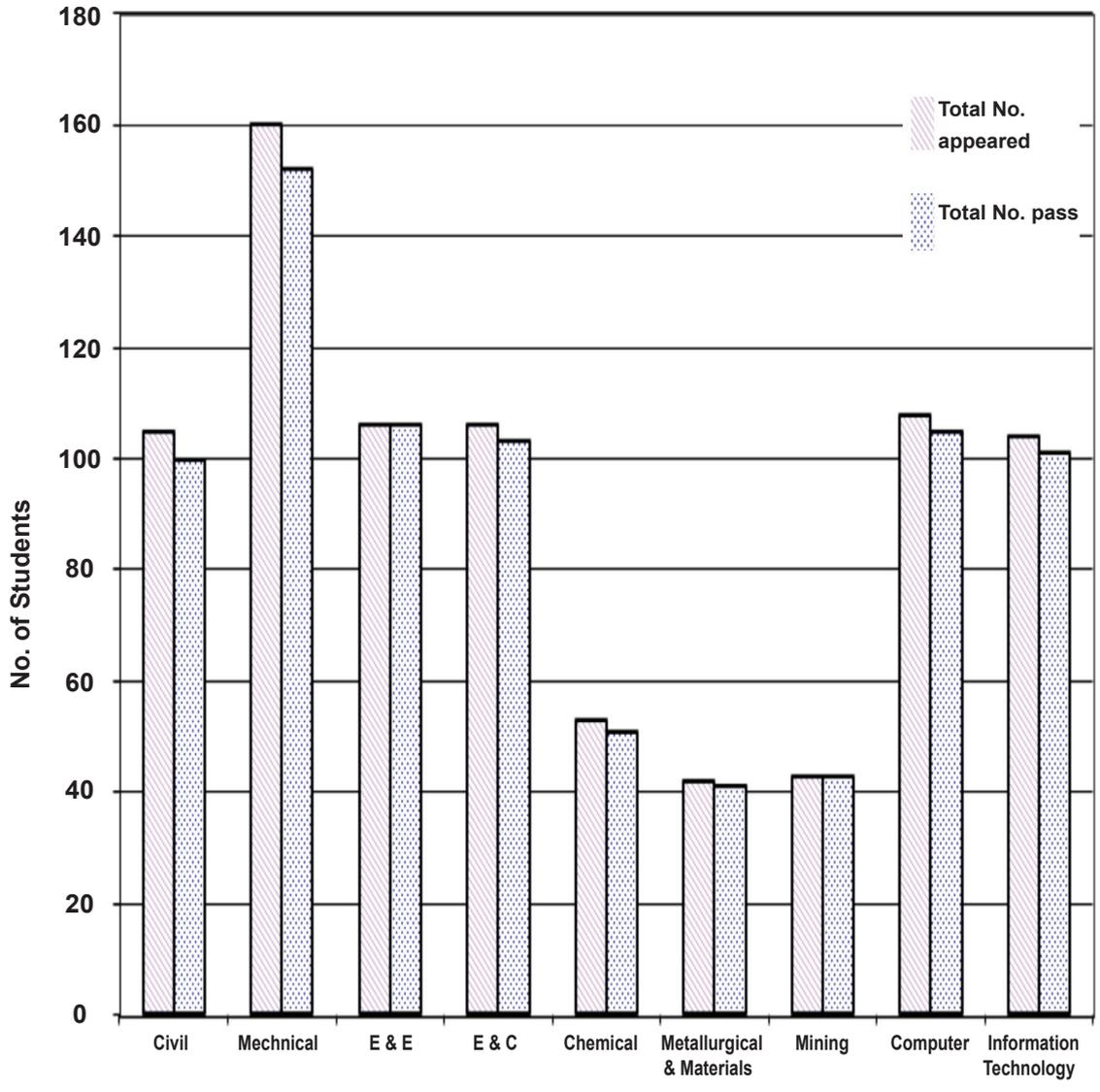
**Pie - chart showing discipline wise B.Tech. admissions 2016-17**



**Pie - chart showing discipline wise M.Tech. admissions 2016-17**

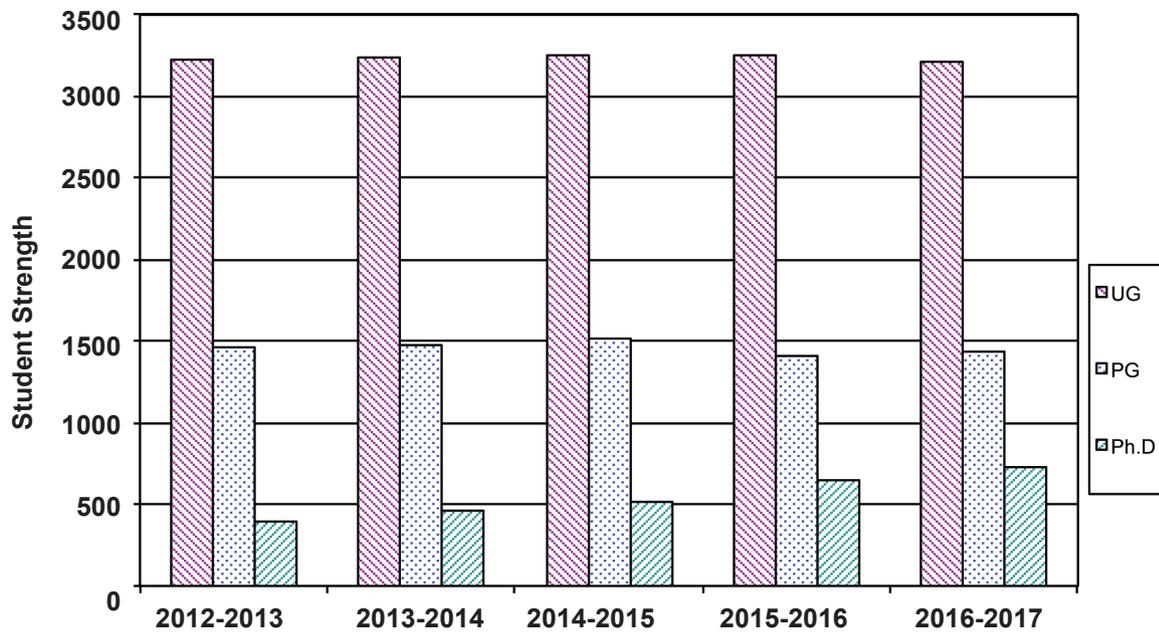
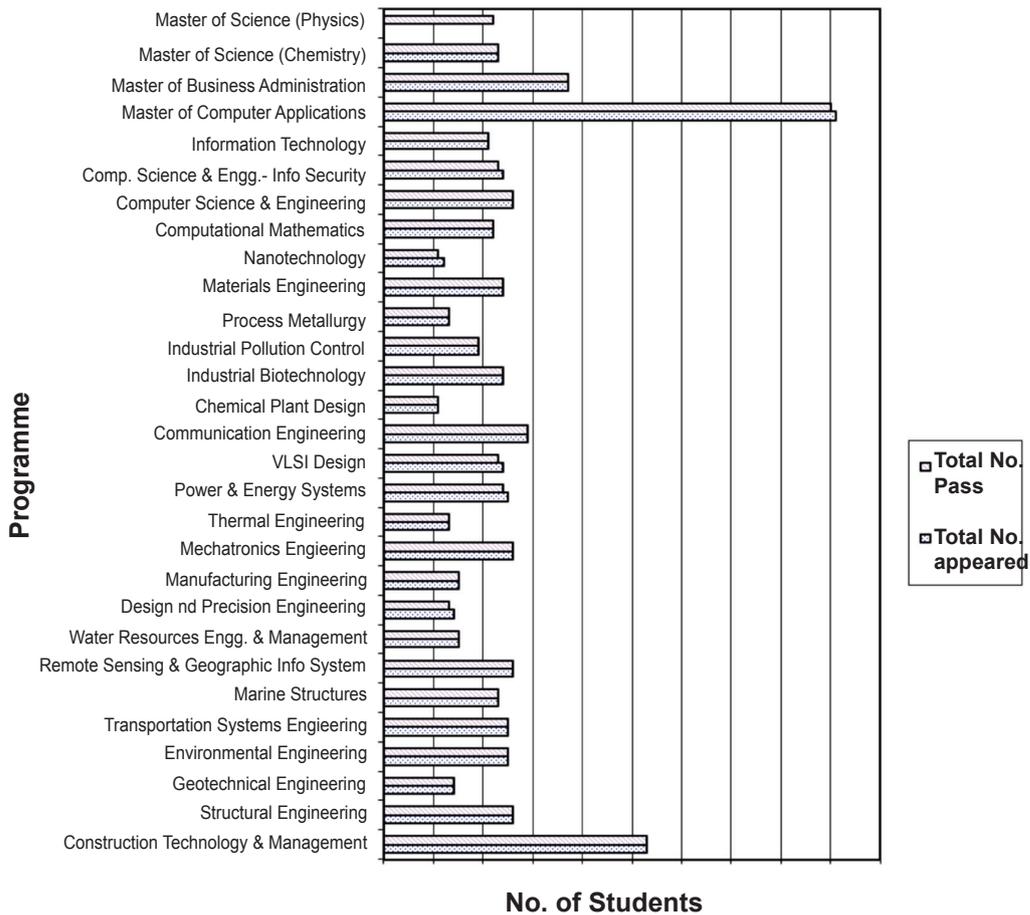


**Pie - chart showing discipline with Ph.D. admissions 2016-17**

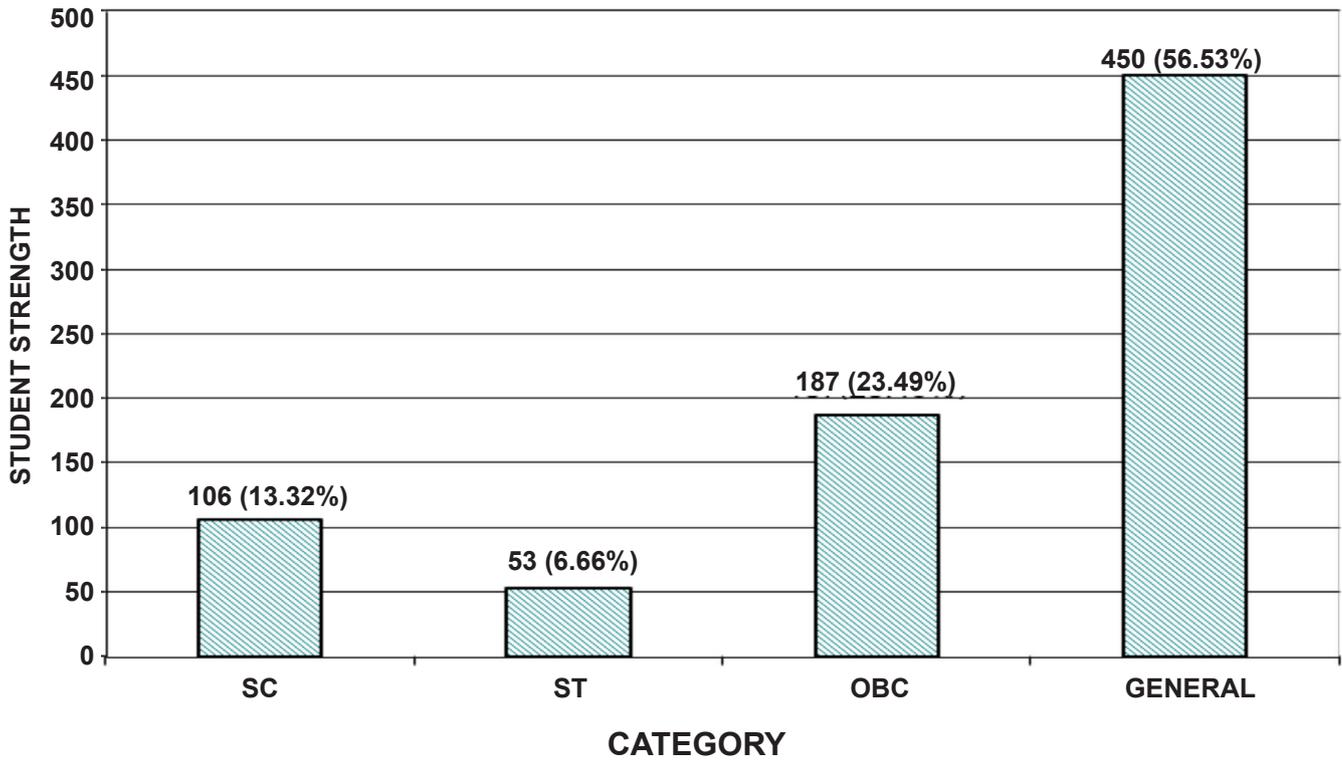


Programme

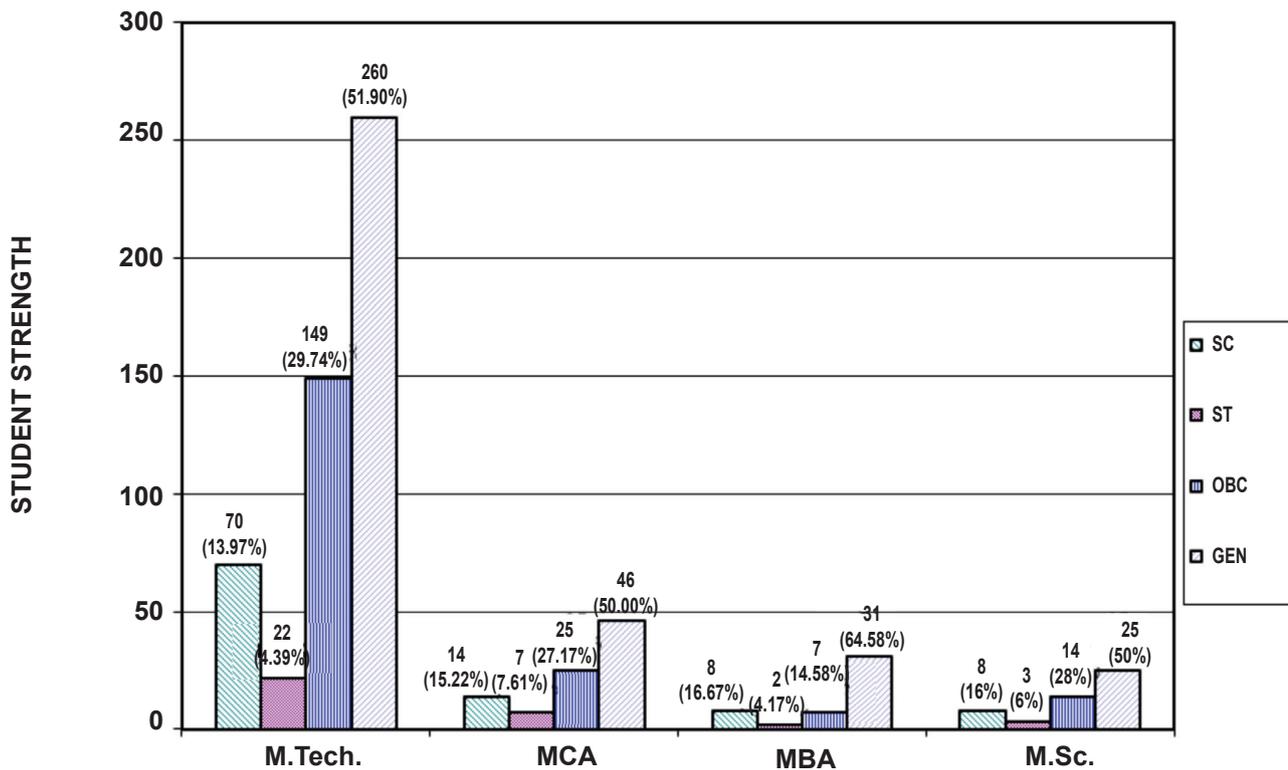
Examin Results (UG)



Growth in enrolment UG/PG/Ph.D. students during the last Five years 2012-13 to 2016-17



Categorywise details of UG Admissions 2016-17



Categorywise details of PG Admissions 2016-17

			5) 1986 Batch Gold Medal
9	MINING ENGINEERING	12220412MN02	<u>ACHYUTANAND KUMAR</u> 1) Institute Medal 2) Hutti Gold Mines Medal

**POST GRADUATE**

<b>Sl. No.</b>	<b>Branch</b>	<b>Reg. No.</b>	<b>Name of the Student</b>
1	Marine Structures	14023114MS07F	<u>DHANYA T P</u> 1) Institute Medal
2	Remote Sensing & Geographic Information System	14044814RS07F	<u>ELIZABETH BABY GEORGE</u> 1) Institute Medal
3	Water Resources Engineering & Management	14051114WR13 F	<u>SYED AMEENA</u> 1) Institute Medal
4	Chemical Plant Design	14000614PD03F	<u>JYOTIPRIYA DAS</u> 1) Institute Medal
5	Industrial Biotechnology	14049714IB20F	<u>SHWETHASHREE M</u> 1) Institute Medal
6	Industrial Pollution Control	14044914PC08F	<u>DHANASHRI J GADGIL</u> 1) Institute Medal
7	Construction Technology & Management	14041614CM40 F	BATHULA LAKSHMI PATHI DHEERAJ SWAMY 1) Institute Medal
8	Environmental Engineering	14013414EN01F	<u>AISWARYA MANOJ</u> 1) Institute Medal
9	Geotechnical Engineering	14014714GT06F	<u>DHANYA RAJ</u> 1) Institute Medal
		14014914GT08F	<u>JINU MARY JACOB</u> 1) Institute Medal
		14015014GT13F	<u>REVA VENU V M</u> 1) Institute Medal
10	Structural Engineering	14030814ST14F	<u>MITHILA BHAGAVATHI M</u> 1) Institute Medal 2) Board Chairperson's Medal
11	Transportation Engineering	14035414TS14F	<u>PURUMALA SNEHITH</u> 1) Institute Medal
12	Computer Science & Engineering	14004414CS05F	<u>CHALAVINDALA SWAPNA</u> 1) Institute Medal
13	Computer Science & Engineering – Information Security	14006714IS01F	<u>AMIT PRASEED</u> 1) Institute Medal

14	Power & Energy Systems	14028414PS21F	<u>SINGH SANTOSH VIJAYBAHADUR</u> 1) Institute Medal
15	Communication Engineering	14001114CE15F	<u>NAVYA S</u> 1) Institute Medal
16	VLSI Design	14037114VL23F	<u>VANDHANA S</u> 1) Institute Medal
17	Information Technology	14018314IT12F	<u>MD HARIS IQBAL</u> 1) Institute Medal
18	Computational Mathematics	14053314CMA1 9F	<u>ZITHA SASINDRAN</u> 1) Institute Medal 2) Board Chairperson's Medal
19	Design and Precision Engineering	14011214DP10F	<u>PARAS GUPTA</u> 1) Institute Medal
20	Manufacturing Engineering	14020614MF05F	<u>BARSHA HAZARIKA</u> 1) Institute Medal
21	Mechatronics Engineering	14026814MC02 F	<u>AJESH C R</u> 1) Institute Medal
22	Thermal Engineering	14033714TH01F	<u>ARVIND KALRA</u> 1) Institute Medal 2) Board Chairperson's Medal 3) Prof. K. L. Bhat & Prof. P. Prasad Rao Gold Medal 4) Dr. B. S. Samaga Cash Award
23	Materials Engineering	14023314ML07F	<u>ARJUN SASIDHARAN</u> 1) Institute Medal 2) Prof. K R Hebbar Gold Medal
24	Nanotechnology	14027314NT05F	<u>NAVEEN G</u> 1) Institute Medal
25	Process Metallurgy	14055814PM02F	<u>ARJUN M S</u> 1) Institute Medal 2) Mrs. Sarojini Pillai Gold Medal

## 9 Ph.D PROGRAMMES & DOCTORATES AWARDED

### Ph.D. PROGRAMMES – EXISTING & PROPOSED

#### **Department of Applied Mechanics and Hydraulics**

	<b>Specialization</b>
Existing	(i) Coastal Engineering (ii) Water Resources Engineering (iii) Remote Sensing and GIS

#### **Department of Chemical Engineering**

	<b>Specialization</b>
Existing	Process Development, Particulate systems, Biotechnology, Environmental Engg., Transfer Operations, Industrial Biotechnology, Energy, Electrochemical Applications, Process Modeling and Simulation, Polymer & Nanocomposites, Catalysis & Reaction Engg.
Proposed	Nano Technology, Bioenergy, Computational Fluid Dynamics (CFD), Multi Phase Flow

#### **Department of Civil Engineering**

	<b>Specialization</b>
Existing	Construction Technology and Management Environmental Engineering Geology and Earth Sciences Geotechnical Engineering Structural Engineering Transportation Engineering Engineering Geology and Groundwater
Proposed	---

#### **Department of Computer Engineering**

	<b>Specialization</b>
<b>Existing</b>	Computer Networks, Software Engineering, Distributed Computing, Data Management, Information Security, High Performance Computing, Computer Vision, Cloud Computing, Image Processing, Speech Processing, Mobile computing
<b>Proposed</b>	Graph Theory, Graph Algorithms

#### **Department of Chemistry**

	<b>Specialization</b>
Existing	Chemistry

**Department of Electronics and Communication Engineering**

	<b>Specializations</b>
Existing	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**

	<b>Specialization</b>
Existing	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**

	<b>Specialization</b>
Existing	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	Information Retrieval, Natural Language Processing, Semantic Web Technology, Social Multimedia/Social Network Analysis

**Department of Mathematical And Computational Sciences**

	<b>Specialization</b>
Existing	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**

	<b>Specialization</b>
Existing	Renewable Energy, Alternative Fuels, IC Engine & Combustion, Refrigeration and Air-conditioning, Heat Transfer, Fluid Dynamics, Fracture Mechanics and Fatigue, FEM, Stress Analysis, Tribology, Machine Dynamics and Vibration, Advanced Materials, Advanced Manufacturing, Mechatronics, MEMS, Nanotechnology, Product Design, Structural Acoustics, Polymer Nano-Composites, Turbomachines, Fluid Structure Interaction, Surface Engineering
Proposed	Atomization, Aero-elasticity, Precision Manufacturing, Robotics and Control, Additive manufacturing

**Department of Mining Engineering**

	<b>Specialization</b>
Existing	Rock Mechanics and Ground Control, Drilling and Blasting, Mine Planning Environmental Management

**Department of Metallurgical and Materials Engineering**

	<b>Specialization</b>
Existing	Process Metallurgy, Physical Metallurgy, Mechanical Metallurgy, Materials Engineering, Nanotechnology

**Department of Physics**

	<b>Specialization</b>
Existing	Solid State Physics, Materials Science, Theoretical Physics, Electromagnetics, Photonics, Compound Semiconductor thin films
Proposed	Theoretical investigation of strongly correlated systems and solar cells

**Department of School of Management**

	<b>Specialization</b>
Existing	Management , Social Sciences and Humanities

**DOCTORATES AWARDED**

**Department of Applied Mechanics and Hydraulics:-**

	<b>No. Awarded</b>
Upto 31 <sup>st</sup> March 2016	52
During period 1 <sup>st</sup> April 2016 to 31 <sup>st</sup> March 2017	12

<b>Name of the candidate</b>	<b>Title of the thesis</b>	<b>Year of Award</b>	<b>Guide (s)</b>
Babar Santosh Fulaji	Study of stream flow response to Land Use Land Cover change in the Nethravathi river basin, India	2016	H.Ramesh, Ph.D.
S.K.Mahadeve Gowda	Ground water recharge behavior of Lateritic Aquifers in the Western Ghat region –India	2016	M. K. Nagaraj, Ph.D.
Gowthaman. R	Modeling of shoreline configuration along Rameshwaram island, East coast of India	2016	G. S. Dwarakish, Ph.D.
Lathashri U. A	Predictive Simulation of flow and solute transport for managing the coastal aquifer of Dakshina Kannada district, Karnataka, India	2016	Amai Mahesha, Ph.D.
Karthik B. S	Modeling of Air temperature using Hybrid wavelet Transform-ANFIS support vector machine computing Techniques	2016	Paresh Chandra Deka, Ph.D.
Sangeev Gadad	Short-term offshore wind speed forecasting Using buoy observations And Regional scale wind resource assessment Based on scatterometer data	2016	Paresh Chandra Deka, Ph.D.
Leedhar Pemmar	Modeling PAN evaporation by Hybrid wavelet Transform support vector Machines	2016	Paresh Chandra Deka, Ph.D.
Arega Mulu Adal	Simulation of hydrological effects of landuse/ land cover, climate change and effect of Da, at Gilgel AbayRiver	2016	G.S.Dwarakish, Ph.D.
Gebremedhin Kiros Hailu	Assessment of hydrological impacts of landcover changes and climate variability in the GEBA catchment, Ethiopia'	2016	N. Lakshman, Ph.D.& Amba Shetty, Ph.D.
Ganasri B.P	Impact of LU/LC changes on hydrologic response of humid & sub-humid catchments in Karnataka India	2016	G.S.Dwarakish, Ph.D.
Patil Amit Prakash	Modelling Reference Evapotranspiration using Hybrid Artificial Intelligence Technique in Arid and Semi-arid regions if India	2016	Paresh Chandra Deka, Ph.D.
H.J.Surendra	Influence of climatic variable and socio-economic deforms on Muncipal Residential Water consumption estimation using Fuzzy-Wavelet Approach	2017	Paresh Chandra Deka, Ph.D.

**Deparatment of Chemical Engineering**

	<b>No. Awarded</b>
Upto 31 <sup>st</sup> March 2016	34

During Period 1 <sup>st</sup> April 2016 To 31 <sup>st</sup> March 2017	3
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Name Of Candidate	Title Of Thesis	Year Of Award	Guide(S)
Mrs. Jaya Mary Jacob	Biosynthesis of lead selenide semiconductor quantum particles in marine fungus.	2016	Raj Mohan B, Ph.D.
Ms. Aishwarya Devadiga	Bioengineered Silver and Titanium Dioxide Nanoparticles and Their Applications	2016	Vidya Shetty K, Ph.D.&M.B. Saidutta, Ph.D.
Ms. Veena B.R	Steady State and Dynamic Biofilm Characteristics Associated With Phenol Degradation in Pulsed Plate Bioreactor	2016	Vidya Shetty K, Ph.D.& M.B. Saidutta, Ph.D.

### Department of Civil Engineering

	No. Awarded
Up to 31 <sup>st</sup> March 2016	58
During period 1 <sup>st</sup> April 2016 to 31 <sup>st</sup> March 2017	7

(For period of report only)

Name of the candidate	Title of the thesis	Year of Award	Guide (s)
Premananda Shenai	Optimum Material Disposition In 2d In-plane Bending Problems-nodes In Motion Strategy	2016	K S Babu Narayan, Ph.D. Katta Venkataramana, Ph.D.
Santhosh.M. Malkapur	Studies On Performance Characteristics Of Hydrogen Loaded Concrete Mixes	2016	M.C.Narasimhan, Ph.D.
Ravi Kumar C M	Fragility Estimates For RC Buildings	2016	K.S.Babunarayana, Ph.D.&D.V.Reddy, Ph.D.
Goutham Sarang	Experimental Investigation Of Stone Matrix Asphalt Mixtures	2016	A.U.Ravishankar, Ph.D.
Bhavana Patel S S	Meshfree Technique With Adaptive Refinement Strategy For Crack Propagation Analysis	2016	K S Babu Narayan, Ph.D. Katta Venkataramana, Ph.D.

Nitendra Palankar	Performance Of Alkali Activated Concrete Mixes With Steel Slag As Coarse Aggregate For Rigid Pavements	2016	A.U.Ravishankar , Ph.D.
Lekha B M	Performance Studies on Pavements Using Chemically Stabilized Soils	2016	A. U. Ravishankar, Ph.D.

### **Department of Computer Engineering**

	<b>No. awarded (including those for which viva has been successfully completed)</b>
Up to 31 <sup>st</sup> March 2016	18
During period 1 <sup>st</sup> April 2016 to 31 <sup>st</sup> March 2017	01

<b>Name of Candidate</b>	<b>Title of Thesis</b>	<b>Year of Award</b>	<b>Guide(s)</b>
Raghavendra Achari	“Application Aware Virtual Machine Provisioning in Cloud”	2016	P. Santhi Thilagam, Ph.D.

### **Department of Chemistry**

	<b>No. awarded (including those for which viva has been successfully completed)</b>
Up to 31 <sup>st</sup> March 2016	76
During period 1 <sup>st</sup> April 2016 to 31 <sup>st</sup> March 2017	5

<b>Name of Candidate</b>	<b>Title of Thesis</b>	<b>Year of Award</b>	<b>Guide(s)</b>
Raghavendra Prasad J	“Carbon Nano Composite Materials for Non-Enzymatic Electrochemical Glucose Sensing”	2017	B. Ramachandra Bhat, Ph.D.
Nagabhushana	Synthesis, characterization and antitubercular studies of some pyrazole based molecules	2016	Udaya Kumar D, Ph.D.
J Ramprasad	Synthesis, characterization and studies on antitubercular activity of some 1,3,4-thiadiazole based molecules	2016	Udaya Kumar D, Ph.D.
Dickson D. Babu	Design and development of new indole based sensitizers for dye-sensitized solar cells	2016	A. Vasudeva Adhikari, Ph.D.

Valeen Rashmi Pereira	Preparation and Characterization of polyaniline and TiO <sub>2</sub> based nanocomposite membranes for water purifications	2016	Arun M. Isloor, Ph.D.
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**Department of Electrical and Electronics Engineering**

	<b>No. Awarded</b>
Upto 31 <sup>st</sup> March 2016	20
During period 1 <sup>st</sup> April 2016 to 31 <sup>st</sup> March 2017	2

<b>Name of the Candidate</b>	<b>Title of the thesis</b>	<b>Year of Award</b>	<b>Guide (s)</b>
Dr. Santosha Kumar A.	Modeling and performance analysis of microgrid with fuel cell and wind based distributed generation systems	2016	D. N. Gaonkar, Ph.D.
Dr. Ansal V.	Dynamic voltage restorer based on high-frequency direct ac-ac converter	2016	P. Parthiban, Ph.D.

**Department of Electronics And Communication Engineering**

	<b>No. Awarded</b>
Upto 31 <sup>st</sup> March 2016	17
During period 1 <sup>st</sup> April 2016 to 31 <sup>st</sup> March 2017	01

(For period of report only)

<b>Name of Candidate</b>	<b>Title of Thesis</b>	<b>Year of Award</b>	<b>Guide (s)</b>
Chandrika B K (EC11F01)	Visually Lossless Compression of Volumetric Medical Images	2017	Sumam David S., Ph.D. Aparna P. , Ph.D.

**Department of Information Technology**

	<b>No. awarded (including those for which viva has been successfully completed)</b>
Up to 31 <sup>st</sup> March 2016	11
During period 1 <sup>st</sup> April 2016 to 31 <sup>st</sup> March 2017	2

(For period of report only)

<b>Name of Candidate</b>	<b>Title of Thesis</b>	<b>Year of Award</b>	<b>Guide(s)</b>
Sowmya Kamath S	DWDS-A Scalable, Context-aware Framework for Distributed Web Service Discovery Using Semantics	2016	Ananthanarayana V S, Ph.D.
B. R. Chandavarkar	Optimizing Vertical Handover Decision Making in Heterogeneous Wireless Networks	2016	G. Ram Mohana Reddy, Ph.D.

**Department of Mathematical And Computational Sciences**

	<b>No. awarded (including those for which viva has been successfully completed)</b>
Up to 31 <sup>st</sup> March 2016	30
During period 1 <sup>st</sup> April 2016 to 31 <sup>st</sup> March 2017	04

(For period of report only)

<b>Name of Candidate</b>	<b>Title of Thesis</b>	<b>Year of Award</b>	<b>Guide(s)</b>
Kumudakshi	A Study on Labelings of Directed Graphs	2016	S. M. Hegde, Ph.D.
Manasa K J	Imaginary Quadratic Fields, Elliptic Curves and Pell Surfaces	2016	B. R. Shankar, Ph.D.
Chetana U V	Chaotic Dynamical Systems on Symbolic Spaces	2016	B. R. Shankar, Ph.D.
Shubha V S	On The Implementation of Regularization Methods for Non-Linear Ill-Posed Operator Equations	2016	Santhosh George, Ph.D. & Jidesh P, Ph.D.

**Department of Mechanical Engineering**

	<b>No. awarded (including those for which viva has been successfully completed)</b>
Upto 31 <sup>st</sup> March 2015	67
During period 1 <sup>st</sup> April 2015 to 31 <sup>st</sup> March 2016	08

(For period of report only)

<b>Name of the candidate</b>	<b>Title of thesis</b>	<b>Year of award</b>	<b>Guide(s)</b>
S. Saboor	Experimental and Theoretical Studies of Green Energy Building using various Building materials and orientation	2016	T. P. Ashok Babu, Ph.D.
Shivaprasad Chennappagoudar	Effect of Ageing on Microstructure and Mechanical Properties of Al=Si Alloys with Copper Additions	2016	Vijay Desai, Ph.D. and S Narendranath, Ph.D.
M. Rajesh	Dynamic Mechanical Analysis of	2017	P Jeyaraj, Ph.D.

	Natural Fibre Fabric Polyester Composite		
Hemanth Kumar	Dynamic Analysis of Magnetorheological (MR) Fluid Based Semi active Suspension System for Vehicular Application Using Non-Parametric Approach	2016	Hemanth Kumar, Ph.D. and K V Gangadharan, Ph.D.
B. R. Bharath Kumar	Experimental Investigation of Cenosphere Reinforced HDPE Syntactic Foam Composite	2016	Mrityunjay Doddamani, Ph.D.
Priyaranjan Sharma	Evaluation of WEDM Performance Charatceristics of Inconel 706 for Turbine Disc Profile Application	2017	D. Chakradhar, Ph.D. and S. Narendranath, Ph.D.
Sateesh N H	Processing and characterization of Inconel 625-SiC Metal matrix Composites by Direct Metal Sintering	2016	G C Mohan Kumar, Ph.D.& Prasad Krishna, Ph.D.
ShriniwasS Metan	Analysis of a Shoulder and Knee Joint muscles using developed CPM Machine and Finite element Method	2016	G C Mohan Kumar, Ph.D.& Prasad Krishna, Ph.D.

### Department of Mining Engineering

	No. awarded (including those for which viva has been successfully completed)
Up to 31 <sup>st</sup> March, 2017	16
Up to 31 <sup>st</sup> March 2017 (During period 1 <sup>st</sup> April 2016 to 31 <sup>st</sup> March 2017)	3

Name of the candidate	Title of the thesis	Year of Award	Guide (s)
Ganapathi D. Moger	“Simulation and experimental Studies of haulage Drive system in an Underground Coal Mine for Energy Conservation”	2016	Ch.S.N.Murthy, Ph.D. and Udaya Kumar R.Y, Ph.D.
K.V. Nagesh	“Prediction of Dust Dispersion from Drilling Operation in Surface Mines”	2017	K.Ram Chandar, Ph.D. and Prof.V.R.sastry, Ph.D.
Shreekanth R.L	Investigating the Potential usage of Iron ore Waste in Brick making and Development of a Model for optimizing Physio- Mechanical Properties and the Cost.	2017	Harsha Vardhan, Ph.D. and M.Aruna, Ph.D.

### Department of Metallurgical and Materials Engineering

	No. awarded (including those for which viva has been successfully completed)
Up to 31 <sup>st</sup> March 2016	37

During period 1 <sup>st</sup> April 2016 to 31 <sup>st</sup> March 2017	4
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<b>Name of Candidates</b>	<b>Title of Thesis</b>	<b>Year of Award</b>	<b>Guide (s)</b>
Vijeesh	“Solidification and Heat Treatment of Modified/ Refined Al-Si Alloys (Thermal Analysis, Heat Transfer, Mechanical Properties and Microstructural Study)”	2016	K. Narayan Prabhu, Ph.D.
M. G. Ananda Kumar	“Studies on Materials Engineering Aspects of Microwave Sintered Aluminium – Censophere Composites”	2016	Jagannatha Nayak, Ph.D.
Sudheendra P.	“Synthesis and Characterization of Titanium – Aluminium Intermetallic Hard Coatings by Sputtering”	2017	A. O. Surendranathan, Ph.D.& Udaya Shankar, Ph.D.
Mrunali Sona	“Effect of Wetting Kinetics on Microstructure and Joint Strength of Sn-Cu and Sn-Ag-Cu Solders on Bare and Nickel-Coated Copper Substrates – A Study”	2017	K. Narayan Prabhu, Ph.D.

### **Department of Physics**

	No. awarded (including those for which viva has been successfully completed)
Up to 31 <sup>st</sup> March 2016	15
During period 1 <sup>st</sup> April 2016 to 31 <sup>st</sup> March 2017	Awarded - 4 Viva successfully completed - 1

<b>Name of Candidate</b>	<b>Title of Thesis</b>	<b>Year of Award</b>	<b>Guide(s)</b>
Shashidhara	Electrical studies on II-VI compound semiconductors for device applications	2016	G. K. Shivakumar, Ph.D.& Kasturi V. Bangera, Ph.D.
Hidayath Ulla	Investigations of Naphthalimide and Pyrene derivatives based Organic Light Emitting Diodes	2016	M.N. Satyanarayan, Ph.D.& G. Umesh, Ph.D.
G. Harikrishnan	AB Initio Studies of the Ground State Structure and Properties of Boron Carbides and Ruthenium Carbides	2016	Ajith K M, Ph.D.
Bhoominatha Sellarajan	Magnetic properties of Cobalt nanostructures grown using porous anodic alumina membrane	2016	H.S. Nagaraj, Ph.D.&Prasanta Chowdhury, Ph.D.
Manoj Kumar N	Synthesis, optimization and investigation of properties of BaO-	2017 (viva	H.D. Shashikala, Ph.D.

	P2O5 and BaO-CaF2-P2O5 glasses with and without Silver nanoparticles	completed)	
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**School of Management**

	No. awarded (including those for which viva has been successfully completed)
Up to 31 <sup>st</sup> March 2016	19

## 10.0 HUMAN RESOURCES

### 10.1 STAFF POSITION

	<b>Number</b>
<b>a) Teaching Staff</b>	
Professors	66
Associate Professors	36
Assistant Professors	134
Other staff, A.P.D. & System Manager02	
Contract Faculty	09
	-----
	<b>247</b>
<b>b) Non-Teaching Staff</b>	
Administrative Officers	14
Technical supporting staff	61
Non-technical supporting staff	97
	-----
	<b>172</b>

### **THE STAFF**

#### **(A) Administrative Staff (Teaching)**

##### **Director: (Head of the Institution)**

Srinivasan Sundarrajan, Ph.D. from 29.12.2015 to 24.6.2016

K N Lokesh, Ph.D. from 25.6.2016

##### **Dean (Academic)**

Katta Venkataramana, Ph.D.

##### **Dean (Planning and Development)**

A U Ravishankar, Ph.D.

##### **Dean (Faculty Welfare)**

T P Ashok Babu, Ph.D.

##### **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 8.10.2016

**Dean (Research & Consultancy)**

K Chandra Sekaran, Ph.D. from 1.9.2013 to 31.8.2016  
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) HOD from 12.3.2015 to 11.3.2017  
Mahesh A, Ph.D. (IIT Bombay) 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 Professor:**

K. Subrahmanya, M.Tech. (Mangalore University)  
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:**

D.V.R. Murthy, Ph.D. (Mangalore Univ.)  
G. Srinikethan, Ph.D. (I.I.T. Madras)  
Gopal Mugeraya, Ph.D. (I.I.Sc. Bangalore) on deputation to NIT Agartala as director from 8.10.2013  
M.B. Saidutta, Ph.D. (I.I.T. Bombay)  
Hari Mahalingam, Ph.D. Singapore from 18.6.2015

**Associate Professor:**

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

**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)

*National Institute of Technology Karnataka, Surathkal*

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) HOD till 11.7.2016

M.C. Narasimhan, Ph.D. (IIT Madras)

Katta Venkataramana, Dr.Eng. (Kyoto University, Japan)

A.U. Ravi Shankar, Ph.D (Univ. of Roorkee)

D. Venkata Reddy, Ph.D. (Geology) (Osmania University) HOD from 12.7.2016 till 20.4.2017

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 Professor:**

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

#### **Assistant Professor:**

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 Professor**

K Vinayakumar, Ph.D. expired on 6.3.2017

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 Professor:**

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. Tahiliani, 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.) HOD from 11.8.2014 to 10.8.2016  
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. Sripathi Acharya, Ph.D., (I.I.Sc., Bangalore) HOD from 1.4.2016

**Associate Professors:**

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

**Assistant Professors:**

Rekha S., Ph.D.  
Kalpana G. Bhat, M.E. (BVB Hubli)  
Aparna P., Ph.D. (NITK)  
Joseph Antony A., M.E. (Anna Univ., Chennai) - on EOL for Ph.D.  
B. Nagavel, M.E., (Jadavpur University) Pursuing Ph.D. at IIT Kharagpur

*National Institute of Technology Karnataka, Surathkal*

Krishna Moorthy K., M.E. (Anna Univ., Chennai) Pursuing Ph.D. at IIT, Bombay

Deepu Vijayasenan, 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

Pattipatisrihari, 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, M.E. (I.I.Sc. Bangalore)

Shubhanga K.N., Ph.D. (IIT, Bombay)

K. Rajagopal, M.Tech. (I.I.T. Kharagpur)

Vinatha U., Ph.D. (NITK, Surathkal) HOD

Gururaj S. Puneekar, Ph.D. (IIT, Kharagpur)

K. Manjunatha Sharma, Ph.D. (NITK)

Venkatesa Perumal, Ph.D. (IIT Delhi)

### **Assistant Professor :**

Idhya Raghavendra Rao M.Tech. (Mangalore Univ.)

Nagendrappa H., Ph.D. (Canada)

Dattatraya N. Goankar, Ph.D. (IIT, Roorkee)

Tukaram Moger, M.Tech. (IIT, Kanpur) Pursuing 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) HOD till 5.9.2016

K.B.Kiran, Ph.D. (Mangalore Univ.) HOD from 06.9.2016

### **Associate Professor:**

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

### **Assistant Professor:**

Bijuna C. Mohan, Ph.D. (NITK, Surathkal)

Rashmi Uchil, Ph.D. (NITK, Surathkal)

Sunil Cyprian Dsouza, Ph.D., (NITK) expired on 19.11.2016

*National Institute of Technology Karnataka, 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  
Professor**

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

**Assistant Professor:**

Dinesh Naik, M.Tech. (VTU, Belgaum)  
Geetha V., Ph.D. (NITK)  
Biju R. Mohan, M.Tech. (Pondichery University)  
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:**

Keshava Prasad Halemane, Ph.D. (Carnegie-Mellon Univ. U.S.A.) retired on 1.1.2017  
A. Kandasamy, Ph.D. (I.I.T. Bombay)  
Suresh M. Hegde, Ph.D. (Delhi Univ.)  
Santhosh George, Ph.D. (Goa University) HOD  
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)  
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)  
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)  
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)HOD  
Satyabodh M Kulkarni, Ph.D. (I.I.Sc., Bangalore)  
Gangadharan K.V., Ph.D. (I.I.T., Madras) HOD till 21.01.2017  
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.)  
S.M. Murigendrappa, Ph.D. (I.I.T., Bombay)

**Assistant Professors**

Mervin A. Herbert, Ph.D. (I.I.T., Kharagpur)  
Vasudeva M., M.Tech. (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)  
Ajay Kumar Yadav, Ph.D. (I.I.T. Kharagpur)  
D. Chakradhar, Ph.D., (NIT Warangal)  
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. (Wnight 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)  
Ranjith M., Ph.D. (Busan, South Korea) contractual  
Sharnappa Joladarashi, Ph.D. (IIT Madras)  
Arumuga Perumal D, Ph.D. ((IIT Guwahati)  
Somasekhara Rao Todeti, Ph.D., (IISc Bangalore)

**Department of Mining Engineering**

**Professors:**

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

**Associate Professor:**

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

M. Aruna, B.E. 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)

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) HOD from 20.4.2014 to 19.4.2016

**Associate Professor:**

Udaya Bhat, Ph.D. (I.I.Sc., Bangalore) HOD from 20.4.2016

Anandan Srinivasan, Ph.D. (I.I.T., Kharagpur)

Kumkum Banerjee, Ph.D. (IIT Kharagpur) from 10.8.2015

**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)

Mohamad Imtiyaz Ahmed, Ph.D. (IIT Madras)

**Department of Physics**

**Professor:**

G. Umesh, Ph.D. (I.I.T. - Delhi) retired on 31.1.2017

Kasturi V Bangera, Ph.D. (Mangalore Univ.)

H.D. Shashikala Ph.D (Osmania Univ.) HOD from 11.8.2015 to 10.08.2016

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 Cincinnati)

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)

**Resident Engineer i/c:**

Goankar, Ph.D. from 1.9.2015

**Resident Medical Officers:**

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

**Medical Officer:**

Dr. M.L. Balabhaskara

**Professor Incharge Hostel Affairs:**

Narendranath S, Ph.D. from 1.4.2014 to 7.4.2016

Vasudeva M, Ph.D. from 8.4.2016 to 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.

**Central Public Information Officer (CPIO):**

K. Ravindranath, Registrar

**OTHER SECTIONS**

**Department of Training & Placement**

**Professor:**

Lakshman N, Ph.D. from 01.04.2014 till 14.6.2016

*National Institute of Technology Karnataka, Surathkal*

Muralidhar Kulkarni, Ph.D. from 15.6.2016

**Industry Institute Partnership Cell**

**Professor I/c.:**

S M Kulkarni, Ph.D.

**SC/ST Cell**

B M Doddamani, Ph.D. from 16.5.2013 to 15.6.2016

P E Jagadeesh Babu, Ph.D. from 16.6.2016

**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)

**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.

**R&D Centre on Roofing Tiles**

Faculty incharge – Dean (R&C)

**Centre for Continuing Education**

**Chairman**

S M Hegde, Ph.D., from 1.4.2014 to 7.7.2016

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 31-03-2017
1	Registrar	1
2	Dy. Registrar (A/C's)	1
3	Asst. Registrar (Admin)	1
4	Asst.Registrar (Accounts)	1
5	Asst.Registrar (Academic)	2
6	Medical Officer	2
7	Senior Scientific Officer	1
8	Assistant Librarian	2
9	SAS Officer	2
10	Security Officer	1
11	Senior Superintendent	1
12	Superintendent	2
13	Senior Secretary	1
14	Junior Assistant	15
15	Senior Assistant	29
16	Asst.Selection Grade-II	1
17	Asst.Selection Grade-I	7
18	Senior Stenographer	1
19	Stenographer (SG - II)	4
20	Technical Assistant	4
21	Senior Technical Assistant	7
22	Technical Assistant (SG- II)	1
23	Assistant Engineer	12
24	Assistant Engineer (SG - II)	17
25	Assistant Engineer (SG- I)	3
26	Work Assistant	3
27	Senior work Assistant	1
28	Work Assistant (SG - II)	1

*National Institute of Technology Karnataka, Surathkal*

29	Technician	2
30	Senior Technician	7
31	Technician (SG-II)	3
32	Attendant	30
33	Senior Attendant	7
<b>Total</b>		<b>173</b>

## 11.0 FACILITIES/AMENITIES

### 11.1 Hostels

The Institute reopened on 21-07-2016 for under-graduate and Post-graduate s per Academic Calendar for the year 2016-2017. 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 = 06

Total number of Rooms for boys = 2674

Total number of rooms for girls = 591 (Common halls-05)

S.No.	Block	No. of Students	No. of Rooms
1	1 <sup>st</sup> Block	224	84
2	2 <sup>nd</sup> Block	239	84
3	3 <sup>rd</sup> Block	258	132
4	4 <sup>th</sup> Block	256	132
5	5 <sup>th</sup> Block	238	256
6	PG Block	332	150
7	7 <sup>th</sup> Block	303	162
8	8 <sup>th</sup> Block	285	162
9	Mega Tower 1	477	504
10	Mega Tower 2	460	504
11	Mega Tower 3	501	504
12	GH 1 <sup>st</sup> Block	66	34
13	GH 2 <sup>nd</sup> Block	93	47
14	GH 3 <sup>rd</sup> Block	453	153
15	GH 4 <sup>th</sup> Block	371	329
16	MS 1 <sup>st</sup> Block	112	8
17	IH Block	14	--
	<b>Total</b>	<b>4682</b> <b>(B-3573, G-1109)</b>	<b>3245</b>

There are 11 messes operating in various hostel blocks to cater the needs of inmates. Out of which two vegetarian messes are running in girl's hostel and 7 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**

S.No.	Name of the Mess	Strength
1	I Block Mess	297
2	II Block Mess	293
3	III Block Mess	98
4	IV Block Mess (Non Veg-Out Source)	517
5	V Block Mess (Non Veg-Out Source)	515
6	PG Block Mess (Out Source)	204
7	VII Block Mess	300
8	VIII Block Mess (Out Source)	505
9	Mega Block Mess (Out Source)	600
10	GH I block Mess, Ground Floor (Out Source)	532
11	GH II block Mess, First Floor (Out Source)	523

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 11 messes, V block mess, VIII block mess, PG block mess, Mega Hostel Mess, IV Block mess and Girls hostel messes are managed by the contractors.

The mess bill for the academic year 2016-17 shown in Table 1:-

**Table 1 MESS BILL DETAILS FROM JULY 2016 TO MARCH 2017**

Sl. No.	Mess	Month							
		July-August 2016		September 2016		October 2016		Nov to Dec. 2016	
		Per month	Per day	Per month	Per day	Per month	Per day	Per month	Per day
1	I BLOCK (MII)	4058	92.23	2806	93.53	2794	90.13	3727	93.18
2	II BLOCK (SB)	4058	92.23	2806	93.53	2794	90.13	3727	93.18
3	III BLOCK (MI)	4058	92.23	2806	93.53	2794	90.13	3075	93.18
4	IV BLOCK (N.V.)(OS)	4058	92.23	2806	93.53	2794	90.13	3075	93.18
5	V BLOCK (BI) (OS)	4058	92.23	2806	93.53	2794	90.13	3075	93.18
6	VII BLOCK (BII)	4058	92.23	2806	93.53	2794	90.13	3075	93.18
7	VIII BLOCK (OS)	4058	92.23	2806	93.53	2794	90.13	3075	93.18
8	P.G BLOCK (OS)	4058	92.23	2806	93.53	2794	90.13	3075	93.18

9	MEGA BLOCK (OS)	4058	92.23	2806	93.53	2794	90.13	3075	93.18	
10	G.H BLOCK MESS I (OS)	4058	92.23	2806	93.53	2794	90.13	3727	93.18	
11	G.H BLOCK MESS II (OS)	4058	92.23	2806	93.53	2794	90.13	3727	93.18	
		Month								
Sl. No.	Mess	January 2017		February 2017		March 2017				
		Per month	Per day	Per month	Per day	Per month	Per day			
1	I BLOCK (MII)	3617	95.18	2691	96.11	2982	96.19			
2	II BLOCK (SB)	3617	95.18	2691	96.11	2982	96.19			
3	III BLOCK (MI)	3617	95.18	2691	96.11	2982	96.19			
4	IV BLOCK (N.V.)(OS)	3617	95.18	2691	96.11	2982	96.19			
5	V BLOCK (BI) (OS)	3617	95.18	2691	96.11	2982	96.19			
6	VII BLOCK (BII)	3617	95.18	2691	96.11	2982	96.19			
7	VIII BLOCK (OS)	3617	95.18	2691	96.11	2982	96.19			
8	P.G BLOCK (OS)	3617	95.18	2691	96.11	2982	96.19			
9	MEGA BLOCK (OS)	3617	95.18	2691	96.11	2982	96.19			
10	G.H BLOCK MESS I (OS)	3617	95.18	2691	96.11	2982	96.19			
11	G.H BLOCK MESS II (OS)	3617	95.18	2691	96.11	2982	96.19			

### **Reading Room Committee**

Reading room in the Hostel is provided with books and periodicals of different languages. A separate section of the reading Room has been functioning in IV Block hostel. This section is managed by a separate elected students committee. The reading room committee organized CRRESCENDO 2016 during March 24-26, 2017 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 flood light cricket, basket ball and foot ball tournaments during September 2016-April 2017. 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 hosteller's 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 and Ganesh Chaturthi celebrated by hostellers, through the fund is raised by contribution i.e Rs. 25/- from the hostellers. Diwali festival 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. 1,01302/- 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:

A Chitharanjan Hegde, Ph.D.	- Professor in-charge Hostel Affairs
Sri. Vasudeva M.	- Warden (Finance)
Basavaraju Manu, Ph.D.	- Warden, I Hostel Block
Kartick Tarafder, Ph.D.	- Warden, II Hostel Block
C. Rajasekaran, Ph.D.	- Warden, III Hostel Block
Subhaschandra Kattimani, Ph.D.	- Warden, IV Hostel Block
Paresh Chandra Deka, Ph.D.	- Warden, V Hostel Block
Ravishankar K.S., Ph.D.	- Warden, PG Hostel Block
Patipati Srihari, 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
Ramprasad Choudhary, Ph.D.	- Warden, Mega Hostel Tower III
Shashibhushan Arya, Ph.D.	- Warden, Mega Hostel Tower III
Jagadeeshbabu P.E., Ph.D.	- Warden, Mega Hostel Tower I
Dattatraya N. Gaonkar, 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
(Mrs.) Suprabha K R., Ph.D.	- Warden, Girls Hostel III Block
(Mrs.) Savita Bhat, Ph.D.	- Warden, Girls Hostel III Block

Prof. Dr. K.N Lokesh, 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 function of the hostel activities.

### **11.2 CENTRAL COMPUTER CENTRE**

CCC has contributed in designing and 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 MACS). CCC has the following permanent staff associated to it. One Systems Manager, One Scientific Officer, One Assistant Engineer (SGI), Two Assistant Engineers (SG2), Two Assistant Engineers, One Technician (SGII), One Senior Attendant, Two Attendants and One Junior Assistant. CCC also has a Literate Assistant and an ITI trained person working in 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 broadband 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 in 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 TEWIP funds. The third Stage including Core Network Expansion and the campus WiFi is completed in 2016 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 Wi-Fi 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 27-08-2010 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 and Technology, Grid Computing, Bio informatics, 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 48×10G SFP+, 48× 10G copper and 12×40G QSFP0 and one Brocade VDX 6740T-56-IG-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 Blade Servers with VMWare and the old servers are being migrated to the virtual platform.

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 and browsing. The computers of CCC are used to support First year Computational Practice Labs, General Purpose Learning and Internet access, On-Line tests (training and Placement) and 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 200VA 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 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 Wi-Fi 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 48×10G SFP+, 48×10G copper and 12 ×40G QSFP) and one Brocade VDX 6740T-56-1G-F server farm switch.
  - b) 23 Nos. of Brocade ICX7250-48-2X10G and 80Nos. 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 WiOFi Controller Ruckus SmartZone 100

The expanded network including the Core Switches, Firewall, Backbone switches and the Campus WiOFi equipments are under warranty and maintenance of BSNL for 5 years.

An HPC cluster is being installed in the CCC premises. This will be connected to the core network and made available to the entire Campus Network.

### **Notable Achievements during the year**

- Expansion of the Core Network
- Upgrading the Academic Backbone to 10Gbps
- Expansion of the Bandwidth
- Establishing the Campus WiFi and Upgraded Core Network
- Establishing the HPC cluster
- Migrating the nitk.ac.in Email Service to NIC Cloud.

### **Additions to the Building Infrastructure**

- Reorganisation of the Data Centre and HPC Cluster Rooms
- Alumni Funded Skill Development Centre
- Re organization of the First Floor Lab
- Reassessment and Improvement on the power Backup and Air conditioning
- List of Laboratories in the Department
  1. CCC LAN with 90 Desktops
- Skill Development Centre with 150 Thin clients supported by a Server for Virtual Desktop
- HPC Cluster made available to all
- 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, 34,000 including Book-Bank books, online e-Books subscribes 378 print journals for all the disciplines and access to 11801online Journals. 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 2015 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 sqm.
Number of seats in reading space	500
Number of users (issue/return/renewal book ) per day	500
Number of users (reading space) per day	700
Timings: During working day, weekend, and vacation	Monday to Saturday 8.00 a.m. to 12.00 midnight Sunday: 8.00 a.m.to 4.00 p.m. Vacation: 9:00 a.m. to 6:00 p.m. General Holidays: 9.00 a.m. to 12.00 noon
Number of library staff	18
Number of library staff with degree in Library	2
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 1,34,000 books besides subscribing to around 378 National and International Print Journals and 11801 eJournals (Including Full-text Databases)

## **2. Infrastructure:-**

The Central Library has Wi-Fi connectivity with more 25 personal computers in Digital Reading Room 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:-**

- a. Library is a member of “eShodhSindhu: Library Consortium for Higher Education Institutes” (MHRD). It provides full text resources like IEL online, Science Direct, Springer Link, Indian Standards of all branches of Engineering, Engineering index etc.
- b. Member of DELNET (Developing Library Network). It provides resource sharing amongst the member libraries and inter library loan facility.
- c. Library is a member of NIT – Consortium. It facilitate subscription to the full text resources like Springer, Taylor & Francis, etc.

## **5. Digital Library:-**

A separate “Digital Library” (Digital Reading Room) unit has been established under funding from TEQIP Phase-I with resources being shared with other NIT’s, IIT’s and industries. The Digital Reading Room is exclusively used for the online access of eJournals and other eResources Subscribed by the institute and provided through consortiums.

### **Some of the services available in the Digital Library are:**

- ❖ Collection and Development of Library materials in Digital Form.
- ❖ Books search facility using Web Online Public Access Catalogue (WebOPAC).
- ❖ Online eJournal Access through various consortiums.
- ❖ Technical reports of Bureau of Indian Standard (BIS) in Digital Form.
- ❖ Patent Database Search facility.
- ❖ Resource sharing with other premier Institute Libraries (IITs NITs DELNET, etc.).

- ❖ Suitable infrastructures to use the digital information.
- ❖ INTRANET and INTERNET Based Service.
- ❖ eBooks/ eJournal Facility
- ❖ Library Website / Facebook page updates.

## **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.

## **7. The following facilities have already been introduced in the Library:**

- Automated Check-In and Check-Out Facility
- 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 eShodhSindhu Consortium
- Internet based Library Services

## **8. Borrowing Privileges and Renewal:-**

<b>User Types</b>	<b>Items</b>	<b>Period of loan</b>
Teaching Faculty	15 books	1 semester
Research Scholars	5 books	1 semester
UG/PG students	6 books	30 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 updates through eMail.
- Newspaper Display
- Selective Dissemination of Information and Current Awareness Service (SDI and CAS)
- Online and eMail based SDI & Alert Service
- Book-Bank facility
- Digital Library
- Inter Library Loan Service
- Reprographic services
- Web Online Public Access Catalogues
- CD-ROM data base access
- Request based Bibliography/ Literature Search Service
- Practical and Apprenticeship training for diploma and degree student of Library and Information Science
- E-Journals access through Consortiums.

**9. Other Activities:-**

- a. For fresher of U.G. and P.G. courses, Library conducting Orientation Classes in the beginning of the academic year.
- b. Library conducts hands-on training and User Awareness Programs regularly.
- c. The Library is compiles list of “New Arrivals” Monthly, shared with users through eMail and Website.
- d. The Library provides training programme to the LIS Graduates& Diploma Students of the Government Polytechnics for Women, Mangalore and Apprentice Training programme is also conducting.
- e. 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.
- f. Services to Industries, Educational Institutions, Government Establishments, the neighboring Govt. Departments, Educational Institutions and Industries are using this Library services quite often.
- g. Membership fee of Rs.10.000/- (5 cards) introduced to the industries and several industries are members to this Library.
- h. The Library has an Inter Library Loan facility with leading Institutions and G.O.I. Establishment.

**Research Publications**

**Journals (National):-**

Sl. No.	Title	Journal Name. Vol. Issue, Page No's	Author(s)
1	Facebook Pages for Libraries: A comparative study of Indian Library Facebook Pages	International Research Journal of Multidisciplinary Science & Technology (ISSN: 2455-930X), Vol. 01, No. 03,	Iranna M. Shettar, Shashikumar

		July 2016, pp1-5	
2	The Role of City Central Libraries in Promotion of Informal Education with Special Reference to CCL, Hubli-Dharwad	e-Library Science Research Journal (ISSN No: 2319-8435), Vol. 4, No. 9, pp1-9	Sidlingappa M Huded, Shridhar Gosar G and Iranna M. Shettar

**Conference (National):-**

Sl. No.	Title of paper	Conference Name, Place, Dates, Page Nos.	Author(s)
1	Quick Response (QR) Codes in Libraries: Case study on the use of QR codes in the Central Library, NITK	TIFR-BOSLA National Conference on Future Librarianship-2016, TIFR, Mumbai, 16-17 Apr. 2017, pp. 129-134	Iranna M. Shettar
2	Reinventing Skills for a 21st Century Library Professionals	7th KSCLA National Conference: Facets of Information Literacy, Karnataka State Women's University, Vijayapura, 18 -19 Nov. 2016, pp. 95-102	Iranna M. Shettar, Basavaraj Chavan
3	Electronic Books (eBooks): Acceptance and Usage at NITK, Surathkal	LIFE-2017: National Conference on Library Innovations for Excellence, IISER Pune, 16-17 Feb. 2017	Iranna M. Shettar

**Conference (International):-**

Sl. No.	Title of paper	Conference Name, Place, Dates, Page Nos.	Author(s)
1	IEEE and NITK Surathkal: A Partnership to Improve Student Engagement with Library Resources (Poster Presentation)	International Conference on Digital Libraries (ICDL) 2016, TERI, New Delhi, 13-16 Dec. 2016, pp. 1003	Dhanukumar Pattanashetti, Iranna M. Shettar

**Book chapters:-**

Sl. No.	Title	Book Title, ISBN, Page Nos.	Author(s)
1	From Print to Digital: Managing Transformation	Future Challenges for Library & Information Management in Digital Environment (ISBN: 978-81-920849-9-2), Ed by. Amit Kishore and Others, Published by University Prakashan, Agra pp. 129-136	Iranna M. Shettar

**Technical Events:-**

<b>Type of event</b>	<b>Name of event</b>	<b>Dates &amp; Duration</b>	<b>Sponsor (s)</b>	<b>Co-ordinator</b>
Workshop	Author Workshop on "How to Write and Publish Scholarly Articles"	26 <sup>th</sup> Oct. 2016 (Half Day)	Central Library & SpringerNature Publisher	Iranna Shettar
Workshop	One Day Workshop on "Redefining Role of Libraries in Digital Learning Environment"	18 <sup>th</sup> Feb. 2017	TEQIP-II	Iranna Shettar

**Awards & Recognition:-**

<b>Name of Staff/Faculty</b>	<b>Assignment/Recognition/Award</b>
Iranna M. Shettar	Received "Best Paper Award" for paper presented in the TIFR-BOSLA National Conference on Future Librarianship-2016, TIFR, Mumbai, 16-17 Apr. 2017 Appointed as "Nodal Officer" for National Digital Library (NDL) – a MHRD Initiative @ NITK
Mrs. Anasuya C & Library Staff	Received "Certificate of Appreciation" for active participation in DELNET activities

**11.4 LABORATORIES**

***Department of Applied Mechanics and Hydraulics***

<b>Name of the lab.</b>	<b>Major equipments / facilities</b>
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 Distance measurement equipment
Computer Laboratory	Computer systems : 15 No.s Mike 21 software Scanner, Laser printer

### **Department of ChemicalEngineering**

<b>Name Of Laboratory</b>	<b>Major Equipment/Facilities</b>
Process Control & Reaction Engg (870 Sq.ft)	Constant Temperature Bath, Gas Flow Meter - Wet Type, Rotary Shaker, 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, Low Speed Stirrer - Remi, De - Ioniser Indion With Accessories, Rotary Vacuum, Solid State Fermentation Plant (Environmental Chamber), Nono Particle Analyser
Heat Transfer Lab (2376 Sq.ft)	Air Compressor - TS07120HN / 220lit (2Nos), Air Compressor - SS15120H / 500 lit, Eddy Current Drive With Motor & Accessories ( <b>4 Nos.</b> ), 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, 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, PM 2.5 Fine Dust Sampler, Hydraulic Compression Testing Machine, High Volume Sampler ENVOIR TECH 460 BL, Portable Gas Sampler, Plate Heat Exchanger, Stack Monitoring Kit, Automated Depth Water Sampler, Eddy Current Drive With Motor & Accessories, Pyrolysis Plant, Fluidized Bed Combustor (IIT Madras)
Particulate Technology Laboratory (841 Sqft)	Ball Mill , Sieve Shaking Machine, Balance, Jaw crusher, Screen effectiveness, Air permeability, Air elutriation, Batch sedimentation, Leaf filter
Mass Transfer Lab (1750 Sqft)	Balance - Triple Beam , Electric Oven - With Forced Air Supply, Vacuum Pump Oil Free Portable, Orbital Shaker ISK 300, Autoclave (Vertical), Microwave Oven Sun Sung, 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, Micro Wave Ashing System Qash 1800, Balance - Electronic, Peristaltic Pump, Rotary Flash Evaporator, Dust Track Sampler, Microwave Assisted Pyrolytic Reactor
Testing Lab (2065 Sqft)	Centrifuge, Digital Panel Meter, Digital Ph Mete, Vacuum Pump Oil Free Portable, Flame Photometer, Furnace - Crucible Type, Furnace - Muffle - Rectangular, Galvanometer - Light Spot, Potentiometer - Student's, Refractometer - Hand Held, Refractometer - Abbe, Tinto Meter, Turbidity Meter, Vacuum Oven, Hot Air Oven 3'x3'x2', C.O.D. Digester - Hach, Brook Field Viscometer, Distillation Unit -Automatic Cabinet Water Still, Panel Zero Air ,H2,He & N2, Desk Top Air Quality CO2 Meter, Carbon Monoxide Meter, Flue Gas Analyser, Gas Chromatograph, Bomb Calorimeter, Airflow Meter-Lynx, Peristaltic Pump, Torque Meter, Conductivity Meter, Spectrophotometer, B.O.D. Incubator, C.O.D. Digestion Apparatus, Horizontal Laminar Flow Work Station Aircon, Industrial Ph Amplifier With Accessories, Conductivity Analyser With Accessories, Ph Analyser With Accessories, Ph Sensor, Jar Test Apparatus, Noise Level Meter, Hach Sension 156 (Ph, D.O., Conductivity), YSI Sension 156 (Ph, D.O., Conductivity), Water Purification Ultra SYS , Melting Point Apparatus, Rocker Shaker For Gel Stainer, Fume Chamber
Fermentation Lab (616 Sqft)	Orbital Shaker Scigenics, Autoclave (Vertical), Co2 Incubator, Gel Electrophoresis, Microwave Digestion System , Fermenter - Bioferm,Muffle Furnace With Programmable Temp Controller, Trinocular

	<p>Microscope – Metzerm                  Strain Cooler – Cryostat, Incubator - Shaker-Biochem ,                  High Speed Cooling Centrifuge – Remi, Freeze Dryer DC55A,                  Fraction Collector – Automatic, Incubator Bacteriological (IPC),                  Deep Freezer +( 1 No Stabilizer), Low Speed Centrifuge 5ml/15ml,                  C.O.D Analyser, UV Transilluminator</p>
Advance Instrumentation Lab (304 Sqft)	<p>Electrochemical Workstation, Cell C-Electrode, Gel Electrophoresis, Eppendroff Centrifuge, Bio Sensor, Auto Titrator, Mini Protean Tetra Cell, Trinocular Microscope Tifac, Balance – Electronic, Spectro-Photometer - Labomed &amp; Systronics, Total Organic Carbon Analyser, Balance - Electronic , Graphite Furnance And Hydride Generator, Milli Q Academic Water Purifier, GBC AAS, High Performance Liquid Chromotograph , Gas Chromotography-Mass Spectrophotometer, Ion Chromotography, High Speed Refrigerated Cooling Centrifuge</p>
Biotech Lab ( 1806 Sqft )	<p>Colony Counter, 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 &amp; Do Transmitter, Lyophilizer, Gel Electrophoresis, Contagious Homogenizer &amp; Homogenizer (Ultra), Lab Bioreactor With Variable Volume Fixtures, TG_DTA 6300 (Thermo Gravimetric Analyser), Brook Field Viscometer, Tangential Flow Filtration With Ultra Filtration Module, Surface Tension Meter, Temp Controlled Digital Density Meter, Auto Titrator, Static Mixture, Balance - Electronic Essae Treroka, Spectro Photometer -, Labomed, Incubator - Shaker, Horizontal Laminar Flow Work Station, Vibracell Ultrasonic Processor, Freeze Dryer DC55A, Fraction Collector – Automatic, Deep Freezer +( 1 No Stabilizer), Electronic Balance(Model BT 2202S, BT 224S), Vacum Pressure Cum Kit, Nanodrop Spectrophotometer, Vortex Mixture, Water Purification Ultra SYS, HPLC, ELS II Detector HPLC, RCT Basic Safety Control Magnetic Stirrer, Cryostat Bath, Karl Fischer Titrator, Deepfreezer, Refrigerator Whirl Pool</p>
Project Lab. I (130 Sqft)	<p>Ultra Sonic Water Bath, Refrigerated Centrifuge, Digital Ph Meter, Rotary Shaker –Lead, Quartz Immersion Well Reactor, Muffle Furnance Digitalm, Fire Extinguisher CO2, Ultra</p>

	Sonicator,
Project Lab. I (130 Sqft)	Ultra Sonic Water Bath, Refrigerated Centrifuge, Digital Ph Meter, Rotary Shaker –Lead, Quartz Immersion Well Reactor, Muffle Furnance Digital, Fire Extinguisher CO <sub>2</sub> , Ultra Sonicator,
Project Lab. IA	Continuous Homoginiser & Homoginiser, Refrigerated Heating Bath With Circulator, Dosage Pump
Project Lab II (72 Sqft)	Bench Top Fermenter, Horizontal Laminar Flow Work Station
Project Lab III	Gel Documentation, Unisim Design Academic Programe, Deep Freezer, Programme Temperature Control System, Freez Dryer, Centrifuge, Thermo Spectrometer/Hitachi, Micro Scope
Project Lab IV (112 Sqft ) Near Boiler Room	Air Blower- Centrifugal, Boiler -Cross Tube - Vertical Jaya, Electric Oven - With Forced Air Supply, Hydraulic Test Pressure Pump, 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 ( 664 Sqft ) DG ROOM	Flash Point Apparatus, Viscometer - (Redwood & Say Bolt), Viscometer - (Saybolt), Eddy Current Drive With Motor & Accessories, Ozone Generator-L4g, Peristaltic Pump – Murhopye, Fire Extinguisher Powder, Jacketed Vessels, Generator - 15 KVA, DO Eutech, Ozone Monitor/TLA
Project Lab VI ( 774 Sqft )	Air Compressor - SC-150, Elgi, Centrifuge, Digital Ph Meter Cyberscan Tutor-Ds, Electric Oven, Furnace - Muffle – Rectangular, Turbidimeter, Microwave Oven, Eppendrof Centrifuge, Refrigerated Heating Bath Circulator, Surface Tensio Meter, Dosing Pump With Pump Head, Membrance Testing System, Refrigerated Water Bath With Circulating Pump, Rotary High Vacuum Pump, Balance - Electronic Precisa 1000C, Conductivity Meter – Eutech, Low Speed Stirrer - Remi, Incubator- Shaker Lead, Water Bath Shaker, Single/Double Distillation Unit (Tifac), Muffle Funace, Hot Air Oven, Bead Mill, Vortex Mixer, Distillation Unit, Solid State Fermentation Plant (Enviorn Chamber Shifted To Project Lab II ), Rotating Disc Counter, Continuous Membrane Filtration Unit
Project Lab VII ( 708 Sqft )	Colony Counter, Digital Ph Meter Ph Meter, Electric Oven - With Forced Air Supply, Water Bath Orbitek,,Micro Oven, Static Mixture, Balance – Electronic, Incubator - Shaker Lead, B.O.D. Incubator Murhophy, Horizontal Laminar Flow Work Station, Incubator Bacteriological (IPC), Hot Air Oven, Single/Double Distillation Unit (Tifac), Low Speed Centrifuge 5ml/15ml, Ultra Sonic

	Bath, Water Bath Shaker, Electrophoresis
Computer Lab (1575 Sqft)	Pressure Gauge Tester, High Pressure High Temperature Gas Liquid Phase Particle Size Analyser, Incubator - Shaker Lead, BOD Incubator, Dell / HP Computers, Software- Design Expert 8 Standalone Perpetual & Academic Licence, Physical CD (DVD Media Kit), UNISIM Software For Design, ANSYS Academic Research CPD Soft Ware Version 14.5 Latest,
Dst - Fist Laboratory (746 Sqft)	GEL Documentation, TG-DTA 6300( Thermo Gravimetric Analyser, LC -MS Systems & Accessories, ICP -OES
Immunology Lab (200 Sqft ) Near Virtual Lab.	Micro Centrifuge Spinwin, Electric Oven - With Forced Air Supply, Vacuum Pump Oil Free Portable, Co2 Incubator, Micro Wave Oven, PM 2.5 Fine Dust Sampler, Plate Master TM Speed Plating, Ultra Sonic Water Bath, Biological Safety Cabinet, Auto Clave With Teflon Liner, Trinocular Microscope Gangamma, Balance - Electronic Sami Micro, Fire Extinguisher CO2, High Volume Sampler, Deep Freezer +( 1 No Stabilizer), Vortex Mixture, Dry Bath With Heating Block, High Speed Refrigerated Cooling Centrifuge, 6 Stage Microbial Impactor, Power Pack For Southern & Northern Blots, Automated Microplate Reader, Meteorological Station, Western Bolt Unit, Photometer For PCR Work, Polymerze Chain Reaction Machine
Immunology Lab (In The Workshop)	Oven, Co2 Incubator, PM 2.5 Fine Dust Sampler, Biological Safety Cabinet, Balance, High Volume Sampler, Deep Freezer, 6 Stage Microbial Impactor, Meteorological Station

### Department of Civil Engineering

Name of Laboratory	Major Equipment/Facilities
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.
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 Gas , Voltametry , High Volume Air Sampler , Ion selective electrode meter , HPLC , Chromatograph . Flame Photometer , Kjeldahl nitrogen distillation apparatus
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 Gyratory 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, RCPT Test Apparatus, 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
Computer Aided Design (CAD) Laboratory	30 Computers, 2 No's 5KVA UPS Softwares?

**Department of Computer Engineering**

Name of Laboratory	Major Equipment/Facilities
SYSTEMS & NETWORKS LAB	Computers – 48 No's.(21-Dell OptiPlex 9020MT, 21-HP Elite desk 800G1, 6-Dell Precision T1650) 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) Used for conducting regular UG Lab classes.
ALGORITHMS LAB	Computers – 32 Nos. (28- Dell OptiPlex 9010DT, 4- Lenovo Think Centre M Series) Printer – 01 (Cannon LBP 2900B) LAN – 100 Mbps Wi-Fi AP – 01 (RuckusR300) Used for conducting regular UG Lab classes.
INTEL E-COMMERCE & MULTI-CORE LAB (M.TECH (CSE)-PROJECT LAB)	Computers – 20 Nos. (1 – Lenovo Think Centre, 19 – Dell OptiPlex9020MT) Projector - 01 (HITACHI – CPX4014WN 3LCD Projector) Printer – 01 (HP LaserJet 1020 plus)

Name of Laboratory	Major Equipment/Facilities
	LAN – 100 Mbps Wi-Fi AP – 01 (RuckusR300) Used for conducting regular M.Tech Project Works
DISTRIBUTED & CLOUD COMPUTING LAB	Computers –08 Nos. (05 – Dell OptiPlex 9010DT, 2- HP Elite desk 800G1, 1 - Acer Variton System) Printer – 01 (HP LaserJet 1010) LAN – 100 Mbps Wi-Fi AP – 01 (RuckusR300) Used for Ph.D. /Research Work
DATA INFORMATICS & ANALYTICS LAB	Computers –16 Nos. (11 – Dell OptiPlex 9010DT, 4 - Dell Precision T1650, 1- IBM Lenovo Think Centre) 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, 3 – Dell OptiPlex 9010DT , 2- Lenovo Think Centre M 90, 1- IBM Lenovo Think Centre) Printer – 01 (HP LaserJet 1010) LAN – 100 Mbps Wi-Fi AP – 01 (RuckusR300) Used for Ph.D./Research Work
ADVANCED COMPUTING LAB	Computers – 52 Nos. (31 – Lenovo ThinkCentre M90, 12 – Dell, OptiPlex 9010DT, 9 - HP Elite desk 800G1) LAN – 100 Mbps Wi-Fi – 01 (Ruckus R300) Projector - 01 (Dell 12109 ) Used for First year M.Tech (CSE, CSE-IS) students.
Information Security Lab(M.Tech (CSE-IS) Project Lab)	Computers – 34 Nos. (20 – Dell OptiPlex 9010DT, 1 – Lenovo Workstation S30, 1 – Lenovo Workstation D20, 1-Lenovo Workstation S20, 07 - Lenovo Workstation P700, 4- Dell OptiPlex 9020) Printer – 01 (HP LaserJet 1010) Wi-Fi – 01 (Ruckus R300) LAN – 100 MbpsUsed for second year M.Tech. (IS) Project students.
INTERNET & WEB ENGINEERING LAB	Computers – 42No's.( 35-HP Elitedesk 800G1, 1- Dell OptiPlex 9010MT, 3 - Lenovo Think Centre M90, 3- Acer Variton Systems) Projector - 01 (EPSON X36 LCD Projector) Printer – 01 (HP LaserJet 1020 plus) LAN – 100 Mbps Wi-Fi AP – 01 (Ruckus R300) Used for conducting regular UG Lab classes.

Name of Laboratory		Major Equipment/Facilities		
M.TECH (RESEARCH) LAB		Computers –14 Nos. (02 – Dell OptiPlex 9010DT, 6 - Lenovo Think Centre M90, 4- Lenovo Think Centre M series, 2- Acer Variton Systems) LAN – 100 MbpsWi-Fi AP – 01 (Ruckus R300) Used for M.Tech (CSE-IS students).		
Image and Speech Processing Lab		Computers –22 Nos. (19 – Lenovo ThinkStation, 2 - Dell - Precession workstation ,1-HP Elite Desk 705 GIMT)Printer – 01 (HP LaserJet 1010) LAN – 100 MbpsWi-Fi – 01 (Ruckus R300) Used for Ph.D./Research Work.		
Microprocessor Lab		Digital IC Trainer Kit, Digital IC Tester and other accessories for UG hardware lab class.		
Data Centre/IBM Open Power Lab				
Sl. No.	Item	Nos.	Make/Model	Usage
Hardware Details				
1	Server Class System (10 Nos.)	03	Dell Power Edge T360.	<ul style="list-style-type: none"> <li>Faculty and Staff</li> <li>Research Scholar</li> <li>UG and PG Students</li> </ul>
2		01	DELL Power Edge R720	<ul style="list-style-type: none"> <li>2<sup>nd</sup> Year B. Tech Laboratory Exercise.</li> </ul>
3		02	DELL Power Edge R420	<ul style="list-style-type: none"> <li>3<sup>rd</sup> year B. Tech Laboratory Exercises.</li> <li>M. Tech 1<sup>st</sup> Year Laboratory Exercises.</li> </ul>
4		01	DELL Power Edge T710	<ul style="list-style-type: none"> <li>M. Tech 2<sup>nd</sup> Year Major Project.</li> </ul>
5		01	DELL Power Edge R730	<ul style="list-style-type: none"> <li>Faculty and Staff</li> <li>Research Scholar</li> <li>UG and PG Students</li> </ul>
6		02	IBM Xeon Server	<ul style="list-style-type: none"> <li>Final Year B. Tech Laboratory Exercises.</li> <li>Faculty and Staff.</li> </ul>
7		IBM Open Power Series System	02	IBM p-Series Server Model 9131/52A

### Department of Electrical and Electronics Engineering

Name of the Lab.	Major Equipment's / Facilities
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
Power Systems Laboratory	Scale-down model of 4-machine power systems, NI-based ADC and DAC cards, EMTDC/PSCAD, MATLAB, LabVIEW softwares,
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	MathWorks 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.

**Department of Electronics And Communication Engineering**

Name of Laboratory	Major Equipment/Facilities
Analog Electronics Lab	Digital Storage Oscilloscope Function Generator DC Regulated Power Supply Analog/Digital IC Tester
Digital Electronics Lab	Logic Analyzer benchtop (34 Channels) Digital Trainer Analog/Digital IC Tester
Integrated Electronics Lab (Research Lab for Ph. D. Students)	Dell Workstations Access to all design tools in the other labs
Communication Lab	Digital Storage Oscilloscope Function Generator DC Regulated Power Supply Microwave X band benches Antenna Trainer Wireless Communication 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 Communication Lab	<b>RF Equipment:</b> 3GHz Spectrum Analyzer RF Training Kit RF Signal Generator Vector Network analyzer 40GHz & Accessories 3GHz Network Analyzer 100MHz Mixed Signal Oscilloscope 80MHz Function/Arbitrary Waveform Generator Digital Multi-meter 6.5 digit Triple Output DC Regulated Power Supply Electronic Instrumentation Training Kit RF Tools – HFSS, CST Microwave Studio Digital Source meter with Safety Universal Test Lead kit B210 USRP boxes (2 numbers) <b>Software:</b> Genesis Core Bundle License Agilent VEE 8.5 , ADS 10 User License, Optsim 5 User Licence
VLSI Lab	Dell Precision T1500 & T1600 with Intel core I7-870

	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) with Intel(R) Core(TM) i7-4790 CPU @3.60GHz, 3601 Mhz, 4 Core(s), 8 Logical Processor(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 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 Zynq™-7000 Development Boards Altera Bitec Cyclone III Development Kit Altera Cyclone IV GX FPGA Development Kit Stream Processor Evaluation Platform
Microprocessor & Embedded Systems Lab	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 MTech)	Dell Precision T1500 with Intel core I7-870 Workstations Access to all design tools in the other labs
Centre for Excellence for Wireless Sensor Networks	Work stations, WSN Design kits, Qualnet SW, NETSIM SW, Sensors
Stochastic Modeling Imaging and Learning (SMILE) Lab	HP 8300 Workstations Access to all design tools in the other labs

**Department of Information Technology**

Name of Laboratory	Major Equipment/Facilities
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	<b>Desktop:</b> 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 Workstation: HP xw4400 workstation-2
Internet Technology Laboratory	<b>Desktop:</b> 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 <b>Workstations:</b> HP Z800Workstation SGH030TDHR (GPU Computing Server)-1
Virtualization Lab	N Computing L300 Clients -18
Post Graduate Lab –I	<b>Desktop:</b> 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 <b>Cameras:</b> Serveillance Setup Dlink DCS 2103 CAMERADCS 2103-2
Post Graduate Lab – II	<b>Desktop:</b> HP 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 <b>Cameras:</b> Serveillance Setup Dlink DCS 2103 CAMERADCS 2103-2
Project Laboratory	<b>Desktop:</b> 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 <b>Workstations:</b> Dell Precission T1700-3
Undergraduate Lab -I	<b>Desktop:</b> Lenovo Think M90(5498-PR1)-56, HP Compaq dc 7900 Convertible Minitower – 4 HP Compaq 8200 Elite MT PC-2

	<p>HP Compaq 8100 Elite MT PC-4                      HP compaq dc 2700-1                      IBM Thinkcentre- 2  <b>Workstation:</b>                      Hp compaq xw4400 Workstation-1  <b>Servers:</b>                      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  <b>Cameras:</b>                      Surveillance Setup                      Dlink DCS 2103 CAMERADCS 2103-3  <b>MIC Systems:</b>                      KQ-SRS-1112 Infrared Sound Field Reinforcement System-1</p>
Undergraduate Lab -II	<p><b>Desktop:</b>                      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</p>
Network Switch Room	<p><b>Desktop:</b>                      HP Compaq 8300 Elite MT PC-1  <b>Servers:</b>                      HP SR 638181-371 ML-350 E5645 SFF/6/GB SERVER-1                      Server Dell Power Edge R420 -2(Batch - 3L22HY1, 4K22HY1                      IBM P Series P270 8202 4EC SERVER-1</p>

### **Department of Mathematical & Computational Sciences**

Name of Laboratory	Major Equipment/Facilities
Ground Floor	49 Intel i7 Desktop with 8 GB RAM with dual OS
1 <sup>st</sup> Floor	40- Intel i7 Desktop with 8 GB RAM with dual OS 22 Intel i7 Desktop with 3 GB RAM with Ubuntu
2 <sup>nd</sup> Floor(Software Development center)	30 Intel i7 Desktop with 8 GB RAM with dual OS
Project Lab(1 <sup>st</sup> Floor)	19 Intel i7 Desktop with 8 GB RAM with dual OS

### **Department of MechanicalEngineering**

Name of Laboratory	Major Equipment/Facilities
List of Software in CAD/CAM Laboratory	<ol style="list-style-type: none"> <li>1. Pro Engineer CREO-50 Users</li> <li>2. Autocad V2015-50 Users</li> <li>3. Ansys V15.0-25 Users</li> <li>4. Ansys V 10.0-10 Users</li> <li>5. MSC Adams-50 Users</li> <li>6. MSC Patran-50 Users</li> <li>7. MSC Nastran-50 Users</li> </ol>

	<ol style="list-style-type: none"> <li>8. MSC Marc-50 Users</li> <li>9. MSC Dytran-50 Users</li> <li>10. Catia -10 Users</li> <li>11. CATIA novia-05 Users</li> <li>12. CATIA Delmia-05 Users</li> <li>13. CATIA PLMExpress-05 Users</li> <li>14. LMS AMESim (Multi-domain system Simulation)-05 users</li> <li>15. Unigraphics with Advanced Machining Module-05 Users</li> <li>16. Deform (Design Environment for FORMing)-01 Users</li> <li>17. Autodesk Moldflow -25 Users</li> <li>18. SimPACK (MBD Software)-25 Users</li> <li>19. Master CAM-02 Users</li> <li>20. Hyper Works-05 Users</li> <li>21. Robot Kit-02 Nos.</li> </ol>
Materials Characterization Laboratory:	<ol style="list-style-type: none"> <li>1. Vacuum Arc Melting Furnace</li> <li>2. Image Analyzer</li> <li>3. Universal Testing Machine</li> <li>4. Wire Electro Discharge Machine</li> <li>5. Vickers Hardness Tester</li> <li>6. Double headed Rolling Machine</li> </ol>
Vibration and Condition Monitoring Laboratory:	<ol style="list-style-type: none"> <li>1. Electromagnetic shaker (100kgf, 50kgf, 25kgf)</li> <li>2. Horizontal slip table</li> <li>3. VTS electro-dynamic shaker (25lbs)</li> <li>4. Gauss meter</li> <li>5. Electro magnets (1.5 Tesla)</li> <li>6. Impact hammer</li> <li>7. Single and tri-axial accelerometers</li> <li>8. Data acquisition system(NI, HBM )</li> <li>9. Microphone and SLM</li> <li>10. MicroEpsilon Laser displacement pickups</li> <li>11. ADAMS, NASTRAN, PATRON, MARC, DITRON, ANSYS</li> <li>12. Devitron</li> <li>13. Labview</li> </ol>
Robotics Laboratory	<ol style="list-style-type: none"> <li>1. Lego Robotic Kit</li> <li>2. Firebird</li> <li>3. Basic Electronic Components, DC Motors, Connecting Pins, Wires,</li> <li>4. LEDs Berg Strip, and Bread Board</li> <li>5. Quadcopter kit</li> <li>6. Wall Following Robot</li> </ol>
Metrology Laboratory:	<p><b>A. Linear Measurements</b></p> <ol style="list-style-type: none"> <li>1. Vernier Caliper</li> <li>2. Vernier Depth Gauge</li> <li>3. Vernier Height Gauge</li> </ol> <p><b>B. Micrometer</b></p> <ol style="list-style-type: none"> <li>4. External Micrometer</li> <li>5. Internal Micrometer</li> <li>A. Jaw Type Inside Micrometer</li> <li>B. Caliper Type Inside Micrometer</li> <li>6. Depth Micrometer</li> <li>7. Bench Micrometer</li> <li>8. Digital Micrometer</li> <li>9. Telescopic Gauge</li> </ol>

	<p><b>C. Measurement Using Slip Gauge</b>  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</p> <p><b>D. Linear and Angle Measurement</b>  16. Combination Set.</p> <p><b>E. Angle Measurement</b>  17. Universal Bevel Protractor  18. Sine Bar</p> <p><b>F. Flatness And Straightness Measurement</b>  19. Clinometer</p> <p><b>G. Screw Thread Measurement</b>  20. Screw Pitch Gauge  21. Screw Thread Micrometer  22. Effective Diameter Measurement Using Two Wire And Three Wire Method.</p> <p><b>H. Gear Tooth Measurement</b>  23. Vernier Gear Tooth Caliper  24. Tooth Span Micrometer</p> <p><b>I. Study On Opto-Mechanical Instruments</b>  25. Tool Makers Microscope  26. Measurement Using Comparator</p> <p><b>J. Surface Roughness Measurement</b>  27. Surface Roughness Meter (SJ 301)</p>
Refrigeration and Air-conditioning Research Laboratory	01. Micro heat pipe test rig 02. Vapour pressure determination test rig 03. Weather simulation chamber & Window air conditioner Testrig 04. Thermoelectric refrigeration test rig 05. 2 Stage VCR test rig with intercooler 06. Condenser pressure variation VCR test rig 07. Vortex tube refrigeration test rig 08. Air engine test rig
Microsystems Laboratory	01. MEMS Sensors 02. Scanning Tunneling Microscope, Self Build Kit 03. Atomic Force Microscope 04. Comsol and Intellisuite (Courtesy : NMDC) 05. Sugar Toolbox and MATLAB (Institute Network)
Heat Transfer Laboratory:	01. Free convection heat transfer 02. Heat transfer through composite walls 03. Water cooling tower 04. Shell and tube heat exchanger 05. Measurement of thermal conductivity of metal rod 06. Measurement of thermal conductivity of solids 07. Computerized vapour compression refrigeration test rig 08. Peristaltic pump model 09. Air conditioning test rig 10. Vapor compression refrigeration test rig

	<ol style="list-style-type: none"> <li>11. Heat pipe demonstrator</li> <li>12. Heat transfer through extended surfaces</li> <li>13. Measurement of emissivity of metal surfaces</li> <li>14. Heat transfer through lagged pipe</li> <li>15. Heat transfer through Forced convection</li> <li>16. Computerized Air conditioning test rig</li> <li>17. Boiling heat transfer apparatus</li> <li>18. Film and Drop wise condensation</li> <li>19. Ice plant tutor</li> <li>20. Parallel flow heat exchanger</li> <li>21. Plate Heat exchanger</li> <li>22. Heat pump setup</li> <li>23. Fluidized Bed system</li> <li>24. Refrigerator</li> <li>25. Natural convection</li> <li>26. Critical Heat flux apparatus</li> </ol>
Machine Dynamics and Vibration Laboratory:	<ol style="list-style-type: none"> <li>01. Kinematics of Epicyclic Gear</li> <li>02. Kinematics of Cam Mechanism</li> <li>03. Kinematics of Gear Train</li> <li>04. Kinematics of Slider Crank Mechanism</li> <li>05. Spring Mass System</li> <li>06. Transmissibility Apparatus</li> <li>07. Free Vibration of beam</li> <li>08. Experimental Modal Analysis</li> </ol>
CNC, Pneumatic and Electro Pneumatic Laboratory	<ol style="list-style-type: none"> <li>01. Trainer Lathe</li> <li>02. Trainer Milling Machine</li> <li>03. Electro Pneumatic Trainer Kit with Cylinders and Control valves</li> </ol>
IC Engine Research Laboratory:	<ol style="list-style-type: none"> <li>01. MMM Vertical 4- Stroke Diesel Engine</li> <li>02. Textool 2- Stroke Vertical Diesel Engine</li> <li>03. Textool 4- Stroke Vertical Diesel Engine</li> <li>04. Valve and Port Timing Diagrams</li> <li>05. Compression Ratio of given IC Engines (b) Morse Test</li> <li>06. Computerized multi-cylinder MPFI Gasoline engine</li> <li>07. Computerized Single cylinder DI Diesel Engine</li> <li>08. Exhaust Gas Analyzer</li> <li>09. Hydrogen fuelled SI Engine test rig</li> <li>10. CRDI Diesel Engine test rig</li> <li>11. Kirloskar Diesel Engine test rig</li> </ol>
Fuels Laboratory:	<ol style="list-style-type: none"> <li>01. Boys gas Calorimeter set(Calorimeter+ gas flow meter (0-1000mm<sup>3</sup>/min))</li> <li>02. Redwood viscometer No.1</li> <li>03. Saybolt Viscometer</li> <li>04. TAR Viscometer(Redwood viscometer No.2)</li> <li>05. Instech Calorimeter</li> <li>06. Flash point tester(Close-up)</li> <li>07. Barometer with room temperature no.597</li> <li>08. Digital weighing machine (0-10grams)</li> <li>09. Saybolt Viscometer(old)</li> <li>10. Bomb Calorimeter</li> <li>11. Cleveland Flash &amp; fire point apparatus</li> <li>12. Weighing machine (0-2 kg)</li> </ol>
Theory of Machines Laboratory	<ol style="list-style-type: none"> <li>01. Spring mass system</li> <li>02. Whirling shaft apparatus</li> </ol>

	<ul style="list-style-type: none"> <li>03. Motorised gyroscope apparatus</li> <li>04. Digital weighing machine (0-50kgs)</li> <li>05. Physical balance</li> <li>06. Dead weight tester(0-35kg)</li> <li>07. Digital dead weight tester(0-60kg)</li> <li>08. Digital dead weight tester(0-250kg)</li> <li>09. Planimeter set</li> <li>10. Thermo-Hygrograph H-10/100%</li> <li>11. Computerised Emission test set up</li> <li>12. Single stage spur gear</li> <li>13. Single stage spur gear with intermediate</li> <li>14. Two stage spur gear</li> <li>15. Three stage spur gear</li> <li>16. Three speed and reverse gear</li> <li>17. Worm gear</li> <li>18. Bevel gear</li> <li>19. Rack and quadrant gear drive</li> <li>20. Reversing gear</li> <li>21. Epicyclic gear (sun &amp; planet)</li> <li>22. Cycloidal motion</li> <li>23. Internal rolling gear drive</li> <li>24. Internal gear and pinion drive spur gear</li> </ul>
Automotive Electronics Laboratory	<ul style="list-style-type: none"> <li>01. IRIS CAR (Lab Car), with Breakout box, ECU, Injector Box, Wire harness, Communication Module</li> <li>02. DC Power Supply</li> <li>03. 0Function Generator</li> <li>04. Oscilloscope</li> <li>05. Cut Section Models</li> </ul>
Machine Shop - I:	<ul style="list-style-type: none"> <li>01. Center Lathe</li> <li>02. Heavy duty Center Lathe</li> <li>03. Geared head Center Lathe</li> <li>04. Shaping machine</li> <li>05. Universal Milling Machine</li> <li>06. Heavy duty pillar type drilling machine</li> <li>07. Light duty pillar type drilling machine</li> <li>08. Pedestal grinding machine</li> <li>09. Capston Lathe</li> </ul>
Machine Shop -II	<ul style="list-style-type: none"> <li>01. Surface Grinding Machine</li> <li>02. Cylindrical Grinding Machine</li> <li>03. Capstan Lathe</li> <li>03. Horizontal Milling Machine with Vertical attachment</li> <li>04. Broaching Machine</li> <li>05. Light Duty Shaper</li> <li>06. Heavy Duty Shaper</li> <li>07. Slotting Machine</li> <li>08. Planner</li> <li>10. Cutter Grinding Machine</li> <li>11. Heavy Cylindrical Grinding Machine</li> <li>12. CNC Milling Centre</li> <li>13. CNC Turning Centre</li> <li>14. Heavy Duty Shearing Machine</li> <li>15. Hydraulic Press</li> <li>16. Heavy Duty Radial Drilling Machine</li> <li>17. Hydraulic Radial Drilling Machine</li> </ul>

	18. Universal Milling Machine 19. Centre Lathe  20. Hydraulic Compressor
Carpentry Shop	01. Wood turning lathe 02. Circular saw 03. Carpentry bench vise and table
Fitting Shop	01. Bench vise with table 02. Surface plate 03. Anvil 04. Power Tool 05. Drilling set and accessories 06. Saber saw 07. Jig saw 08. Hot air gun 09. Tappers 10. Nibbler 11. Shearing machine 12. Grinding machine 13. Circular saw 14. Impact wrench 15. Battery operated drill 16. Blower 17. Eccentric sander 18. Router machine 19. Wood planner 20. Jig saw 21. Hammer drilling 22. Core cutter drilling machine
Sheet Metal Shop	01. Sliding table 02. Bench vise 03. Shearing machine

### **Department of Mining Engineering**

Name of Laboratory	Major Equipment/Facilities
Rock Mechanics Laboratory	Rock cutting machine Compression testing machine Schimiditt 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

<p>Mine Environmental Engineering Laboratory</p>	<p>Air compressor                  Modified lathe machine for rock cutting                  Manometer, Crossing point temperature, Digital Methanometer, CO detector, Psychomotor and etc.                  Water pollution monitoring kit                  Respirable dust sampler                  Sound level meter,                  Gas testing set up                  Exhaust gas analyzer                  Multi gas detector                  Automatic weather monitoring system                  Personal &amp; Heat stress monitoring Equipment                  Self-Contained breathing apparatus.                  Human vibration measuring apparatus                  Digital millivolt meter                  Machine vibration measuring apparatus                  Larson &amp; Davis noise dose meter                  Jaw Crusher</p>
<p>Mineral Processing Laboratory</p>	<p>Roller Crusher                  Ball Mill                  Rod Mill                  Bond' Work Index Setup                  Electro Magnetic Sieve Shaker                  Riffle Sampler                  Riffle Sampler                  Jigging Machine                  Wilfly's Table                  Density Seperator                  Automatic Mineral Seperator                  Hydro Cyclone                  Spiral Classifier                  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                  Vaccum Filtaration Unit                  Disc Mill                  Pot Mill                  Double Deck Vibratory Screen Model                  Infrared Drier                  Spiral Concentrate                  Sieve Shaker</p>
<p>Mine Surveying Laboratory</p>	<p>Prismatic Compass, Surveyor Compass, Vernier Theodolite, Micro-Optic Theodolite, Dumpy level, Auto level, Digital level, Total station, Handheld GPS, DGPS.</p>
<p>Mine Planning and Design Laboratory</p>	<p>HP Compaq Presario Computer                  LCD Projector</p>

Mine Pollution Laboratory	<p>D-link manageable switch                  HP 3200 A4 scanner, HP 1010/1015 Laser printer,                  HP plotter                  Surpac Mine Planning Software                  Reliability software                  Sirovision software</p> <p>J K Sim blast software</p> <p>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</p>
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**Department of Metallurgical and Materials Engineering**

<b>Name of Laboratory</b>	<b>Major Equipment/Facilities</b>
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, X-Ray Diffractometer, Image Analyser, Dilatometer
Ceramics & Polymer Lab	UTM, Extruder, Mechanical simulator, Tg determinator, Viscometer, Electro spinning equipment
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 etster
Powder Metallurgy & Nano technology Lab	Particle size analyzer, Programmable furnaces, High energy planetary ball mill, Sintering furnaces
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

**Department of Physics**

<b>Name of Laboratory</b>	<b>Major Equipment/Facilities</b>
UG Laboratory	1. Experimental Kits (8 expt.s of 5 sets each)

PG Laboratory I	2. Experimental Kits (7 expt.s of 2 sets each)
PG Laboratory II	3. Experimental Kits (7 expt.s) 4. Vacuum Coating Unit (2 no.s)
Research Laboratories:	
Thin Film Laboratory	1. XRD 2. Keithley Source Meter 3. Keithley Multimeter  4. Sputtering Unit 5. Physical Deposition Unit 6. Spray Pyrolysis Unit 7. LCR Meter 8. Vacuum coating system
Optoelectronics Laboratory	1. Optics Inc SD2000 spectrometer (UV vis spectra) 2. Lux meter (Lutron) 3. UVC Ozone Cleaning Unit 4. Thermal evaporator 5. Clean air flow bench 6. OLED measurement system 7. Keithley Sourcemeter (model 2400). 8. Jobin Yvon spectrometer with a CCD based detector or a silicon photodiode (SM1PD2A Mounted UV Enhanced Silicon Photodiode, 200-1100 nm Cathode Grounded) 9. Optical power meter (Ophir Optronics, model NOVA II with PD300-UVdetector) 10. Keithley 6485 Picoammeter 11. Tektronix DMM 4040 6-1/2 Digit Precision Multimeter 12. Agilent 34972A LXI Data Acquisition/ Switch unit 13. Multioutput DC power supply model LQ6324 14. Agilent E4980A Precision LCR meter 20 Hz to 2 MHz 15. Tektronix TDS 2002B Two channel Digital Storage Oscilloscope 60 MHz 1GS/s 16. DH-3 UV-Vis-NIR Calibrated Light Source (Ocean Optics) 17. RF Probe Station 18. ISO BRUKER Precision Cutting Machine 19. Q-switched Nd-YAG laser; Model GCR -170 from Spectra – Physics, USA.
Crystal Growth Laboratory & Nano materials Laboratory	1. Solution growth system for crystal growth 2. High temperature furnace 3. Magnetron sputtering system 4. Thin film coating unit 5. Fume Head 6. Vacuum deposition system-Thermal, DC, RF coating system
Material Processing Laboratory	1. CLEMEX Microhardness Tester 1. Physical vapour deposition 2. Polishing Machine 3. Muffle furnace (Max Temp 1000°C) 4. Low speed Diamond saw cutting Blade 5. Abbe refractometer 6. Analytical balance and Density kit 7. High temperature furnace 8. P H Meter

	9. U V Visible spectrometer 10. Incubator 11. Ultra sonicator 12.
Materials Research Laboratory	1. Electrochemical Workstation (Bio-Logic SP150) (2 Nos) 2. Mbraun Glove Box 3. Neware battery analyzer 4. Kiethly 2 probe and 4 probe measurement systems 5. Ocean Optics UV-Vis spectrometer 6. DC Spectrum Analyzer 7. Muffle Furnace 8. Weighing Balance 9. Battery Crimper set up 10. Sputtering Unit 11. Spin Coater 12. Spray Pyrolysis unit 13. Vacuum Oven 14. Hot air oven
-	1. Photoluminescence Spectrometer 2. XRD
Computational Physics Laboratory	1. Dell server power edge
Nonlinear dynamics and Biophysics	2. None
Functional Nanostructured Materials Research Laboratory (FNMRL)	1. Hot air oven 2. Bench-Top Centrifuge 3. Weighing Balance (0.1mg precision) 4. Photocatalytic reaction chamber 5. Ultrasonicator

### **School of Management:-**

<b>Name of Laboratory</b>	<b>Major Equipment/Facilities</b>
Computer Lab	Computer Lab of 25 terminals provides access to a host of essential software's like SPSS, CMIE Prowness Database, CRISIL Research Report etc.,
Language Lab	Orell Digital Language Lab

### **11.5 WORKSHOPS**

#### **Department of Applied Mechanics and Hydraulics**

<b>Name of workshop</b>	<b>Major equipments/facilitates</b>
Departmental mini workshop	Lathe, shearing machine, drilling machine. Grinding machine.

#### **Department of Chemical Engineering**

<b>Name of Laboratory</b>	<b>Major Equipment/Facilities</b>
Computer Lab	Computer Lab of 25 terminals provides access to a host of essential software's like SPSS, CMIE Prowness Database,

	CRISIL Research Report etc.,
Language Lab	Orell Digital Language Lab

### **Department of Civil Engineering**

Name of Workshop	Major Equipment/Facilities
Civil Engineering Department Workshop	A Lathe, A Shearing Machine, Electrically operated Power Saw, and Welding Transformer

### **Department of Electrical and Electronics Engineering**

Name of workshop	Major Equipment/facilitates
Electrical Department Workshop	Lathe, Drilling and Welding Machines along with work bench and other machine tool facilities

### **Department Of Mechanical Engineering**

Name of Workshop	Major Equipment/Facilities
Bosch Power Tools Lab	Power hand tools
CNC lab	CNC machining centre, CNC turning centre
Rapid manufacturing lab	Rapid manufacturing machines
Machine shop	Milling machines, Centre lathes, Planer and Shapers
Workshop practice	Fitting, Carpentry, Welding

## **11.6 HOSPITAL, POST OFFICE, SHOPPING CENTRE**

**Hospital:** Full-fledged Health care center is available in the Institute campus. Services of many reputed doctors in almost all the disciplines of medicine is provided at the Health care center to the faculty staff and students.

**Post Office:** Post office is available in the Institute campus.

**Shopping Centre:** Two shopping centers and two canteens are available in the Campus.

**Banks:** Two banks (Canara Bank and State Bank of India) with ATM facility are available in the campus.

## **11.7 PHYSICAL EDUCATION FACILITIES**

### **Dept. of Physical Education and Games**

#### **FACILITIES/AMENITIES:**

Physical Education: 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. Separate, Standard, well maintained play fields for all major games like 400Mts. Track for Athletics, 75 Yards Boundary Cricket field with 3 playing pitches, 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, 3 Volleyball courts with flood light facility, 2 Ball Badminton, 2 Throwball, 2 Kho-Kho, 2 Kabaddi, 2 Tennikoit courts are available for use. Provision is also there to put one 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 everybody 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 a Cap. 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.

## **SPECIAL INITIATIVES:**

### ***Enhancement of Infrastructural facilities:***

Construction work of Sports pavilion complex with provision for Fitness Gym, Squash courts, Table Tennis hall, Badminton Hall. Indoor games hall, Aerobic dance hall, Indoor Cricket pitches, Cricket pavilion, Athletic pavilion, Department office, Store room, Dressing/changing room for many outdoor games with locker facilities and required Bath room and Toilets, is in progress.

### **11.8 STAFF QUARTERS**

Most of the permanent employees of the Institute are provided with residential accommodation. A total number of 197 quarters for teaching faculties and 120 quarters for Non-Teaching Staff are available. Further the construction of following staff quarters apartments has been taken up through CPWD (total 104 units) and is expected to be completed before the end of 2017.

Type - III - one apartment comprising 28units.

Type IV - one apartment comprising 28units.

Type V - one apartment comprising 24 units.

Type VI - one apartment comprising 24 units.

## **12 STUDENT ACTIVITIES**

### **STUDENTS UNION**

Election to the Students' Union of the Institute was held on 13.4.2016 and the following office bearers were elected:

Mr. Arshad Khan, IV yr. E&E Engg.	President
Ms. Almas Praveen, IV yr. Civil Engg.	Vice President
Mr. Mathew George Kallarackal, III yr. Computer Engg.	Secretary
Ms. Tanvi Girinath, II B.Tech. E&C Engg.	Joint Secretary

### **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 Sports in Handball, Hockey, Kho-Kho, Volleyball and Yogasana were being organized at our Institute during 17<sup>th</sup> to 19<sup>th</sup> March, 2017. More than 900 students from other NITs (22 Men Volleyball teams, 16 Women Volleyball teams, 11 Kho-Kho teams, 8 Hockey teams 13 Handball teams & 06 Yogasana 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.

## 13 RESEARCH, DEVELOPMENT & CONSULTANCY PROJECTS

### 13.1 R&D PROJECTS (ONGOING & SANCTIONED)

#### Department of Applied Mechanics and Hydraulics

Name of Project	Funding Agency	Name of Investigator(s)	Period	Funding Amount (Lakh Rs.)
Fund for Improvement of S&T Infrastructure in Universities and Higher Educational Institutions (FIST) Program – 2014	DST, Govt. of India	Subba Rao, Ph.D. G.S.Dwarakish, Ph.D. H.Ramesh, Ph.D. Manu, Ph.D. & Pruthviraj, Ph.D.	2015-20	209.00
Coupled dynamic analysis associated with the response and design loads of offshore floating wind turbine	Science and Engineering Research Board (SERB), DST, New Delhi, India	Debabrata Karmakar, Ph.D.	2016-19	25.32
Hydrodynamic performance of characteristics of Caisson type breakwater	Ministry of Earth Sciences	Manu (PI), , Ph.D. Subba Rao (Co-PI) , Ph.D. & A.Vittal Hegde (Co-PI) , Ph.D.	2016-21	78.84
Optimal Damping of porous screen in Tuned Liquid Damper-Structure interaction	SERB, DST, Govt. of India	T. Nasar, Ph.D.	2016-19	32.67
Climate change-Impact on West coast river basins	Ministry of Water Resources	A Mahesha, Ph.D., Amba Shetty, Ph.D., Varija, Ph.D., H Ramesh Ph.D.	2016-19	65.40

#### Projected Proposed

Faculty Name (Principal Investigator/ Coordinator)	Project Title	Proposed (Requested) Grant (INR) (in Lakhs)	Funding Agency	Status (Sanctioned/ In-Process)
A.Mahesha, Ph.D. SubrahmanyaK	Hydrogeological Studies of Coastal Wetlands – A Case Study	43.3	INCGW	APPROVED
Paresh Chandra Deka, Ph.D.	Groundwater vulnerability assessment in fluoride contaminated areas-a case study in Challakere town of south India	64 .0	Ministry of Earth Sciences, Govt. of India	In-Process
Paresh Chandra Deka, Ph.D.	Influence of subsurface heterogeneity and vegetation cover on saturated hydraulic conductivity at field scale	77.0	Ministry of Environment and Forest, Govt. of India	In-Process

Paresh Chandra Deka, Ph.D.	Study of soil evaporation of agroforestry system in humid tropical climate	41.0	Ministry of Environment and Forest, Govt. of India	In-Process
Ramesh H., Ph.D.	Wave energy conservator	35.0	Ministry of Science & Technology, Department of Science & Technology (DST), Govt. of India	In-process
A.Mahesha, Ph.D. Amba Shetty, Ph.D. Varija, Ph.D. & H. Ramesh, Ph.D.	Climate change - Impact on West coast river basins	65.40	Ministry of Water Resources	In-Process
K.Varija, Ph.D. & H.Ramesh, Ph.D.	Modeling the effect of land use and land cover changes on runoff in Pavanje river basin in Dakshina Kannada District, Karnataka	51.0	DST, Govt. of India under the scheme 'Scientific and Engg. Research'	In-Process
Lakshman Nandagiri, Ph.D. & K.Srinivasan (IIT, Madras)	Climate change impact assessment on the water resources of Cauvery basin	392.0	Central Water Commission, GoI	In-process
G.S.Dwarakish, Ph.D.	Modelling of Sediment Transport in Near shore along Mangalore Coast using Conventional and Remote Sensing Data under GIS Environment	129.835	Ministry of Earth Sciences (MoES), Govt. of India	In-process
G.S.Dwarakish, Ph.D.	Simulating the Impact of Land use Changes on Hydrological Response of Humid and Sub-humid Catchments in Karnataka state, India	14.80	RESPOND Programme National Remote Sensing Center Dept. of Space, Hyderabad	In-process
Vadivuchezhian K., Ph.D. Subrahmanya K. & Gnanasekaran	Studies on average friction coefficient under partial step fretting of Titanium alloys at higher temperatures	180	DRDO	In-Process
T.Nasar, Ph.D.	Assessment and performance of porous screen as a damping device in liquid sloshing ship tanks	78.0	Ministry of Shipping, Govt. of India	In-process

Debabrata Karmakar, Ph.D. G.S.Dwarakish, Ph.D. and Sukomal Mandal, Ph.D.	Numerical and experimental investigation on the Dynamic analysis of Offshore floating wind turbines	226.92	Science & Engineering Research Board (SERB), New Delhi	In-process
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(iii) To establish Earth Science Technology Cell on Coastal & Ocean Technology Centre in the Institute has been sanctioned by MoES during 2016.

### **Department of Chemical Engineering**

<b>Name Of Project</b>	<b>Funding Agency</b>	<b>Name Of Investigator (S)</b>	<b>Period</b>	<b>Funding Amount In Lakhs (Rs.)</b>
Reverse Micellar Extraction of Lactoferrin From Whey: Continuous Process (Co-PI: Dr. Prasanna B D)	“Ministry of Food processing Industries (MoFPI), Govt. of India” through SERB-DST.	I.Regupathi, Ph.D. and Prasanna D Belur, Ph.D.	2013 to 2016	37.60
In vitro mass culture of <i>Steinernema jeffreyense</i> , a biocontrol agent against key insect pests	Department of Science and Technology, (International Division), Govt. of India	Prasanna Belur D, Ph.D. & Antoinette P.Malan, Ph.D.	3 years	28.16
Future Materials in Solid Oxide Fuel Cells and Electrolytes	DST (INSPIRE), Government of India	Hari Prasad Dasari, Ph.D.	2013-2019	35.00
Decreasing the Sintering temperature of Solid-Oxide Fuel Cell Electrolytes	KIST, KOREA	Hari Prasad Dasari, Ph.D.	2016-2017	11.38
Development of Quaternary Ceria - Based Catalysts for soot oxidation Activity	KIST, KOREA	Hari Prasad Dasari, Ph.D.	2017-2018	10.81
Development of Novel SOFC Electrolyte Materials with enhanced Ionic Conductivity	DST (SERB), Government of India	Hari Prasad Dasari, Ph.D.	2017-2020	51.00
Heavy metal removal by melanin coated polymer matrix	DST	Keyur Raval, Ph.D. Raj Mohan B, Ph.D. Ganga S.	2015-2018	37.89
Building capacity in teaching and collaborative research in sensor systems for public utilities	Royal Academy of Engineering, London	PI: M. B. Saidutta Ph.D	2016-18	39.00

Methanol as a clean energy source for India	Indo-US 21st Century Knowledge Initiative Programme	PI: M. B. Saidutta Ph.D	2016-19	91.18
Measurement and Characterization of ambient bioaerosols in Bangalore city	DST-SERB	Gangamma S. , Ph.D.	03	53.00
Ambient airborne particulate matter: Effect of biological component on lung inflammation	DST-SERB	Gangamma S,Ph.D.	04	51.00
Air pollution induced immune cell dysfunction: Implication in Viral infection	DST-SERB	Gangamma S,Ph.D. (in collaboration with IISER Bhopal)	03	54.00
Biomass fuel burning smoke induced inflammation: Mechanism of biological pathways	DST-SERB	Gangamma S,Ph.D.	03	17.00
Heavy metal removal by Melanin coated Polymer matrix	DST-SERB	Gangamma S,Ph.D. (Co-PI)	03	38.00

### Department of Civil Engineering

Name of Project	Funding Agency	Name of Investigator(s)	Period	Funding Amount (Lakh Rs.)
Use of stabilized blast furnace slag in infrastructure projects	Kirloskar Ferrous Industries, Koppal	Sunil B M, Ph.D. & ShrihariS., Ph.D.	2014-17	6.48
BARC- Structural Engineering Project	Bhabha Atomic Research Centre, Mumbai	K Venkataramana, Ph.D. & K S Babu Narayan, Ph.D.	2007-17	31.38
L&T sponsored M.Tech (CTM) Program project	Larsen & Toubro Construction, Chennai	Gangadhar Mahesh, Ph.D. C Rajasekaran, Ph.D. and B.B.Das, Ph.D.	2014-19	650.00
Experimental Investigation on Rutting and Flexural Behaviour of Structural Asphalt Mixes with Warm Mix Asphalt Additives	Science and Engineering Research Board, Department of Science and Technology, GoI	Suresha S.N., Ph.D.	2013-16	18.58
Fund for Improvement of S&T	Department of Science and	Suresha S. N. , Ph.D.	2013-18	110.80

Infrastructure - 2013 (DST-FIST)	Technology, GoI			
Remote Sensing (RS) and Geographic Information System (GIS) approach for the study of disaster due to lightning on earth resources and infrastructure.	Department of Science and Technology, GoI	K.N. Lokesh, Ph.D. Naveenchandra, Ph.D.	2014-18	21.30
Network on Decentralized Grey/Waste Water Treatment & Recycling	Indo-French Centre for the Promotion of Advanced Research (IFCPAR)	Arun Kumar Thalla, Ph.D. (Joint Collaborator from NITK along with IISc, IITKgp and INRA-France.	2016-18	36.00
Small Scale and Sustainable Household Wastewater Recycling (S3HWR)	IMPRINT Scheme Funded by MHRD & Ministry of Urban Development(50:50)	Arun Kumar Thalla, Ph.D. (Collaborators : IISc, IITKgp, BITS & NITK)	2017-20	242.16

### Department of Computer Engineering

Name of Project	Funding Agency	Name of Investigator(s)	Period	Funding Amount (Lakh Rs.)
Development of tool for detection of XML based Injection Vulnerabilities in web applications	DIT, MCIT	P. Santhi Thilagam (PI), , Ph.D. Alwyn Roshan Pais (coPI) , Ph.D.	2014-16	38.16
FIST Program	DST	Head of the Department, CSE	2014-18	56.00
Information Security Education and awareness Phase-II	DIT, MCIT	Alwyn Roshan Pais (PI), , Ph.D. P. Santhi Thilagam (coPI) , Ph.D.	2015-20	2.7 crore
Design of a modular, FPGA accelerated, Chip Multiprocessor Architecture Simulator	DST	Basavaraj Talawar, Ph.D.	2016-18	26.9
An automatic system for identification of phonological processes in children of age two and half to six and half years	DST	Shashidhar G. Koolagudi (PI), , Ph.D. Venkat Raja (coPI) , Ph.D.	2016-19	30.00
Retinal cysts identification and quantification from low SNR optical coherence tomography scans using image processing techniques	DST (SERB, EMR grant)	Jeny Rajan, Ph.D. Shashidhar G Koolagudi, Ph.D. Abhishek Kothari, Ph.D.	2017-19	33.5

**Department of Chemistry**

<b>Name of Project</b>	<b>Funding Agency</b>	<b>Name of Investigator(s)</b>	<b>Period</b>	<b>Funding Amount (Lakh Rs.)</b>
DK District Biofuel Information and Demonstration Activities	Karnataka State Bioenergy Development Board, GoK, Bangalore	A. Vasudeva Adhikari, , Ph.D.	2012 – 17	15.00
Efficiency enhancement in organic photovoltaic devices using donor-acceptor conjugated polymers and plasmonic structures.	SERB, DST India.	Udaya Kumar D, Ph.D.	2013- 17.	25.00
INSPIRE-Faculty Project	Department of Science and Technology Govt. of India	Beneesh P B, Ph.D.	2013-18	35.00
High Performance Thermoelectric Materials via Band Engineering	SERB, DST India.	D. Krishna Bhat, Ph.D.	2016-19	26.76
Towards development of Low cost, nanoporous hollow fiber membranes for Haemodialysis application,	Vision Group on Science & Technology, Government of Karnataka.	Arun M. Isloor, Ph.D.	2015-18	60.00
Synthesis of polyoxometalates-nanoparticles Hybrid based Catalysts for alkane oxidation.	DST-SERB	Sib Sankar Mal, Ph.D.	2015-18	23.55
Renewable Synthesis of Hydrocarbon Fuels and Specialty Chemicals from Cellulose-derived Angelica Lactone.	DST-SERB	Saikat Dutta, Ph.D.	2016-19	29.00
Proteins at the Interfaces of Liquids.	DST-SERB	Debashree Chakraborty, Ph.D.	2016-19	55.00

**Department of Electronics & Communication Engineering**

<b>Name of Project</b>	<b>Funding Agency</b>	<b>Name of Investigator(s)</b>	<b>Period</b>	<b>Funding Amount (Lakh Rs.)</b>
Uncoordinated Secure and Energy Aware Access in Distributed Wireless Networks	Information Technology Research Academy	U Sripati, Ph.D. Joint with IIT Bombay TIFR Bombay NIT Durgapur	2014-2017	21.25
Energy Harvesting Seat	ANRC, Boeing	M S Bhat, Ph.D.	2014-2017	3.00
<b>Indian Railway Project</b> Design, Development and Commissioning of Automatic Warning System for Unmanned level crossings for Indian Railways	TEQIP-II	U Shripathi Acharya, Ph.D. T Laxminidhi, Ph.D.	2015-2017	4.00
Designing a System to measure moisture content of Cashew seeds both raw and processed for Kalbavi Cashews.		U Shripathi Acharya, Ph.D. T Laxminidhi, Ph.D.		
Advanced Research Laboratory in RF Communication and Networks (RFCN)	DST-FIST	U Shripathi Acharya, Ph.D.	2016-21	125.00
Development and Performance Evaluation of Efficient tracking Algorithms for phased array radars in the presence of electronic counter measures	SERB Department of Science and Technology (DST) under fast track young scientist research scheme	P Srihari, Ph.D.	2016-19	13.10
<b>Newton Baba Project</b> Development of Wireless Sensor Network System for Public Utilities	Royal Academy of England	Principle coordinator – NITK Surathkal Partners 1. University of Birmingham 2. Robert Bosch India Pvt. Ltd. 3. IBM India 4. ThoughtFocus Technologies Pvt. Ltd.	2016-18	77.50

		5. Srinivas Institute of Technology, Mangalore 6. A J Hospital, Mangalore		
Special Manpower Development Project on VLSI (SMDP-VLSI) phase-III – Chips-to-Systems	Department of Information Technology (DIT) MCIT, Govt. of India	Ramesh Kini M, Ph.D. T Laxminidhi, Ph.D.	2014-2019	Rs.1.6 Crores

**Department of Electrical & Electronics Engineering**

Name of the Project	Funding Agency	Name of the Investigator(s)	Period	Funding Amount (Lakh Rs.)
Two Research scholarships to investigate in the areas of i. Sensing Techniques, ii. Super-efficient Motor Control, under “Visvesvarya PhD Scheme	GOI, MCIT, DEITY.	Panduranga Vittal K., Ph.D.	2015 – 2020	40.00
Establishing center of excellence (CoE) in “Renewable Energy Source integrated Smart Grid Technologies (RENEST)”	Frontier Areas of Science and Technology (FAST), MHRD, GOI.	Panduranga Vittal K, Ph.D.	2014-2018	4.00 crore
Utility Interactive based Power supply	DST-SERB	R KALPANA, Ph.D.	2015-16	21.00
FPGA based development of different MPPT algorithms for stand-alone photo voltaic system using artificial intelligence” (CPRI/R&D/RSOP/Grants/2015)	CPRI	Debashisha Jena, Ph.D. and D. N. Gaokar, Ph.D.	2014-2016	25.07
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).	D. N. Gaonkar (PI), Ph.D. D. Jena (co-PI) , Ph.D.	July 2016 to March 2018	25.00

Standalone Evaporative Air cooler –Pump flow and Fan speed controller using solar energy	DST	PI – B.Venkatesapurumal, Ph.D. Co-PIs- Dr. A.Karthikyen (EEE)&M.Arun(MECH), Ph.D.		38.69
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**Department Of Mechanical Engg.**

Name of Project	Funding Agency	Name of Investigator(s)	Period	Funding Amount (Lakh Rs.)
Investigation on Passive Damping Capability of Natural Fiber Reinforced Composite and Visco-elastic Sandwich Structures	DST-SERB	P Jeyaraj, Ph.D.	2013-2017	11.39
Investigation of enhanced pool boiling methods for cooling of micro-electronic devices	DST-SERB	Sathyabhama A, Ph.D.	2014-2017	66.00
Investigation of machining characteristics of TiNi based Shape Memory alloy using Wire-EDM	DST-SERB	Narendra Nath S, Ph.D.	2014- 2016	16.32
Study the corrosion behavior of wrought mg alloys processed by severe plastic deformation for naval applications	NRB	Narendra Nath S, Ph.D.	2016-2019	22.80
Experimental characterisation and numerical modelling of delamination growth in Fiber Reinforced Polymer laminated composites under cyclic loading	DST-SERB	Subhaschandra Kattimani, Ph.D. S. M. Murigendrappa, Ph.D.	2017-2020	32.00
Investigations on the dynamic behaviour of bacterial helical flagellar filaments under axial flow	DST-SERB	Ranjith M, Ph.D.	2017-2020	25.00
Design, development and	DST-SERB	Hemantha Kumar,	2014- 2017	20.84

characterisation of magnetorheological damper for vehicular application		Ph.D.		
Experimental investigation of passive, semi-active and active vibration control of composite sandwich structure	DST-SERB	Sharnappa Joladarashi, Ph.D. Hemantha Kumar, Ph.D.	2017-2020	60.00
Development of composite filament for light weight 3D printed components	DST-TSDP	Mrityunjay Doddamani, Ph.D. Srikanth Bontha, , Ph.D. Vamsi Krishna B, Ph.D.	2016-2019	33.03
An investigation in to the aerodynamic and aeroelastic behavior of a compressor cascade in a droplet laden flow.	DST-SERB	Anish S, Ph.D.	2015-2018	25.85
Numerical and Experimental Studies on Two Phase Carbon Dioxide Based Natural Circulation Loops	DST-SERB	Ajay Kumar Yadav, Ph.D.	2014-2017	25.84
Development of a Solar based Humidifier-Dehumidifier linked with ground water	DST-SERB	Ajay Kumar Yadav, Ph.D. Anish S, Ph.D.	2017-2020	34.00
Standalone evaporative cooler - pump and fan speed controller using solar power	DST-SERB	Venkatesa Perumal, Ph.D. Arun. M, Ph.D. Karthikeyan J, Ph.D.	2017-2020	60.00
Experimental and Numerical Investigation on Buckling and Vibration Behavior of Non-Uniformly Heated Laminated Polymer Nano Composite Plate	ARDB	P Jeyaraj, Ph.D. R. Vasudevan, Ph.D.	2015-2018	16.03
Visualization of boiling heat transfer on grooved surface	CSIR	Sathyabhama A, Ph.D.	2015-2018	20.00
Experimental and Numerical Investigation of Effect of leading edge Protuberances on the Performance of Wind turbine blade	DST-SERB	Sathyabhama A, Ph.D.	2016-2019	19.90

Study on low temperature combustion in a CRDI Engine using biodiesel	DST	Kumar G. N. , Ph.D.	2016-2017	5.50
An Experimental and Theoretical Investigation on Narrow Thermal Hysteresis of Cu-Al-Be based SMA Actuator for Vibration Isolation.	DST-SERB	S.M. Murigendrappa,Ph.D S.C. Kattimani, Ph.D	2017-2020	19.00
Hexagon NextGen 3D Lab	Hexagon	Mrityunjay Doddamani, Ph.D., K V Gangadharan, Ph.D.	2015-2018	721
Virtual Lab Phase II	NMEICT- MHRD	K V Gangadharan, Ph.D. Pruthviraj, Ph.D.	2015-2018	500
Virtual Lab	NMEICT- MHRD	K V Gangadharan, Ph.D. Pruthviraj, Ph.D., Panduranga Vittal, Ph.D. Vidya Shetty, Ph.D.	2010-2017	450
Remorte Triggered Lab	NMEICT- MHRD	K V Gangadharan, Ph.D. Ravikiran Kadholi, Ph.D. Pruthviraj, Ph.D.	2015-2017	100
Center for System Design	MHRD+National Instruements	K V Gangadharan, Ph.D.	2008-2013	500
Management and Technology support to Micro, Small & Medium Enterprises	TEQIP-II	Bijuna Mohan, Ph.D. K V Gangadharan, Ph.D.	2016-2017	9.83
A cost effective open-source camera trap for wildlife conservation	TEQIP-II	Pruthviraj, Ph.D. K V Gangadharan, Ph.D.	2016-2017	5.56
The Impact of Technology Revolution in the handloom	TEQIP-II	Sheena, Ph.D. K V Gangadharan, Ph.D.	2016-2017	5.5
Smart Irrigation Management System	TEQIP-II	Amba Shetty, Ph.D., Pruthviraj U, Ph.D., K V Gangadharan, Ph.D.	2016-2017	6.53
Recycling of Plastics	TEQIP-II	Navin Karanth, Ph.D. Pruthviraj U,Ph.D. K V Gangadharan, Ph.D.	2016-2017	5

Automated Guided Vehicle for Industrial application	Daimler	Pruthviraj, Ph.D. K V Gangadharan, Ph.D.	2015-2017	5
CNT Reinforced Al – dynamics studies (a network project )	TEQIP	Vijay Desai, Ph.D., K V Gangadharan, Ph.D.	2007-2008	2.5
Quake Rats-Autonomous robot to Assist Earth Quake Victim Rescue	TEQIP	K V Gangadharan, Ph.D.	2007-2008	2
Active Vibration Control of Flexible Structures Using Magnetostrictive Materials	MHRD	Ravikiran Kadoli, Ph.D. K V Gangadharan, Ph.D.	2005-2008	15
Magneto Rheological Fluid Damper	MHRD	K V Gangadharan, Ph.D.	2003-2006	8
Industrial Automation and Control	DST-FIST	Navinkaranth, Ph.D., Vijay Desai, Ph.D., Dr. K V Gangadharan (as HOD) , Ph.D.	2016-2019	275
Development of Cost Effective Magneto-Rheological (MR) Fluid Damper in Two wheelers and Four Wheelers Automobile to Improve Ride Comfort and Stability	Impacting Research and Technology (IMPRINT), MHRD, Ministry of Road Transport and Hiighways	Hemantha Kumar, Ph.D. C.Sujatha, , Ph.D. (IIT Madras) K.V.Gangadharan, Ph.D., Sharnappa J. , Ph.D.,Mohd.Rizwan Rahman, Ph.D. Sheron F.,Ph.D. Sandesh S. , Ph.D. (Ashok Leyland Ltd. Chennai), and Mr. Rajasekharan (Rambal Ltd. Chennai)	2017-2020	355

### **Department of Mining Engineering**

<b>Name of Project</b>	<b>Funding Agency</b>	<b>Name of Investigator(s)</b>	<b>Period</b>	<b>Funding Amount (Lakh Rs.)</b>
Study For Utilization Of Fine Material Of Mine Waste	M/s. Sandur Manganese And Iron Ore Limited,	M.Aruna, Ph.D. And Harsha Vardhan, Ph.D.	2013-2017	14.3

Development of Crushing & Grinding Characteristic Curves for Different Rocks Using Insmart Crushers and Mills”,	Insmart Systems Hyderabad	K. Ram Chandar, Ph.D.	2015-2017	4.31
Development of value added product using gold mill tailings for its effective utilization”	M/s. Hutti Gold Mines Co.Ltd.	M.Aruna, Ph.D. And Harsha Vardhan, Ph.D.	2015-2017	13.26
Impact of Work Conditions and Personal Attributes on Performance of Coal Miners: An Empirical Investigation	TEQIP-II	K. Ram Chandar, Ph.D.& S. Pavan Kumar, Ph.D.	2016-2017	3.00

**Department of Metallurgical and Materials Engineering**

<b>Title of the Project</b>	<b>Funding Agency</b>	<b>Name of Investigator(s)</b>	<b>Period</b>	<b>Funding Amount (Lakh Rs.)</b>
All solution processed transparent low temperature synthesized Indium Zinc Tin Oxide based high performance thin film transistors for active matrix displays	DST-SERB	Saumen Mandel, Ph.D.	2016-18	21.0
Corrosion and Impedance study of Ti-Nb alloy forms developed by PM techniques	DST-SERB	S. B. Arya, Ph.D.	2015-17	18.81
Novel Nanocomposites from Bio-degradable polymers and nanostructured fly ash	DST- Fast Track	Anandhan Srinivasan, Ph.D.	2012 -15	18.17
Friction Stir Processing of Steels for Surface Alloying and Wear Resistance	Naval Research Board	Udaya Bhat K. , Ph.D.	2011 -14	7.95

Assessment of Solder Joint Reliability and Effect of Cooling Rate on Mechanical Properties of Lead	DRDO	K. N. Prabhu, Ph.D.	2011-14	82.00
Investigation of the Effect of Addition of Nanoparticles on Wetting Kinematics, Kinetics and Cooling Rate on Mechanical Properties of Lead	DST-SERB	K. N. Prabhu, Ph.D.	2012-14	30.47
TEM facility	DST - FIST	Udaya Bhat K, Ph.D.	2010 -15	245
Metallurgical Investigation on Thermally Aged SS304 LN Welds	BRNS	K. R. Udupa, Ph.D. Jagannatha Nayak, Ph.D.	2009-2014	18.81

### Department of Physics

Name of Project	Funding Agency	Name of Investigator(s)	Period	Funding Amount (Lakh Rs.)
DST-FIST Research facility for Physics Department	DST	N. K. Udayashankar, Ph.D.& H. S. Nagaraja, Ph.D.	5 years	64.00
DST-SERB-Si Electrodes for Li ion battery	DST-SERB	H.S.Nagaraja, Ph.D. & Ajith K.M. , Ph.D.	3 years	43.57
Atomistic Modeling of metal organic compounds: towards molecular spintronics	DST(SERB)	Kartick Tarafder, Ph.D.	2016-2019	22.73
DST INSPIRE Faculty Grant	Department of Science and Technology	Kishore Sridharan, Ph.D.	Oct 2015 – Oct 2020	35.00
Dynamics of Low Energy Antifibrillation pacing: Unpinning pinned rotating waves using far field electric pulses	Science and Engineering Research Board (SERB), DST.	Shajahan. T. K, Ph.D.	2017-2020	30.00
Transition Metal Oxide Based Devices for Nonvolatile Resistive	DST-SERB	Partha Pratim Das, Ph.D.	2017-2020	37.27

Random Access Memory Applications				
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### **School of Management**

<b>Name of Project</b>	<b>Funding Agency</b>	<b>Name of Investigator(s)</b>	<b>Period</b>	<b>Funding Amount (Rs)</b>
Diversity and Discrimination In Higher Education Campuses: An Empirical Analysis, Submitted To Centre For Policy Research In Higher Education (CPRHE),	NUEPA-ICSSR	Sreejith Alathur, A.H. Sequeira, Ph.D. B.V. Gopalakrishna	2014-2016	6.00
Live interdisciplinary R& D project & consultancy exposure in management and engineering to faculty & students through micro, small and medium enterprises	TEQIP-II	Bijuna Mohan, Ph.D. and K. V. Gangadharan, Ph.D.	2015-2016	9.83
Mitigation of Tribal Suicides through Empowerment	UGC	Sheena, Ph.D.	2014-2016	6.02
Impact of Technology Revolution in the Handloom Sector	TEQIP	Sheena, Ph.D. K. V. Gangadharan, Ph.D.	2016-2017	5.50
A Study on IT Application in SME	TEQIP	Geetha, Ph.D. Dr. Suprabha K. R, Ph.D.	2016- 2017	0.96
Impact of Work Conditions and Personal Attributes on Performance of Coal Mines: an Empirical Investigation	TEQIP –II	S. Pavan Kumar, Ph.D. and Ramachander, Ph.D	2016-2017	3.00

## **13.2 PROPOSED PLAN FOR RESEARCH**

### **Department of Chemical Engineering**

<b>New Labs / Equipment</b>	<b>Target For Sponsored R&amp;D Projects</b>	<b>New Areas Of Research</b>	<b>Institutions / Organizations For Future Collaborations</b>
Dilatometer Ionic Conductivity Meter	DST & International Projects	Fundamental Nano Energy Materials Research	Depends on collaboration
None	Yes.	Janus Nanoparticles based Capacitor films	Columbia University, USA

**Department of Civil Engineering**

<b>New Labs/Equipment</b>	<b>Target for Sponsored R&amp;D projects</b>	<b>New Areas of Research</b>	<b>Institutions/organizations for future collaborations</b>
Civil Engg. Materials Testing Lab  Pelletizer Hobart Mortar Mixer Pan Mixer		High Performance alkali activated slag concrete mixes.  Sustainable concrete technology with Industrial wastes	

**Department of Computer Engineering**

<b>New Labs/Equipment</b>	<b>Target for Sponsored R&amp;D projects</b>	<b>New Areas of Research</b>	<b>Institutions/organizations for future collaborations</b>
Internet of Things	DST	Internet of things systems Architecture	Foreign universities and/or IITs/IISc.
Cyber-Physical Systems	DST, NRB	Resource Management	Foreign universities and/or IITs/IISc.
Cyber Security	MEITY	Multi-model visual Security	Foreign universities and/or IITs/IISc.
Big Data Analytics	DST	Big Data	Foreign universities and/or IITs/IISc.

**Department of Chemistry**

<b>New Labs/Equipment</b>	<b>Target for Sponsored R&amp;D projects</b>	<b>New Areas of Research</b>	<b>Institutions/organizations for future collaborations</b>
Solar Cell Fabrication Laboratory: Glove-box, Solar simulator, Electrochemical work-station: PV measurement system – IPCE experiments	DST	Design and development of new dyes for DSSCs	N.C. University, Raleigh, US
Mass spectrometer	DST	New discotic liquid crystals for solar cell applications	RRI, Bangalore

**Department of Information Technology**

<b>New Labs/Equipment</b>	<b>Target for Sponsored R&amp;D projects</b>	<b>New Areas of Research</b>	<b>Institutions/organizations for future collaborations</b>
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Smart Healthcare	DST-SERB	Internet of Things	TCS Innovations Lab
Green Cloud Datacenter	DST-SERB	QoS Aware Energy Efficient Datacenters	IBM Cloud Centre of Excellence and CLOUDS LAB, Melbourne University

### **Department of Mathematical & Computational Sciences**

<b>New Labs/Equipment</b>	<b>Target for Sponsored R &amp; D Projects</b>	<b>New Areas of Research</b>	<b>Institutions/organizations for future collaborations</b>
The process is on, for getting another projects from DST and DAE.( Dr. P. Sam Johnson)			
To study the properties of kneading matrices under iteration.( Dr.V. Murugan)			

### **Department of Mechanical Engineering**

<b>New labs/ Equipment</b>	<b>Target for sponsored R&amp;D projects</b>	<b>New Areas of Research</b>	<b>Institute/Organizations for future collaborations</b>
Air Jet impingement study	ARDB/GTRE	confidential	NAL Bangalore/ ISRO Bangalore/GTRE Bangalore
Microfluidics Lab (Thermal study)	DST - ECR (Approved)	Experimental and computational study of microdevices for medical applications	IIT Madras, IIT Guwahati
Structural Dynamics Lab	ARDB(Approved)	Buckling and Dynamics of Heated Structures	VIT University
Stress Analysis Lab	UG/PG Lab	As per the Curriculum of MTech DP	IITs, NAL
Fracture Mechanics and Fatigue Lab	DST-EMR (Approved)	Composite Materials	IIT Bombay, NAL
Material Process Lab	DST-EMR (Approved)	SMA applications	IIT Bombay, NAL
Computational Mechanics Lab	MTech DP Lab	As per the Curriculum of MTech DP	
Advanced Manufacturing Lab	DST, M.Tech (MF)	3D printing	NAL

### **Department of Mining Engineering**

<b>New Labs/ Equipment</b>	<b>Target for Sponsored R&amp;D projects</b>	<b>New Areas of Research</b>	<b>Institutions/ organizations for future collaborations</b>
Modernization of Rock Mechanics Laboratory	30.00 Lakhs	Slope stability	CIL

Development of Mine Safety & Health	20.00 Lakhs	Mine Safety	SCCL
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### **Department of Metallurgical and Materials Engineering**

<b>New Labs/Equipment</b>	<b>Target for Sponsored R&amp;D projects</b>	<b>New Areas of Research</b>	<b>Institutions/organizations for future collaborations</b>
1. Surface Engineering Laboratory 2. Facility for assessment of health of quenchant 3. High performance workstation 4. Intel Fortran compilers	1. To get at least one sponsored R&D project per year 2. DST Start up grant 3. BARC Young scientist start-up grant	1. Nano Technology 2. Composites 3. Surface Engg. 4. Smart Materials 5. Data base on liquid Quenchant 6. Wetting/dewetting of liquids 7. Hydrodynamic stability 8. Shape Memory Alloys	1. Indira Gandhi Centre for atomic Research, Kalpakkam 2. Indian Institute of Science, Bangalore 3. National Aeronautics Ltd., Bangalore 4. Hindustan Aeronautics Ltd., Bangalore 5. Jindal South West, Vijayanagar 6. International Federation of Heat Treatment and Surface Engineering (IFHTSE), UK 7. Kennametal Ltd., Bangalore 8. Thermet Solutions (P) Ltd., Bangalore 9. Tata Institute of Fundamental Research, Hyderabad 10. IIT Hyderabad

### **Department of Physics**

<b>New Labs/Equipment</b>	<b>Target for Sponsored R&amp;D projects</b>	<b>New Areas of Research</b>	<b>Institutions/organizations for future collaborations</b>
CCD Camera LabView Software		Dynamics of excitation waves	
High end compute cluster and VASP software	DAE	Organic perovskite for solar cell	IISER-Pune/IIT-mumbai

**TECHNICAL PAPERS PUBLISHED IN REFEREED JOURNALS****Table: List of publications during the period under report**

Sl. No.	DEPARTMENT	PUBLICATIONS				Total
		International Journal	National Journal	International Conference	National Conference	
1	Applied Mechanics & Hydraulics	29	-	36	-	65
2.	Chemical Engineering	41	03	29	06	79
3.	Chemistry	49	01	29	05	84
4.	Civil Engineering	33	04	50	04	91
5.	Computer Engineering	30	-	55	-	85
6.	Electrical and Electronics Engineering	24	-	28	06	58
7.	Electronics & Communication Engineering	20	-	5	-	25
8.	School of Management	28	05	23	06	62
9.	Information Technology	9	-	35	-	44
10.	Mathematical and Computational Sciences	73	-	-	-	73
11.	Mechanical Engineering	72	02	34	01	109
12.	Metallurgical And Materials Engineering	40	02	22	02	66
13.	Mining Engineering	28	-	21	06	55
14.	Physics	37	-	08	06	51
	<b>Total</b>	<b>513</b>	<b>17</b>	<b>375</b>	<b>42</b>	<b>947</b>

**INTERNATIONAL JOURNAL :-****Department of Applied Mechanics And Hydraulics**

Sl. No.	Title of paper	Journal name. Vol. Issue, Page No.s	Author(s)*
1	Simulation using Computational fluid Dynamics (CFD) for Semi-Circular Breakwater during flow over it	International Journal of Scientific and Engineering Research 7(7), July 2016	Ankit Aggarwal, Vivek kumar Gope, and Arkal Vittal Hegde
2	Evaluation of pan-sharpening methods for spatial and spectral quality	Applied GEOMATICS, Springer, online, DOI: 10.1007/s12518-016-0179-2	Jagalingam P and Arkal Vittal Hegde

3	Estimation of bathymetry along the coast of Mangaluru using Landsat-8 Imagery	Int. J. of Ocean and Climate systems, Sage, Online, DOI: 10.1177/1759313116679672	Jagalingam P and Arkal Vittal Hegde
4	Pan-sharpening the spatial resolution of multispectral imagery	Arabian journal of Geoscience, Springer. Online, DOI: 10.1007/s12517-017-2878-3	Jagalingam P and Arkal Vittal Hegde
5	A Comparative Study on Extraction of Buildings from Quickbird-2 Satellite Imagery with & without Fusion	Cogent Engineering, T&F, 2017(4): 1-17.	Jagalingam P and Arkal Vittal Hegde
6	Analysis of variability and trends in rainfall over northern Ethiopia	Arabian Journal of Geosciences, (Springer) 9: 451. doi:10.1007/s12517-016-2471-1, 2016.	Kiros, G., Shetty, A. & Nandagiri L.
7	Analysis of Historical Trends in Hydrometeorological Variables in the Upper Cauvery Basin, Karnataka, India.	Current Science, 112(3), 577-587, February 2017	Kumar Raju B. C. and Nandagiri, L.
8	Effect of Water Depth on Wave Reflection and Loss Characteristics of an Emerged Perforated Quarter Circle Breakwater	International Journal of Ecology and Development(IJED), Scopus indexed journal, CESER Publications, Vol. 31, No. 03; pp 13-22 , (ISSN 0972-9984 (Print); ISSN 0973-7308 (Online)).	Binumol.S, Arkal Vittal Hegde and Subba Rao
9	“Wave Induced Sediment Transport in the Vicinity of Tidal Inlets along Karnataka Coast	International journal of Innovative Research in Science, Engineering and Technology, Vol. 5, Special Issue 9, May 12-13, pp 42-47, , (ISSN 2347-6710 (Print); ISSN 2319-8753 (Online)). ( <a href="http://dx.doi.org/10.15680/IJIRSET.2016.0505507">http://dx.doi.org/10.15680/IJIRSET.2016.0505507</a> )	Dinesh. D, Jaya Kumar Seelam and Subba Rao
10	Prediction of Wave Transmission using ANN for Submerged Reef of Tandem Breakwater	International journal of Innovative Research in Science, Engineering and Technology, Vol. 5, Special Issue 9, May 12-13, pp 137-142, , (ISSN 2347-6710 (Print); ISSN 2319-8753 (Online)). ( <a href="http://dx.doi.org/10.15680/IJIRSET.2016.0505522">http://dx.doi.org/10.15680/IJIRSET.2016.0505522</a> )	Nava Bharath Reddy, Geetha Kuntoji, Subba Rao, Manu and S. Mandal
11	Prediction of Transmitted Wave Height of Tandem Breakwater using Support	International journal of Innovative Research in Science, Engineering and	. Jithin J. S, Geetha Kuntoji, Subba Rao, Manu and Mandal. S

	Vector Regression	Technology, Vol. 5, Special Issue 9, May 12-13, pp 161-166, , (ISSN 2347-6710 (Print); ISSN 2319-8753 (Online)). ( <a href="http://dx.doi.org/10.15680/IJIRSET.2016.0505526">http://dx.doi.org/10.15680/IJIRSET.2016.0505526</a> )	
12	Laboratory Wave Generation Techniques for Shallow Basin Harbour Modelling Studies	International journal of Innovative Research in Science, Engineering and Technology, Vol. 5, Special Issue 9, May 12-13, pp 910-916, , (ISSN 2347-6710 (Print); ISSN 2319-8753 (Online)). ( <a href="http://dx.doi.org/10.15680/IJIRSET.2016.0505650">http://dx.doi.org/10.15680/IJIRSET.2016.0505650</a> )	Anoopdas S, H. B Jagadeesh and Subba Rao
13	Non-Linear Analysis of 3D Interaction of Soil-Diaphragm Wall-Structure with Different Cross-Sections	International Journal of Ecology and Development(IJED), Scopus indexed journal, CESER Publications, Vol. 31, No. 04; pp 14-26 , (ISSN 0972-9984 (Print); ISSN 0973-7308 (Online)).	Yajnheswaran. B and Subba Rao
14	Non-Linear Analysis of 3D Interaction of Soil-Diaphragm Wall-Structure with Different Cross-Sections	International Journal of Ecology and Development(IJED), Scopus indexed journal, CESER Publications, Vol. 31, No. 04; pp 14-26 , (ISSN 0972-9984 (Print); ISSN 0973-7308 (Online)).	Yajnheswaran. B and Subba Rao
15	Hydrodynamic performance characteristics of emerged perforated quarter circle breakwater	International journal of Innovative Research in Science, Engineering and Technology, Vol. 6, Special Issue 4, March 17-18, pp 44-48, , (ISSN 2347-6710 (Print); ISSN 2319-8753 (Online)).	Binumol S, Subba Rao, Arkal Vittal Hegde
16	Groundwater sustainability assessment in coastal aquifers	.. <i>J. Earth System Science</i> , DOI 10.1007/S 12040-016-0719-5	Lathashri UA and A.Mahesha
17	<i>Performance evaluation of hybrid wavelet-ANN and Wavelet-ANFIS models for estimating evapotranspiration in arid regions of India</i>	<i>Neural computing and Applications</i> ,[Elseviour]IF =1.49 <i>Neural Computing and Applications</i> , 28(2),275-285. <a href="http://dx.doi.org/10.1007/s00521-015-2055-0">http://dx.doi.org/10.1007/s00521-015-2055-0</a>	Amit Prakash Patil and Paresh chandra Deka
18	<i>Offshore wind power resource assessment using Oceansat-2 scatterometer</i>	<i>International journal of APPLIED ENERGY</i> ,[Elseviour}Vol.176,[	Sanjeev Gadad and Paresh Chandra Deka

	<i>data at a regional scale</i>	2016],pp.157-170,IF=7.12 DOI:10.1016/j.apenergy.2016.05.046	
19	<i>An extreme learning machine approach for modeling evapotranspiration using extrinsic inputs</i>	Computers and Electronics in Agriculture[Elsevier] dx.doi.org/10.1016/j.compag.2016.01.016,February,vol.121(2016),pp.385-392.IF=2.01	Amit Prakash Patil and Paresh Chandra Deka
20	<i>Modeling of Air temperature using ANFIS by Wavelet Refined Parameters</i>	International journal of Intelligent systems and Applications,MECS. 2016,vol-8,no-1,pp.25-34. DOI:10.5815/ijisa.2016.01.04	B.S.Karthika and Paresh Chandra Deka
21	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), (DOI: 10.1007/s40899-017-0088-5)	Ashwathi P Anil and Ramesh H
22	EXhype: A tool for mineral classification using hyperspectral data	ISPR J. of Photogrammetry and Remote Sensing, 124, 106–118	Ramesh Adep, Amba Shetty, Ramesh H
23	Long-term extreme load prediction of spar and semi-submersible floating wind turbines using the Environmental Contour method	<i>Journal of Offshore Mechanics and Arctic Engineering</i> (ASME, IF: 0.456) Vol-138(2), pp. 021601-01-10, 2016.	D. Karmakar & C. Guedes Soares
24	Hydroelastic impact of a horizontal floating plate with forward speed	<i>Journal of Fluids and Structures</i> (Elsevier, IF: 2.051) Vol 60, pp. 97 -113, 2016.	Shan Wang, D. Karmakar & C. Guedes Soares
25	Performance of optimally tuned arrays of heaving point absorbers	<i>Renewable Energy</i> (Elsevier, Elsevier, IF: 3.551)Vol 92, pp. 517-531, 2016.	Ashank Sinha, D. Karmakar & C. Guedes Soares
26	Shallow water effects on a hydraulic power take-off WEC with reactive control	<i>International Journal of Ocean and Climate Systems</i> (Sage Publisher), Vol 7(3), pp. 108-117, 2016.	Ashank Sinha, D. Karmakar & C. Guedes Soares
27	Hydrodynamic behaviour of concentric arrays of point absorbers attached to a bottom-mounted platform	<i>International Journal of Ocean and Climate Systems</i> (Sage Publisher), Vol 7(3), pp. 88-94, 2016.	Ashank Sinha, D. Karmakar & C. Guedes Soares
28	Hydroelastic analysis of floating elastic thick plate in shallow water depth	<i>Perspective in Science</i> (Elsevier), Vol 8, pp. 770-772, 2016.	Praveen, K.M., D. Karmakar & T. Nasar
29	Wave interaction with very large floating structures	<i>Perspective in Science</i> (Elsevier), Vol 8, pp. 533-	Anoop Shirklol, T. Nasar & D. Karmakar

(VLFS) using BEM approach -revisited	535, 2016.	
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**Department of Chemical Engineering**

<b>Sl. No.</b>	<b>Title Of Paper</b>	<b>Journal Name, Vol., Issue, Page Nos.</b>	<b>Author(S)*</b>
1	Nonionic surfactants induced cloud point extraction of Polyhydroxyalkanoate (PHA) from <i>Cupriavidus necator</i>	Separation science and Technology, DOI: <a href="https://doi.org/10.1080/01496395.2017.1307227">10.1080/01496395.2017.1307227</a>	Sivananth Murugesan, Regupathi Iyyaswami
2	A new strategy to refine crude Indian sardine oil,	Journal of Oleo Science, doi : 10.5650/jos.ess16164	S. Charanyaa, Prasanna D. Belur, I. Regupathi
3	Lipase mediated synthesis of rutin fatty ester: Study of its process parameters and solvent polarity	Food Chemistry, 232, 278-285	C. Vaisali, Prasanna D. Belur, Regupathi Iyyaswami
4	Continuous Aqueous Two Phase Extraction of $\alpha$ -Lactalbumin from Whey in Conventional Rotating Disc Contactor	Separation Science and Technology, Vol. 51(14), 2411-2419 ; DOI: 10.1080/01496395.2016.1202278	Sivakumar Kalaivani & Iyyaswami Regupathi
5	Dissolution of kraft lignin using Protic Ionic Liquids and characterization	Industrial Crops and Products 84, 284-293, DOI: <a href="https://doi.org/10.1016/j.indcrop.2016.02.017">10.1016/j.indcrop.2016.02.017</a>	T Rashid, CF Kait, I Regupathi, T Murugesan
6	Screening of polymeric membranes for membrane assisted deacidification of sardine oil	Resource-Efficient Technologies, 2, S119-S123	Sampath Charanyaa, Chandrasekar Vaisali, Prasanna D. Belur, I. Regupathi
7	Effect of hydroxybenzoic acids antioxidants on the oxidative stability of sardine oil	Resource-Efficient Technologies, 2, S114-S118	Vaisali Chandrasekar, Prasanna D. Belur, I. Regupathi
8	Comparison of antioxidant properties of phenolic compounds and their effectiveness in imparting oxidative stability to Sardine oil during storage.	LWT - Food Science and Technology. 69, 153-160.	Vaisali C, Prasanna D. Belur, Regupathi I
9	Chemical modification of oxalate oxidase produced from <i>Ochrobactrum intermedium</i> CL6 gave new insight on its catalytic prowess	Asian Journal of Biochemistry, DOI: 10.3923/ajb.2017.	Kunal Kumar and Prasanna Devarabhat Belur
10	Scale-up of naringinase production process based on the constant oxygen transfer	Preparative biochemistry and biotechnology, 47 (2), 192-198	Keyur Raval, Kartik Gehlot, Prasanna B. D

	rate for a novel strain of <i>Bacillus methylotrophicus</i> ,		
11	A new extracellular thermostable oxalate oxidase produced from endophytic <i>Ochrobactrum intermedium</i> CL6: Purification and biochemical characterization	Preparative Biochemistry & Biotechnology, 46 (7), 734-738.	Kunal Kumar and Prasanna D. Belur
12	Partial purification and characterization of L-asparaginase from an endophytic <i>Talaromyces pinophilus</i> isolated from the rhizomes of <i>Curcuma amada</i> .	Journal of Molecular Catalysis B: Enzymatic. 124, 83-91.	Prajna Rao K and Prasanna D. Belur
13	Multistrain probiotics production by co-culture fermentation in a lab-scale bioreactor.	Engineering in Life Sciences. 16, 247- 253.	Manoj Jangra, Prasanna D. Belur, Larysa B. Oriabinska, Olexii M. Dugan
14	L-asparaginase - A review on properties and applications.	Critical Reviews in Microbiology, 42 (5), 720-737.	Prajna Rao K and Prasanna D. Belur
15	Isolation and screening of endophytes from the rhizomes of Zingiberaceae plants for L-asparaginase production.	Preparative Biochemistry & Biotechnology, 46 (3), 281-287.	Prajna Rao K and Prasanna D. Belur
16	Numerical Analysis of Flow Characterization in a Continuous Crystallizer	International Journal of Chemical Separation Technology Vol. 2: Issue 2, IJCST (2016) 1-11	A. Thimmaiah, L. Falleiro, A. Naval, A. Ambekar, B. Ashraf Ali
17	Electrolytic Degradation of Uric Acid Using Nickel Electrodes in an Unpartitioned and Partitioned Batch Cell	International Journal of Chemical Engineering and Processing. Vol 2, No 1 (2016)	B. Ashraf Ali, Raghuram Chetty, S. Pushpavanam
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32	Selection of Medium and Optimization of Process Parameters for Melanin Biosynthesis from <i>Pseudomonas stutzeri</i> HMG-7	Book chapter in Biotechnology and Biochemical Engineering, 1-10, 2016, Springer, Singapore	Harsha T. Shraddha B, Raj Mohan B., Raval K
33	Modeling and control of a real time shell and tube heat exchanger	Resource-Efficient Technologies, Vol. 3 (1), pp. 124-132	A. Sahoo, T. K. Radhakrishnan and C. Sankar Rao
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### Department of Civil Engineering

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1	Performance of hybrid fibre-reinforced concretes at elevated temperatures	Journal of Structural Fire Engineering, Vol. 8 Iss 1 (2017) pp. 73 – 83.	Swapnil K. Shirsath and Subhash C. Yaragal
2	Influence of mixing method, speed and duration on the fresh and hardened properties of Reactive Powder Concrete	International Journal of Construction and Building Materials, Elsevier, 141 (2017) 271-288	Parameshwar Hiremath and Subhash C. Yaragal
3	Performance studies on concrete with recycled coarse aggregates	International Journal of Advances in Concrete Construction, Technopress, Korea, Vol. 4, No. 4 (2016) 263-281	Subhash C Yaragal, Dumpati C Teja and Mohemmad Shaffi
4	Exposure to elevated temperatures and cooled under different regimes – A study on polypropylene concrete	International Journal of Advances in Materials Research, Technopress, Korea, Vol. 5, No.1 (2016) 21-34.	Subhash C Yaragal and S Ramanjaneyulu
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15	Artificial neural network based modeling to evaluate methane yield from biogas in a laboratory-scale anaerobic bioreactor	<i>Bioresource Technology (Elsevier)</i> , Vol. 217, pp. 90-99. [Oct. 2016]	Vijay V. Nair, Hiya Dhar, Sunil Kumar, Arun Kumar Thalla, Somnath Mukherjee and Jonathan W.C. Wong
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19	Response of strata and buildings to blast induced vibrations in the presence and absence of a tunnel	<i>Geotechnical and Geological Engineering (International) Journal, Springer Publishers, Netherlands, Paper No., GEGE-D-15-00170 ( April 25, 2016)(Scopus indexed)</i>	Nalini Elizabeth Rebello, Vedala Rama Sastry and R. Shivashankar
20	Studies on modulus of subgrade reaction of reinforced foundation soil using model plate load test	<i>Journal of Chemical and Pharmaceutical Sciences JCHPS (ISSN 0974-2115) special issue 2, August 2016, pp.46-51 (scopus indexed)</i>	Nayana N. Patil, R. Shivashankar & H. M. Rajashekar Swamy
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23	Influence of Drying Temperature on Three Soils Physical Properties	<i>Geotech Geol Eng (2016) 34:777–788 (Scopus indexed) DOI 10.1007/s10706-016-0001-2.</i>	B.M., and A.V. Deepa
24	Optimization of Fenton's oxidation of herbicide dicamba in water using response surface methodology	<i>Applied Water Science ISSN 2190-5487 DOI 10.1007/s13201-017-0559-8</i>	ev Sangami and Basavarau Manu
25	Seismic analysis of shear wall buildings incorporating site specific ground response,	<i>Structural Engineering and Mechanics, Vol. 60, No. 3 (2016) 433-453 DOI: <a href="http://dx.doi.org/10.12989/sem.2016.60.3.433">http://dx.doi.org/10.12989/sem.2016.60.3.433</a></i>	B.R. Jayalekshmi and Chinmayi H.K.
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31	Driving Behaviors: Models and Challenges for non-lane based Mixed Traffic	<i>Journal of Transportation in Developing Economies (Springer)</i> , 1. DOI: 10.1007/s40890-016-0025-6.	Gowri Asaithambi, Venkatesan Kanagaraj and Tomer Toledo
32	Pedestrian Road Crossing Behavior under Mixed Traffic Conditions: A Comparative Study of an Intersection before and after Implementing Control Measures	<i>Journal of Transportation in Developing Economies (Springer)</i> , DOI: 10.1007/s40890-016-0018-5	Gowri Asaithambi, Manu O Kuttan and Sarath Chandra
33	Analysis of Occupation Time of Vehicles at Urban Unsignalized intersections in Non-lane-based Mixed Traffic Conditions	<i>Journal of Modern Transportation (Springer)</i> , Vol. 1, No. 4, pp. 304-313.	Gowri Asaithambi and Chepuru Anuroop

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1.	Dynamic partner selection in Cloud Federation for ensuring the quality of service for cloud consumers	<i>International Journal of Modeling, Simulation, and Scientific Computing Int. J. Model. Simul. Sci. Comput.</i> 0,1750036 (2017) [24 pages]	Manoj V. Thomas K. Chandrasekaran
2.	An Energy-Efficient Clustering Algorithm for Edge-Based Wireless Sensor Networks	<i>Procedia Computer Science</i> , <a href="https://doi.org/10.1016/j.procs.2016.06.003">https://doi.org/10.1016/j.procs.2016.06.003</a> , Volume 89, 2016, Pages 7-16	K Muni Venkateswarlu A Kandasamy K Chandrasekaran

3.	A Novel Machine Learning Approach for Bug Prediction	Procedia Computer Science, <a href="https://doi.org/10.1016/j.procs.2016.07.271">https://doi.org/10.1016/j.procs.2016.07.271</a> , Volume 93, 2016, Pages 924-930	Shruthi Puranik, Pranav Deshpande K Chandrasekaran
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5.	Trust and Risk Based Approach for the Management of Dynamic Break-Glass Access in the Cloud Federation Environments	International Journal of Computer Science and Information Security, Volume 14, 2016, Issue 7, Pages 141	Manoj V Thomas K Chandrasekaran
6.	Enhanced Trust Path between Two Entities in Cloud Computing Environment	International Journal of Cloud Applications and Computing (IJCAC), Volume 6, 2016, Issue 3, Pages 17, DOI: 10.4018/IJCAC.2016070102	Usha Divakarla K Chandrasekaran
7.	Cloud Services and Service Providers	Journal Encyclopedia of Cloud Computing, Pages 17, 2016	K Chandrasekaran Alaka Ananth
8.	Developing Software for Cloud: Opportunities and Challenges for Developers	Journal Encyclopedia of Cloud Computing, Pages 150, 2016	K Chandrasekaran C Marimuthu
9.	Distributed Access Control in Cloud Computing Systems	International Journal Encyclopedia of Cloud Computing, Pages 417, 2016	K Chandrasekaran Manoj V Thomas
10.	A comparison of linear discriminant analysis and ridge classifier on Twitter data	2016 International Conference of Computing, Communication and Automation (ICCCA), DOI: 10.1109/CCAA.2016.7813704	Anagh Singh B Shiva Prakash K Chandrasekaran
11.	Distribution function based efficient secure group communication using key tree	International Conference of Recent Trends in Information Technology (ICRTIT), 2016, DOI: 10.1109/ICRTIT.2016.7569579	Piyush Kumar Shanu K Chandrasekaran
12.	Discovering suspicious behavior in multilayer social networks	International Journal of Computers in Human Behavior, Volume 73, August 2017, Pages 568-582, <a href="http://doi.org/10.1016/j.chb.2017.04.001">http://doi.org/10.1016/j.chb.2017.04.001</a>	PV Bindu, P Santhi Thilagam Deepesh Ahuja

13.	Live migration of virtual machines with their local persistent storage in a data intensive cloud	International Journal of High Performance Computing and Networking, Volume 10, 2016, Issue 1-2 ,Pages134-147 DOI: 10.1504/IJHPCN.2017.083213	Abhinit Modi Raghavendra Achar P Santhi Thilagam
14.	Black-box detection of XQuery injection and parameter tampering vulnerabilities in web applications	International Journal of Information Security, Pages 1-16, 2016, DOI: 10.1007/s10207-016-0359-4	G Deepa P Santhi Thilagam Furqan Ahmed Khan Amit Praseed Alwyn R Pais Nushafreen Palsetia
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18.	Mining social networks for anomalies: Methods and challenges	Journal of Network and Computer Applications, Volume 68, June 2016, Pages 213–229, <a href="http://doi.org/10.1016/j.jnca.2016.02.021">http://doi.org/10.1016/j.jnca.2016.02.021</a>	PV Bindu P Santhi Thilagam
19.	Bird classification based on their sound patterns	International Journal of Speech Technology (Springer), Vol-19, pp-791-804, 2016	Raghuram Chavan Nikhil R, Ravikiran Koolagudi Shashidhar G
20.	Prediction model for peninsular Indian summer monsoon rainfall using data mining and statistical approaches	Computer & Geosciences, Vol-98, pp-55-63, 2017.	Vathsala H Koolagudi Shashidhar G
21.	Social network pruning for building optimal social network: A user perspective	Journal of Knowledge-Based Systems, Volume 117, 2017, Pages 101-110, <a href="http://doi.org/10.1016/j.knosys.2016.10.020">http://doi.org/10.1016/j.knosys.2016.10.020</a>	N Sumith, B Annappa, Swapan Bhattacharya
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23.	Simplified and improved multiple attributes alternate ranking method for vertical handover decision in heterogeneous wireless networks	Journal of Computer communications, Volume 83, 2016, Pages 81-97, <a href="http://doi.org/10.1016/j.comcom.2015.10.011">http://doi.org/10.1016/j.comcom.2015.10.011</a>	B R Chandavarkar, Ram Mohana Reddy Guddeti
24.	Recent Advancements in Retinal Vessel Segmentation	Journal of medical systems Volume 41, 2017, Issue 4, Pages 70, DOI: 10.1007/s10916-017-0719-2	Chetan L Srinidhi, P Aparna, Jeny Rajan
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26.	Coupled PDE for Ultrasound Despeckling Using ENI Classification	Journal of Procedia Computer Science, Volume 89, 2016, Pages 658-665, <a href="https://doi.org/10.1016/j.procs.2016.06.031">https://doi.org/10.1016/j.procs.2016.06.031</a>	R Soorajkumar, P Krishnakumar, D Girish, Jeny Rajan
27.	Ultrasound-based automated carotid lumen diameter/stenosis measurement and its validation system	Journal for Vascular Ultrasound, Volume 40, 2016, Issue 3, Pages 120-134	Tadashi Araki, Asheed M Kumar, P Krishna Kumar, Ajay Gupta, Luca Saba, Jeny Rajan, Francesco Lavra, Aditya M Sharma, Shoab Shafique, Andrew Nicolaidis, John R Laird, Jasjit S Suri
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29.	Two automated techniques for carotid lumen diameter measurement: regional versus boundary approaches	Journal of medical systems, Volume 40, 2016, Issue 7, Pages 1-19, doi: 10.1007/s10916-016-0543-0	Tadashi Araki, P Krishna Kumar, Harman S Suri, Nobutaka Ikeda, Ajay Gupta, Luca Saba, Jeny Rajan, Francesco Lavra, Aditya M Sharma, Shoab Shafique, Andrew Nicolaidis, John R Laird, Jasjit S Suri
30.	Enhancement and bias removal of optical coherence	Journal of Computers in biology and medicine	P V Sudeep, S Issac Niwas, P Palanisamy,

tomography images: An iterative approach with adaptive bilateral filtering	Volume 71, 2016, Pages97-107, <a href="http://doi.org/10.1016/j.combiomed.2016.02.003">http://doi.org/10.1016/j.combiomed.2016.02.003</a>	Jeny Rajan, Yu Xiaojun, Xianghong Wang, Yuemei Luo, Linbo Liu
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### Department of Chemistry

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1	Fabrication of hair and copper fiber reinforced polymethyl methacrylate (PMMA) composites and evaluation of their mechanical properties, thermal conductivity and color stability for dental applications.	Trends in Biomaterials & Artificial Organs <u>Vol. 30, (2016)</u>	K. Jayaprakash, B. T. Nandish, M Rijesh, Jaganath Nayak, Sachin Bhat, A. Nityananda Shetty, Harishkumar Shetty, Sudeendra Prabhu
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3	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.	S. Kshama Shetty, A. Nityananda Shetty
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5	Direct Synthesis of nanofluids containing novel hexagonal disc shaped copper nanoparticles.	J. Nanofluids, 6 (2017) 11 – 17.	Shenoy, S.U. and Shetty, N.A.
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**Department of Electronics And Communication Engineering**

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5	A critical review on probabilistic load flow	<i>Renewable and Sustainable Energy</i>	Prusty, B. R., & Jena, D.

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18	An adaptive reactive power perturbation based hybrid islanding detection method for distributed generation systems	International Journal of Power and Energy Systems, Vol . 36 , No. 1, 2016	Geethi Krishnan and Dattatraya N. Gaonkar
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23	Investigation on cascade multilevel inverter with symmetric, asymmetric, hybrid and multi-cell configuration.	Ain shams Engineering Journal ( <b>Elsevier</b> )	Y.Suresh, J. Venkataramana, A.K.panda,
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6	"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 (SCI Indexed, IF 2.248), 2017. (DOI: <a href="https://doi.org/10.1007/s10796-017-9738-2">10.1007/s10796-017-9738-2</a> )	Sowmya Kamath S, Ananthanarayana V.S
7	"Semantics-based Web service classification using morphological analysis and ensemble learning techniques."	International Journal of Data Science and Analytics 2, no. 1-2 (2016): 61-74, (DOI: <a href="https://doi.org/10.1007/s41060-016-0026-x">10.1007/s41060-016-0026-x</a> )	Sowmya Kamath S, Ananthanarayana V.S
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**Department of Mathematical and Computational Sciences**

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17	Melt quenched vanadium oxide embedded in graphene oxide sheets as composite electrodes for amperometric dopamine sensing and lithium ion battery applications	Applied Surface Science, 111, 15 July 2017, 336-343	M. Sreejesh, Sulakshana Shenoy, Kishore Sridharan,* D. Kufian, A.K. Arof and H.S. Nagaraja*
18	Ultrafast and short pulse optical nonlinearity in isolated, sparingly sulfonated water-soluble graphene	Carbon, 111, January 2017, 283-290	Sreekanth Perumbilavil, Kishore Sridharan,* Dibyashree Koushik, Pranitha Sankar, V.P. Mahadevan Pillai and Reji Philip*
19	Nonlinear transmission and optical power limiting in Magnesium ferrite nanoparticles: effects of laser pulsewidth and particle size	RSC Advances, 111, 108, 283-290	Sreekanth Perumbilavil, Kishore Sridharan,* Ann Rose Abraham, Harsha P Janardhanan, Nandakumar Kalarikkal and Reji Philip
20	Microwave assisted growth of stannous ferrite microcubes as electrodes for potentiometric nonenzymatic H <sub>2</sub> O <sub>2</sub> sensor and supercapacitor applications	Electrochimica Acta, 217, 1 November 2016, 139-149	Bindu K, Kishore Sridharan,* Ajith K M, H.N. Lim and H.S. Nagaraja*
21	Eliminated phototoxicity of TiO <sub>2</sub> particles by atomic-layer-deposited Al <sub>2</sub> O <sub>3</sub> coating layer for UV-protection applications	Chemistry - A European Journal 22, 34, 12022-12026	Eunyong Jang, Kishore Sridharan, Young Min Park and Tae Joo Park
22	Memory type switching behavior of ternary Ge <sub>20</sub> Te <sub>80-x</sub> Sn <sub>x</sub> (0 ≤ x ≤ 4) chalcogenide compounds	Journal of Physics D: Applied Physics, 49, 29, 295104	Brian Jeevan Fernandes, Kishore Sridharan,* Pamlian Munga, K. Ramesh and N. K. Udayashankar*
23	Dependence of the 0.5(2e <sup>2</sup> /h) conductance plateau on the aspect ratio	Journal of Applied Physics, 121, 083901 (2017)	P. P. Das, A. Jones, M. Cahay, S. Kalita, S. S. Mal, N. S. Sterin, T. R.

	of InAs quantum point contacts with in-plane side gates		Yadunath, M. Advaitha, S. T. Herbert
24	Highly efficient catalytic reductive degradation of various organic dyes by Au/CeO <sub>2</sub> – TiO <sub>2</sub> nano-hybrid	J. Chem. Sci. vol. 129, pp. 81-93, 2017.	P. Saikia, A. Taleb, P. P. Das
25	Evolutionary algorithm based structure search and first-principles study of B12 C3	J. Alloys Compd. 695, 2023-2034 (2017)	Harikrishnan, G., Ajith, K.M., Sharat Chandra, Valsakumar, M.C.
26	Directional anisotropy, finite size effect and elastic properties of hexagonal boron nitride	J. Phys.: Condens. Matter, 28, 295302 (2016)	Siby Thomas, K M Ajith, M C Valsakumar.
27	Pressure-induced variation of structural, elastic, vibrational, electronic, thermodynamic properties and hardness of Ruthenium Carbides	J. Phys. Chem. Solids. 94, 47-58 (2016)	Harikrishnan, G., Ajith, K.M., Sathish Natarajan, Sharat Chandra, Valsakumar, M.C.
28	Effect of Pressure on the band structure of BC3	AIP Conf. Roc. 1731, 090015 (2016)	Manju M S, G. Harikrishnan, Ajith K M M C Valsakumar
29	Young's modulus of defective graphene sheet from intrinsic thermal vibrations	J. Phys.: Conf. Ser., 759, 012048 (2016)	Siby Thomas, M S Mrudul, K M Ajith M C Valsakumar.
30	Structural Analysis of Graphene and h-BN: A Molecular Dynamics Approach	AIP Conf. Proc. 1728, 020608 (2016)	Siby Thomas, K M Ajith and M C Valsakumar.
31	Microwave assisted synthesis of rGO/ZnO composites for non-enzymatic glucose sensing and supercapacitor applications	Ceram. Int. 43(6), 4895–4903	Sreejesh M, Dhanush S, Rossignol F and H. S. Nagaraja
32	Melt quenched vanadium oxide sandwiched in graphene oxide sheets as composite electrodes for amperometric dopamine sensing and lithium ion battery applications	Appl. Surf. Sci., 410, 33-343	Sreejesh M., Sulakshana Shenoy, Kishore Sridharan D. Kufian, A.K. Arof H.S. Nagaraja
33	Hydrothermally Synthesized Reduced Graphene Oxide and Sn Doped Manganese Dioxide Nanocomposites for Supercapacitors and Dopamine Sensors	Mater. Today Energy. 4, 66-74	Dhanush Shanbhag, K Bindu, A.R. Arathy, Martha Ramesh, Sreejesh M, H.S. Nagaraja
34	Hydrazie Sensing Properties	AIP Conf. Proc., 1728,	Sreejesh M, H.S.

	of Microwave Synthesized Graphene/ZnO Composite	020255	Nagaraja, Udaya Bhat K
35	Thermal Time and Kepler's Second Law	arXiv:1607.00955	Deepak Vaid
36	LQG for the Bewildered	Book, published by Springer ISBN: 978-3-319-43182-6	Deepak Vaid, Sundance Bilson-Thompson
37	Resonant Terahertz InSb Waveguide Device for Sensing Polymers	J. Infrared, Millimeter and Terahertz Waves 37 (8), 795-804 (2016)	Shourie Ranjana J, Piyush Bhatt, Prathmesh Deshmukh, Bagvanth R. Sangala, M. N. Satyanarayan, G. Umesh, S.S. Prabhu

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1.	Institutionalization of Father's Level of Income on Students Nature of Campus Adaptations	International Journal of scientific research and management ,Vol.4, Issue12 , pp 4956-4969,2016	Vijayalakshmi N.S and Sequeira A. H.
2.	Open Innovation Practices Among Indian Software Product Firms: A Pilot Study,	International Journal of Innovation and Sustainable Development Vol 11, No.4 pp. 355-376	Sumukh Hungund and Kiran K B
3.	Open Innovation- A Need of the Hour for Indian Small and Medium Enterprises, Dharana	International Journal of Business 10(1),03-09, ISSN 0974-0082	Sumukh S Hungund and Kiran K.B.
4.	Trading Of Intellectual Property Rights and Its Influence on Performance of Small and Medium Firms in Software Product Segment	International Journal of Information Technology and Management	Sumukh Hungund and Kiran K B
5.	Israeli Occupation and Palestinian Resistance in the Novel Wild Thorns by Sahar Khalifeh	International Journal of Humanities and Cultural Studies, Vol. 3 (2), 2016, pp, 1435-1447	Priyanka and Shashikantha Koudur
6.	Corporate Governance and Financial Distress: Evidence from Indian Companies	International Journal of Economic Research, Vol. 13, Issue 7, 2016.	Shridev Devji, Suprabha K. R, Krishna Prasad
7.	An Analysis of Diversification Benefits of commodity futures using Markov-Regime-Switching Approach	Afro-Asian Journal of Financial Analysis, Inderscience Online. Accepted for publication.	Jaiswal, R. & Uchil, R.

8.	An Analysis of Gold Futures as an Alternative Asset: Evidence from India	International Journal of Economics and Financial Issues (IJEFI) ISSN: 2146-4138. Econ Publishing. Accepted for publication	Jaiswal, R. & Uchil, R.
9.	Markov Switching Approach to analyze hedging potential of copper and gold futures	IOSR Journal of Economics and Finance (IOSR-JEF), Vol. 1, 67-73.	Jaiswal, R. & Uchil, R
10.	Conceptual Framework on market factors affecting investor's sentiments and the effect of behavioral pitfalls on investment decision making	IOSR Journal of Economics and Finance (IOSR-JEF), Vol. 1, 29-34	Haritha P.H & Uchil, Rashmi
11.	Empirical Validation of Dimensionality of Quality of Work Life for Indian Public Sector Undertakings	International Journal of Applied Business and Economic Research, 14(6), 4253-4266, 2016	Saha, S. & Kumar, S.P.
12.	Antecedents of employee turnover intension in Indian automotive industry”	International Journal of Economic Research, 13(3), 683-706, 2016	Giri, V. N., Kumar, S. P., & Rajesh, V.K.
13.	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. 2017	Pradyot Ranjan Jena and Ulrike Grote
14.	Access to Safe Drinking Water and Human Health: Empirical Evidence from Rural Bhutan.	Water Science and Technology: Water Supply. doi:10.2166/ws.2016.063	D. B. Rahut, A. Ali, N. B. Chhetri, B. Behera and Pradyot Ranjan Jena
15.	Resource saving and productivity enhancing impacts of crop management innovation packages in Ethiopia	Agricultural Economics. 47, 513-522	M. Jaleta, M. Kassie, K. Tesfaye, T. Teklewold, Pradyot Ranjan Jena, M. Paswel and O. Erenstein
16.	The impact of coffee certification on income among smallholders in Jinotega, Nicaragua	Environment, Development and Sustainability. 19(1), 45-66.	Pradyot Ranjan Jena, Till Stellmacher, Ulrike Grote
17.	Fairtrade Certification and Livelihoods: A Panel Data Analysis of Coffee Growing Households in India	Agricultural and Resource Economics Review, 45 (3), 436 – 458.	S. Karki, Pradyot Ranjan Jena and U. Grote
18.	The impact of entry of foreign banks on credit access an empirical study on Indian economy	International Journal of Economic Research. (ISSN : 0972-9380) 2016	Massand Ajay & Gopalakrishna B.V

19.	Brand value proposition for bank customers in India	International Journal of Bank Marketing Vol. 35 No. 1, 2017 pp. 24-44	Y L R Moorthi Bijuna C Mohan,
20.	Migration, Resettlement and the Spaces in between: A Study of Select South Asian Migrant Literature	International Journal of English and Literature. Volume 7, Issue-1: 61-64. ISSN 2249-8028 (Online). Feb 2017	Dash, Bibhudatta and Dhishna Pannikot
21.	Connotations of Culture and Identity: A Study on the Significance of Cross Cultural Interactions.	International Journal of Culture and History. Vol. 2, No. 4, December 2016. 199-202. Print. ISSN: 2382- 6177 361	Dhishna Pannikot
22.	Unraveling a New Literary Genre: Studies on Transgender Autobiographies	Journal of Higher Education and Research Society: A Refereed International. ISSN 2349-0209.Vol-4 / Issue-2 OCTOBER 2016, JHERS, 674-681. Web.	Tanupriya and Dhishna P.
23.	Exploring Kinesthetics of Gender Identity through Select Transgender Autobiographies	International Journal of English and Literature (IJEL).ISSN: 2249-6912, Vol 6, Issue 3, May-June 2016. 29-34.	Tanupriya and Dhishna P
24.	Involuntary Displacement across Geographical Borders in Select South Asian Immigrant Narratives	International Journal of Humanities and Social Science Studies. Volume-II, Issue-IVISSN: 2349-6959 (Online), ISSN: 2349-6711 (Print). Karimganj, Assam: Scholar Publications, January 2016. 63-67	Dash, Bibhudatta and Dhishna. P
25.	Implications of energy subsidy reform in India	Energy Policy, Vol. 102, March 2017, pp. 453-462	Rajesh Acharya H Anver Sadath C
26.	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	Rajesh Acharya H Anver Sadath C
27.	On the Interaction between Energy Price and Firm Size in Indian Economy	OPEC Energy Review, 2016, 40 (3), pp. 300-315	Rajesh Acharya H Anver Sadath C
28.	Energy Price Uncertainty and Investment- Firm Level Evidence from Indian Manufacturing Sector.	International Journal of Energy Economics and Policy, 2016, 6 (3), pp. 364-373	Rajesh Acharya H Anver Sadath C

**NATIONAL JOURNALS**

**Department of Chemical Engineering**

<b>Sl. No.</b>	<b>Title of paper</b>	<b>Journal Name, Vol., Issue, Page Nos.</b>	<b>Author(s)*</b>
1.	Media Optimization for Biodegradation of Phenol by <i>Nocardia hydrocarbonoxydans</i> NCIM 2386. 19-24	Research Journal of Chemical and Environmental Sciences Res J. Chem. Environ. Sci. Vol 4 [4S] 2016: 19-24	Gauthami R.Shetty, Deekshitha, Vidya Shetty K*
2.	Sonochemical Synthesis of Polymethylmethacrylate-Halloysite Nanotube by Solution Casting Method	Indian Journal of Advances in Chemical Science S1 (2016) pp213-216, 2016.	M. J. Kishor Kumar, Buruga Kezia, T. K. Jagannathan
3.	Sonochemical Synthesis of CTAB modified HNT-polystyrene nanocomposites by solution casting method	Asian Journal of Chemistry; Vol. 29, No. 1 (2017), 199-202. <a href="https://doi.org/10.14233/ajchem.2017.20377#sthash.yXf2kT0E.dpuf">https://doi.org/10.14233/ajchem.2017.20377#sthash.yXf2kT0E.dpuf</a>	Kezia Burugaand Jagannathan.T.K

**Department of Civil Engineering**

<b>Sl. No.</b>	<b>Title of paper</b>	<b>Journal Name, Vol., Issue, Pages Nos.</b>	<b>Authors(s)*</b>
1	Valorization of Waste Sludge	Manipal Journal of Science and Technology, Volume 1, Issue 1, June 2016, pp. 38-44.	<b>S.Shrihari</b>
2	Fitting Statistical Distributions for Speeds and Headways for Peak and Non-Peak Mixed Traffic Flows in Mangalore City Karnataka, India (2016)	Intl. Journal of Earth Sciences and Engrg., Vol. 09, No.02, pp. 512-520. ISSN 0974-5904. Indexed in Scopus Compendex and Geobase Elsevier, Geo-Ref Information Services-USA, List B of Scientific Journals, Poland,	Varghese George, Purumala Snehith, Ishan Tamhane S., Sreeja Reddy, Ranjusha P.G, Marsh M., and Akash Anand.
3	Establishing Relationships for Strength Characteristics of Lateritic Soils with Varying Silt Fractions (2016)	Intl. Journal of Earth Sciences and Engrg., Vol. 09, No.04 (ISSN 0974-5904), pp. 885-887, Aug. (Index Copernicus, and Google Scholar)	Varghese George, Anil Kumar, Sriram Marathe
4	Stability Analysis of lateritic soil Embankment Sub-grade Using Plaxis-2D (2016)	International Journal of Research in Engineering, Vol. 2 Issue. 1, Paper 1, pp.1-8. Available at <a href="http://internationaljournal">http://internationaljournal</a>	Varghese George, Anil Kumar, Sriram Marathe

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Sl. No.	Title of paper	Journal Name, Vol., Issue, Page Nos.	Author(s)*
1	Dental Cements based on Acid Degradable Glasses/Ion Leachable Glasses – A Review.	<i>Transactions of the Indian Ceramic Society</i> , vol. 75, issue 2, Aug. 10, 2016, p. 83-91. DOI: 10.1080/0371750X.2016.1197796	Kishore Ginjupalli, K.K. Srinivasan, A. V. Adhikari and L.N.Satapathy

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Sl. No.	Title of Paper	Journal Name, Vol. Issue. Page Nos.	Authors
1	LBM Simulation and Analytical Validation of Incompressible Couette and Poiseuille flows	IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE), Vol. 1, pp. 13-19, 2016	D Arumuga Perumal
2	Simulation of two-sided deep cavity flows by lattice Boltzmann Multi-Relaxation-Time Model,	Global Journal of Pure and Applied Mathematics (GJPAM), Volume 12, Number 4 pp. 88-95, 2016	D Arumuga Perumal

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Sl. No.	Title of paper	Journal Name, Vol., Issue, Page Nos.	Author(s)*
1	Effect of Multi Directional Forging on the Microstructure and Mechanical Properties of Zn-24 wt.% Al-2 wt.% Cu Alloy	<i>Transactions of the Indian Institute of Metals</i> , Vol 70, pp 89-96	Sharath, P. C., Rajendra Udupa, K., and Preetham Kumar, G. V.
2	Assessment of Joint Reliability of Sn-2.5Ag-0.5Cu Solder/Cu as a Function of Reflow time	<i>Transactions of the Indian Institute of Metals</i> , 2016 69 (4), 941-947	Mrunali Sona and K. N. Prabhu

**School of Management**

Sl. No.	Title of paper	Journal Name, Vol., Issue, Page Nos.	Author(s)*
1	The Role Of Mother's Level Of Education Contouring Students Adaptation At Campus	Indian journal of Applied Research, Vol.7, Issue 1, pp762-767 .2017	Vijayalakshmi N.S and Sequeira A. H.

2	Campus Adaptations by Age Cohort	Man in India, Volume 96, Issue 5, pp1553-1562., 2016	Vijayalakshmi N.S and Sequeira A. H.
3	Stock Market Announcement and Financial Distress	Nitte Management Review, Vol. 10, Issue 1, 2016	Shridev Devji, Suprabha K. R, Krishna Prasad
4	Determinants of bank foreign direct investment inflow in India: a dynamic panel data approach	IIM Kozhikode Society and Management Review (SAGE Publication), 2017	Massand Ajay & Gopalakrishna B.V.
5	Impact of Demographics on Multiple Commitments: Empirical Evidence from Indian Public Sector Undertakings	<i>Prabandhan: Indian Journal of Management</i> , 9(11), 7-19. 2016	Saha, S. & Kumar, S.P.

### **INTERNATIONAL CONFERENCES**

#### ***Department of Applied Mechanics And Hydraulics***

<b>Sl. No.</b>	<b>Title of paper</b>	<b>Conference name. Vol. Issue, Page No.s</b>	<b>Author(s)*</b>
1	PAN-sharpening the spatial resolution of LISS-IV image using a CARTOSAT-1 image	5th International Engineering Symposium (IES 2016), March 2-5, 2016, Kumamoto University, Japan	Jagalingam P and Arkal Vittal Hegde
2	Applications of ANN in breakwaters- A Review	ISLT-2016, organised by NITK at Mangaluru, 15-16, September, 2016	A.V.Hegde, Suman K
3	Improving the spatial resolution of multispectral imagery	ISLT-2016, organised by NITK at Mangaluru, 15-16, September, 2016	A.V.Hegde, Jagalingam P
4	Building Extraction from Quickbird-2 Imagery	6th International Engineering Symposium - IES 2017, March 1-3, 2017, Kumamoto University, Japan.	A.V.Hegde, Jagalingam P
5	Beyond the data range prediction of reflection coefficient for an emerged semicircular breakwater using ANN	Computing conference 2017, London, UK, 18-20, July, 2017	A.V.Hegde, Suman K
6	Application of ANN in prediction of Reflection coefficient for an Emerged perforated Semicircular Breakwater	ISH-Hydro 2016, 8-9, December 2016.	A.V.Hegde and Suman K.,
7	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.	Arkal Vittal Hegde and Budime Raju

		DOI: 10.1007/978-3-319-19222-2_35	
8	Inter-comparison of satellite-derived water indices to map runoff source areas in a humid tropical catchment	<i>International Conference on Climate Change Mitigation and Technologies for adaptation (IC3MTA2016), Synod College, Shillong, 20-21 June 2016</i>	Borah, Destimona and L. Nandagiri
9	Prediction of Wave Transmission using ANN for Submerged Reef of Tandem Breakwater	International Conference on Emerging Trends in Engineering ICETE-2016” organized by NMAM Institute of Technology, NITTE from 12th -13th May 2016	Nava Bharath Reddy, Geetha Kuntoji, Subba Rao, Manu and S. Mandal
10	Prediction of Transmitted Wave Height of Tandem Breakwater using Support Vector Regression	International Conference on Emerging Trends in Engineering ICETE-2016”organized by NMAM Institute of Technology, NITTE from 12th -13th May 2016	Jithin J. S, Geetha Kuntoji, Subba Rao, Manu and Mandal. S
11	“Laboratory Wave Generation Techniques for Shallow Basin Harbour Modelling Studies	International Conference on Emerging Trends in Engineering ICETE-2016”organized by NMAM Institute of Technology, NITTE from 12th -13th May 2016	Anoopdas S, H. B Jagadeesh and Subba Rao
12	Advantages of development of Lagoon Type of Harbor Basin along Low coastal lands with Flat Sea bed slopes and Soft soils	10th International Symposium on Lowland Technology 2016 - ISLT 2016” organized by IALT, NITK Surathkal and ILMR, Japan, hosted by Civil Engg Dept. NITK Surathkal, Mangalore, India, 15th-17th September 2016, pp 398 – 403.	H. B Jagadeesh, Subba Rao, Geetha Kuntoji and J. Prashanth
13	ESTIMATION OF FLOOD DISCHARGE ALONG RIVER MOUTHS OF KARNATAKA COASTLINE	10th International Symposium on Lowland Technology 2016 - ISLT 2016 organized by IALT, NITK Surathkal and ILMR, Japan, hosted by Civil Engg Dept. NITK Surathkal, Mangalore, India, 15th-17th September 2016, pp 437 – 445.	Amaranatha Reddy, Seelam Jaya Kumar, Subba Rao and M.K.Nagaraj
14	SOIL-STRUCTURE INTERACTION OF A COMPOSITE DIAPHRAGM WALL	10th International Symposium on Lowland Technology 2016 - ISLT 2016 organized by IALT, NITK Surathkal and ILMR,	Yajnheswaran Bhagithimar and Subba Rao

		Japan, hosted by Civil Engg Dept. NITK Surathkal, Mangalore, India, 15th-17th September 2016, pp 469 - 475	
15	A STUDY ON SUBMERGED REEF USING SVM TECHNIQUE	10th International Symposium on Lowland Technology 2016 - ISLT 2016 organized by IALT, NITK Surathkal and ILMR, Japan, hosted by Civil Engg Dept. NITK Surathkal, Mangalore, India, 15th-17th September 2016, pp 404 - 408	J. S Jithin, Geetha Kuntoji, Manu, Subba Rao and Mandal. S.
16	Prediction of Wave Transmission over Submerged Reef of Tandem breakwater using Support Vector Machin	Proceedings of 21th International Conference on "21st International Conference on Hydraulics, Water Resources and Coastal Engineering - HYDRO 2016", organized by CWPRS Khadakwasla, Pune, Maharashtra, December 8-10, 2016 Page 19 of 51	Geetha Kuntoji, Subba Rao, Manu and S Mandal
17	Development Of Flotilla Berths At New Mangalore Port In The High Waves Exposed Region With Spending Beach	Proceedings of 21th International Conference on "21st International Conference on Hydraulics, Water Resources and Coastal Engineering - HYDRO 2016", organized by CWPRS Khadakwasla, Pune, Maharashtra, December 8-10, 2016	H.B. Jagadeesh, Subba Rao, A.S. Chalawadi, T. Nagendra
18	Tidal Energy: A Review	Proceedings of 21th International Conference on "21st International Conference on Hydraulics, Water Resources and Coastal Engineering - HYDRO 2016", organized by CWPRS Khadakwasla, Pune, Maharashtra, December 8-10, 2016	Vikas M, Subba Rao, Jaya Kumar Seelam
19	Experimental investigation of Wave Attenuation through Artificial vegetation Meadow	Proceedings of 21th International Conference on "21st International Conference on Hydraulics, Water Resources and Coastal Engineering - HYDRO 2016", organized by CWPRS Khadakwasla,	Beena Mary J, Kiran G Shirlal and Subba Rao

		Pune, Maharashtra, December 8-10, 2016	
20	Large scale modeling of coastal aquifers: A case study	Proc. International Conf. Lowland Technology, International Association of Lowland Technology, NITK Surathkal, Institute of Lowland and Marine Research, Japan, 430-436	Priyanka B.N., Mohankumar M.S. and Mahesha A.
21	Performance of bias correction methods for Malaprabha catchment, India	Proc. Int. Conf. Hydrol. Water Resour. (HYDRO 2016), Dec. 8-10, 2016, Indian Society of Hydraulics, Pune	Amogh M. and A.Mahesha
22	Hydrologic impact of climate change on Gurupura catchment, India	), Proc. X Int. Geographical Union Conf. on Urbanization, Health & Wellbeing and Sustainable Development Goals. March 17-19, 2017 held at Osmania University, Hyderabad, p.64	Sharanya T.M., Amogh, M. and A.Mahesha
23	Impact of climate change on hydrology of west flowing river of western ghats, India	Proc. Int. Conf. Hydraulic and Environmental Systems, held at Belgaum during 23-25 March, 2017, KLEMSS College of Engg & Technology, Belgaum, KLE Technological University and NIH Belgaum.	Amogh, M., R. Raikar, B. Venkatesh and A.Mahesha
24	CFD Modeling of Local Scour around Round Nosed Bridge Pier with REFF3D	Conference proceedings of HYDRO 2016 - INTERNATIONAL held at CWPRS, Pune during 8th - 10th December, 2016, pp 1572-1578	Sreedhar B.M, Manu, S. Mondal
25	Analysis and Design of Offshore Met Mast Supported on Jacket Substructure	19 <sup>th</sup> International Conference on Coastal and Ocean Engineering – ICCOE-2017, organized by World Academy of Science, Engineering and Technology (WASET.org) held at Zurich, Switzerland, during 13 <sup>th</sup> -14 <sup>th</sup> January, 2017, pp 718	Manu, Pardha Saradhi J. and Ramanamurthy M.V.
26	Classification of case-II Water using Hyperspectral[HICO] data over North Indian Ocean	Proc. Of SPIE, Vol. 9878, 9878OX@2016SPIE, Doi.10.1117/12.2223712	Srinivas Rao N, Ramarao E P, Srinivas K, Deka P C
27	Estimation of friction distribution in partial-slip	8 <sup>th</sup> Intl. Symp. on Fretting Fatigue (ISFF8), 2016,	H. Murthy and K. Vadivuchezhian

	contacts from reciprocating full-sliding tests	Brasilia, Brasil	
28	Buckling analysis of offshore pipelines using 3-D finite element analysis	International Conference on Recent Advances in Material Chemistry (ICRAMC 2017), Chennai, India.	Ramachandra Rao N., Vadivuchezhian Kaliveeran and Amey Abraham
29	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	Raja Pandi R., Vadivuchezhian Kaliveeran, Gowtham S. and Ramesh M. R
30	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.	Palanikumar P., Nagaraj M. K., Gnanasekaran N., Gowtham S. and Vadivuchezhian Kaliveeran
31	Dynamic analysis of jacket structure using finite element method	International Conference on Recent Advances in Material Chemistry (ICRAMC 2017), Chennai, India	Neeraja J., Vadivuchezhian Kaliveeran and Murugan N
32	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	Srinivasula Reddy I., Vadivuchezhian Kaliveeran, Gowtham S. and Ramesh M. R
33	Long-term response analysis of TLP-type offshore floating wind turbine	21 <sup>st</sup> International Conference on Hydraulics, Water Resource and Coastal Engineering, HYDRO 2016, CWPRS, Pune, 8 <sup>th</sup> – 10 <sup>th</sup> Dec, 2016, pp. 1023-1033.	Vijay, K.G., Karmakar, D. & Guedes Soares C.
34	Hydroelastic analysis of floating elastic in finite water depth based on Timoshenko-Mindlin's theory	21 <sup>st</sup> International Conference on Hydraulics, Water Resource and Coastal Engineering, HYDRO 2016, CWPRS, Pune, 8 <sup>th</sup> – 10 <sup>th</sup> Dec, 2016, pp. 1014-1022.	Praveen, K.M. & D. Karmakar
35	Comparative study on different configuration of wave surge converter	21 <sup>st</sup> International Conference on Hydraulics, Water Resource and Coastal Engineering, HYDRO 2016, CWPRS, Pune, 8 <sup>th</sup> – 10 <sup>th</sup> Dec, 2016, pp. 1005-1013.	Chandana P. Dev & D. Karmakar
36	Prediction of natural frequency of wind turbine off Mangalore coast	Proceedings of the International Conference on emerging trends in Engineering, Manipal, India,	Tayesh kumar and Nasar, T

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**Department Of Chemical Engineering**

<b>Sl. No.</b>	<b>Title Of Paper</b>	<b>Conference name and details</b>	<b>Author(S)*</b>
1.	Aqueous Two-phase Extraction of anthocyanin from fruits of <i>Garcinia indica</i>	6 <sup>th</sup> International Engineering Symposium-IES 2017. Kumamoto University, Japan, 1- 3 March, 2017	Basavaraj Nainegali, Regupathi Iand Prasanna B. D
2.	Screening of Reverse micellar system for the extraction of Bovine Lactoferrin	6 <sup>th</sup> International Engineering Symposium-IES 2017. Kumamoto University, Japan, 1- 3 March, 2017	Swapnali S. Pawar, Iyyaswami Regupathi and Prasanna B. D
3.	Optimization of lipase mediated enrichment of n-3 PUFA glycerides in Indian Sardine oil.	6 <sup>th</sup> International Engineering Symposium-IES 2017. Kumamoto University, Japan, 1- 3 March, 2017	Sampath, C., Belur, P.D., Regupathi.I.
4.	Screening Of Aqueous Two Phase Systems For The Extraction Of Anthocyanin From Jamun Fruit	International Conference on Advances in Biotechnology and Biotherapeutics (ICABBS-2017), Satyabama University, Tamil Nadu. 8 – 10 Mar, 2017	Gopalakrishnan Vani Sri; Regupathi Iyyaswami
5.	Antioxidant activity of phenolic compounds in improving the oxidative stability of bulk sardine oil influenced by the presence of water and iron.	International Conference on Advances in Biotechnology and Biotherapeutics (ICABBS-2017), Satyabama University, Tamil Nadu. 8 – 10 Mar, 2017	Vaisali, C., Belur, P.D. and Regupathi, I.
6.	Screening of polymeric membranes for membrane assisted deacidification of sardine oil.	Technoscape 2016; Vellore Institute of Technology, 20-22 Oct, 2016.	Charanyaa, S., Vaisali, C., Belur, P.D., Regupathi, I.
7.	Effect of hydroxybenzoic acids antioxidants on the oxidative stability of sardine oil.	Technoscape 2016; Vellore Institute of Technology, 20-22 Oct, 2016.	Vaisali, C., Belur, P.D. and Regupathi, I.
8.	Reverse Micellar Partitioning of BSA with Novel System	Technoscape 2016; Vellore Institute of Technology, 20-22 Oct, 2016.	Swapnali S. Pawar, I. Regupathi , Prasanna B D
9.	Studies on fibrinolytic enzyme from marine <i>Serratia marcescens</i> subsp. <i>Sakuensis</i> .	International Conference on Advances in Biotechnology and Biotherapeutics (ICABBS). Sathyabama University, Chennai, India March 8-10, 2017.	Anusha Krishnamurthy and Prasanna B.D.
10	Isolation of cellulose fibers from biofuel waste; <i>Jatropha Curcus</i> L seed shell and reinforcement with PVA to form biocomposites.	Abstract proceedings of 10th Asian-Australasian conference on composite materials(ACCM-10),October 16-19, 2016	Manjula, P., Srinikethan, G., & Shetty, K. V.

		held at Bexco in Busan, Korea, organized by The Korean Society for composite Materials.. Paper ID :M11-02	
11	Ultraviolet, visible and solar photocatalytic activity of bismuth ferrite nanoparticles for degradation of dyes: An Aid to Environmental Remediation. (Page no 48)	Abstract Proceedings of International conference on Advances in Nanotechnology (ICAN-2017), 9th – 13th January, 2017, held Assam Don Basco university, Gowhati, Assam.. Jointly organized by Sustainable Nanotechnology organization (SNO),2020 Pennsylvania ave,NW,Suite 200,Washington.DC 2006.	Shankamma K & Vidya Shetty K.
12	Real-time implementation of two PID tuning methods for temperature control of shell and tube heat exchanger	Technoscape 2016; Vellore Institute of Technology, 20-22 Oct, 2016.	A. Sahoo, T. K. Radhakrishnan and C. Sankar Rao
13	Simulation and control continuous crystallization process	6 <sup>th</sup> International Engineering Symposium-IES 2017. Kumamoto University, Japan, 1 - 3 March, 2017	Yashas Mohan Kumar, Sai Dinesh B. and C. Sankar Rao
14	Systematic study of two dopants into nano-crystalline ceria and evaluation of the photocatalytic performance	7th Asia Pacific Conference on Catalysis (APCAT7), Mumbai, Jan 17-21, 2017.	B.S. Vivek, Jyotipriya Das, H.P. Dasari and H. Mahalingam
15	Optimizing the Biosynthesis of Melanin Nano Particles and their Application in Heavy Metal Contaminated Ground Water Remediation	International Conference on Nanotechnology Applications: Chemical, Energy and Environment (NACEE-2017) Department of Chemical Engineering, Sardar Vallabhbhai National Institute of Technology (SVNIT) Surat, India, 23rd and 24th March, 2017	Harsha Thaira, Vishnu Manirethan, Keyur Raval, Raj Mohan Balakrishnan
16	Tetravalent selenium removal from aqueous solutions using biosynthesized melanin coated PVDF membrane	5th International conference on research frontiers in chalcogen cycle, science and technology, Dec 19th to 21st, Goa	Vishnu Manirethan, Keyur Raval and Raj Mohan B
17	Novel swirled bubble column bioreactor for chalcogen research	5th International conference on research frontiers in chalcogen cycle, science and technology, Dec 19th to 21st, Goa	Keyur Raval, Shashwat Shekhar, Chirasmitha Amin and Harish Kumar
18.	Ultrasound assisted Synthesis of Poly(styrene-co	ICAAMM-2016 proceedings accepted publication in	Buruga, Kezia., Kalathi,

	methylmethacrylate)-HNT's Nanocomposites by in-situ Emulsion Copolymerization and its Characterization	Materials today Proceedings. (Elsevier).26-28 June 2016	Jagannathan. T.
19	Sonochemical Synthesis of Poly (Styrene-co Methylmethacrylate) HNT's Nanocomposites by Mini-emulsion Polymerisation	Materials, Energy and Environment Engineering Select Proceedings of ICACE 2015 by Springer Publication. pp 59-67 DOI: 10.1007/978-981-10-2675-17	Buruga, Kezia., Kalathi, Jagannathan T.
20	Effects of Solvents on Structure, Morphology and Thermal Stability of Polystyrene-HNTs Nanocomposites by Ultrasound Assisted Solution Casting Method.	Proceedings of the International Conference on Recent Trends in Engineering and Material Sciences, Mar 17-19, 2016, Jaipur National University, Jaipur, Rajasthan, India. (Paper No: 1848) ISBN:978935254230	Kezia Buruga and Jagannathan.T.K.
21	Solar photocatalysis of methyl violet dye using biological ZnS nanoparticles synthesized from an endophytic fungi <i>Aspergillus flavus</i>	5th International conference on research frontiers in chalcogen cycle, science and technology, Dec 19th to 21st, Goa	Priyanka Uddandarao Tina ArunHingnekar Raj Mohan Balakrishnan
22	Se-doped Fe <sub>2</sub> O <sub>3</sub> nanoparticles for the adsorptive removal of Cr (VI)	5th International conference on research frontiers in chalcogen cycle, science and technology, Dec 19th to 21st, Goa	Smitha C K Raj Mohan
23	Biosynthesis of Cobalt Oxide Nanoparticles using Endophytic Fungus	5th International conference on research frontiers in chalcogen cycle, science and technology, Dec 19th to 21st, Goa	Ajuy Sundar V. V Raj Mohan B
24	Photocatalytic Oxidation of Diclofenac using TiO <sub>2</sub> -SnO <sub>2</sub> Mixed Oxide Catalysts	5th International conference on research frontiers in chalcogen cycle, science and technology, Dec 19th to 21st, Goa	Mugunthan E P. E. Jagadeesh Babu M. B. Saidutta
25	Ultrasound assisted mechanistic insight into sonochemical degradation of toxic organic pollutants from waste water	5th International conference on research frontiers in chalcogen cycle, science and technology, Dec 19th to 21st, Goa	Vrushali V Kadam, Vitthal L Gole, Sarjerao B Doltade and Gopinath Kalaiarasan
26	Effect of metal interaction in methyl violet dye removal usingbiologically synthesized ZnS nanoparticles	5th International conference on research frontiers in chalcogen cycle, science and technology, Dec 19th to 21st, Goa	Seenivasaperumal Alagarsamy, Tina Arun Hingnekar, Priyanka Uddandarao, Raj Mohan Balakrishnan and Shekhar

27	Synthesis and characterization of gadolinium doped ceria solid solution using EDTA-citrate method	5th International conference on research frontiers in chalcogen cycle, science and technology, Dec 19th to 21st, Goa	Rahul M R, Anjana P A, Hari Prasad Dasari
28	Modeling Of Soil Urea Distribution Coefficient.	International conference on advances in engineering and technology, 05/06/2016, The Bell Hotel and Convention Centre, Bangalore.	Bhat, Ramananda M and Saidutta, M B and Murthy, D V R
29	Ultrasound assisted synthesis of $\gamma$ -MPS modified HNTs- Polystyrene Nanocomposites by Miniemulsion Polymerization	6 <sup>th</sup> International Engineering symposium (IES-17), 1-3 march, 2017, at Kumamoto university, Japan.	Kezia Buruga and Jagannathan.T.K.

**Department of Civil Engineering**

Sl. No.	Title of paper	Conference Name, Place, Dates, Page Nos.	Authors(s)*
1	Rooftop rainwater harvesting for NITK Surathkal Campus: A case study	10 <sup>th</sup> International Symposium on Lowland Technology, 15-16th September 2016, Mangalore.	Prasad J S, Bharath A, Sukesh H G, Vinay Raj R, Subhash C. Yaragal and B M Sunil
2	Beneficial use of recycled aggregates and waste rubber shreds in drainage layer of landfills	10 <sup>th</sup> International Symposium on Lowland Technology, 15-16th September 2016, Mangalore.	Prateek Pranab, B M Sunil and Subhash C. Yaragal
3	An experimental investigation to determine the properties of fly ash based Geopolymers as per Indian standards	Structural Engineering Convention 2016, Chennai, Dec 21-23, 646-651.	Suman Saha and Rajasekaran, C.
4	Optimization of project time management for a Railway construction project	International Conference on Emerging and Sustainable Technologies for Infrastructure Systems, Amrita Vishwa Vidyapeetham, Coimbatore, 22-23 April 2016, 138-143.	Pavan Kumar and Rajasekaran, C
5	Study of Contractual Clauses that affect Project Performance	International Conference on Emerging and Sustainable Technologies for Infrastructure Systems, Amrita Vishwa Vidyapeetham, Coimbatore, 22-23 April 2016, 144-148.	Bhavik Kakka and Rajasekaran, C.
6	Study of Strength characteristics of PCE based	International Conference on Emerging and Sustainable	Srikar, B. and Rajasekaran, C.

	superplasticized concrete with steel and glass fibers	<i>Technologies for Infrastructure Systems, Amrita Vishwa Vidyapeetham, Coimbatore, 22-23 April 2016, 297-301.</i>	2016,
7	Life cycle energy and cost analysis of energy efficient buildings in comparison with conventional buildings - A case study	<i>International conference on Advanced Materials and Technology, Mysuru, 26-28 May, 316-320.2016</i>	Thanu, H.P., Basavanagowda, S.N. and Rajasekaran, C.
8	Cost of Green in LEED V4	<i>International Conference on Emerging and Sustainable Technologies for Infrastructure Systems (ESTIS 2016), April 22nd &amp; 23rd 2016, Department of Civil Engineering, Amrita University, Kochi.</i>	Amrutha Sudhakara N. and Shrihari S
9	Application of Ferrous Slag in the Treatment of Water and Wastewater: A Review,	<i>International Conference on Systems, Energy and Environment (ICSEE 2016), Kannur, Kerala, India, pp 110-114</i>	Anjali M.S., Shrihari S. and Sunil B.M
10	A review paper on groundwater contamination due to migration of leachate from landfill	<i>International Conference on Systems, Energy and Environment (ICSEE 2016), Kannur, Kerala, India, pp 111-115</i>	Divya Anand, S. Shrihari and Ramesh H.
11	Studies on modulus of subgrade reaction of reinforced foundation soil using model plate load test	<i>International conference on Civil, Mechanical and Environmental Engineering Technologies, SVS College of Engg., Coimbatore, February 26-27, 2016</i>	Nayana N. Patil, R. Shivashankar & H. M. Rajashekar Swamy
12	Effect of facing on the settlement of Mechanically Stabilized Earth (MSE) embankment	<i>10th International Symposium on Lowland Technology, Mangalore, India, September 15-17, 2016</i>	Nayana N. Patil, R. Shivashankar & H. M. Rajashekar Swamy
13	Comparative studies on Load Settlement Characteristics of square footing resting on geosynthetic reinforced sand	<i>International Conference on Geotechniques for Infrastructure Projects, 2728 February 2017, Trivandrum</i>	Nayana N. Patil, R. Shivashankar & H. M. Rajashekar Swamy
14	Settlement analysis of pile supported embankments	<i>10th International Symposium on Lowland Technology, Mangalore, India, September 15-17, 2016</i>	Radhika M. Patel, B. R. Jayalekshmi and R. Shivashankar
15	Finite element analysis of geogrid reinforced piled embankments under traffic load	<i>10th International Symposium on Lowland Technology, Mangalore, India, September 15-17,</i>	Sreelekshmy, S., Radhika M. Patel, B. R. Jayalekshmi and

		2016	R. Shivashankar
16	Finite element analysis of pile supported embankment with geogrid reinforcement	<i>International conference on global civil engineering challenges in sustainable development and climate change, March 17-18, 2017, Moodabidri, India</i>	Radhika M. Patel, B. R. Jayalekshmi and R. Shivashankar
17	Slope stability analysis and erosion studies on lithomargic clays	<i>International Geotechnical Engineering Conference on Sustainability in Geotechnical Engineering Practices and Related Urban Issues, Organized by ISSMGE, IGS Mumbai Chapter and IITB Mumbai, September 23-24, 2016</i>	R. Shivashankar, Biji Chinnamma Thomas, K.T. Krishnanunni and S. Anaswara
18	Effects of Prestress on the Behaviour of Reinforced Granular Beds overlying Weak soil	<i>GeoAmericas2016 conf. (3rd Pan American Conference on Geosynthetics), 10-13 April 2016, Miami Beach, USA.</i>	Jayamohan.J., Shivashankar,R., Nileena Sureshkumar and Aarya Vimal
19	Behaviour of Footings resting on Prestressed Reinforced Foundation Beds	<i>Geotechnical Frontiers 2017, March 12-15, 2017, Orlando Florida, USA, Co-organized by Geo-Institute of ASCE and IFAP's Geosynthetic Materials Association</i>	Jayamohan Jayaraj, Ramaiah Shivashankar, Rajeev Kumar and Anjali Anandan
20	Slope stability studies of excavated slopes in lateritic formations, including erosion studies on lithomargic clays	<i>10th International Symposium on Lowland Technology], September 15-16, 2016 at Mangalore and hosted by Civil Enqq. Dept of NITK + ILMR + IALT of Japan.</i>	R. Shivashankar, Biji Thomas, Anaswara, S., Krishnanunni, K. T. and D.V. Reddy
21	Properties and Behaviour of laterites and lithomargic clays of coastal Karnataka	<i>International conference on Soil and Environment (ICSE) held at IISc Bangalore July 22-23, 2016</i>	R. Shivashankar, Sitaram Nayak, Srinath, K., Arun Kumar Bhat, K. and Shubhananda Rao
22	A Study the Mechanical Properties of Fly Ash based Geopolymer Concrete with Partial Replacement of Bagasse Ash and GGBFS	<i>The International Conference on Global Civil Engineering Challenges in Sustainable Development and Climate Change, March 17-18, 2017, Moodbidari</i>	Manjunath R, Narasimhan M.C and Rajath R
23	Stabilization of Expansive Clays using Granulated Blast Furnace Slag and Polypropylene Fibres.	<i>Proceedings of 6th International Engineering Symposium, Kumamoto University, Japan, March 1-3, 2017</i>	Anjana M and Sunil B.M.

24	Beneficial use of recycled aggregates and waste rubber shreds in Drainage layer of landfills,	Proceedings of the 10th International Symposium on Low Land Technology (ISLT 2016), 15-17th Sep. 2016, Mangalore, India	Prateek Pranab , B.M. Sunil and Subhash C Yaragal
25	Rooftop rainwater harvesting for NITK Surathkal campus: a case study.	Proceedings of the 10th International Symposium on Low Land Technology (ISLT 2016), 15-17th Sep. 2016, Mangalore, India	Prasad.J.S, Bharath.A, Sukesh.H.G , Vinay Raj. R , Subhash C.Yaragal and Sunil, B. M
26	Mathematical model for removal of Xenobiotic Organic Chemicals (XOCs) on the basis of biodegradation kinetics	<i>Proceedings of 5th International Engineering Symposium, Kumamoto University, Japan, March 1-3, 2017</i>	Kshitija Kakade and Arun Kumar Thalla
27	Impact study of ITS project on Mysore city bus transport operations using Non-Parametric Techniques	<i>Proceedings of 12<sup>th</sup> TPMDC, held at I.I.T.B., Mumbai, Maharashtra, held on 19-21 December 2016. Paper I.D: 298, page No. 99, 12<sup>th</sup> TPMDC abstract booklet.</i>	Raviraj H.Mulangi
28	Mechanical Properties of Concrete Mixed and Cured with Treated Waste Water	International Conference on Emerging Technology In Structural Engineering, March 17 <sup>th</sup> -18 <sup>th</sup> 2017, Nagpur.	Sourab M and B. B. Das
29	Influence of alkali binder dosage on the efficiency of pelletization of aggregates from iron ore tailing and flyash	International Conference on Emerging Technology In Structural Engineering, March 17 <sup>th</sup> -18 <sup>th</sup> 2017, Nagpur.	Shivaprasad K N and B. B. Das
30	Ergonomic Evaluation of Bar Benders in Construction Industry	<i>International Conference on Management of Ergonomic Design, Industrial Safety and Healthcare Systems (MESH-2016) held at Indian Institute of Technology Kharagpur, Kharagpur 721302, India, during December 20-23, 2016.</i>	Drisyas S, B. B. Das and Ratri Parida
31	Strategies in Mitigating Sulphate Attack Effects in Concrete Adopting Different Cementing Materials	<i>Proceedings of International Conference on Recent Advances in Mechanics and Materials (ICRAMM-2016,) December 17-18, 2016, VSSUT Burla, Odisha, India.</i>	Sanjukta Sahoo, Bibhuti Bhusan Das
32	Effect of Liquid to Solid Ratio of Alkaline Activator to	<i>UKIERI International Conference on Advances in</i>	Shivaprasad K. N. and B. B. Das

	Cement Based Materials on the Efficiency of Geo-Polymerization,	Concrete Technology, Materials & Construction Practices (CTMC2016), 22-24, June 2016.	
33	Effect of Particle Size of Bottom Ash on Compressive Strength Development of Concrete	International Conference on Advanced Materials and Technology, (ICMAT-16), 26th to 28th May 2016.	Abhishek, Sharan Kumar and B. B. Das
34	Laboratory Evaluation of Cold Bituminous Mixtures	6th International Engineering Symposium (IES2017), Kumamoto University, Japan, March 1-3, 2017.	Chinju Chandran and Suresha S. N.
35	Study on Strength Behaviour of Concrete Using Battery Slag and Electronic Waste as Partial Replacement for Fine Aggregates	International conference on Global Civil Engineering Challenges in Sustainable Development and Climate Change held at Mangalore Institute of Technology and Engineering, Moodabidri during 17-18, March 2017.	T Mutyalaraju, Dev Kumar Marandi, B P Sharath and B. B. Das
36	Seismic response of slender and stocky tall reinforced concrete chimneys.	International Conference on 'Global Civil Engineering Challenges in Sustainable Development and Climate Change', ISBN: 978-93-5267-355-1, 17-18 March, 2017, Mangalore Institute of Technology & Engineering, Moodbidri, India. pp. 309-312	Kiran R Lamani, B. R. Jayalekshmi.
37	Comparative Study on Wind Effects on Tall Reinforced Concrete Chimneys.	International Conference on 'Global Civil Engineering Challenges in Sustainable Development and Climate Change', ISBN: 978-93-5267-355-1, 17-18 March, 2017, Mangalore Institute of Technology & Engineering, Moodbidri, India. pp. 296-303	Nevin Paul, B. R. Jayalekshmi.
38	Seismic Response of Tall RCC Buildings with Mass Irregularity.	International Conference on 'Global Civil Engineering Challenges in Sustainable Development and Climate Change', ISBN: 978-93-5267-355-1, 17-18 March, 2017, Mangalore Institute of Technology & Engineering, Moodbidri, India. pp. 283-288	Smrithi Sohan, B. R. Jayalekshmi, Katta Venkataramana

39	Seismic Response of Tall RCC Buildings with Vertical Stiffness Irregularity.	<i>Proceedings of International Conference on 'Global Civil Engineering Challenges in Sustainable Development and Climate Change', ISBN: 978-93-5267-355-1, 17-18 March, 2017, Mangalore Institute of Technology &amp; Engineering, Moodbidri, India. pp. 173-178</i>	Ashwitha Gopi, B. R. Jayalekshmi.
40	“Study of RC Setback Building Frames under Earthquake Loading.”	<i>International Conference on 'Global Civil Engineering Challenges in Sustainable Development and Climate Change', ISBN: 978-93-5267-355-1, 17-18 March, 2017, Mangalore Institute of Technology &amp; Engineering, Moodbidri, India. pp. 304-308</i>	Jishnu R, B. R. Jayalekshmi.
41	Torsional response of buildings with plan irregularity under seismic loading	<i>International Conference on 'Global Civil Engineering Challenges in Sustainable Development and Climate Change', ISBN: 978-93-5267-355-1, 17-18 March, 2017, Mangalore Institute of Technology &amp; Engineering, Moodbidri, India. pp 78-82</i>	Archana J Satheesh, B.R. Jayalekshmi, Katta Venkataramana
42	Study and compare PEB and RCC structure using microsoft project and construction management techniques	<i>Proc. of 1st International Conference on Construction, Real Estate, Infrastructure and Projects Management-ICCRIP-2016, NICMAR. Pune</i>	Praphull Ramdas Wanare, Rajasekaran C.
43	Analysis and Modelling of Vehicle Following Behaviour under Mixed Traffic Conditions	<i>14<sup>th</sup> World Conference on Transportation Research (WCTR 2016), July 2016, Shanghai, China</i>	Gowri Asaithambi and Sehle Basheer
44	Microscopic Analysis of Lateral and Longitudinal Gaps in Mixed Traffic Conditions with Weak Lane Discipline	<i>In Proceedings of the 12<sup>th</sup> International Conference on Transportation Planning, and Implementation Methodologies for Developing Countries, December 2016, IIT Bombay.</i>	Murthy, g. k., Vikrant Singh and Gowri Asaithambi
45	Analysis and Modelling of Lateral Placement and Movement of Vehicles on Urban Undivided Roads	<i>In Proceedings of the 12<sup>th</sup> International Conference on Transportation Planning, and Implementation</i>	Punith B. Kotagi, Pooja Raj, and Gowri Asaithambi.

		<i>Methodologies for Developing Countries, December 2016, IIT Bombay.</i>	
46	Modelling of Operating Speeds for Urban Roads Under Heterogeneous Traffic Conditions	<i>In Proceedings of the 12<sup>th</sup> International Conference on Transportation Planning, and Implementation Methodologies for Developing Countries, December 2016, IIT Bombay.</i>	Satishkumar, A., Rao, A. M., Velmurugan, S. and Gowri, A.
47	Modelling of Pedestrian Crossing Pattern on Urban Undivided Roads	<i>In Proceedings of the 12<sup>th</sup> International Conference on Transportation Planning, and Implementation Methodologies for Developing Countries, December 2016, IIT Bombay.</i>	Manu O. Kuttan, Surjith Babu and Gowri Asaithambi.
48	Impact of Pedestrian Road Crossing on Capacity and Level of Service of Urban Undivided Roads in Indian Traffic Conditions	<i>In Proceedings of the 96<sup>th</sup> Transportation Research Board Annual Meeting 2017, January 2017, Washington D.C., USA.</i>	Manu O. Kuttan, Surjith Babu and Gowri Asaithambi.
49	An Integrated Pedestrian Crossing Behavioural Model using Spring-Mass-Damper Dynamics	<i>In Proceedings of the 96<sup>th</sup> Transportation Research Board Annual Meeting 2017, January 2017, Washington D.C., USA.</i>	Murthy, G. K., munigety, C. R., Sreenivas Peeta, Mathew, T.V. and Gowri Asaithambi.
50	Simulation Framework for Modelling Bidirectional Mixed Traffic	<i>In Proceedings of the 9<sup>th</sup> International Conference on communication Systems and Network, January 2017, Bangalore</i>	Punith B. Kotagi and Gowri Asaithambi.

**Department of Computer Engineering**

<b>Sl. No.</b>	<b>Title of paper</b>	<b>Conference Name, Place, Dates, Page Nos.</b>	<b>Author(s)*</b>
1.	Software Engineering Aspects of Green and Sustainable Software: A Systematic Mapping Study	Proceedings of the 10th Innovations in Software Engineering Conference, Pages 34-44, 2017	C Marimuthu, K Chandrasekaran
2.	Activity Theory based approach for Requirements Analysis of Android Applications	<i>12<sup>th</sup> International Conference on Knowledge Management in Organizations 2017, KMO 2017, China, IEEE, 2017</i>	Ashritha Kandiraju, Prajwala TM, K Chandrasekaran,
3.	Sustainable Software Development with a Shared Repository	<i>5<sup>th</sup> International Conference on Advanced Computing, Networking, and Informatics (ICACNI 2017), Goa, IEEE, 2017</i>	Tribid Debbarma, K Chandrasekaran
4.	Agent Based Social Simulation	<i>International Conference on</i>	Hitaswi Nasari

Sl. No.	Title of paper	Conference Name, Place, Dates, Page Nos.	Author(s)*
	Model and Unique Identification Based Empirical Model for Public Distribution System	<i>Recent Advances in Electronics and Communication Technology 2017 (ICRAECT2017)</i> , Bangalore, IEEE2017	K Chandrasekaran
5.	Virtual Machine Migration - A Perspective Study	<i>International Conference on Big-Data and Cloud Computing (ICBDCC'17)</i> , Coimbatore. IEEE, 2017	Christina Terese Joseph, K Chandrasekaran
6.	Energy Efficient and Reliable Network Design to Improve Lifetime of Low Power IoT Networks	International Conference on Wireless Communications, Signal Processing and Networking 2017 (WiSPNET 2017), IEEE, 2017	Sarwesh P N. Shekar V. Shet K Chandrasekaran
7.	Paving the way for autonomic clouds: state-of-art and future directions	<i>4th International Doctoral Symposium on Applied Computation and Security Systems 2017 (ACSS 2017)</i> , Springer 2017	Christina Terese Joseph, . Chandrasekaran
8.	Towards efficient autonomic management of Clouds: A CDS based hierarchical approach	<i>4th International Doctoral Symposium on Applied Computation and Security Systems 2017 (ACSS 2017)</i> , Springer 2017	John Paul Martin, A. Kandasamy, K Chandrasekaran
9.	Trust Aware Secure Service Composition in Cloud Environment	<i>4th International Engineering Symposium 2017</i> , Kumamoto University, Japan, 2017.	Usha D K Chandrasekaran,
10.	Workload Scheduling In Cloud: A Comprehensive Survey And Future Research Directions	<i>7th International Conference on Cloud System and Big Data Engineering (Confluence 2017)</i> , 2017, Amity University, IEEE, 2017.	Shishira, S. R A. Kandasamy, K Chandrasekaran
11.	Using Genetic Algorithm for Process Migration in Multicore Kernels	Proceedings of International Conference on Communication and Networks, DOI: 10.1007/978-981-10-2750-5_46, 2017	K. S. Shravya Ankit Deepak K Chandrasekaran
12.	Cleaning and Sentiment Tasks for News Transcript Data	Proceedings of the First International Conference on Computational Intelligence and Informatics, DOI: 10.1007/978-981-10-2471-9_19 by Springer Singapore, 2017	Vidyashankar Lakshman, Sukruth Ananth, Rabindra Chhanchan, K Chandrasekaran
13.	Game Theoretic Modeling of Gray Hole Attacks in Wireless Ad Hoc Networks	Proceedings of the International Conference on Signal, Networks,	Chintan Ketankumar Doshi, Sreecharan

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		Computing, and Systems, 10.1007/978-81-322-3592-7_21 , 2017	Sankaranarayanan , Vidyashankar B Lakshman, K Chandrasekaran
14.	Negotiation and Monitoring of Service Level Agreements in Cloud Computing Services	Proceedings of the International Conference on Data Engineering and Communication Technology by DOI: 10.1007/978-981-10-1678-3_62, 2017	S Anithakumari, K Chandrasekaran
15.	A novel approach for evaluating trust of resources in cloud environment	Region 10 Conference (TENCON), 2016 IEEE, DOI: 10.1109/TENCON.2016.7848041	Usha Divakarla, K Chandrasekaran
16.	Tools and Simulators for Membrane Computing-A Literature Review	Bio-Inspired Computing-Theories and Applications, DOI: 10.1007/978-981-10-3611-8_23, Part of the Communications in Computer and Information Science book series (CCIS, volume 681, 2016)	S Raghavan, K Chandrasekaran
17.	Generating Privacy-Preserved Recommendation Using Homomorphic Authenticated Encryption	Cloud Computing in Emerging Markets (CCEM), 2016 IEEE International Conference, DOI: 10.1109/CCEM.2016.017, Pages 46-53	Piyush Kumar Shanu, K Chandrasekaran
18.	A bio-inspired model to provide data security in cloud storage	Information Technology (InCITE)-The Next Generation IT Summit on the Theme-Internet of Things: Connect your Worlds, International Conference, Pages203-208, 2016DOI: 10.1109/INCITE.2016.7857617	N Hitaswi, K Chandrasekaran
19.	Improving false alarm rate in intrusion detection systems using Hadoop	Advances in Computing, Communications and Informatics (ICACCI), 2016 International Conference ,Pages837-843 DOI: 10.1109/ICACCI.2016.7732150,	YR Mukund, Sunil S Nayak, K Chandrasekaran
20.	Survey on meta heuristic optimization techniques in cloud computing	Advances in Computing, Communications and Informatics (ICACCI), 2016 International Conference, DOI: 10.1109/ICACCI.2016.7732249, Pages 1434-1440	SR Shishira, A Kandasamy, K Chandrasekaran

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21.	Elliptic Curve Based Secure Outsourced Computation in Multi-party Cloud Environment	International Symposium on Security in Computing and Communication, Pages 199-212, 2016 DOI: 10.1007/978-981-10-2738-3_17	V Thangam, K Chandrasekaran
22.	Optimization-Aware Scheduling in Cloud Computing	Proceedings of the International Conference on Informatics and Analytics, Pages 15, 2016, ISBN: 978-1-4503-4756-3, doi :10.1145/2980258.2980293	Neenu George, K Chandrasekaran, A Binu
23.	Energy aware SLA and green cloud federations	Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER), IEEE conference, Pages 7-11, 2016, DOI: 10.1109/DISCOVER.2016.7806217	Nimisha Joy, K Chandrasekaran, A Binu
24.	Computationally Efficient Fault Tolerant ANTS.	International Conference KMO, DOI: 10.1145/2925995.2926024, Pages 8, 2016	Ankit Tripathi, Anant Maheshwari, K Chandrasekaran
25.	Influence of News on Individual Confidence Bias in Stock Markets	The 11th International Knowledge Management in Organizations Conference on The changing face of Knowledge Management Impacting Society, Pages 20, 2016, ISBN: 978-1-4503-4064-doi:10.1145/2925995.2926001	YR Mukund, V Naresh, Sourabh Patil, Krishnan K Chandrasekaran, V Vijaya Kumar, RK Gnanamurthy
26.	In-memory representations for mining big graphs	Second International Conference of Research in Computational Intelligence and Communication Networks (ICRCICN), 2016 DOI: 10.1109/ICRCICN.2016.7813650	Shruti Goyal, PV Bindu, P Santhi Thilagam
27.	Diffusion models and approaches for influence maximization in social networks	International Conference of Advances in Computing, Communications and Informatics (ICACCI), 2016, DOI: 10.1109/ICACCI.2016.7732235	V Tejaswi, PV Bindu, P Santhi Thilagam
28.	Dynamic Structure for Web Graphs with Extended Functionalities	International Conference on Advances in Information Communication Technology	Shruti Goyal, PV Bindu, P Santhi Thilagam

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		& Computing, 2016, ISBN: 978-1-4503-4213-1 Doi:10.1145/2979779.2979825	
29.	Ensuring Performance of Graphics Processing Units: A Programmer's Perspective	Proceedings of the International Conference on Data Engineering and Communication Technology, 2017, DOI: 10.1007/978-981-10-1678-3_22	Mayank Varshney, Shashidhar G Koolagudi, Sudhakar Velusamy, Pravin B Ramteke
30.	Text-Independent Automatic Accent Identification System for Kannada Language	Proceedings of the International Conference on Data Engineering and Communication Technology, 2017, DOI: 10.1007/978-981-10-1678-3_40, Pages 411-418	R Soorajkumar, GN Girish, Pravin B Ramteke, Shreyas S Joshi, Shashidhar G Koolagudi
31.	Performance Analysis of LPC and MFCC Features in Voice Conversion Using Artificial Neural Networks	Proceedings of the International Conference on Data Engineering and Communication Technology, Pages 275-280, 2017, DOI: 10.1007/978-981-10-1678-3_27	Shashidhar G Koolagudi, B Kavya Vishwanath, M Akshatha, Yarlagadda V S Murthy
32.	Selective Cropper for Geometrical Objects in OpenFlipper	Proceedings of the International Conference on Data Engineering and Communication Technology, Pages 391-399, 2017, DOI: 10.1007/978-981-10-1675-2_39	B Maonica, Priyanka Das, Pravin B Ramteke, Shashidhar G Koolagudi
33.	Classification of Punjabi Folk Musical Instruments Based on Acoustic Features	Proceedings of the International Conference on Data Engineering and Communication Technology, Pages 445-454, 2017, DOI: 10.1007/978-981-10-1675-2_44	Inderjeet Singh, Shashidhar G Koolagudi
34.	Optimization of Declarative Graphics by parallel programming	Region 10 Conference (TENCON), 2016 IEEE, Pages 1230-1235 DOI: 10.1109/TENCON.2016.7848207	Meenakshy Balachandran, Kriti Nagori, Aishwarya Rajan, Shashidhar G Koolagudi, Fathima Afroz
35.	Detection of similarity in music files using signal level analysis	Region 10 Conference (TENCON), 2016 IEEE, Pages 1650-	Mathew Thomas, Mintu Jothish, Navin Thomas,

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		1654,DOI: 10.1109/TENCO N.2016.7848297	Shashidhar G Koolagudi, YV Srinivasa Murthy
36.	Sound Event Detection in Urban Soundscape using Two-level Classification	Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER), IEEE, Pages 259-263, 2016, DOI: 10.13140/RG.2.1.2134.2960	Bibek Luitel, YV Srinivasa Murthy, Shashidhar G Koolagudi
37.	Product review based on optimized facial expression detection	Contemporary Computing (IC3), 2016 Ninth International Conference , Pages 1-6,DOI: 10.1109/IC3.2016.7880213	Vikrant Chaugule, D Abhishek, Aadheeshwar Vijayakumar, Pravin Bhaskar Ramteke, Shashidhar G Koolagudi
38.	Efficient audio segmentation in soccer videos	Electrical and Computer Engineering (CCECE), 2016 IEEE Canadian Conference,Pages1-4, DOI: 10.1109/CCECE.2016.7726616	MA Raghuram, Nikhil R Chavan, Shashidhar G Koolagudi, Pravin B Ramteke
39.	Detection of largest possible repeated patterns in Indian audio songs using spectral features	Conference Electrical and Computer Engineering (CCECE), 2016 IEEE Canadian Conference,Pages1-5, DOI: 10.1109/CCECE.2016.7726863	Matthew Thomas, YV Srinivasa Murthy, Shashidhar G Koolagudi
40.	A Random Key Generation Scheme Using Primitive Polynomials over GF (2)	International Symposium on Security in Computing and Communication, Pages 42-51, 2016, DOI: 10.1007/978-981-10-2738-3_4	Inderjeet Singh, Alwyn R Pais
41.	Efficient Key Management in IoT Using Mobile Aggregator	International Symposium on Security in Computing and Communication Pages 161-172, 2016, DOI: 10.1007/978-981-10-2738-3_14	Sumit Saurabh, Alwyn R Pais, Sumanta Chatterjee
42.	Community detection using meta-heuristic approach: Bat algorithm variants	2016 Ninth International Conference on Contemporary Computing (IC3)Publisher IEEE <a href="https://doi.org/10.1109/IC3.2016.7880209">https://doi.org/10.1109/IC3.2016.7880209</a>	Jigyasha Sharma, B Annappa

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43.	Feature selection using Markov clustering and maximum spanning tree in high dimensional data	2016 Ninth International Conference on Contemporary Computing (IC3) Pages: 1-6, DOI: 10.1109/IC3.2016.7880208	Neha Bisht, Annappa Basava
44.	Prediction based dynamic resource provisioning in virtualized environments	Consumer Electronics (ICCE), 2017 IEEE International Conference, Pages: 100-105, DOI: 10.1109/ICCE.2017.7889244	Bane Raman Raghunath Annappa
45.	RnSIR: A new model of information spread in online social networks	Region 10 Conference (TENCON), 2016 IEEE, Pages 2224-2227, DOI: 10.1109/TENCON.2016.7848423	N Sumith, Annappa, Swapan Bhattacharya
46.	Trusted partner selection in broker based cloud federation	Next Generation Intelligent Systems (ICNGIS), International Conference Pages 1-6, 2016, DOI: 10.1109/ICNGIS.2016.7854049	Mukesh Kumar Gupta, B Annappa
47.	Discovery of optimal neurons and hidden layers in feed-forward Neural Network	IEEE International Conference on Emerging Technologies and Innovative Business Practices for the Transformation of Societies (EmergiTech), Pages 286-291, 2016, DOI: 10.1109/EmergiTech.2016.7737353	Likewin Thomas, Manoj Kumar, B Annappa
48.	Enhancing reliability of cloud system through proactive identification of under performing components	Advanced Communication Control and Computing Technologies (ICACCCT), 2016 International Conference, Pages 522-526, DOI: 10.1109/ICACCCT.2016.7831695	Sonali Bhattacharjee, B Annappa
49.	Prevention of MITM attack caused by rogue router advertisements in IPv6	Recent Trends in Electronics, Information & Communication Technology (RTEICT), IEEE International Conference, Pages 952-956, 2016, DOI: 10.1109/RTEICT.2016.7807969	Christy Ouseph, BR Chandavarkar

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50.	Optimizing set of paths connecting multiple source-sink pairs	Recent Trends in Electronics, Information & Communication Technology (RTEICT), IEEE International Conference, Pages 833-838, 2016, DOI: 10.1109/RTEICT.2016.7807944	Amit Agrawal, Bobby Dixit, Vishal U Karve, BR Chandavarkar
51.	A semi-automatic method for carotid artery wall segmentation in MR images	India Conference (INDICON), 2016 IEEE Annual, Pages1-6	P Krishna Kumar, Chandrasekharan Kesavadas, Jeny Rajan
52.	Study of malignancy associated changes in sputum images as an indicator of lung cancer	Technology Symposium (TechSym), 2016 IEEE Students, Pages 102-105	Remya K Sudheesh, Jeny Rajan, V S Veena, K Sujathan
53.	Automated segmentation of intra-retinal cysts from optical coherence tomography scans using marker controlled watershed transform	International Conference on Engineering in Medicine and Biology Society (EMBC), 2016 IEEE 38th Annual International Conference, Pages1292-1295	G N Girish, Abhishek R Kothari, Jeny Rajan
54.	A comparative study of different auto-focus methods for mycobacterium tuberculosis detection from brightfield microscopic images	International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER), IEEE, Pages 95-100, 2016, DOI: 10.1109/DISCOVER.2016.7806223	Gagan Saini, Rani Oomman Panicker, Biju Soman, Jeny Rajan
55.	Fourth order PDE based ultrasound despeckling using ENI classification	Signal Processing and Communications (SPCOM), 2016 International Conference, Pages 1-5 DOI: 10.1109/SPCOM.2016.7746633	R Soorajkumar, P Krishna Kumar, D Girish, Jeny Rajan

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Sl. No.	Title of paper	Conference Name, Place, Dates, Page Nos.	Author(s)*
1	Cyanopyridine based conjugated polymers for opto-electronic applications	International Conference on Advanced Polymers for Science and Technology (APST-2016), VIT University, Vellore, October 24-26, 2016.	Pilicode Naveenchandra, and Vasudeva Adhikari
2	Molecular Engineering of a New Organic Chromophore with D-	International Conference on Smart Emerging Materials	Praveen Naik, and A. Vasudeva

	$\pi$ -A Architecture for Dye-Sensitized Solar Cells	(ICSEM-2016), RV College, Bangalore, Karnataka, Oct 20-22, 2016.	Adhikari,
3	Synthesis, Characterization and Performance Studies of a New Metal-Free organic Sensitizer for DSSC application	International Conference on Advanced Materials and Applications (ICAMA-2016), BMS college of Engineering, Bangalore, Karnataka, Jun 15-17, 2016	Praveen Naik, Su Ruy, Dickson D. Babu, Ahmed El-Shafei, A. Vaudeva Adhikari
4	Design and synthesis of new carbazole based organic chromophore for dye-sensitized solar cell application (DSSC)	International Conference on Material Science and Technology (ICMST)-2016, St. Thomas College, Palai, Kerala, June 05 – 08, 2016.	Praveen Naik, Dickson D. Babu, A. Vasudeva Adhikari
5	Photoluminescence Quenching in Calcium Interacted Graphene Quantum Dots	6th International Engineering Symposium (IES 2017) at Kumamoto University, Japan, March 01-03, 2017.	Praveen Mishra and B. Ramachandra Bhat
6	Praveen Mishra and B. Ramachandra Bhat, Synthesis and Study of Photoluminescence and Electrochemical Properties of Graphene Quantum Dots	International Conference on Emerging trends in nanomaterials Science and Technology (ICETNMST-2017), National Institute of Technology Nagaland, Dimapur – 797103, Nagaland, INDIA, January 04-06, 2017	Praveen Mishra and B. Ramachandra Bhat
7	An Investigation of Graphene Quantum Dots	International Conference on Recent Trends in Chemical Science (ICRCS- 2017), Govt. Engineering College, Bikaner – 334004, Rajasthan, INDIA, January 12-13, 2017	Praveen Mishra and B. Ramachandra Bhat
8	Photoluminescence Quenching in Metal Ion (Cu <sup>2+</sup> , Co <sup>2+</sup> ) Interacted Graphene Quantum Dots	International Conference on Soft Matters (ICSM-2016), Department of Physics, Malaviya National Institute of Technology Jaipur - 302017, Rajasthan, INDIA, December 12-16, 2016.	Praveen Mishra and B. Ramachandra Bhat
9	Iron pincer complexes as catalysts in cross-coupling of aryl halides and phenylboronic acid	International conference on recent trends in chemical science (ICRCS 2017), (12-13th Jan, 2017) Government Engineering	Lolakshi M. K and B. Ramachandra Bhat

		College, Bikaner, Rajasthan, India.	
10	Synthesis, characterization and catalytic activity of nano-structured Fe(II) schiff base complex in Suzuki-Miyaura cross coupling reaction,	International Conference on Emerging Trends in Nanomaterials Science and Technology (ICETNMST-2017), Department of Science and Humanities, National Institute of Technology Nagaland, Dimapur-797103, Nagaland, INDIA, January 04-06, 2017	Rasheeda M. Ansari and Badekai Ramachandra Bhat,
11	Novel RGO-ZnWO <sub>4</sub> -Fe <sub>3</sub> O <sub>4</sub> electrodes material for future electrochemical energy storage device applications.	Indo-Brazil Bilateral Second International Conference on Advanced Materials & Processing Jointly by Kalasalingam University, India and Universidade de Brasilia, Brasil, 27-28 March 2017 at International Research Centre, KLU.	M. Mohamed Jaffer Sadiq and D. Krishna Bhat
12	Novel NiWO <sub>4</sub> -ZnO-NRGO ternary nanocomposites with enhanced photocatalytic activity.	International Conference on Advances in Science and Engineering (ICASE-2017), January 20-22th 2017 at Regent's International College, Bangkok, Thailand.	M. Mohamed Jaffer Sadiq and D. Krishna Bhat
13	Novel NRGO-NiWO <sub>4</sub> nanocomposites with enhanced photocatalytic activity,	International Conference on Advances in Functional Materials (ICAFM-2017), January 6-8th 2017 at Anna University, Chennai.	M. Mohamed Jaffer Sadiq and D. Krishna Bhat
14	"Photocatalytic activity of graphene metal oxide composites towards dye degradation."	International Conference on Nanotechnology - 2016 (ICNANO-2016), 21st-23th April, Department of Nanotechnology, Visvesvaraya Technological University (VTU), Muddenahalli, Bengaluru.	Aswini Anilkumar, C.M., Mohamed Jaffer Sadiq, M. and Krishna Bhat D.
15	"Novel Co <sub>3</sub> O <sub>4</sub> -RGO as hybrid electrode material for hydrogen evolution reaction."	International Conference on Nanotechnology-2016 (ICNANO-2016), 21st-23th April, Department of	Haritha, A.H., Mohamed Jaffer Sadiq, M. and Krishna Bhat, D.

		Nanotechnology, Visvesvaraya Technological University (VTU), Muddenahalli, Bengaluru.	
16	“Graphene-MnO <sub>2</sub> Composites for Supercapacitor Application.”	International Conference on Nanotechnology - 2016 (ICNANO-2016), 21st - 23th April, Department of Nanotechnology, Visvesvaraya Technological University (VTU), Muddenahalli, Bengaluru.	Vishwanath. G. Bekkeri., Mohamed Jaffer Sadiq, M. and Krishna Bhat, D.
17	Ternary NiO/ZnWO <sub>4</sub> /Graphene nanocomposites with enhanced photocatalytic activity.	International Conference on Nanotechnology (ICNANO-2016), April 21-23 <sup>th</sup> 2016 at Visvesvaraya Technological University, Chikkaballapur.	M. Mohamed Jaffer Sadiq and D. Krishna Bhat
18	3,4-Dialkoxy thiophene – containing D-A conjugated molecule – An alternate photoactive material for organic photovoltaics.	International Conference on Recent advances in Material Chemistry (ICRAMC 2017).15-17 February, 2017, SRM University, Tamilnadu	Viprabha K and Udayakumar D
19	Structural and stability study of pyridine derivative salts of anti-inflammatory drug naproxen	7 <sup>th</sup> IJAA-JSPS International Conference on Science and Technology- Future Challenges and Solution, August 8-9, 2016 Mysuru University, Mysuru, Karnataka, India	Sunil Kumar N and Darshak R. Trivedi*
20	Pharmaceutical co-crystal of flufenamic acid with ethenzamide: Structural, solubility and stability study	7 <sup>th</sup> IJAA-JSPS International Conference on Science and Technology- Future Challenges and Solution, August 8-9, 2016 Mysuru University, Mysuru, Karnataka, India Banaras Hindu University, Varanasi, India	Sunil Kumar N and Darshak R. Trivedi*
21	A simple thiazole amine based colorimetric chemosensor for the selective and sensitive mercury ion detection in aqueous solution	7 <sup>th</sup> IJAA-JSPS International Conference on Science and Technology- Future Challenges and Solution, August 8-9, 2016 Mysuru University, Mysuru, Karnataka, India	Venkatadri Tekuri , Momidi Bharath Kumar and Darshak R. Trivedi*
22	A New Colorimetric Receptor for Bioactive Anions: Anion Induced Azo-hydrazone Tautomeric Equilibrium	7 <sup>th</sup> IJAA-JSPS International Conference on Science and Technology- Future Challenges and Solution, August 8-9, 2016 Mysuru University, Mysuru,	Srikala P., Vikram T. and Darshak R. Trivedi

		Karnataka, India	
23	Schiff base colorimetric chemosensor for the detection of biologically important anions	7 <sup>th</sup> IJAA-JSPS International Conference on Science and Technology- Future Challenges and Solution, August 8-9, 2016 Mysuru University, Mysuru, Karnataka, India	Archana Singh and Darshak R. Trivedi*
24	Design, Synthesis and Characterization of a New Fluorescent Molecule for OLED Application	7 <sup>th</sup> IJAA-JSPS International Conference on Science and Technology- Future Challenges and Solution, August 8-9, 2016 Mysuru University, Mysuru, Karnataka, India	Makesh M., M. N.Satyanarayan and Darshak R. Trivedi
25	Magneto-electrodeposition - As means to improve the hydrogen energy of Ni-W alloy	ICH2P-16 held at Zhjiang University, Hangzhou, China during May 8 to 11, 2016	Liju Elias and A. Chitharanjan Hegde,
26	Effect of multi-walled carbon nanotubes on electrocatalytic activity of Ni-W alloy electrodes	ICMST-16 held at St. Thomas College, Pala, Kerala during June 5 to 8, 2016	Liju Elias and A. Chitharanjan Hegde,
27	Synthesis of Ni-W-Graphene oxide composite coating for alkaline	International Conference on Advanced Materials (ICAMA 2016) held at BMS College, Bangaluru on 16 <sup>th</sup> and 17 <sup>th</sup> June, 2016	Liju Elias and A. Chitharanjan Hegde
28	Electrofabrication of Ni-Co-CNT composite coatings for production of Hydrogen Energy	in International conference on Nanoscience and Nanotechnology for energy applications, (EApp-2016) held during June 27 <sup>th</sup> -29 <sup>th</sup> , 2016 at Sathyabama university, Chennai.	Akshatha R Shetty A. Chitharanjan Hegde
29	Electrochemical dissolution: As means to improve the HER efficiency of Ni-P alloy coatings,	11 <sup>th</sup> International Symposium on Advances in electrochemical science and technology (iSAEST-11) held at Hotel Kohinoor Asiana, Chennai, during 8-10 <sup>th</sup> December, 2016.	Liju Elias and A. Chitharanjan Hegde

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Sl. No.	Title of Paper	Conference Name, Vol, Issue, Pages Nos, Date	Author
1.	A Novel Dual-Gate Nano-Scale InGaAs Transistor with modified Substrate Geometry	IEEE International Conference on Innovations in Electronics, Signal Processing and Communication (ICIESC	Baldeo Sharan Sharma M. S. Bhat

		2017), 6-7 April, 2017.	
2.	All Neighbor Fuzzy Relational Data Association for Multitarget Tracking in the Presence of ECM	publication in IEEE INDICON-16, to be held at IISc, Bengaluru during 16-18, December 2016.	Gnane Swarnadh Satapathi Pathipati Srihari
3.	Data Aggregation using Compressive Sensing for improved Network Life Time in Large Scale Wireless Networks	SCESM, September 9-10, 2016 at Hierank Business School Noida	Deepa Puneeth Ruthwik R Muralidhar Kulkarni
4.	Depth Image Super-Resolution: A Review aand Wavelet Perspective	CVIP 2016, IIT Roorkee, Uttarakhand	Chandra Shaker B Ramesh Kini M.
5.	A Low-Energy Area-Efficient Dual Channel SAR ADC Using Common Capacitor Array Technique	IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics 2016 (DISCOVER 2016) Aug. 13-15, 2016.	Sridhar Reddy N Jagadish D. N. M.S Bhat

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Sl. No.	Title of Paper	Conference Name. Vol. Issue, Date, Page No.s	Author(s)
1	Series Injection-Based Powerflow Modelling of a Solar Photovoltaic Power System	Proceedings of the IEEE International conference on Power Electronics, Intelligent Control and Energy Systems, (ICPEICES-2016), held at DTU, Delhi, India, July, 4-6, 2016	Santosh V Singh and Shubhanga K.N
2	Loop Flow Performance of Interconnected Power Systems with HVDC Links	Proceedings of the IEEE International conference on Power Electronics, Intelligent Control and Energy Systems, (ICPEICES-2016), held at DTU, Delhi, India, July, 4-6, 2016	Teena Johnson and Shubhanga K.N
3	Current Injection Modelling Based Large-Signal Analysis of a Grid-Connected Solar Photovoltaic Power System	Proceedings of the 13 <sup>th</sup> IEEE Indian conference, INDICON-2016, held at IISc., Bangalore, INDIA, December, 16-18 <sup>th</sup> 2016	Santosh V Singh and Shubhanga K.N
4	Stability Analysis of a Grid Connected DFIG-based WECS with Two-mass shaft Model	Proceedings of the 13 <sup>th</sup> IEEE Indian conference, INDICON-2016, held at IISc., Bangalore, INDIA, December, 16-18 <sup>th</sup> 2016	E. Prasanthi and K. N. Shubhanga
5	Large-signal Performance of Synchronous Machines models in Power Systems	The proceedings of the IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES)-2016, held at Trivandrum, Kerala,	Shashidhar M.K and K. N. Shubhanga

		December, 17-19 <sup>th</sup> 2016	
6	Word boundary estimation for continuous speech using higher order statistical features.	In <i>Region 10 Conference (TENCON), 2016 IEEE</i> , pp. 966-969. IEEE, 2016.	Naganoor, Vijayakrishna, Akshay Kumar Jagadish, and Krishnan Chemmangat.
7	Selfie Detection by Synergy-Constraint Based Convolutional Neural Network.	<i>arXiv preprint arXiv:1611.04357</i> (2016). Accepted for Publication at <i>IEEE SITIS 2016</i>	Annadani, Yashas, Vijayakrishna Naganoor, Akshay Kumar Jagadish, and Krishnan Chemmangat.
8	An Efficient Hybrid Technique for Correlated Probabilistic Load Flow Study with Photovoltaic Generations.	<i>Power Systems Conference (NPSC), 2016 Nineteenth National, Bhubaneswar, 2016</i> , pp. 1-6	B. R. Prusty and D. Jena
9	Modeling of Power Demands of Electric Vehicles in Correlated Probabilistic Load Flow Studies.	<i>Power Electronics, Drives and Energy Systems (PEDES), 2016 IEEE International Conference on, Trivandrum, 2016</i> , pp. 1-6.	N. G. Bhat, B. R. Prusty and D. Jena
10	Mesh analysis by direct matrix manipulation a different approach.	In <i>Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER), IEEE</i> (pp. 173-178). IEEE, 2016,1-6	Jena, D.
11	Estimation of optimal number of components in Gaussian mixture model-based probabilistic load flow study.	In <i>India Conference (INDICON), 2016 IEEE Annual</i> , pp. 1-6. IEEE, 2016.	B. R. Prusty and D. Jena
12	Regulating frequency of supply voltage using matrix converter and comparative evaluation with double end converter	IEEE PIICON 2016, 7th Power India International Conference, November 25-27, 2016	Arnav Kundu and K.P.Vittal
13	On designing of a high voltage standard capacitor using a semi-analytical field computation method	Electrostatics Joint Conference June 13-18, 2016, Paper O5, Session 'O': Measurement and Instrumentation, Purdue University, USA.	N. K. Kishore and Gururaj S Puneekar
14	Electric field distribution in an EHV substation: A Case study.	Electrostatics Joint Conference June 13-18, 2016, Paper S2, session 'S': Safety and hazards, Purdue University, USA.	Swaroop Kishan Singh, G S Puneekar and N K Kishore
15	Power Cables and their Sizing in a Power Intensive Industry: A Case Study.	9th International Conference on Power Cable Technology, 9-10th February 2017, CPRI, Bangalore, Session III, Paper No. 12, pp. 75-81.	Afzal Ali Khan and Gururaj S Puneekar
16	"Optimal design of collector topology for off shore wind farm	IEEE 10 <sup>th</sup> International Conference on power	Ramu Srikakulapu and Vinatha

	based on ant colony optimisation approach”	electronics drives and energy systems (PEDES 2016), held at Thiruvananthapuram, 14-17 December 2016.	Urundady
17	New Optimization Approach Based on Ant Colony Optimization with Travelling Salesmen Problem for Optimal Design of Offshore Wind Farm	2 <sup>ND</sup> International Conference on Smart Electric Grid (ICSEG 2016)	Ramu Srikakulapu and Vinatha Urundady
18	Speed Control of BLDC Motor using Bridgeless SEPIC PFC with Coupled Inductors”	IEEE 11th International Conference on Industrial and Information Systems (ICIIS), Roorkee, India, 3rd-4th Dec 2016.	Pavana and Vinatha U
19	Performance of wind system with battery-UC in grid connected mode	7th IEEE Power India International Conference (PIICON), Bikaner, Rajasthan, India, 25-27th November, 2016	Santhosha Kumar A and D. N. Gaonkar
20	Online Volt/Var Control in a Smart Grid with Multiple Distributed Generation Systems	7th IEEE Power India International Conference (PIICON), Bikaner, Rajasthan, India, 25-27th November, 2016	Raghavendra P. and D. N. Gaonkar
21	Control Strategy for Power Management in a PV-Battery Hybrid System with MPPT	International Conference on Power Electronics, Intelligent Control and Energy Systems, DTU, New Delhi, India, July 2016	N. S. Jayalakshmi, D. N. Gaonkar, S. Adarsh and S Sunil A
22	An Algorithm for Optimal Phase Balancing of Secondary Distribution Systems at Each Node”,	has been accepted at the 2016 IEEE ESMO Conference September 12-15th, 2016, Columbus, OH, USA.	Swapna M and Udaykumar R.Y
23	A New Nine-Level Single-DC Source-based Inverter Topology for Distributed Generation	IEEE INTERNATIONAL CONFERENCE ON POWER ELECTRONICS, DRIVES AND ENERGY SYSTEMS (PEDES-2016). <i>Accepted for presentation.</i>	Sandeep N and Udaykumar R Y,
24	Improvement of harmonic current compensation for grid integrated PV and Wind hybrid renewable energy system,	6 <sup>th</sup> International conference on power system, India Habitat Centre (IIT Delhi), 2016.	Nagaraj C, K Manjunatha Sharma,
25	Design and implementation of Sliding Mode voltage controllers for dc to dc buck converter by using Hysteresis Modulation and Pulse Width Modulation.	<i>in Proc. IEEE Biennial International Conference on Power and Energy systems: Towards Sustainable Energy</i> , 2016.	B.Kiran, P.Parthiban, Debashisha Jena and P.S.Prakash, “

26	Transformerless Dynamic Voltage Restorer for Voltage Sag Mitigation,	<i>in Proc. IEEE Biennial International Conference on Power and Energy systems:Towards Sustainable Energy</i> , 2016.	Ansal.V, P.Parthiban, K.Ravikumar,
27	High Performance Three-Phase PFC Rectifiers for Telecom Power Supply,	<i>IEEE Conf. ICPS</i> , IIT Delhi, 2016.	Saravana Prakash P and R Kalpana,
28	Configuration of Modular Push-Pull Buck DC-DC Converter for 12kW Telecom SMPS and Its Design,	<i>IEEE Conf. PESTSE</i> , Amrita Bangalore, 2016.	Saravana Prakash P and R Kalpana,

**Department of Information Technology**

<b>Sl. No.</b>	<b>Title of paper</b>	<b>Conference Name, Place, Dates, Page Nos.</b>	<b>Author(s)*</b>
1	A Novel Approach for Multi Dimensional Variable Sized Virtual Machine Allocation and Migration at Cloud Data Center	9 <sup>th</sup> Int. Conf. on COMMunication Systems & NETworkS (COMSNETS-2017), Jan. 4-8, 2017, Bangalore, India	Neeraj Kumar Sharma, G. Ram Mohana Reddy
2	Analysis of Political Leanings of News Organisations in India	4 <sup>th</sup> Int. Conf. on Business Analytics and Intelligence (ICBAI 2016), December 19-21, 2016, IISc Bangalore, India	Akash S Kumar, Madhavi Srinivasan, Rishab Ketan Doshi and G Ram Mohana Reddy
3	Video Affective Content Analysis Based on Multimodal Features Using a Novel Hybrid SVM-RBM Classifier	3 <sup>rd</sup> IEEE U.P Section Int. Conference on Electrical, Computer and Electronics (IEEE UPCON-2016), December 9-11, 2016, IIT BHU, Varanasi, India	Ashwin T S, Sai Saran and G Ram Mohana Reddy
4	Aerial - A Training Tool for Air Marshalls and Traffic Policemen	8 <sup>th</sup> IEEE International Conference on Technology for Education (IEEE T4E 2016), December 2-5, 2016, IIT Bombay, Mumbai, India	Anusha Prakash, Swathi R, Stuti Kumar, Ashwin T S and G Ram Mohana Reddy
5	<i>Virtual Slate</i> : Microsoft Kinect Based Text Input Tool to Improve Handwriting of People	The 24 <sup>th</sup> Int. Conf. on Computers in Education (ICCE 2016), Nov. 28 - Dec. 2, 2016, IIT Bombay, Mumbai, India	Kartik Sreenivasan, Ashwin T S and G Ram Mohana Reddy
6	Resource Usage Prediction Based on ARIMA-ARCH Model for Virtualized Server System	Second Int. Conf. on Science, Engineering and Environment (SEE-Osaka2016), Nov. 21-23, 2016, Osaka City, Japan	Biju R Mohan, G Ram Mohana Reddy
7	Life Data Analysis of Server Virtualized System	Second Int. Conf. on Science, Engineering and Environment (SEE-	Biju R Mohan, G Ram Mohana Reddy

		Osaka2016), Nov. 21-23, 2016, Osaka City, Japan	
8	Multi-Objective Resources Allocation Using Improved Genetic Algorithm at Cloud Data Center	IEEE 5th International Conference on Cloud Computing for Emerging Markets (CCEM 2016), Oct. 19-21, 2016, IBM Bangalore, India	Neeraj Kumar Sharma and G. Ram Mohana Reddy
9	Unobtrusive Intelligent Smartphone Systems for Enhancing the User Experience Using Emotion Recognition	3rd IEEE Annual Conf. on Cognitive Science (ACCS 2016), Oct. 3-5, 2016, Indian Institute of Technology Gandhinagar (IITGN), India	Ashwin T S, Vishal Priyadarshi and G Ram Mohana Reddy
10	Memory Based Load Balancing Algorithm in Structured Peer to Peer System	Springer 4th Int. Conference on Advanced Computing, Networking and Informatics (ICACNI 2016), September 22-24, 2016, NIT Rourkela, India	Raghu Golla, Neeraj Kumar Sharma, Shridhar G Domanal and G. Ram Mohana Reddy
11	Hand Gesture Based Stable Power Point Presentation Using Kinect	Springer 4th Int. Conference on Advanced Computing, Networking and Informatics (ICACNI 2016), September 22-24, 2016, NIT Rourkela, India	Praveen Kumar, Anurag Jaiswal, Deepak Brahmania and G. Ram Mohana Reddy
12	Friendship Recommendation System Using Topological Structure of Social Network	Springer 4th Int. Conference on Advanced Computing, Networking and Informatics (ICACNI 2016), September 22-24, 2016, NIT Rourkela, India	Praveen Kumar, G. Ram Mohana Reddy
13	Analysis of Academic Research Networks to Find Collaboration Partners	Springer 18th International Conference on Human Computer Interaction (HCI International 2016), July 17-22, 2016, Toronto, Canada	Bharath Kumar Suresh, Kavita Asiwal, Surabhi Kanaujia, Harish Takle, G. Ram Mohana Reddy
14	ENTROPY-DIFFERENCE BASED STEREO ERROR DETECTION	12th IEEE Int. Workshop on Image Video and Multidimensional Signal Processing (IEEE IVMSWP Workshop 2016), July 11-12, 2016, Bordeaux, France	Subhayan Mukherjee, Irene Cheng, Ram Mohana Reddy Guddeti, Anup Basu
15	Cost Effective Fast Convergent Solution for Job Shop Scheduling Using Cat Swam Optimization	5th IEEE International Congress on Big Data (IEEE Big Data Congress 2016), June 27 - July 2, 2016, San Francisco, USA	Vivek Dani, Aparna Sarawat, Vishnu Swaroop, Shridhar Domanal, G. Ram Mohana Reddy
16	Energy Efficient Virtual Machine Allocation and Migration at Cloud Data Center	IEEE 12th World Congress on Services (IEEE SERVICES 2016) conducted	Neeraj Kumar Sharma, G. Ram Mohana

		with 9th IEEE Int. Conf. on Cloud Computing (IEEE CLOUD 2016), June 27 - July 2, 2016, San Francisco, USA	Reddy
17	An Efficient Cost Optimized Scheduling Algorithm for Scientific Workflows and Bag of Tasks on Clouds	IEEE 12th World Congress on Services (IEEE SERVICES 2016) conducted with 9th IEEE Int. Conf. on Cloud Computing (IEEE CLOUD 2016), June 27 - July 2, 2016, San Francisco, USA	Shridhar G.Domanal, G. Ram Mohana Reddy
18	BEE: Self-Tutor - A Pragmatic Approach to Simplify Learning for the Visually Impaired	WSCG 24th Int. Conference in Central Europe on Computer Graphics, Visualization and Computer Vision 2016, May 30 - June 3, 2016, Plzen, Czech Republic	Meghana Ashok, Megna Gafoor, Ashwin T S, G Ram Mohana Reddy
19	Detection and Analysis Model for Grammatical Facial Expressions in Sign Language	IEEE Region 10 Symposium (TENSYP'16), May 9-11, 2016, Sanur, Bali Island, Indonesia	Bhuvan M S, Vinay Rao D, Siddharth Jain, Ashwin T S, Ram Mohana Reddy G
20	Striking the Balance Between Novelty and Accuracy in Location-Based Recommendation Systems	IEEE 5th International Conference on Recent Trends in Information Technology (ICRTIT 2016), April 8-9, 2016, MIT Campus, Anna University, Chennai, India	Vivek Agrawal, Shivam Sahu, Sneha Oommen and Ram Mohana Reddy G
21	"Data Trustworthiness in Wireless Sensor Networks"	15th IEEE International Conference on Trust, Security and Privacy in Computing and Communications (IEEE TrustCom-16), Tianjin, China on August 23-26, 2016, page 2181 - 2186.	Karthik N Ananthanarayana V.S.
22	"Data Trust Model for Event Detection in Wireless Sensor Networks using Data Correlation Techniques"	4th IEEE International Conference on Signal Processing, Communications and Networking (ICSCN'17), Chennai, March 16 - 18, 2017	Karthik N Ananthanarayana V.S.
23	"Saliency Prediction for Visual Regions of Interest with Applications in Advertising"	4th International Workshop on Video Analytics for Audience Measurement (VAAM 2016), held in conjunction with 23rd Int.	Shailee Jain Sowmya Kamath S

		Conf. on Pattern Recognition (ICPR), Dec 4 to 8, 2016, Cancun Mexico.	
24	"Query-oriented, Unsupervised Multi-Document Summarization on Big Data"	7th ACM Int. Conf. on Computing, Communication and Networking Technologies (ICCCNT 2016), 6-8 July, 2016, at Dallas, USA. (doi>10.1145/2967878.2967919	Sunaina K Sowmya Kamath S
25	"iKAN - A Kannada Transliteration Tool for Assisted Linguistic Learning"	Fourth International Conference on Emerging Research in Computing, Information, Communication and Applications, ERCICA 2016, July 29-30 2016, Bangalore, India (Springer Proceedings)	Anusha Prakash, Meghana Ashok, Swathi R, Sahana C, Sowmya Kamath S
26	"An Intelligent Algorithm for Automatic Candidate Selection for Web Service Composition"	4th International Conference on Advanced Computing, Networking, and Informatics (ICACNI 2016), 22 – 24 September 2016, organised by National Institute of Technology Rourkela, India (Springer Smart Innovation, Systems and Technologies Series)	Ashish Kedia, Ajith P S, Adarsh Mohata, Sowmya Kamath S
27	"A Content-based Visual Information Retrieval Approach for Automated Image Annotation"	4th International Conference on Advanced Computing, Networking, and Informatics (ICACNI 2016), 22 – 24 September 2016, organised by National Institute of Technology Rourkela, India (Springer Smart Innovation, Systems and Technologies Series)	Karthik Senthil, Abhi Arun, Sowmya Kamath S
28	"A Quality-centric Scheme for Web Service Ranking using Fuzzified QoS Parameters"	4th International Conference on Advanced Computing, Networking, and Informatics (ICACNI 2016), 22 – 24 September 2016, organised by National Institute of Technology Rourkela, India (Springer Smart Innovation, Systems and Technologies Series) (Best Paper Award in Networking Track)	Mandar Shaha Sowmya Kamath S

29	"Enhancing Web Service Discovery using Meta-heuristic CSO and PCA based Clustering	4th International Conference on Advanced Computing, Networking, and Informatics (ICACNI 2016), 22 – 24 September 2016, organised by National Institute of Technology Rourkela, India (Springer Smart Innovation, Systems and Technologies Series)	Sunaina Kotekar Sowmya Kamath S
30	A Novel Technique of Feature Selection with ReliefF and CFS for Protein Sequence Classification	ICACNI-2017, to be held in NIT Goa (Accepted)	Kiranpreet Kaur, Nagamma Patil
31	Association Analysis of Significant Frequent Colossal Itemsets Mined from High Dimensional Datasets	3 <sup>rd</sup> IEEE Uttar Pradesh Section International Conference on Electrical, Computer and Electronics, 2016 Dec 9, Held at IIT-BHU	Manjunath K Vanahalli Nagamma Patil
32	Classification of protein sequences using an ensemble classifier and improved feature selection strategies	ICACNI-2017, to be held in NIT Goa (Accepted)	Adithya sriram, Mounika Sanapala, Ronak Patel, Nagamma Patil
33	VMI Based Automated Real-Time Malware Detector for Virtualized Cloud Environment	6th International Conference, SPACE 2016, Hyderabad, India, December 14–18, 2016	M.A. Ajay Kumara Jaidhar CD
34	PPRP:Predicted Position Based Routing Protocol Using Kalman Filter for Vehicular Ad-hoc Network	ICDCN '17, January 04-07, 2017, Hyderabad, India	Raj K Jaiswal Jaidhar C D
35	Parallelization of Alpha Beta Pruning Algorithm for Enhancing The Two Player Games	International Conference on Recent Advances in Science, Engineering, Technology and Management (NCRASET M), 25th Dec 2016, Chennai	Akanksha Kumari, Shreya Singh, Shailja Dalmia, Dr. Geetha.V

**Department of Mechanical Engineering**

Sl. No.	Title of Paper	Conference Name,Place, Dates, Page Nos.	Authors
1	Numerical Simulation of Oscillating Lid-Driven Square Cavity Using Staggered Grid Based Finite Volume Method	Proceedings of the 6 <sup>th</sup> International and 43 <sup>rd</sup> National Conference on Fluid Mechanics and Fluid Power, December 2016, MNNITA, Allahabad, U. P. India	I. J. Varma, D. K. Kolke, R. Maniyeri
2	Numerical Study of Bio-heat transfer in Breast Cyst Using Finite Difference Method	International Conference on Advances in Scientific Computing, November 2016,	H. M. Patil and R. Maniyeri

		IIT Madras, Chennai, India	
3	Numerical Simulation of Lid-Driven Square Cavity Using Staggered Grid Based Finite Volume Method	Sixth International Congress on Computational Mechanics and Simulation, June 2016, IIT Bombay, Powai, India	I. J. Varma, R. Maniyeri and S. Kang
4	Experimental and Theoretical Studies of Window Glazing Materials of Green Energy Building in Indian Climatic Zones	International Conference on Recent Advancement in Air Conditioning and Refrigeration, RAAR 2016, 10-12 November 2016, Bhubaneswar, India	G. Kirankumar S Saboor T.P. Ashok babu
5	Study of Various Glass Materials to Provide Adequate Day Lighting in Office Buildings of Warm and Humid Climatic Zone in India	International Conference on Recent Advancement in Air Conditioning and Refrigeration, RAAR 2016, 10-12 November 2016, Bhubaneswar, India	Kiran Kumar G Ashok Babu T. P
6	Thermodynamic Performance Analysis of Eco friendly Refrigerant Mixtures to Replace R22 Used in Air conditioning Applications	International Conference on Recent Advancement in Air Conditioning and Refrigeration, RAAR 2016, 10-12 November 2016, Bhubaneswar, India	Sharmas Vali Shaik T. P.Ashok Babu
7	Theoretical Performance Investigation of Vapour Compression Refrigeration System Using HFC and HC Refrigerant Mixtures as Alternatives to Replace R22	International Conference on Recent Advancement in Air Conditioning and Refrigeration, RAAR 2016, 10-12 November 2016, Bhubaneswar, India	Sharmas Vali Shaik T. P.Ashok Babu
8	Bricks Exposed to Periodic Thermal Variations for Energy Efficient Stuffed Bricks Design	4th International High Performance Buildings Conference at Purdue, held in West Lafayette, IN, USA in July 11-14, 2016	Ashok Babu Talanki Puttaranga Setty, Saboor Shaik
9	Optimizing Vertical Air Space Location within the Wall for Energy Efficient Building Enclosure Design Based on Unsteady Heat Transfer Characteristics	International Conference on Recent Trends in Engineering and Material Sciences, Mar 17-19, 2016, Jaipur National University, Jaipur, Rajasthan, India. (Paper No: 981) ISBN:978935254230	Saboor, S. and Ashok Babu, T.P
10	The Effect of Wall Orientation on Dynamic Thermal Characteristics of Laterite and Concrete Buildings in Four Different Indian Climatic Zones	International Conference on Recent Trends in Engineering and Material Sciences, Mar 17-19, 2016, Jaipur National University, Jaipur, Rajasthan, India. (Paper No: 981) ISBN:978935254230	Saboor, S., Kirankumar, G. and Ashok Babu, T.P
11	Thermal Analysis of Wall and Window Glass Materials for Cooling Load Reduction in Green	International Conference on Recent Trends in Engineering and Material Sciences, Mar	Kirankumar, G., Saboor, S. and Ashok Babu, T.P.,

	Energy Building Design	17-19, 2016, Jaipur National University, Jaipur, Rajasthan, India. (Paper No: 981) ISBN:978935254230	
12	Study of Various Solar and Thermal Control Reflective Glass materials for Energy Efficient Façade Glazing Design in Indian Climates	International Conference on Recent Trends in Engineering and Material Sciences, Mar 17-19, 2016, Jaipur National University, Jaipur, Rajasthan, India. (Paper No: 981) ISBN:978935254230	Kirankumar, G., Saboor, S. and Ashok Babu, T.P.,
13	Investigation of Various Low Emissivity Glass Materials for Green Energy Building Construction in Indian Climatic Zones	International Conference on Advancements in Aeromechanical Materials for Manufacturing (ICAAMM-2016) July 7-9, 2016, Hyderabad	Kiran Kumar Gorantla, Saboor shaik, Ashok Babu Talanki Puttaranga setty
14	Modelling and Analysis of Material Behaviour under Normal and Oblique Low Velocity Impact	International Conference on Emerging Trends in Materials and Manufacturing Engineering (IMME17), Mar 10-12, 2017, Tiruchirappalli, TN, India.	Vishwas M, Sharnappa Joladarashi and S M Kulkarni.
15	Behaviour of Natural Rubber in Comparison with Structural Steel, Aluminium and Glass Epoxy Composite under Low Velocity Impact Loading	Int. Conference on materials, manufacturing, management & Thermal sciences (AMMMT16), Sept 23-24, 2016, TSIT, Tumakuru, KA, India.	Vishwas M, Sharnappa Joladarashi and S M Kulkarni.
16	Model based Test Equipment Design and Controller Tuning for Elevator Endurance Test Rig	International Conference on Smart Sensors and Systems (IC-SSS), Bangalore, IEEE xplore, DOI: 10.1109/SMARTSENS.2015.7873591	Mukesh Prasad, K.V. Gangadharan
17	A Comparative CFD Study on the Hemodynamics of Flow through an Idealized Symmetric and Asymmetric Stenosed Arteries	Fifteenth Asian Congress of Fluid Mechanics (ACFM). 15ACFM, 21-23 Nov. 2016, Malaysia	Prashantha B, S Anish
18	Understanding Thermal Behavior in Laser Processing of Titanium Aluminide Alloys	6th International and 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2016), College of Engineering, Pune, December 2016	Mallikarjuna, B., Prasad K., Balla, V.K., Das., M., Bontha S.,
19	Numerical Modeling of Laser Additive Manufacturing Processes	NAFEMS 3D Engineering Modeling, Analysis, Simulation & 3D Printing, Bangalore, August 2016.	Hazarika, B., Mallikarjuna, B., Prasad, K., Balla, V.K., Bontha S.,
20	Computation Of Incompressible	IEEE International Conference	Sthavishtha B.R and

	Fluid Flows In A Single-Sided Cross-Shaped Lid-Driven Cavity Using Lattice Boltzmann Method	on Emerging Technological Trends, 21-22 October 2016, Baseliros Mathews II College of Engineering, Kollam, Kerala	D.A. Perumal
21	Steady Flows In L-Shaped Cavities: A. Numerical Study Using Mesoscale Lattice Boltzmann Method	28-30 November 2016, International conference on Advances in Scientific Computing, IIT Madras, Tamilnadu	Sthavishtha B.R and D.A. Perumal
22	Computational Study of mixed convection in a lid-driven cavity with square block subjected to constant heat flux	6th International Engineering Symposium, 01-03, March 2017, Kumamoto University, Japan	G. Narendran, N Gnanasekaran, D A Perumal
23	Laminated chopped glass fiber reinforced polyester resin composite	Proceedings of the 2nd international conference on Design, Analysis, Manufacturing and Simulation (ICDAMS-2016) April 7-8, 2016	Vipin Allien, Hemantha Kumar and Vijay Desai
24	Evaluate the Performance of Quarter Car Suspension System with Nonlinear Hysteresis Magnetorheological Damper	Sixth International Congress on Computational Mechanics and Simulation (ICCMS-2016), IIT Bombay, Mumbai, India, June 27-July 1, 2016	Hemanth K, Hemantha Kumar and K V Gangadharan
25	Comparitive Study Between Non-Parametric Magneto-Rheological (Mr) Damper Model With Parametric Bouc-Wen Magneto-Rheological Model	Sixth International Congress on Computational Mechanics and Simulation (ICCMS-2016), IIT Bombay, Mumbai, India, June 27-July 1, 2016	Hemanth K., Hemantha Kumar* and K.V.Gangadharan
26	Effect of Cutting Speed and Feed Rate on Cutting Force, Temperature and Stress in Face Milling of Steel Alloy 42CrMo4 by using Computational Approach	6th International & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2016), December 16-18, 2016 at College of Engineering., Pune, Maharashtra, INDIA	Madhusudana C. K., Hemantha Kumar and Narendranath S
27	Fault Diagnosis of Face Milling Tool using Decision Tree and Sound Signal	The International Conference on Materials, Manufacturing and Modelling (ICMMM)-2017 at VIT University, Vellore, India, March 9-11, 2017.	Madhusudana C. K., Hemantha Kumar and Narendranath S.
28	Investigation of microstructure and mechanical properties of Mg-Zn/Al multilayered composite developed by accumulative roll bonding,	International Conference on Recent Trends in Engineering and Material Sciences, Jaipur National University, Jaipur, India, March 17-19, 2016	Gajanan Anne, M R Ramesh, H Shivananda Nayaka, Shashi Bhushan Arya,
29	Development and characteristics Mg-2%Zn/anodized Al-7075 composite by accumulative roll bonding,	6th International Engineering Symposium, organized by Graduate School of Science & Technology Kumamoto	Gajanan Anne, M R Ramesh, H Shivananda Nayaka, Shashi Bhushan Arya,

		University, Kumamoto, Japan during Mar 1-3, 2017	
30	Microstructure, mechanical and corrosion properties of accumulative roll bonded Mg-2%Zn/anodized Al-7075 composite,	International Conference on Emerging Trends in Materials and Manufacturing Engineering, organized by department of Metallurgical and Materials Engineering, NIT Thiruchirapalli, Tamil Nadu, during Mar 10-12, 2017	Gajanan Anne, M R Ramesh, H Shivananda Nayaka, Shashi Bhushan Arya,
31	Evaluation of physical properties of WC-CrC- Ni reinforced stainless steel composite prepared by Metal injection Molding,	6th International Engineering Symposium, organized by Graduate School of Science & Technology Kumamoto University, Kumamoto, Japan during Mar 1-3, 2017	Veeresh Naik, Vijay Desai, M. R. Ramesh,
32	Effect of Lateral Vibrations during Directional solidification on Mechanical Properties of Al-18%wt Si Alloys,	International Conference on Emerging Trends in Materials and Manufacturing Engineering, organized by department of Metallurgical and Materials Engineering, NIT Thiruchirapalli, Tamil Nadu, during Mar 10-12, 2017	Ramesh Babu N, Ramesh M R, Kiran Aithal S, Kotgi Kotresh,
33	Fabrication of stainless steel based composite by metal injection moulding,	International Conference on Emerging Trends in Materials and Manufacturing Engineering, organized by department of Metallurgical and Materials Engineering, NIT Thiruchirapalli, Tamil Nadu, during Mar 10-12, 2017	Veeresh Naik, Vijay Desai, M. R. Ramesh,
34	High Temperature Erosion Behaviour of Plasma Sprayed NiCrAlY-25WC-Co/Cenospheres Composite Coating,	6th International Engineering Symposium, Kumamoto University, Japan, march 1-3, 2017	Mahantayya Mathapati, Ramesh M R and Mrityunjay Doddamani,

**Department of Mining Engineering**

<b>Sl. No.</b>	<b>Title of paper</b>	<b>Conference Name, Place, Dates, Page Nos.</b>	<b>Author(s)*</b>
1.	Performance of Load Haul Dumper in Underground Mines- An overview	International Conference on Deep Excavation, Energy Resources and Production, IIT, Kharagpur, 24th-26th January, 2017	Balaraju Jakkula, M. Govinda Raj and Ch.S.N. Murthy

2	Effect of Thermal Response on Physical Properties During Drilling Operation - A Review	International Conference on Deep Excavation, Energy Resources and Production, IIT, Kharagpur, 24th-26th January, 2017	Vijay Kumar S , Ch.S.N.Murthy and B.M. Kunar
3	Numerical Modeling of Rock Indentation	International Conference on Deep Excavation, Energy Resources and Production, IIT, Kharagpur, 24th-26th January, 2017	Balla Kalyan, Ch.S.N.Murthy and R.P. Choudhary
4	Effect of thermal response on physical properties during drilling operations-A case study	International conference on emerging trends in Materials and Manufacturing Engineering (IMME-17), National Institute of Technology, Tiruchirappalli, from 10th to 12 <sup>th</sup> March 2017	Vijay Kumar S , Ch.S.N.Murthy and B.M. Kunar
5	Ground vibrations & water borne shock waves caused due to underwater blasting in ports – A case study	Int. Conf. International Conference on Civil, Agricultural & Environmental Engineering (CAGEE-16), Hong Kong, May 16-17, 2016	Sastry V.R, G. Raghuchandra, C. Karthik).
6	Assessment of Seismic Energy obtained from Blast induced Ground Vibrations using Signal Processing Computation Techniques	IEEE International Conference On Recent Trends In Electronics Information Communication Technology, May 20-21, 2016, India, 31-35	Sastry V.R , G. Raghu Chandra
7	Signal Processing Computation based Seismic Energy Estimation of Blast induced Ground Vibration Waves	IEEE International Conference On Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER 2016), Aug. 13-14, 2016, India	Sastry V.R , G. Raghu Chandra
8	Rock Blasting Technology – The Way Forward, KEYNOTE PAPER	Int. Conf. Recent Advances in Rock Engineering, Organized by National Institute of Rock Mechanics, Bangalore, Nov. 16-18, 2016, 40-45	V.R.Sastry
9	Ground vibrations & water borne shock waves caused due to underwater blasting in ports – A case study	Int. Conf. International Conference on Civil, Agricultural & Environmental Engineering (CAGEE-16), Hong Kong, May 16-17, 2016	V.RSastry, G. Raghuchandra, C. Karthik
10	Eco- Friendly Approach Utilization of Iron ore Waste In Brick Manufacturing	Int. Conference on Envirotech, Cleantech and Greentech (ECG) 20-21 Dec, 2016, Dubai	Shreekanth R. Lamani, Aruna Mangalpady, Harsha Vardhan and Govinda Raj Mandela

11	Assessment on Statistical Prediction of Uniaxial Compressive Strength of Rocks.	Proc. INDOROCK-16, IIT Bombay, 17-18 June, 2016, 651-661.	Snehal, S, Rajesh Rai., Ashok Jaiswal., and Ram Chandar, K.,
12	Effect of Partition of Overburden on Stability of Old Underground Workings.	Proc. INDOROCK-16, IIT Bombay, 17-18 June, 2016, 950-970.	Kumar, D., and Ram Chandar, K., and Alston D'Souja.,
13	Stability Analysis of Old Underground Coal Workings using Wireless Sensor Networks.	Proc. ISRM Sponsored int. Conf. on Recent Advances in Rock Engineering, NIRM-Bangalore, 16-18 Nov, 2016, 563-568.	Kumar, D., and Ram Chandar, K.,
14	Student Centric Mining Education and Training Vis a Vis Job Satisfaction of Mining Engineers,	Proc. Seminar on Future of Mining Industry-Need for Sustainable Mining Education, IE(India)-Hyderabad, 26 <sup>th</sup> Dec. 2016.	Ram Chandar, K.,
15	Vegetation Growth in Waste Rock Produced from opencast Coal Mines with Different Additives,	Proc. 6 <sup>th</sup> Int. Engineering Symposium-IES 2017, Kumamoto University, Japan, March 1-3, 2017, C1-4.	Ram Chandar, K., and Vikas Chaitanya, G.,
16	Mechanical and Durability Properties of Concrete with Precious Slag Balls as Replacement for Fine Aggregates,	Proc. 6 <sup>th</sup> Int. Engineering Symposium-IES 2017, Kumamoto University, Japan, March 1-3, 2017, C1-5.	Gayana, B.C., Sharath, S., and Ram Chandar, K.,
17	Analysis of Stresses Around a Tunnel Opening,	Proc. 6 <sup>th</sup> Int. Engineering Symposium-IES 2017, Kumamoto University, Japan, March 1-3, 2017, C2-3.	Ragini, N., and Ram Chandra, K.,
18	Treatment of Acid Mine Drainage Using Organic Waste as a Single Substrate in Sulphate Reducing Bioreactor	4th International Conference on Sustainable Development Earth Sciences and Engineering (ICSD 2016) on 16 <sup>th</sup> - 17 <sup>th</sup> September 2016, at Rome, Italy.	Choudhary R.P.
19	Correlation Between chemical characterization and Treatment Efficiency of Complex Organic Carbon as a Single Substrate in Treating Acid Mine Drainage	International conference on Chemical, Metallurgy and Environmental Engineering (CMAEE-16), Sep.21-22, Paris, France, pp. 121-127	Choudhary R.P.
20	Treatment of Acid Mine Drainage by Marble Processing Waste: A Laboratory Scale Study.	International conference on Chemical, Metallurgy and Environmental Engineering (CMAEE-16), Sep.21-22, Paris, France, pp. 114-120.	Sheoran A. S. and Choudhary R.P.

21	Development of predictive models for the specific energy in indentation of rocks.	International Conference on Recent Advances in Rock Engineering, 16 – 18 November 2016, Bengaluru, India	Kalyan B. Murthy. Ch. S N and Choudhary R P.
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**Department of Metallurgical and Materials Engineering**

Sl. No.	Title of paper	Conference Name, Place, Dates, Page Nos.	Month & Year	Author(s)*
1	Study of Flow Accelerated Corrosion at Elbow of 304 Stainless Steel Pipeline in Oil Field Water	International Corrosion Conference by NACE, CORCON 2016, New Delhi.	18 - 21 September, 2016	T S Ajmal, T Baskaran, Abheepsit Raturi, K R Udupa, S B Arya
2	Impression creep behavior of Zn-24Al-2Cu alloy processed by multi directional forging	Metals, Materials and Manufacturing for a self-Reliant India (NMD-ATM 2016), IIT Kanpur	Nov 11-14, 2016	Sharath,P. C., Rajendra Udupa K. and Preetham Kumar, G.V., (Best oral presentation award)
3	Simulation of the Effect of Heat Transfer Coefficient, Bath Temperature and Section Thickness on phase evolution during Martempering of 4140 Steel	International conference on advanced heat processing, HTS-ASM 2016, Mumbai	12-14 October 2016	Pranesh Rao K M and K Narayan Prabhu
4	Assessment of wetting kinematics and cooling performance of select vegetable oils and mineral-vegetable oil blend quench media	International conference on advanced materials and manufacturing processes for strategic sectors	May 13-15, 2015	Pranesh Rao K M and K Narayan Prabhu
5	Solid particle erosion studies on titanium alloy and HVOF sprayed Al <sub>2</sub> O <sub>3</sub> -CoCrAlTaY at various angles	International Symposium for research scholars in Metallurgy, Materials Science & Engineering, held at IIT madras, p20-21	Dec 21-23, 2016	Jegadeeswaran N, Ramesh M R, Udaya Bhat K, Ramesh C S
6	Microstructure and Tensile Properties of Al-10Zn-2Mg Alloy Processed by Equal Channel Angular Pressing	4th International Conference on Advances in Materials and Materials Processing, (ICAMMP-IV), Dept. of Metallurgical & Materials Engg. IIT Kharagpur.	5th to 7th Nov 2016	Manjunath G. K., Preetham Kumar G. V. and Udaya Bhat K.,

7	Tensile properties and tensile fracture characteristics of cast Al-Zn-Mg alloys processed by equal channel angular pressing,	International conference on emerging trends in materials & Manufacturing engineering (IMME17), Dept of metallurgical & Materials Engineering, NIT Tiruchy.	10-12 March 2017	Manjunath G K, Preetham Kumar G V, Udaya Bhat K.
8	Equal Channel Angular Pressing of Cast Al-Zn-Mg Alloys with Varying Zinc Content: Microstructure and Mechanical Properties	International Symposium for Research Scholars, Dept. of Metallurgical & Materials Engineering, IIT Madras.	21st to 23rd Dec 2016	Manjunath G. K., Preetham Kumar G. V. and Udaya K. Bhat
9	Electrospun Nanofibres of Spinel/Ilmenite Nickel Titanate	International Conference on Material Science and Technology (ICMST -2016), St. Thomas College, Kerala, India,	June 2016	B.Sachin Kumar, S.K.Kalpathy, S. Anandhan
10	Electroactive gel polymer electrolyte for Lithium ion battery with good ionic conductivity	International Conference on Advances in Materials & Materials Processing (ICAMMP-2016), IIT Kharagpur, India	November 2016	S. Janakiraman, A. Surendran, S. Ghosh, S. Anandhan, A.Venimadhav
11	Some New Observations on the Structural and Phase Evolution of Nickel Titanate Nanofibers	International Conference on Advanced Materials (SCICON '16), Amrita University, Coimbatore	December 2016	B. Sachin Kumar, A.M.Shanmughara j, K.K.Sreeram, S. Anandhan
12	Effect of austempering heat treatment parameters on the microstructure and dry sliding wear behaviour of AISI 9255 high silicon steel	International conference on Advanced Materials, Manufacturing, Management and Thermal Science (AMMMT 2016), SIT Tumakuru, Elsevier materials today proceedings.	September 23-24, 2016	Palaksha P A, Syamkrishna P, Ravishankar K S
13	Effect of Heat Treatment on the High Cycle Fatigue Behaviour	International Conference On	September 23-	Shamanth V, Piyush and

	of S2205 Duplex Stainless Steels	Advanced Materials, Manufacturing, Management And Thermal Sciences (AMMMT-2016), Siddaganga Institute of Technology, Tumkur	24,2016,	Ravishankar K S
14	Low temperature fabrication of tin doped indium oxide transparent thin films through solution combustion processing without an external fuel	2nd INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN NANOSCIENCES AND NANOTECHNOLOGY-2016	Dec 19 and 20 2016	Pavan Pujar, Bikesh Gupta, Vandana Singh, Kartick Tarafder, Dipti Gupta, Saumen Mandal
15	Low Temperature Development of Nano-Hydroxyapatite from Austromegabalanus psittacus, Star fish and Sea urchin	International conferences on Nanotechnology-2016 Chikkaballapur, Bangalore	April 21st - 23rd 2016	Komalakrishna H, Shine Zyoth, Biswanath Kundu, Saumen Mandal (Best Poster Award).
16	Low temperature retention of beta and beta" phases of sodium doped alumina-A calcination free approach	IUMRS-ICYRAM 2016; IISc Bangalore	Dec 11 - 15 2016	Pavan Pujar, Bikesh Gupta, Saumen Mandal
17	Fabrication and characterization of nano-hydroxyapatite from Cuttlefish bone, Goose barnacles and Prawn shell: An approach towards bone/hard tissue engineering	FOURTH INTERNATIONAL CONFERENCE ON NANOMEDICINE AND TISSUE ENGINEERING, ICNT 2016 Kottayam	12-14 August 2016	Komalakrishna H, Biswanath Kundu, Saumen Mandal
18	Solution Combustion Processed Titanium Doped Indium Oxide Transparent Thin Films for Electrode Applications in Optoelectronic Devices	IUMRS-ICYRAM 2016; IISc Bangalore	Dec 11 - 15 2016	Robbi Vivek Vardhan, Pavan Pujar, Vandana Singh, and Saumen Mandal
19	Development of porous nano-hydroxyapatite from Austromegabalanus psittacus marine species using camphor and wheat flour as pore formers	"2nd INTERNATIONAL Conference On Recent Advances In Nanosciences And Nanotechnology-2016" Icran 2016	19-20 th December 2016	Komalakrishna H, Gaurav kumar, Biswanath Kundu, Saumen Mandal
20	Fabrication of porous hydroxyapatite from cuttlefish bone using camphor and wax as pore formers	First international conference on Advanced material SCICON 2016	19-21 st dec 2016	Gaurav kumar, Komalakrishna H, Saumen Mandal

21	Effect of Preheating and Post Heating on Diffusible Hydrogen Content and HAC of Modified 9Cr – 1 Mo Steel Welds	International Welding Symposium 2016, Mumbai, October 5 – 7, pp. 247-261	October, 2016	R. Rejeesh, V. Ramasubbu, Shaju K. Albert, S. Abhijith, & A. O. Surendranathan
22	Failure Analysis of Cracking in Service-exposed Austenitic Stainless Steel Pipe Lines	International Welding Symposium 2016, Mumbai, October 5 – 7, pp. 263-278	-Do-	Abhijith S., Sreevidya N., Shaju K. Albert, Vinod V., Rejeesh R., Surendranathan A. O.

**Department of Physics**

Sl. No.	Title of paper	Conference Name, Place, Dates, Page Nos.	Author(s)*
1.	Effect of annealing and substrate temperatures on the structural properties of In <sub>2</sub> Te <sub>3</sub> thin films	1 <sup>st</sup> International conference on nanoscience and nanotechnology, Vellure, 19 <sup>th</sup> -21 <sup>st</sup> October 2016, p-55.	Vallem Sowjanya, Kasturi V. Bangera, G. K. Shivakumar
2.	Effect of annealing on the structural, electrical and optical properties of CdSe thin films	1 <sup>st</sup> International conference on nanoscience and nanotechnology, Vellure, 19 <sup>th</sup> -21 <sup>st</sup> October 2016, p-72	T. C. M. Santhosh, Kasturi V. Bangera, G. K. Shivakumar
3	Mechanical properties of silver nanoparticle embedded BaO-CaF <sub>2</sub> -P <sub>2</sub> O <sub>5</sub> glasses	Glasses and Optical Materials Division Annual Meeting, May 22- 26, (2016),The Madison Concourse Hotel and Governor's Club, Madison,WI, U.S.A.	Narayanan Manoj Kumar, H. D. Shashikala
4	Photonic crystal ring resonator: a promising device for a multitude of applications,	SPIE Photonics West OPTO-2017 (Paper # 10108- 57), San Francisco, California USA, Jan 28 - Feb 2, 2017.	Yadunath Thamerassery Illam Rameswaran, Resmi Ravikumar, Sreenivasul T., Anusree Kandoth, Kamal J. Sundar, Partha P. Das, Badrinarayana T., Mohan Sangineni, Gopal K. Hegde, T. Srinivas
5	Integrated-optics-based quantum-communication devices	SPIE Photonics West OPTO-2017 (Paper # 10118-39), San Francisco, California USA, Jan 28 - Feb 2, 2017	RohitK.Ramakrishnan, ShafeekA.Samad, YadunathThamerasseryIllam Rameswaran, Partha P. Das, Srinivas Talabattula

6	Mechanical stability and higher order elastic constants of BSi3	International Conference on Advances in Functional Materials (ICAFM2017) at Anna University, Chennai, India during January 6-8, 2017	Manju M S and Ajith K M
7	Anisotropic elastic properties of graphene using Classical Molecular Dynamics	NanoteC16 - The British Carbon Group's Conference on Carbon Nanoscience and Nanotechnology at Trinity College, Dublin, Ireland during August 31 - September 3, 2016.	Siby Thomas, Ajith K M, M C Valsakumar
8	Effect of Pressure on the band structure of BC3	DAE-BRNS Solid State Physics Symposium at Amity University Delhi, during December 26-30, 2016	Manju M S, G. Harikrishnan, Ajith K M M C Valsakumar

### **School of Management**

<b>Sl. No.</b>	<b>Title of paper</b>	<b>Conference Name, Place, Dates, Page Nos.</b>	<b>Author(s)*</b>
1.	Determinants of e-participation in the citizens and the government initiatives: Insights from India	Socio-Economic Planning Sciences 55 (September), 25-35	Sreejith Alathur, P.V.Ilavarasan, & M.P.Gupta.
2.	The Role of Ps in Brand Building of Engineering Institutions – A Conceptual Framework	International Conference on Brand Management jointly conducted by IIT Delhi and Curtien University, Australia	Usha Prabha, Sheena
3.	Community and Censorship: Sarah Aboobakar as Avant-garde Kannada Writer	XIII CLAI Biennial International Conference on Comparative Literature: At the Crossroads of Culture and Society, Viswabharati, Santiniketan, 6-8 Mar, 2017	Koudur, Shashikantha,
4.	Religion, Gender, Exclusion: The Case of Sarah Aboobakar in Contemporary Karnataka	17 <sup>th</sup> Triennial Conference of the ACLALS, Stellenbosch University, Stellenbosch, South Africa, 11-15 July 2016	Koudur, Shashikantha, and Ambika Mallya
5.	Big data analytics in transportation economics:	6 <sup>th</sup> International Engineering Symposium	Bhat, S.

	opportunities and challenges	(IES2017) held during 1-3 March, 2017 at Kumamoto University, Japan.	
6.	Empirical Validation of Dimensionality of Quality of Work Life for Indian Public Sector Undertakings	Third International Conference on Applied Business and Economic Research, New Delhi, India, July 30-31, 2016	Saha, S. and Kumar, S.P
7.	Conceptual Framework on Impact of Awareness Factors Affecting Investors' Sentiments – A Behavioural Finance Approach	International Conference on Financial Markets and Corporate Finance, IIT Madras, 12-13th August 2016.	Haritha P.H & Uchil, Rashmi
8.	'Talent management strategies for a knowledge economy	XIME 2nd International Academic conference on Entrepreneurship and innovation in the knowledge economy. 30th and 31st March 2017, Xavier Institute of Management & Entrepreneurship (XIME), Bangalore	Maben, Sonia Annette., & Uchil, .S. Rashmi
9.	Organizational Culture and its Adaptation of Change in the Manufacturing and Service Sector Industries in India	AIB India Chapter Conference, IIM Indore, 21-23 April, 2016.	Uchil. Rashmi
10.	Impact of Psychological Contract, Work Culture and Workforce Diversity on Turnover Intention in Indian Insurance Industry	7 <sup>th</sup> International Conference on Excellence in Research and Education (May 5-8, 2016), Organizing by Indian Institute of Management (IIMI) Indore, India	Mishra, S., & Kumar, S. P.
11.	Establishing a nexus between employee engagement and employer branding to develop employees brand behavior	Institute of strategic Marketing and Communication (MICA) Ahmedabad, India, during Jan 9-12, 2017.	Mishra, S., & Kumar, S. P.
12.	Antecedents of employee turnover intension in Indian automotive industry	3 <sup>rd</sup> International conference on applied business and economic research. Organized by serial publications Pvt. Ltd, New Delhi, India during 30-31 July 2016.	Giri, V. N., Kumar, S. P., & Rajesh, V.K.
13.	The Impact of Bank Internationalization on Indian Economy	Fifth Middle East Conference on Global Business, Economics, Finance and Banking held on 14 <sup>th</sup> ,15 <sup>th</sup> , and 16 <sup>th</sup> October, 2016 at Dubai.	Massand A, & Gopalakrishna, B.V

14.	Impact analysis of foreign banks' entry on credit supply in Indian economy	4 <sup>th</sup> Pan IIM World Management Conference, held on 13 <sup>th</sup> -15 <sup>th</sup> December, 2016 at IIM Ahmedabad, Gujarat.	Massand A, & Gopalakrishna, B.V
15.	Impact of Foreign banks on Indian Commercial Banks: A Case of Post Liberalization Period	ANVESH-2016 Doctoral Research Conference in Management held on April 8 <sup>th</sup> -9 <sup>th</sup> , 2016 at the Institute of Management, Nirma University, Ahmedabad	Massand A, & Gopalakrishna, B.V.
16.	The Impact of entry of foreign banks on the Indian Credit Market – A GMM Approach	2nd International Conference on Applied Economics and Business held on 28 <sup>th</sup> – 29 <sup>th</sup> July, 2016 at Shri Mata Vaishno Devi University, Katra, Jammu and Kashmir.	Massand A, & Gopalakrishna, B.V.
17.	Trading Of Intellectual Property Rights: An Innovation Practice And Its Influence On Performance Of Small And Medium Firms In Software Product Segment,	International Conference on Law and Economics 2016 at IIT Kanpur, September 2016	Sumukh S Hungund and Kiran K B,
18.	Open Innovation- A Need of the Hour for Indian Small and Medium Enterprises	Sustainability and Management Strategy, IMT NAGPUR, September 2015	Sumukh S Hungund and Kiran K B
19.	Branded health foods & beverages: need for a consumer acceptance model	Conference on Brand Management (CBM2016) at IIT Delhi, April 2016	Shamal S Dr.Bijuna C Mohan
20.	Impact of advertising on children's influence strategies and purchase intention	Advanced Research on Business, Management and Social Sciences International Conference (BIMASA'2016) , Thailand Nov 2016	Anitha P Dr.Bijuna C Mohan
21.	Connotations of Culture and Identity: A Study on the Significance of Cross Cultural Interactions	international Conference on "Identity, Culture and Communication (ICICC 2016)" sponsored by International Economics and Development Research Centre (IEDRC) from 12 <sup>th</sup> to 14 <sup>th</sup> November, 2016 at Kuta Central Park Hotel, Bali, Indonesia	Dr Dhishna P
22.	Food: Culture, Literature and the Real" in the International Conference on The Culture of Food: Literature and Society	Department of English and Department of Tourism at MES, College of Arts & Commerce, Goa at Hotel Queeny, Goa on 25, 26 & 27 February 2016.	Dhishna P

23.	Implications of Gender Studies: Studying Male, Female and the third Genders	Proceedings of the International Conference on Science, Technology, Women Studies, Business & Social Sciences. Ed Ratnakar Bala. Goa: IMRF Publishing House, 2016. ISBN 9789384124717. Page 129. Print.	Pannikot, Dhishna
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**NATIONAL CONFERENCES****Department of Chemical Engineering**

Sl. No.	Title Of Paper	Journal Name, Vol.No., Issue, Place, Dates, Page Nos.	Author(S)*
1	Media Optimization for Biodegradation of Phenol by <i>Nocardia hydrocarbonoxydans</i> N CIM 2386. 19-24	Abstract Proceedings of the Conference on Recent Advances Chemical, Biochemical and Environmental Engineering [RACBEE-2016]. 1 <sup>st</sup> October 2016, Shri Dharmasthala Manjunatheshwara College of Engineering and Technology, Dharwad, Karnataka, India.	Gauthami R.Shetty, Deekshitha, Vidya Shetty K*
2.	Optimizing the Biosynthesis of Melanin Nanoparticles Used for Heavy Metal Removal	National Conference on Recent Advances in Chemical, Biochemical and Environmental Engineering (RACBEE-2016)	Harsha Thaira, Raj Mohan Balakrishnan and Keyur Raval
3	Sonochemical Synthesis of Polymethylmethacrylate-Halloysite Nanotube by Solution Casting Method	International Conference On Advanced Materials and Technology (ICMAT-16) organized by SJCE, Mysuru, during 26 <sup>th</sup> -28 <sup>th</sup> May 2016	Kishore Kumar M J, Kezia Buruga, Jagannathan T K
4	A facile sonochemical synthesis of nanocrystalline lanthanum oxide without calcination	CHEMCON 2016, held at A.C.Tech, Anna University, Chennai, during 27 <sup>th</sup> -30 <sup>th</sup> December	Kishore Kumar M J, Jagannathan T K
5	Synthesis of PMMA-HNT nanocomposites by ultrasound-assisted mini-emulsion polymerization	"The 69th Annual Session of the Indian Institute of Chemical Engineers, CHEMCON 2016" held at the Chennai Regional	Kezia Buruga, Jagannathan. T.K

		Centre of IChE, Chennai, Tamil Nadu during 27-30 December, 2016.	
6	Sonochemical Synthesis of CTAB modified HNT-polystyrene nanocomposites by solution casting method.	Recent innovations in process engineering and sustainability (RIPES-2016), April 22-23, 2016, MS Sheshgiri's KLE college of Engineering and Technology, Belgaum, Karnataka, India.	Kezia Buruga and Jagannathan.T.K.

### Department of Civil Engineering

Sl.No.	Title of paper	Conference Name, Place, Dates, Page Nos.	Authors(s)*
1	Estimation of Trends in Precipitation distribution using Statistical and Spatial approach	National Conference on Geospatial Technology during 12-13 Jan 2017, Thiruvananthapuram	Mary Rose, Renuka Prasad, Devatha C P
2	Slope stability studies of excavated slopes in lateritic formations	Indian Geotechnical Conference IGC 2016, December 17-18, 2016, IITM Chennai (organized jointly by Guindy Engg. College/Anna University and IIT Madras).	R.Shivashankar, Krishnanunni, K. T., Biji Thomas and D.V. Reddy
3	Geotechnical Engineering for Transportation Infrastructure	National workshop on 'Recent Advances in Geotechnics for Infrastructure (RAGI 2017)', NIE Mysuru, March 25, 2017 Proceedings pp. 33-44, Workshop organized jointly by Association of Consulting Civil Engineers (ACCE), Mysore Chapter; NIE Mysuru and SJCE Mysuru,	R. Shivashankar
4	Monitoring and Forecasting in Construction Projects Using Risk Information Based Time Buffer	The PMI India Research and Academic Conference 2017, IIT Delhi, March 2-4.	Priyadarshini Das, Vishnu S Pillai, Gangadhar Mahesh and Rajasekaran, C.

### Department of Chemistry

Sl. No.	Title of paper	Conference Name, Place, Dates, Page Nos.	Author(s)*
1	Molecular investigation of new Carbazole based Dyes with simple D-A architecture for DSSC application	National Conference on Green Chemistry & Nano Technology Opportunities and Challenges-2017, St. Aloysius College, Mangalore Karnataka, Feb 27-28, 2017.	Rakhi K, Praveen Naik, A. Vasudeva Adhikari

2	Effect of multi-walled carbon nanotubes on electrocatalytic activity of Ni-W alloy electrodes	ICMST-16 held at St. Thomas College, Pala, Kerala during June 5 to 8, 2016.	Liju Elias and A. Chitharanjan Hegde
3	<i>Effect of TiO<sub>2</sub> and Ag nanoparticles on hydrogen energy of Ni-P alloy coatings</i>	National conference on Emerging Materials (CEMAT-2016) held at IISc. Bangalore during 18-19 <sup>th</sup> July, 2016.	Liju Elias, A. Chitharanjan Hegde
4	NRGO-CoWO <sub>4</sub> -Fe <sub>2</sub> O <sub>3</sub> nanocomposite as an efficient photocatalyst for environmental applications.	National Conference on Green Chemistry & Nanotechnology : Opportunities and Challenges. February 27-28, St Aloysius College, Mangalore.	Mohamed Jaffer Sadiq M and Krishna Bhat D
5	Novel NRGO/CuWO <sub>4</sub> nanocomposite as high performance photocatalyst.	National Conference on Green Chemistry & Nanotechnology : Opportunities and Challenges. February 27-28, St Aloysius College, Mangalore.	Pushyaraga P V, Mohamed Jaffer Sadiq M and Krishna Bhat D

**Department of Electrical & Electronics Engineering**

Sl. No.	Title of Paper	Conference Name. Vol. Issue, Date, Page No.s	Author(s)
1	E-field inside 765 kV Substation: Influence of Conductor & Bay Arrangements	National Power System Conference, paper #1570290870, NPSC-2016 held at IIT-Bhubaneswar in 19-21 December 2016.	Swaroop Kishan Singh, G S Puneekar
2	3-phase induction-motor operating on 1-phase supply during load-shedding in rural India: Challenges to suppliers	National Conference on Challenges and Issues in Operation of Competitive Electricity Markets (CIOCEM-2016), at CPRI, Bengaluru India, Dec 8 - 9, 2016.	Gururaj S Puneekar, G Durga Pawan Mahidhar, Japit K Ranjit, Jitin Antony, Nitin R K, and Datta Kiran
3	Grid connection to CPP in a deregulated electricity market: A case study related to fault current levels	National Conference on Challenges and Issues in Operation of Competitive Electricity Markets (CIOCEM-2016), at CPRI, Bengaluru India, Dec 8 - 9, 2016.	Akshata A Kotharkar and Gururaj S Puneekar
4	On estimation of Rate of Change of Frequency for relay settings during power export to grid from a CPP	National Conference on Challenges and Issues in Operation of Competitive Electricity Markets (CIOCEM-2016), at CPRI,	Srikanth Bhatt N, Gopi Krishna Menon and Gururaj. S. Puneekar,

		Bengaluru India, Dec 8 - 9, 2016.	
5	Monte Carlo Methods for Electric Field Computations: Comparative Study	Proceedings of National Conference on High Voltage Engineering and Technology (NCHVET), CPRI-Bangalore, 2017, P. 101.	Harimurugan D, Gururaj S Punekar and N K Kishore
6	On location Identification of AEPD Source	Proceedings of National Conference on High Voltage Engineering and Technology (NCHVET), CPRI-Bangalore, 2017, P. 1402.	Gururaj S Punekar, Kallapu Jyosthna and Deepthi Antony

**Department of Metallurgical & Materials Engineering**

Sl. No.	Title of paper	Conference Name, Place, Dates, Page Nos.	Month & Year	Author(s)*
1	Flow Accelerated Corrosion at 304 Stainless Steel Pipeline Elbow in Oil Field Water	National Tribology Conference 2016, IIT (BHU), Varanasi.	8 - 10 December, 2016	T. S. Ajmal, T. Baskaran, K. R. Udupa, S. B. Arya
2	Tensile properties and tensile fracture characteristics of ECAP processed Al-5Zn-2Mg alloy	54th National Metallurgists Day & 70th Annual Technical Meeting of the Indian Institute of Metals, Dept. of Materials Science and Engineering, IIT Kanpur.	11th to 14th Nov 2016	Manjunath G. K., Preetham Kumar G. V. and Udaya K. Bhat

**Department of Mechanical Engineering**

Sl. No.	Title of Paper	Conference Name, Place, Dates, Page Nos.	Authors
1	Numerical Simulation of Two-Dimensional Flow over a Stationary Circular Cylinder Using Feedback Forcing Scheme Based Immersed Boundary Finite Volume Method	ChEmference 2016, Annual Research Symposium in Chemical Engineering, December 2016, IIT Gandhinagar, India	R. Maniyeri

**Department of Mining Engineering**

<b>Sl. No.</b>	<b>Title of paper</b>	<b>Conference Name, Place, Dates, Page Nos.</b>	<b>Author(s)*</b>
1	Application of Solar Energy in open cast mine- A case study	Recent Practices and Innovations in Mining Industry, NIT Raipur, 19 <sup>th</sup> -20 <sup>th</sup> Feb,2016	Abhishek Kumar Tripathi, Ch.S.N.Murthy
2	Methods of reliability prediction for heavy earth moving machineries in surface mine	Department of Mechanical Engineering, College of Engineering Thalassery, Kerala on 8th and 9th August, 2016.	Harish Kumar N S, R. P. Choudhary and Ch. S. N. Murthy
3	Usage of Bio Fuels for Mining Application, A Review”,	Proceedings of Sixth Annual Rock Conference – INDOROCK 2016, June 17-18, IIT, Bombay, India, pp 1001-1009.	Ravindra M, M. Aruna and Harsha Vardhan (2016):
4	Relevance of 2-Leg Chock Shields in Indian coal mine roof conditions –	A case study of sccl with numerical modelling & field monitoring, Nat. Conf. Longwall Mining, Organized by The Singareni Collieries Co. Ltd., Hyderabad, April 14, 2016.	V.R.Sastry
5	Importance of Mining Industry in the Current Socio-Economic and Environment Scenario	National Conference of Sustainable Mining Practices (SMP-2016). Dec 2-3, 2016 at NIT Rourkela	Choudhary R. P.
6	The Socio-Economic and Environmental Impacts of Mining in India and The Need For Sustainable Development	National Conference on “Health, Safety and Environment issues in Mining”, at Jodhpur, Dec 19, 2016	Choudhary R. P

**Department of Physics**

<b>Sl. No.</b>	<b>Title of paper</b>	<b>Conference Name, Place, Dates, Page Nos.</b>	<b>Author(s)*</b>
1.	Preparation and characterization of indium telluride thin films	4 <sup>th</sup> National conference on condensed mater physics and applications, Manipal, May 23-24, 2016, p-62	Vallem Sowjanya, Kasturi V. Bangera, G. K. Shivakumar
2.	Growth and characterization of spray deposited gallium doped SnO <sub>2</sub> thin films	4 <sup>th</sup> National conference on condensed mater physics and applications, Manipal, May 23-24, 2016, p-66.	M. S. Preethi, S. P. Bharath and Kasturi V. Bangera.
3	Polyoxometalates for Nonvolatile Memory	National Symposium on Nano Science and Technology (NSNST-2016), CeNSE,	Khandoji Chetan, Sterin N. S.,

	Applications	IISc Bangalore, June 29-30, 2016.	Debaprasad Shee, Partha P. Das, Sib Sankar Mal
4	Variational Calculation of Energy of Exciton Confined in Spherical Quantum Well	4th National Conference on Condensed Matter Physics and Applications, MIT Manipal, India, May 23-24, 2016.	Vijeth, S. A. Dsouza, P. P. Das, S. S. Mal
5	Synthesis and Characterisation of Graphene OxidePolyoxometalate Composite Materials for Device Applications	4th National Conference on Condensed Matter Physics and Applications, MIT Manipal, India, May 23-24, 2016.	Khandoji Chetan, Sterin N. S., M. N. Satyanarayana, Debaprasad Shee, Partha P. Das, Sib Sankar Mal
6	Dopamine sensing properties of MnO <sub>2</sub> nanowires prepared by hydrothermal method	Think Nano-2016, IISc Bangalore, 31 <sup>st</sup> March to 1 <sup>st</sup> April 2016	Sreejesh M, Aarathy A. R, Dhanush S, Ramesh M,

**Department of School of Management**

Sl. No.	Title of paper	Conference Name, Place, Dates, Page Nos.	Author(s)*
1	Can Emotional Intelligence Help a Leader to be Creative	26 <sup>th</sup> Annual Conference of National Academy of Psychology (NAOP). Held at IIT Madras (IITM) during 29-31 <sup>st</sup> December 2016.	Menon.N & Kumar, S. P.
2	ICT Investments and Growth of Small and Medium Firms: A study of Food Processing Industry in India	11 <sup>th</sup> Annual Conference of the Forum for Global Knowledge Sharing in partnership with Tata Trusts held during 3-5 December, 2016 at IIT Madras.	Navyashree G. R. &Bhat, S.
3	The impact of credible online reviews on purchase intention: the mediating roles of brand equity dimensions	12 <sup>th</sup> SIMSR Global Marketing Conference organized by K J Somaiya Institute of Management Studies & Research held during 9-10 February, 2017 at Mumbai.	Chakraborty, U. &Bhat, S.
4	Do credible online reviews affect brand equity? A mixed method approach	IMRDC 2016-17 held during 12-12 January, 2017 at IIM Bangalore, Bangalore.	Chakraborty, U. &Bhat, S.
5	Implications of Energy Subsidy Reforms in India,	Presented at 53 <sup>rd</sup> annual conference of the The Indian Econometric Society (TIES) at National Institute of Science Education and Research (NISER), Khordha, Odisha, from 22nd to 24th December, 2016.	Rajesh Acharya H Anver Sadath C

6	Investment and Exchange Rate: Firm Level Evidence from India,	Presented at the two day national conference on 'Globalising the Finance?' organized by Department of Economics, Pondicherry University, from 10 to 11 April, 2017.	Rajesh Acharya H Anver Sadath C
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## 14 TECHNICAL EVENTS

### Department of Applied Mechanics and Hydraulics

#### STTPs/Schools/Conferences/Seminars/Workshops etc.

Type of event	Name of event	Dates & Duration	Sponsor (s)	Co-ordinator
Workshop	Satellite Remote Sensing based Societal Applications	June 30 <sup>th</sup> 2016	ISRO, Bengaluru	Amba Shetty, Ph.D.
CEP	Advanced Surveying, Total Station, GIS, GPS & Mapping	July 25-29 2016	Engineering Staff College, Krishnarajasagara	Amba Shetty Ph.D.
Training Programme	Mike 21 Software	August, 22-26 2016	AMD, NITK	T.Nasar Ph.D.
CEP	Flood forecasting, flood routing and emergency preparedness of reservoir	Sept. 19-23, 2016	Engineering Staff College, Krishnarajasagara	Ramesh H. Ph.D.
Workshop	Rainfall Run off-Modelling	Sept. 26-30, 2016	TEQIP-II	B.M.Dodamani Ph.D.
Workshop	Coastal Hydrodynamics and modelling'	Oct. 7 <sup>th</sup> 2016	TEQIP-II	T.Nasar Ph.D. & Subba Rao Ph.D.
Workshop	Microwave Remote Sensing	Oct.17-18 2016	TEQIP-II	Amba Shetty Ph.D.
GIAN Course	Offshore Renewable Energy (Wave, Wind and Tidal Energy)	November,7 - 11, 2016	MHRD, New Delhi	Debabrata Karmakar Ph.D.
GIAN Course	Geo statistical Analysis of Environmental Data	December 05-09, 2016	MHRD, New Delhi	Amba Shetty Ph.D.
Workshop	Prakriti Infocus	Feb. 4 <sup>th</sup> 2017	TEQIP-II	Pruthviraj U. Ph.D.
Workshop	Past, present and future scenarion in Marine Structures	Feb.20 <sup>th</sup> 2017	TEQIP-II	T.Nasar Ph.D.& Debabrata Karmakar Ph.D.

**Foreign Visitors to Department**

<b>Name of the Visiting Faculty/ Expert</b>	<b>Designation/ University/Institute/ Organisation</b>	<b>Place</b>	<b>Purpose</b>	<b>Dates of visit</b>
Dr. G. Muralidharan	Professor, Centre for Marine Technology and Ocean Engineering , Instituto Superior Tecnico, Universidade de Lisboa	Portugal	Visited and delivered a expert lecture on 'Probabilistic models of wave parameters'	April 08, 2016
Prof. Jeffrey Walker	Head, Dept. of Civil Engineering, Monash University, Melbourne	Australia	Visited and delivered a expert lecture on 'Hydrologic Remote Sensing and Modelling' : Activities at Monash University'	Sept.15, 2016
Prof. Tomoki Ikoma	Professor at the Department of Oceanic Architecture and Engineering, College of Science and Technology, Nihon University	Japan	Visited as a Expert faculty for the GIAN programme 'OFFSHORE RENEWABLE ENERGY (WAVE, WIND AND TIDAL ENERGY)	Nov. 7-11, 2016
Mr. Aditya Nayak	Research Scholar, Harbour Branch Oceanographic Institute, Florida	USA	Visited and delivered a expert lecture on 'Coastal flow & marine particile characterization using novel imaging techniques	Dec. 02, 2016
Dr. Pierre Goovaerts	Chief Scientist, Bio-Medware Inc., Courtesy Associate Professor, Soil and Water Science Department, University of Florida	USA	Visited as a Expert faculty for the GIAN programme 'Geo statistical Analysis of Environmental Data'	Dec. 5-9, 2016
Dr. Pierre Goovaerts	Chief Scientist, Bio-Medware Inc., Courtesy Associate Professor, Soil and Water Science Department, University of Florida	USA	Visited an given a expert talk on (i) Predicting the probability of remaining elevated lead levels in flint drinking water : The first geospatial model (ii) Thoughts of an associated editor on the preparation of scientific manuscripts.	Dec. 20, 2016

**Indian Visitors to Department**

<b>Name of the Visitor</b>	<b>Designation &amp; Affiliation</b>	<b>Purpose of visit</b>	<b>Date of visit</b>
Dr. S.C. Kar	Scientist G, MoES, Noida	Visited for Viva-voce exam and Interaction with faculty and students of the Dept	April 21, 2016
Prof. P.D. Porey	Prof. of Civil Engineering, SVNIT, Surath	Visited for Viva-voce exam and Interaction with faculty and students of the Dept	May 09, 2016
Prof. S.K.Mishra	Professor, Dept. of Civil Engg., IIT, Roorkee	Visited and given a guest lecture titled 'Advances in SCS-CN Methodology'	May 13, 2016
Dr. Debabrata Sen	Dept. of Ocean Engineering & Naval Architecture, IIT, Kharagpur	Visited for Viva-voce exam and and given a talk on 'Wave Effects on Ships and Offshore Structures : An Overview and Some Present Research'	June 20, 2016
Dr. G. Jagadeesh	Professor, Dept. of Aerospace Engineering, IISc., Bengaluru	Resource Person for the workshop on "Satellite Remote Sensing based Societal Applications"	June 30, 2016
Dr. Seelam Jayakumar	Principal Scientist, NIO Goa	Surfzone Process and sediment transport	Aug. 16, 2016
Dr. Susant Kumar Misra	Sr. Marine Engineer The Academy, DHI, New Delhi	Training programme for Mike 21 software	Aug. 22-26, 2016
Mr. Jinesh Kumar V	Marine Engineer The Academy, DHI, New Delhi	Training programme for Mike 21 software	Aug. 22-26, 2016
Dr.T.N.Singh	Professor, Dept. of Earth Sciences, IIT Bombay	Visited for Viva-voce exam and Interaction with faculty and students of the Dept	Aug. 29, 2016
Dr. K.P.Sudheer	Professor, IIT Madras	Visited for Viva-voce exam and Interaction with faculty and students of the Dept	August 02, 2016
Mr. Chandra mohan V.R	Senior Engineering, AOCEM, Behrain	Visited and given a talk on 'Project initiation – implementation'	August 07, 2016
Dr. Sannasiraj	Professor, IIT Madras	Given a talk on 'short-term offshore wind speed forecasting Using buoy observations And Regional scale wind resource assessment Based on scatterometer data'	August 26, 2016
Dr. T.G.Sitharam	Professor, Dept. of Civil Engg., IISc., Bengaluru	Topic 'Innovative sea based reservoir to impound Netravathi river flood waters : An initiative for sustainable water management'	Oct. 03, 2016
Dr. R.Balaji	Professor, IIT, Madras	Visited as a Resource person for the workshop 'Coastal Hydrodynamics and modelling'	Oct. 07, 2016
Dr. V.Sriram	Professor, IIT,	Visited as a Resource person	Oct. 07, 2016

	Madras	for the workshop 'Coastal Hydrodynamics and modelling'	
Dr. M.Behera	Professor, IIT, Bombay	Visited as a Resource person for the workshop 'Coastal Hydrodynamics and modelling'	Oct. 07, 2016
Dr. Y.S.Rao	Professor, Centre of Studies in Resources Engineering (CSRE), IIT, Bombay	Visited as a Resource person for the workshop 'Microwave Remote Sensing'	Oct. 17 & 18, 2016
Mr. Vineet Kumar	Research Scholar, Centre of Studies in Resources Engineering (CSRE), IIT, Bombay	Visited as a Resource person for the workshop 'Microwave Remote Sensing'	Oct. 17 & 18, 2016
Dr. K.P.Sudheer	Professor, IIT, Madras	Visited for Viva-voce exam and Interaction with faculty and students of the Dept	Oct. 24, 2016
Prof. Usha Nateshan	Advisor-I, AICTE, New Delhi	Visited for Viva-voce exam and Interaction with faculty and students of the Dept	Oct. 27, 2016
Dr.. V.Jyothi Prakash	Professor, IIT, Bombay	Visited for Viva-voce exam and given a expert lecture on 'Research Methodology'	Oct. 28, 2016
Dr. D.Nagesh Kumar	Professor, IISc., Bengaluru	Visited for Viva-voce exam and given a talk on 'Remote Sensing and GIS for Irrigation Management'	Nov. 01, 2016
Dr. Ramana Murthy	Head, ICMAM	Visited and given a talk on given programme on 'offshore renewable energy (wave, wind and tidal energy)'	Nov. 07, 2016
Dr. K.P.Sudheer	Professor, IIT Madras	Visited for Viva-voce exam and Interaction with faculty and students of the Dept	Jan. 11, 2017
Dr. L. Noarayanan	Professor & Head Dept. of civil Engg., Shanmuganathan Engg. College, TN	Visited and given a talk on 'Structural aspects of coastal vegetation for the attenuation of Tnusami' and 'Harnessing of wave energy by point absorber'	Jan.16, 2017
Prof. V.Sundar	IIT, Madras	Visited as a Resource person for the workshop and given talk on 'Coastal erosion and protection including extreme events – Part A & Part B'	Jan. 19-20, 2017
Dr. Amresh Negi	IRS Mumbai	Visited as a Resource person for the workshop and given talk on 'Hydrodynamic load computation'	Jan.19-20, 2017
Dr. Yogendra Parihar	IRS Mumbai	Visited as a Resource person for the workshop and given talk on 'Direct sea-keeping loads	Jan.19-20, 2017

		application on ship/offshore structure'	
Prof. K.Murali	IIT, Madras	Visited as a Resource person for the workshop and given talk on ' Numerical modelling of casual processes' & CFD application in Ocean Engineering'	Jan.19-20, 2017
Prof. M.C.Deo	IIT, Bombay	Visited as a Resource person for the workshop and given talk on ' Use of soft and hard computing in marine hydrodynamics and in climate change studies'	Jan.19-20, 2017
Mr Samad Kottur	Co-Author:Daroji: An Ecological Destination	Visited as a Resource person for the workshop 'Prakruti Infocus'	Feb. 04, 2017
Dr. K. V. Gururaja	Batrachologist,Chief Scientist-GubbiLabs LLP	Visited as a Resource perso for the workshop 'Prakruti Infocus'	Feb.04, 2017
Mr. Shiva Shankar	Co-Author:Birds of Southern Coastal KAR	Visited as a Resource person for the workshop 'Prakruti Infocus'	Feb.04, 2017
Mr. Maria Christu Raja D	, IFS, DCF, Kudremukh Wildlife Division, Karkala	Visited as a Resource person for the workshop 'Prakruti Infocus'	Feb. 04, 2017
Mr.Chethan S	Software Consultant, HEXAGON, Hyderabad	Visited and given a talk on An Overview of Hexagon	Feb.10, 2017
Dr. M.C.Deo	Professor, IIT Bombay	Visited for Workshop on 'Past, present and future scenarion in Marine Structures'	Feb.20, 2017
Dr. M.D. Kudale	Director, CWPRS, Pune	Visited for Workshop on 'Past, present and future scenarion in Marine Structures'	Feb.20, 2017
Dr. M.Baba	Director, CESS, Tiruvananthapuram	Visited for Workshop on 'Past, present and future scenarion in Marine Structures'	Feb.20, 2017
Dr. M.M.Kamath	Retd. Chief Engineer, NMPT	Visited for Workshop on 'Past, present and future scenarion in Marine Structures'	Feb.20, 2017
Dr. J.Dattatri	Retd. Professor, KREC	Visited for Workshop on 'Past, present and future scenarion in Marine Structures'	Feb.20, 2017
Dr. K.Ramamurthy	Retd,. Professor, KREC	Visited for Workshop on 'Past, present and future scenarion in Marine Structures'	Feb.20, 2017
Dr. N.Bhavani Shankar Rao	Retd. Professor, KRE	Visited for Workshop on 'Past, present and future scenarion in Marine Structures'	Feb.20, 2017

**Department of Chemical Engineering**

Type Of Event	Name Of Event	Dates & Duration	Sponsor(S)	Coordinator(S)
Dr. IMRE SALLAY, Chief Integrational Chromatography business, Daiso Co.Ltd., Japan	Guest Lecture	April 01, 2016	NITK, Surathkal	Raj Mohan B, Ph.D. HOD, Chemical Engg
Two day seminal	Inclusive green growth, institutional innovations, environmental policy and Implications for employment generation with special reference to Dakshina Kannada	April 22-23 2016	NITK, Surathkal	Raj Mohan B, Ph.D. HOD, Chemical Engg
One Day Workshop	E-Waste Management	August 26 <sup>th</sup> , 2016	NITK, Surathkal	Raj Mohan B, Ph.D. HOD, Chemical Engg
Three Day Workshop	“Nano-structured materials and their applications in Catalysis & Fuel Cells”	September 29 <sup>th</sup> –October 1 <sup>st</sup> , 2016	TEQIP II	ari Prasad Dasari, Ph.D. Hari Mahalingam, Ph.D.
Prof. M.G. Subba Rau Lecture Series 2016	Special Lecture	February 10 <sup>th</sup> , 2017	NITK, Surathkal	Raj Mohan B, Ph.D. HOD, Chemical Engg.
Workshop	Workshop on Modeling and Scale up of Bioreactors	24-25 March 2017 (Two days)	TEQIP II	G. Srinikethan, Ph.D. Vidya Shetty K, Ph.D.

**Foreign Visitors To Department**

Name Of Visitor	Designation & Affiliation	Purpose Of Visit	Dates Of Visit
Prof. Piet Lens	Professor UNESCO-IHE	GIAN Programme	May 16 - 21, 2016

**Indian Visitors to Department**

Name Of Visitor	Designation & Affiliation	Purpose Of Visit	Dates Of Visit
Dr. Benjaram	Chief Scientist & Head,	Guest Lecture,	September 29– 30

Mahipal Reddy	Inorganic & Physical Chemistry Division CSIR-IICT, India	Nano structured Materials and their applications in catalysis and fuel cells.	2016
Dr. Rajendra Natha Basu	Chief Scientist & Head, Fuel Cell & Battery Division CSIR-Central Glass & Ceramic Research Institute, Kolkata India	Guest Lecture, Nano structured Materials and their applications in catalysis and fuel cells	September 30- October 1, 2016
Dr. Muthsamy Sivakumar	Nanoscience and Technology BIT Campus Anna University Tamilnadu India	Guest Lecture, Nano structured Materials and their applications in catalysis and fuel cells	September 29- October 1, 2016
Mr. Krishnappa	Joint General Manager Quality Control & Environment, Mangalore Chemical and Fertilizer Limited.	Guest Lecture, Environment Management system in a Fertilizer Industry".	March 21, 2017
Dr. Girish Rao	Senior Manager, Shell R & D Lab, Bangalore	Guest lecture, Innovation from the refiner to the road	Jan 20, 2017
Mrs. Mallika Nataraj	Senior Research Scientist, Synegene International Limited, Bangalore	Guest Lecture, Application of r-DNA Technology in Biopharma industries	March 4, 2017

### **Department of Civil Engineering**

#### **STTPs/Schools/Conferences/Seminars/Workshops/ etc.**

<b>Type of event</b>	<b>Name of event</b>	<b>Dates &amp; Duration</b>	<b>Sponsor(s)</b>	<b>Coordinator</b>
GIAN Course	Engineering Analysis and Design of Rigid Pavements	July 25-29, 2016	MHRD, GoI	Suresha S.N. , Ph.D.
Workshop	Advanced Technologies for Waste Management	October 6-8, 2016 (3 Days)	TEQIP-II	Devatha C P, Ph.D. & Arun Kumar Thalla, Ph.D.
Workshop	Disaster Management	March 13, 2017	IE(I) _ Mangalore & IE(I), Tripura State Centre	Sunil B.M. , Ph.D.
Workshop	Continuing Education Programme on "DESIGN OF HIGHWAY AND CONSTRUCTION OF FLEXIBLE	October, 24-28 2016, (5 Days)	Sponsored by Engineering Staff College, Krishnarajasagara	Sunil B.M, Ph.D. & Raviraj H.Mulangi, Ph.D.

	AND RIGID PAVEMENTS " For Working Engineers from Karnataka Public Works and Irrigation Departments.			
International Symposium	International Symposium on Lowland Technology ISLT)	September 15-16, 2016	TEQIP & Instt. of Lowland & Marine Research (ILMR)	R. Shivashankar, Ph.D. Subhash C. Yaragal, Ph.D. & B. M. Sunil, Ph.D.
Lecture Series	Asian Lecture Series	September 10-18, 2016	ILMR Saga University	R. Shivashankar, Ph.D. Sitaram Nayak, Ph.D.
Workshop	Sustainable Urban Transportation	October 3, 2016 (one Day)	TEQIP-II	A.U.Ravi Shankar, Ph.D. & Raviraj H.Mulangi, Ph.D.
Workshop	Design and Development of Sustainable Concrete in the Era of Global Warming	January 9 -10, 2017	TEQIP-II	B. B. Das, Ph.D.

### Foreign Visitors to Department

Name of visitor	Designation & Affiliation	Purpose of visit	Dates of visit
Dr. Neeraj Buch	Associate Dean for Undergraduate Studies Professor of Civil & Environmental Engineering 428 S.Shaw Lane, 1415 EB Michigan State University East Lansing, MI 48824	To deliver lectures under MHRD-GIAN Programme titled "Engineering Analysis and Design of Rigid Pavements"	July 24-29, 2016
Mr. Dereje Sebesible	Civil Engineer California Department of Transportation (CALTRANS), USA	Expert Lecture "Challenge of moving vehicles, people safely and efficiently during construction in California"	March 09-14, 2017
Mr. Dr. Suresh	Principal and Managing Director of RWDI, Trivendrum.	To deliver Expert Lecture on "Confusing the wind: A way to build	Jan. 06,2017

	And also Senior Wind Engineering Consultant	slender tall buildings”	
Mr. Tomson Akkara	Consultant RWDI, Mumbai	To deliver Expert Lecture on “Wind Engineering”	Jan. 06, 2017
Prof. T. Hino	Institute of Lowland and Marine Research (ILMR) Saga Univ. Japan	Asian Lecture Series & Int. Symposium on Lowland Technology (ISLT)	Sept. 10-18, 2016
Prof. J. C. Chai	Dept of Civil Engg., Saga Uni. Japan	Invited speakers at (ISLT), Delivered the Miura lecture on topic “Consolidation analysis of clay deposits with vertical or horizontal drains”	International Symp on Lowland Technology (ISLT) Sept. 15-16, 2016
Prof. Nobuo Mishima	Institute of Lowland and Marine Research (ILMR) Saga Univ. Japan	Asian Lecture Series & invited lecture at ISLT “Urban design attempts with community for a resilient traditional local town in Lowland”	Sept. 10-18, 2016
Prof. Tri Harianto	Professor of Civil Engg., Hasanuddin University, Indonesia	Invited speakers at International Symp on Lowland Technology (ISLT)	Sept. 15-16, 2016
Prof. Suksun Horpibulsuk	Professor of Civil Engg., Suranaree Uni. of Technology (SUT), Thailand	Invited speakers at International Symp on Lowland Technology (ISLT)	Sept. 15-16, 2016
Prof. J. P. Walker	Chairman, Dept. of Civil Engg., Monash Uni., Australia	Invited speakers at International Symp on Lowland Technology (ISLT): Observationally constrained flood forecasting in lowland areas	Sept. 15-16, 2016
Prof. D. T. Bergado	Asian Institute of Technology (AIT), Bangkok, Thailand	Invited speakers at International Symp on Lowland Technology (ISLT): Environmental improvement of geo-disasters due to climate change	Sept. 15-16, 2016
Prof. Y. Mishima	Saga University,	Asian Lecture Series	Sept. 10-18, 2016

National Institute of Technology Karnataka, Surathkal

	Japan	& invited lecture at ISLT	
Prof. Panich Voottipruex	King Mongkut Uni. of Technology (KMUT), Thailand	Asian Lecture Series & invited lecture at ISLT	Sept. 10-18, 2016
Dr. Rishi Gupta	Assistant Professor, Dept. of Civil Engg., University of Victoria, CANADA	Expert Lecture on Innovative and Low Carbon Footprint Materials and Infrastructure Monitoring	March 16, 2017
Dr. Paloma Pineda	Professor, University of Seville, Spain	Expert Lecture on Eco-efficient Structures in Seismic Areas - the Challenge of Merging Sustainability and Safety	March 20, 2017
Dr. Michel Torrijos	Head of Technology Transfer Group, INRA-LBE, Narbonne, FRANCE	Lectures on “Waste to Energy Technologies”	July, 12 to 13 2016
Mr. Toshihiro Morita	ILMR Saga University, Japan	Asian Lecture Series	Sept. 10-18, 2016
(i)Mr. Toshiyuki Himeno (Japanese) (ii)Mr. Yuki Nagao (Japanese) (iii)Mr. Yutaro Hidaka (Japanese) (iv) Ms. Rina Sakai (Japanese) (v) Mr. Takashi Tohyama (Japanese) (vi)Ms. W. Pongkarn (Thai) (vii)Ms. Preeti Pokhrel (Nepalese) (viii)Ms.KhaingMyint Mo (Myanmarese) (ix)Mr. Derbel Mohamed Rami (Tunisian) & others	All International PG students from Saga University, Japan	Asian Lecture Series	Sept. 10-18, 2016

**Indian Visitors to Department**

<b>Name of visitor</b>	<b>Designation &amp; Affiliation</b>	<b>Purpose of visit</b>	<b>Dates of visit</b>
Prof S K Sharma	Professor & Head, Dept Of Mining Engineering, IITBHU, Varanasi.	Expert Lecture on “Convergence of technology in infra engineering sectors”	Feb. 03, 2017
Dr. A.N. Vyas	Professor, Dept. of Civil Engg., MNIT, Jaipur	Expert Lecture on Use of ISF slag for Sustainable concrete constructions	Feb. 14, 2017
Dr. Prasanta Kumar Sahu	Asst. Professor, Dept. of Civil Engg., BITS, PILANI	Expert Lectures on (M.Tech - CTM & Trans)	March 20 - 21, 2017
Dr. Chanakya HN	Chief Research Scientist & Adjunct Professor, Center for Sustainable Technologies, IISc Bangalore	Expert Lecture on “Biogasification Technology- Developments in the Past Decade”	October, 8 2016
Dr. Babu Alapatt	Professor, Civil Engineering, IIT Delhi	Expert Lecture on “Incineration & Plasma Gasification- Suitability & selection Criteria”	October 7, 2016
Dr. Gangagni Rao	Chief Scientist, Indian Institute of Chemical Technology, Hyderabad	Expert Lecture “ Design, Operation and Troubleshooting of Anaerobic Digesters”	October 7, 2016
Dr. Anurag Garg	Associate Professor, CES, IIT Bombay	Expert Lecture on “ AOP for Micropollutants Removal”	October 8, 2016
Shri Thirumurthi	Scientist D, Central Pollution Control Board, Bangalore	Expert Lecture on “ Current Status/State of Waste Management in INDIA”	October 6, 2016
Dr. Lakshmikantha	Karnataka State Pollution Control Board	Vision Mangaluru – 2030 : Environmental Aspects	October, 20 2016
Er.Sandeep Rao	Consulting Engineer, Surathkal	Opportunities for Environmental	January 13, 2017
Dr. Ravi M.R.	Karnataka State Pollution Control Board	Economic Development V/s Environment -	February, 01 2017
		Application of Economic Tools in	February 02, 2017
Dr. L.K.Mishra	Associate Professor,	Advances in Concrete	February 20, 2017

	MNNIT Allahabad	Construction and Engineering for Sustainable Development	
		Smart Cities - An Inclusive Urban Development Concept	21 February 2017
Prof. M.R.Madhav	Formerly Prof at IITK, Now visiting Prof. IITH & JNTUH	Asian Lecture Series & ISLT	Sept. 10-18, 2016
Prof. G. L. Sivakumar Babu	Professor of Civil Engg., IISc Bangalore (President of the Indian Geotechnical Society)	ISLT invited lecture (Response of geocell reinforced pavements under repeated loading) + ASCE-NITK	Sept. 15-16, 2016
Prof. M. S. Mohan Kumar	Professor of Civil Engg., IISc Bangalore	Asian Lecture Series & ISLT	Sept. 10-18, 2016
Prof. M. Sekhar	Professor of Civil Engg., IISc Bangalore	ISLT invited lecture (Lowlands & Groundwater: Emerging Issues in India)	Sept. 15-16, 2016
Prof. J. T. Shahu	Professor of Civil Engg., IIT Delhi	ISLT invited lecture (Geosynthetic reinforced subgrades)	Sept. 15-16, 2016
Prof. R. Shankar	Geology Department, Mangalore Uni.	ISLT invited lecture (Paleoclimate from environmental magnetic studies of sediment cores)	Sept. 15-16, 2016
Prof. B. R. Singh	BIT Misra	ISLT invited lecture	Sept. 15-16, 2016
Mr. U. K. Guru Vittal	HOD and Chief Scientist (Geotechnical Engg.) CRRI Delhi	ISLT invited lecture: "Performance evaluation of urban roads built in lowland environment"	Sept. 15-16, 2016
Prof. Sanaga Srinivasulu	JNTUH India/Saga University Japan	Asian Lecture Series	September 10-11, 2016
Prof. Gopal Mugeraya	Director NIT Agartala	Chief Guest of Workshop on Disaster Management	March 13, 2017
Er. Jibesh Dutta	IEI, Tripura State Centre	Expert lecture on Disaster Management	March 13, 2017
Dr. Rajib Saha	IEI, Tripura State Centre	Workshop on Disaster Management	March 13, 2017

**Department of computer Engineering**

**STTPs/Schools/Conferences/Seminars/Workshops, etc.**

Type of Event	Name of Event	Dates & Duration	Sponsor (s)	Coordinator(s)
Expert	"Computer Vision/	April 04,		Mrs. Vani M.,Jeny

Type of Event	Name of Event	Dates & Duration	Sponsor (s)	Coordinator(s)
Lecture	Image Processing”	2016		Rajan, Ph.D.
Advance Level Course	“Semantic Web”	April 11-15, 2016	A GIAN (MHRD, Govt. of India)	K. Chandrasekaran, Ph.D.
A meeting / get-together	Dr. Sven Groppe, University of Lubeck, Germany	April 18, 2016		K. Chandrasekaran, Ph.D.
Workshop	“Power Architecture”	April 18-19, 2016	IBM	Basavaraj Talawar, Ph.D.
Workshop	“Open-source Network Experimentation (ONE-2016)”	July 6 – 8, 2016		B. R. Chandavarkar, Ph.D. and Mohit P. Tahiliani, Ph.D.
Lecture cum demo session	“Consolidation & Virtualization of Server Infrastructure” by Mr. Anantha Raghava from Ezatech Consulting Services & Solutions, Bangalore	September 16, 2016		
Research Symposium	“Computing Conclave of NITs (CoCoNITS -2016)”	October 14-16, 2016		K. Chandrasekaran, Ph.D.
Advance Level Course	“Software Mining and Analysis”,	October 17-21, 2016	A GIAN (MHRD, Govt. of India)	K. Chandrasekaran, Ph.D.
National workshop	Information Security & Cryptography (ISC'16)”	October 24-28, 2016		Alwyn R. Pais, Ph.D. and P. Santhi Thilagam, Ph.D.
Expert lecture	“Cloud Computing application setup: A simple industry approach” by Mr.Nagaraja Sundaresan, Applications Developer, ORACLE, Bangalore	November 2, 2016		Annappa, Ph.D.
Advance Level Course	“Practical Biological Signal Analysis”	November 21-25, 2016	A GIAN (MHRD, Govt. of India)	K. Chandrasekaran, Ph.D.
Faculty Development Programme (FDP)	“Pervasive and Mobile Computing	December, 05-14, 2016	A DeitY, HRD division, Ministry of ICT, Govt. of India	K. Chandrasekaran, Ph.D.

### Foreign Visitors to Department

<b>Name of the Visitor</b>	<b>Designation &amp; Affiliation</b>	<b>Purpose of visit</b>	<b>Date of Visit</b>
Dr. Sven Groppe	University of Lubeck, Germany	A meeting / get-together	April, 18 2016
Dr. Palaniappan Ramaswamy	University of Kent, U.K	Advance Level Course on "PRACTICAL BIOLOGICAL SIGNAL ANALYSIS",	November 21 -25, 2016
Dr. David Lo	Singapore Management University,	Advance Level Course on "Software Mining and Analysis",	October 17 -21, 2016

### **Department of Chemistry**

<b>Type of Event</b>	<b>Name of Event</b>	<b>Dates &amp; Duration (DD/MM/YY)</b>	<b>Sponsor(s)</b>	<b>Coordinator(s)</b>
A short term course	"Novel Functional Materials for Energy Conversion"	October, 04- 07, 2016 No. of participants: 136.	MHRD under GIAN	A. Vasudeva Adhikari Ph.D.

### **Department of Electronics And Communication Engineering**

<b>Type of Event</b>	<b>Name of Event</b>	<b>Dates &amp; Duration</b>	<b>Sponsor</b>	<b>Coordinator(s)</b>
Workshop	CAPI HW Architecture Overview	April, 18 2016	Self	Department of Electronics And Communication Engineering
Demo	Demo of Benchmark – IOT Trainer Kit	July 22, 2016	Technocomm Instruments Pvt. Ltd.	M Kulkarni, Ph.D.
Short Course	An Introduction to Engineering: Simple Ideas – Major Impact	August 1-5, 2016	GIAN (MHRD)	M S Bhat, Ph.D.
Workshop	Embedded Systems	August 14, 2016	Self	M S Bhat, Ph.D.
Training Program	Visual TCAD	September 22-23, 2016	M/s Cadre Design Systems	M S Bhat, Ph.D.
Workshop	Linear Integrated Circuits - A System Approach	Sept 30- & Octo 01, 2016	TI, Bangalore	U Shripathi Acharya, Ph.D.
Expert Lecture	Control and Guidance of Guided Missiles	November 4, 2016	Self	P Srihari, Ph.D.
Workshop	MSP530 Embedded	Novem 5-6, 2016	TI, Bangalore	Prashantha Kumar H, Ph.D.

	Systems platform			
Advanced Level Course	Practical Biological Signal Analysis	November 21-25, 2016	GIAN (MHRD, Govt. of India)	Shyam Lal, Ph.D.
Workshop	Linearity - Signals, Systems and Control	January 20-22, 2017	Self	Arulalan, Ph.D.
Expert Lecture	Vowel-like Regions and Source Information for Speech Processing	February 3-4, 2017	Self	Department of Electronics And Communication Engineering

### Foreign Visitors to Department

Name of Visitor	Designation & Affiliation	Purpose of visit	Dates of Visit
Prof. Sandeep Gupta	Professor & Chair of Electrical Engineering Systems, University of Southern California, Los Angeles	Short Course Sponsored by GIAN (MHRD) An Introduction to Engineering: Simple Ideas –Major Impact	August 1-5, 2016
Dr. Gunar Schirner	Associate Professor Dept. of Electrical and Computer Engineering, Northeastern University, Boston, USA	Workshop on Embedded Systems	August 14, 2016
Dr Palaniappan Ramaswamy	University of Kent, UK	GIAN (MHRD, Govt. of India) Supported Advanced Level Course on Practical Biological Signal Analysis	November 21-25, 2016
Prof. Cauligi Raghavendra	Professor ECE & Vice Dean, Global Academic Initiatives, Univ. of Southern California, Los Angeles	discuss about joint collaborative opportunities between NITK and USC. He is the key person for initiating academic/research activities and support funded projects under IUSSTF between USC and many Indian universities	December 14, 2016

### Indian Visitors to Department

Name of Visitor	Designation & Affiliation	Purpose of visit	Dates of Visit
Girish Gopala Kurup	IBM	Workshop on CAPI HW Architecture Overview	April 18, 2016
Dr. Abhijit Bhattacharya	Scientist-G, Air Defence, DRDL, Hyderabad	Expert lecture on Control and Guidance of Guided Missiles	November 4, 2016

Prof. Vittal Rao, Dr. Ashok Rao.	Professors IISc	Workshop on Linearity - Signals, Systems and Control	January 20 - 22 2017
Dr. S R Mahadeva Prasanna	Professor, EEE and Dean (R&D), IIT Guwahati	Expert lecture on Vowel-like Regions and Source Information for Speech Processing	February 3-4, 2017

### Department of Electrical & Electronics Engineering

Type of Event	Name of event	Dates & Duration	Sponsor (s)	Co-ordinator
Workshop	System Design (using Piccolo Processor)	March, 25- 26 2017	supported by TI	B. Venaktesaperumal Ph.D.
Workshop	Low Power Drop out Regulator(Power Electronics)", on. CoordinatorDr.B.Venaktesaperumal.	March 24, 2017	supported by TI	B. Venaktesaperumal Ph.D.
Workshop	MSP430	November 5- 6, 2016	supported by TI	B. Venaktesaperumal Ph.D.

### Indian Visitors to Department

Name of Visitor	Designation & Affiliation	Purpose of visit	Dates of visit
Dr H N Nagamani	Additional Director, CPRI Bangalore	For pre synopsis seminar of Mr T Bhavani Shanker (part time PhD registrant from CPRI)	December 16, 2016
Dr. Ilamparithi (Ph.D. from Univ. of Victoria, Canada)	Head, Technical group, OPAL-RT technologies, Bangalore	GUEST LECTURE	Feb. 09, 2017

### Department of School of Management

#### STTPs/Schools/Conferences/Seminars/Workshops, etc

Type of Event	Name of Event	Dates & Duration	Sponsor(s)	Coordinator(s)
Summit of Women Leaders	TIDES - 2016	September 30, 2016 (1 day)	TEQIP	Sheena Ph.D.
Student Exchange Program	International Summer University – 2017	February 19 - 02 March, 2017	NITK	Gopala Krishna B. V Ph.D.
Student Exchange Program	International Summer University – 2016	June – July, 2016	Beijing Institute of Technology, China	Gopala Krishna B. V Ph.D.

**Department of Mathematical & Computational Sciences**

Type of Event	Name of Event	Dates & Duration (DD/MM/YY)	Sponsor(s)	Coordinator(s)
Workshop	"Virtualization" Foundation to Cloud Computing	Jan. 09, 2017, One day	TEQIP II	Jidesh P Ph.D. Pushparaj Shetty D Ph.D.

**Department of Information Technology**

**STTPs/Schools/Conferences/Seminars/Workshops, etc**

Type of Event	Name of Event	Dates & Duration	Sponsor(s)	Coordinator(s)
Workshop	Curriculum Roadmap Preparation for Information Technology- Perspective 2025	Sept. 24, 2016	Rajarambapu Institute of Technology, Islampur, Dist. Sangli, Maharashtra, India	—
Workshop - RDL Technologies, Mangalore	Internet of Things	January 13, 2017	--	Geetha.V,Ph.D.
Workshop - Intel Bangalore	Intel Student Developer Program for Artificial Intelligence "	March 20, 2017	TEQIP II	Ananthanarayana VS, ,Ph.D. Biju R Mohan, ,Ph.D. Mr. Dinesh Naik

**Department Of Mechanical Engineering**

**STTPs/Schools/Conferences/Seminars/Workshops, etc**

Type of Event	Name of Event	Dates & Duration	Sponsor(s)	Coordinator(s)
Workshop	Computational Dynamics	August 26 - 27, 2016	TEQIP-II	Hemantha Kumar Ph.D. and Sharnappa J Ph.D.
Workshop	Advances in Materials and Manufacturing	August 28-30, 2016	TEQIP-II	Mrityunjay R Doddamani Ph.D. and P Jeyaraj Ph.D.
Expert lecture	Expert Lecture on Fluid Mechanics	October 17-18, 2016	TEQIP-II	K P Vishwanath Ph.D. and Ravikiran Kadoli Ph.D.
Workshop	Tribology Frontiers in Design and Manufacturing	October 24-25, 2016	TEQIP-II	M R Ramesh Ph.D. Srikanth Bontha Ph.D. D. Chakradhar Ph.D.
Expert lecture	Mechanobiology- A New Frontier for	December 02-02, 2016	NITK	Arun M Ph.D. Ranjith M Ph.D.

	Mechanical Engineers			
Workshop	Biofluid Dynamics and BioHeat Transfer	December 20-21, 2017	TEQIP-II	Anish S Ph.D. Ranjith M Ph.D. Ajay K Yadav Ph.D. Arun M Ph.D.
Expert lecture	Expert Lecture on Fluid Mechanics	February 22, 2017	Expert Lecture funds	K P Vishwanath Ph.D. and Ravikiran Kadoli Ph.D.
Workshop	Simulation of Manufacturing Processes	February 27, 2017	TEQIP-II	D. Chakradhar Ph.D. Sharnappa J Ph.D. Ramesh M R Ph.D.
Workshop	Laser Processing Of Materials	March 09 11, 2017	TEQIP-II	Srikanth Bontha Ph.D. M. R. Ramesh Ph.D. and Mrityunjay Doddamani Ph.D.
Workshop	Machines and Mechanisms: Kinematics, Dynamics And Computational Tools	March 14 15, 2017	TEQIP-II	Somasekhara Rao Todeti Ph.D.
Workshop	Advances in Stress Analysis and Dynamics	March 16-17, 2017	TEQIP-II	Subashchandra Kattimani Ph.D. S M Murigendrappa Ph.D. and P Jeyaraj Ph.D.
Workshop	Recent Advances and Challaneges in Solar Thermal Systems	March 20, 2017	TEQIP-II	Veershetty G Ph.D. Arumuga Perumal Ph.D. D, Ranjith M Ph.D.
Workshop	Recent Advances in Sustainability	March 21, 2017	TEQIP-II	Somasekhara Rao Todeti Ph.D.
Expert lecture	Constructions on the computer	March 22, 2017	TEQIP-II	Somasekhara Rao Todeti Ph.D.
Expert lecture	Creative Problem Solving – A Systematic Methodology	March 24, 2017	TEQIP-II	Somasekhara Rao Todeti Ph.D.
Expert lecture	Integrated Product Design – Role of Design for Manufacture and Assembly	March 27, 2017	TEQIP-II	Somasekhara Rao Todeti Ph.D.

### Foreign visitors to Department

Name of the visitor	Designation and Affiliation	Purpose of visit	Date of visit
Prof. Shuichi Torii	Graduate School of Science and Technology, Kumamoto University, Japan	Expert Lecture	August 29, 2016 to September 01, 2016
Prof. Dirk	Professor, Unibersity of Bremen,	Advanced	September 28-30,

Lehmhus	Germany	Manufacturing and Materials Workshop	2016
Prof. Gilmar Guimarães	School of Mechanical Engineering, Federal University of Uberlandia-MG, Brazil	Resource person for GIAN course	November 7-11, 2016
Prof. Helcio Rangel Barreto Orlande,	Dept., of Mechanical Engineering, PEM-COPPE, Federal University of Rio de Janeiro-UFRJ, Brazil	Resource person for GIAN course	November 7-11, 2016
Prof. Pavana Prabhakar	Assistnt Professor, University of Wisconsin, Madison, USA	Resource person for GIAN course	December 18-12, 2016
Prof. Jean-Bernard Michel	Professor and Head, Industrial Bioenergy Systems, HEIG-VD, SWITZERLAND	Expert Lecture	November 20-26, 2016
Prof. Prabhakar Ranganathan	Snr. Lecturer, Monash University Clayton, Victoria, Australia	Expert Lecture	December 2-3, 2016

### Department of Mining Engineering

1. A workshop on “Recent Trends in Environment, Health and Safety Management in Mining and Other Core Industries” organized during 27<sup>th</sup> to 28<sup>th</sup> Jan 2017.
2. Two days’ workshop organized on “**Minerals Beneficiation**” ‘during 20-21 February, 2017, sponsored by TEQIP-II.

### Foreign visitors to Department:

Name of visitor	Designation and Affiliation	Purpose of visit	Dates of Visit
Prof. Walker	Head, Dept of Civil Engineering, Monash University, Austrelia	Interact with faculties and Research Scholars	September 14, 2016

### Indian Visitors to Department:

Name of visitor	Designation and Affiliation	Purpose of visit	Dates of Visit
M.K.Sinha Mine Head & Dy. General Manager, Dalmia -	Mine Head & Dy. General Manager, Dalmia - Cement Bharath Ltd.	To discuss about present limestone industry scenario	April, 2016
Edwin Melroy Bivera	Dy. Manager, HR Dalmia - Cement Bharath Ltd	To discuss about present limestone industry scenario	April, 2016

**Department Of Metallurgical & Materials Engineering**

**STTPs/Schools/Conferences/Seminars/Workshops, etc:**

Type of Event	Name of Event	Dates & Duration	Sponsor(s)	Coordinator(s)
GIAN Course	Materials for Advanced Applications and Products	July 11 – 15, 2016	MHRD	A. O. Surendranathan Ph.D.
Workshop	Friction based joining technology-Prospects	October 15, 2016	TEQIP – II	Udaya Bhat K Ph.D.
Workshop	Materials Processing and Degradation	October 17 – 18, 2016	TEQIP – II	Shashi Bhushan Arya Ph.D.
Workshop	Materials for Biomedical & Specialty Applications	January 23 – 24, 2017	TEQIP – II	Anandhan Srinivasan Ph.D.& Saumen Mandal Ph.D.
Workshop	Minerals Beneficiation	February 20 – 21, 2017	TEQIP – II	Dr. M. Rizwanur Rahman

**Foreign Visitors to Department:**

Name of Visitor	Designation & Affiliation	Purpose of visit	Date of visit
Prof. Mark Lindley		Expert Lecture	October 28, 2016
Dr. Rajan Ambat	Professor/ Technical University Denmark	As the Resource Person for a GIAN Course	July 11-15, 2016

**Department of Physics**

Type of Event	Name of Event	Dates & Duration	Sponsor(s)	Coordinator(s)
Short Course	Organic Semiconductors for Microelectronics and Display Applications	30 May – June 3, 2016	MHRD (GIAN)	G. Umesh Ph.D.
One Day Workshop	Topics in Contemporary Physics	February 8, 2017	TEQIP-II, NITK	M.N. Satyanarayan Ph.D.

**Foreign Visitors to Department**

<b>Name of Visitor</b>	<b>Designation &amp; Affiliation</b>	<b>Purpose of visit</b>	<b>Dates of Visit</b>
Dr.Ashutosh Goel	Assistant Professor, Department of Materials Science and Engineering, Rutgers, The State University of New Jersey, U.S.A.	Research Interaction & to deliver expert lecture on Glasses	June 11-13, 2016

**Indian Visitors to Department**

<b>Name of Visitor</b>	<b>Designation &amp; Affiliation</b>	<b>Purpose of visit</b>	<b>Dates of Visit</b>
Dr. Subhas Ghosal	Assistant Professor, BITS - Pilani Hyderabad	To deliver special lecture on the influence of surface morphology on chemical reaction	December 27, 2016
Dr.Anup Keshri	Assistant Professor, Department of Materials Science and Engineering, I.I.T.Patna, Bihar	Research Interaction & to deliver expert lecture on Thermal Spray Coatings	September 7-8, 2016
Prof. A. Ghosh	Senior Professor, Department of Solid State Physics, Indian Association for the Cultivation of Science, Jadavpur, Kolkata	As Indian examiner to conduct Ph.D. Viva Voce of Manoj Kumar N and to deliver an expert lecture on Dynamics of charge carriers in materials	March 15-17, 2017
Prof. Subhasis Ghosh	Professor, School of Physical Sciences, JNU, New Delhi	Graphene based devices: But how to dope graphene	May 18, 2016
Prof. Anjan Kumar Giri	HOD, Physics, IIT Hyderabad	To deliver special lecture on Physics at Small Scales	April 07, 2016
Prof. Anjan Kumar Giri	HOD, Physics, IIT Hyderabad	Research Interaction	April 08, 2016
Prof. Subhabrata Dhar	IIT, Mumbai	To deliver special lecture on Carrier Confinement of 2D Polar Semiconductors	27 <sup>th</sup> May, 2016
Dr. Prasata Chowdhury	NAL, Bangalore		
Prof. K. B. Vijaya Kumar	Mangalore University	To deliver special lecture on Nuclear Particle Physics	14 <sup>th</sup> October, 2016

Prof. Rajesh Kumble Nayak	IISER Kolkata	To deliver special lecture on Gravitational Waves	February 14, 2017
Prof. B. N. Karkera	Former Senior Scientist BARC & Deputy Director, CSIO, Visiting Professor NIAS	To deliver expert lecture on "Apple not Falling Down" GEM of Karkera	March 17, 2017

### CONSULTANCY PROJECTS

#### Department of Applied Mechanics & Hydraulics

Name of consultancy job	Client	Name of investigators (s)	Consultancy amount (Rs. In Lakhs )
DPR Construction of DAM at Shimbra, Manipal	KIUWMIP, RPMU Mangaluru	A.Mahesha Ph.D.	9.0

#### Department of Civil Engineering

Name of Consultancy Job	Client	Name of Investigator	Consultancy amount in Lakhs.
Performance Monitoring of Sewage Treatment Plant	Rex Polyextrusion, Sangli, Maharashtra	S. Shrihari Ph.D. Arun Kumar Thalla Ph.D.	8.00
Varahi canal project (Soil testing, slope stability, estimation of SBC etc.)	Karnataka Niravari Nigam ltd.	R. Shivashankar Ph.D. B.M. Sunil Ph.D.	2.0 Lakhs
Blanketing material for tracks	Southern Railway	R. Shivashankar Ph.D.	2.0 lakhs
Soil testing, slope stability designs, Vetting of RE wall design at Mangalore airport, taxiway widening work	Mangalore Airport	R. Shivashankar Ph.D. Sitaram Nayak Ph.D.	1.0 lakh

#### Department of Electronics And Communication Engineering

Name of Consultancy Job	Client	Name of Investigator(s)	Period	Consultancy Amount (Rs)
Technical Consultancy for Selection of Currency Note Sorting Machines	Syndicate Bank	U Sripati Ph.D. T Laxminidhi Ph.D.	01-08-2015 ongoing	2.75 lakhs

**Department of Mining Engineering**

<b>Name of Consultancy Job</b>	<b>Client</b>	<b>Name of Investigator(s)</b>	<b>Period</b>	<b>Consultancy Amount in Lakhs</b>
Assessment of the impact of vibrations generated due to blasting operations at RG-OC-III Project	The General Manager SCCI Kothegudem	V.R.Sastry Ph.D.	1 <sup>st</sup> April 2016, to 31 <sup>st</sup> March, 2017	2.86
Study of the impact of vibrations caused due to blasting – stone quarry, Kollambe village	Sri. Chandrasaha T.Amin Quarry Owner Kollambe Village Kandavara Post, Mangalore Tq	V.R. Sasrty Ph.D.	1 <sup>st</sup> April 2016, to 31 <sup>st</sup> March, 2017	8.85
Study of Impact of Ground vibrations caused due to blasting in tunnel on saddle dam, Shimoga	M/s. Sri Sai Deepti power Ltd., Bangalore	V.R.Sastry Ph.D.	1 <sup>st</sup> April 2016, to 31 <sup>st</sup> March, 2017	1.171
Slope Stability Study at Jambunatha Iron ore & Redoxide Mine	M/s. Gogga Gurushanthai and Brothers, Mine Owner, Hospet – 583203	V.R.Sasrty Ph.D.	1 <sup>st</sup> April 2016, to 31 <sup>st</sup> March, 2017	1.56
Assessment of the impact of ground vibrations generated due to blasting operations	M/s. Karnataka Neeravari Nigam Ltd. K.N.N.1 Office of the executive Engineer Bhadra Project Chikkamagalur Dist.	V.R.Sastry Ph.D.	1 <sup>st</sup> April 2016, to 31 <sup>st</sup> March, 2017	2.30
Scientific study of blasting operations in periyansalur lime stone mine mines -Ariyalur	M/s. Ramco Cements Ltd. Govinda Puram, Sendvraj Road Ariyalur Dist. Tamil Nadu India	V.R.Sastry Ph.D.	1 <sup>st</sup> April 2016, to 31 <sup>st</sup> March, 2017	2.01
Study of blasting operations	Mr.Diwakar Shetty Quarry Owner Survey No. 302/ Palli village Karkala tQ	V.R.Sastry Ph.D.	1 <sup>st</sup> April 2016, to 31 <sup>st</sup> March, 2017	1.06

	Udupi			
Slope stability Analysis	M/s. Veerabhadrappe Sangappa & Co Karnataka, Sandoor	V.R.Sastry Ph.D.	1 <sup>st</sup> April 2016, to 31 <sup>st</sup> March, 2017	1.15
Ground Vibration Study at OOrakam Village	M/s. Kilinakod Rock Products Pvt.Ltd. Kerala	V.R.Sastry Ph.D.	1 <sup>st</sup> April 2016, to 31 <sup>st</sup> March, 2017	0.86
Environmental monitoring for dredging	Rock and Reef Dredging Pvt.Ltd.	V.R.Sastry Ph.D.	1 <sup>st</sup> April 2016, to 31 <sup>st</sup> March, 2017	10.59
Ground Vibrating Study	Shree Jayajyoti Cements Pvt.Ltd	V.R.Sastry Ph.D.	1 <sup>st</sup> April 2016, to 31 <sup>st</sup> March, 2017	2.58
Slope stability study at SMIORE Mine pill	M/s. Sandoor Manganese and Iron Ore Limited . Lakshmipura, Bellary Dist. , Karnataka	V.R.Sastry Ph.D.	1 <sup>st</sup> April 2016, to 31 <sup>st</sup> March, 2017	1.84
Blast Vibration study-- stone quarrey of Sri Guruprasad , Gurupura Village	Sri Guruprasad B, Quarrey Owner, Karnataka	V.R.Sastry Ph.D.	1 <sup>st</sup> April 2016, to 31 <sup>st</sup> March, 2017	0.86
Blast Vibration study	M/s. Royal Exim, Jet- Mid East India Traders Gandhinagar, Mangalore	K.Ram Chandarv, Ph.D. V.R.Sastry, Ph.D.	1 <sup>st</sup> April 2016, to 31 <sup>st</sup> March, 2017	0.21
Study on Ground Vibrations caused due to blasting	The Project Manager, ILFS Engineering and Construction Co. Ltd. Church road, Surathkal	V.R.Sastry Ph.D.& K Ram Chandar V.R.Sastry Ph.D.	1 <sup>st</sup> April 2016, to 31 <sup>st</sup> March, 2017	0.92
Controlled blasting Methodology for pipeline Trench, Soorinje, ,Mangalore	Project Manager, ISPRL Project Surathkal	V.R.Sastry Ph.D.	1 <sup>st</sup> April 2016, to 31 <sup>st</sup> March, 2017	0.86

Study of the impact os blasting operations in canal excavation nearby village structures	Evergreen Properties India Pvt.Ltd. Ernakulam District Kerala	V.R.Sastry Ph.D.	1 <sup>st</sup> April 2016, to 31 <sup>st</sup> March, 2017	0.86
Study of the blasting operations in stone acerry on nearby village structures	Sri Raju Kuriyakose, Managing Director	V.R.Sastry Ph.D.	1 <sup>st</sup> April 2016, to 31 <sup>st</sup> March, 2017	0.86
Analysis of Ground vibrating during blasting in stone quarey	Quarrey Owner, Veera Kambla Village, Karnataka	V.R.Sastry Ph.D.	1 <sup>st</sup> April 2016, to 31 <sup>st</sup> March, 2017	0.86
Assessment of Intensity of Ground Vibrations Generated form Blasting Operations in Patapadu Limestone Mine	My Home Cements Limited, Kurnool Dist, Andhra Pradesh	V.R.Sastry, Ph.D.& K. Ram Chandar Ph.D.	1st April 2016, to 31st March, 2017	2.00
Assessment of Intensity of Ground Vibrations Generated form Blasting Operations in Granite Quarry	Evergreen Properties India Limited, Ernakulam, Kerala	K. Ram Chandar, Ph.D. & V.R. Sastry Ph.D.	1st April 2016, to 31st March, 2017	0.75
Assessment of Intensity of Ground Vibrations Generated form Stone Quarry	owned by Guruprasad, Gurupura, Shimoga Dist, Karnataka	Prof.V.R. Sastry & Dr. K. Ram Chandar	1st April 2016, to 31st March, 2017	0.75

### **Department of Metallurgical & Materials Engineering**

1. Comparative study of lead based and lead free solders funded by ABB Ltd. Bengaluru, Grant Amount: Rs. 14 lakhs. (ongoing)
2. SKF Boilers and Driers, Moodbidri, Mangalore: Quality Assurance Improvements: Dec 2016-Dec 2017

## 15. HUMAN RESOURCE DEVELOPMENT

### 15.1 TRAINING STATUS

#### Department of Chemical Engineering

##### 1.1 Training Status

Total No. Of Faculty & Staff Trained During The Period of Report	1
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Name Of Faculty / Staff	Title Of Training Program	Organization	Dates & Duration Of Training
Dr. Raj Mohan B.	Behavioral Skills, Spirituality & Stress Management	Systemic Institute of Economic Research & Development (SIERD) New Delhi	16th to 18th January 2017

#### Department of Electronics & Communication Engineering

Name of staff	Title of training program	Organization	Dates & Duration of training
Mr. Sanjeeva Poojary	Materials management and purchase policy & procedure, E-procurement in Govt. Dept. autonomous bodies	National council for training & social research, New Delhi	September 21-23, 2016

#### Department of Mechanical Engineering

##### Training Status

Total no of faculty and staff trained during the period of report	10
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Name of faculty/staff	Title of training program	Organization	Dates & Duration of training
S. M. Murigendrappa	Research Interaction	Polotecnico De Milano	June 30, 2016 to July 07, 2016
Subhaschandra Kattimani	Research Interaction	University of Sao Paulo, Brazil	August 29, 2016 to September 5, 2016
Sharnappa Joladarashi	Research Interaction	Ghent University, Belgium	June 11-19, 2016
Ranjith M	Research Interaction	University of Malaya, Malaysia	June 13- 20, 2016
P. Mohanan	Research	University of California, Berkley	June 01, 2016 to

	Interaction		Novmeber 30, 2016
Mrityunjay Doddamani	Research Interaction	New York University	June 01- 09, 2016
Srikanth Bontha	Research Interaction	The Ohio State University	July 07-12, 2016
P. Jeyaraj	Research Interaction	New York University	June 21, 2016 to July 10,2016
Arumuga Perumal D	Research Interaction	Nanyang Technological University	June 21-30, 2016
Somasekhara Rao todeti	Research Interaction	NUS Singapore	June 06-12, 2016

### Department of Information Technology

Total number of faculty & staff trained during the period of report	<b>4</b>
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Name of faculty/staff	Title of training program	Organization	Dates & Duration of training
Prof. Ananthanarayana V S	one day workshop on “Higher Education Technology Conference & Expo 2017”	Vivanta by Taj, M.G.Road, Bangalore	March 10, 2017
	One day seminar on "QS Seminar on University Rankings, Ratings and other Strategies by QS (Quacquarelli Symonds)	MIT Art, Design and Technology University, Pune	March 9, 2017
Dr. Geetha V	Research Interaction	University of Southern California, Los Angeles, USA	September 5-13, 2016
Dr. Sowmya S Kamath	Research Interaction	Research School of Computer Science, Australian National University, Canberra, Australia.	Sept. 4-13, 2016
Biju R Mohan	Research Interaction	Dept. of Computing and Information Systems Melbourne School of Engineering, University of Melbourne Australia.	Sept. 4-10, 2016

### School of Management

Name of faculty/staff	Title of training program	Organization	Dates & Duration of training
Dr. Sheena	Applied Data Science and Business Analytics using R	NIT Calicut	March 12- 17, 2017
Dr. S. Pavan Kumar	Structural Equation Modeling using Mplus	Indian Institute of Management Ahmedabad (IIMA)	December 13-15, 2016

	software		
Dr. S. Pavan Kumar	Scale Development,	Department of Management Studies, Indian Institute of Technology Madras (IITM)	September 7-12, 2016
Dr. S. Pavan Kumar	Quantitative research, Techniques and Analysis using “R” Methods	Christ University, Bengaluru, India	February 26-28, 2016

### PLACEMENT OF STAFF FOR ACADEMIC EXCELLENCE

#### Department Of Civil Engineering

Name of Staff/Faculty	Assignment/Recognition/Award
B.R. Jayalekshmi Ph.D.	Member, Special Structures Sectional Committee, CED 38, Bureau of Indian Standards, New Delhi
B.R. Jayalekshmi Ph.D.	Award, “Women Achiever’s Award”, Institution of Engineers (India), Karnataka.
K.S. Babu Narayan Ph.D.	Award, “Best Constructor of the Year 2016-17” Association of Consulting Civil Engineers, Mangalore Centre, 2016
Subhash C. Yaragal, Ph.D.	Award, “Eminent Engineer” Association of Consulting Civil Engineers, Mangalore Centre <b>September, 2016</b>
Subhash C. Yaragal, Ph.D.	Reviewed Papers submitted to [1] International Journal of Wind and Structures, Technopress, Korea. [2] International Journal of Advances in Concrete Construction, Technopress, Korea. [4] Institution of Engineers, India, Journal, Series A [5] The structural design of tall and special buildings, China.
Subhash C. Yaragal, Ph.D.	Editorial Board member for International Journal of Forensic Engineering, UK, Inderscience Publishing, <b>from 2016</b> .  <b>Academic Council</b> Member of MSNM Besant Institute of PG (MBA), Mangalore.  <b>Board of Studies</b> Member (UG) for Faculty of Engineering, Christ University, Bangalore  <b>Expert Committee</b> Member (UG) for Faculty of Engineering, Christ University Bangalore, for research project evaluation of faculty members, funded through the university.
Sunil B.M, Ph.D.	Hon. Secretary Institution of Engineers (I), Mangaluru Local Centre (25.10.2016)
Sunil B.M, Ph.D.	Reviewed Papers submitted to [1] Geotechnical and Geological Engineering (Springer) [2] Journal of Engineering Geology (Elsevier)

	[4] Journal of Material Cycles and Waste Management (Springer) [5] Journal of Advances in Environmental Research, <i>South Korea</i>
R. Shivashankar Ph.D.	Guest Editor for a special issue on 'Geosynthetics', SEAGS-AGSSEA Geotechnical Engg. Journal: 2018 -2019
R. Shivashankar Ph.D.	'Conference Chair' for 10th International Symposium on Lowland Technology (ISLT2016), Jointly organized by NITK Surathkal, IISc Bangalore and International Association of Lowland Technology (IALT) and Institute of Lowland and Marine Research (ILMR), Japan, held during Sept. 2016.
R. Shivashankar Ph.D.	Session Chair during International Conference on Soil and Environment (ICSE), 22-23 July 2016, at the Indian Institute of Science, Bangalore. Organized by Indian Geotechnical Society Bangalore Chapter and the Department of Civil Engineering at IISc Bangalore
R. Shivashankar Ph.D.	Keynote speaker during International Conference on Geotechniques for Infrastructure Projects (GIP 2017), February 27 & 28, 2017, organized by Indian Geotechnical Society Thiruvananthapuram Chapter and LBSITW Thiruvananthapuram: "Geotechniques for Transportation Infrastructure"
R. Shivashankar Ph.D.	Invited speaker during National workshop on 'Recent Advances in Geotechnics for Infrastructure (RAGI 2017)' organized by Association of Consulting Civil Engineers, Mysore Chapter; NIE Mysuru and SJCE Mysuru, March 25, 2017: "Geotechnical Engineering for Transportation Infrastructure".
R. Shivashankar Ph.D.	Reviewed <b>conference papers</b> and <b>journal papers</b> for (i) Geotechnical Engg. Journal of SEAGS-AGSSEA (ii) IALT Journal (iii) Indian Geotechnical Journal (iv) Intl J of Pavement Engg. (v) Scientific Research and Essays J (vi) ASCE Intl. J of Geomechanics (vii) Technopress Intl J of Geomechanics and Engg. (viii) Springer's Int J of Geosynthetics and Ground Engg. (ix) J of Earthquake Engg. and Engg. Vibration (x) Journal of Marine Science and Technology (JMST) (xi) Elsevier's Intl. J of Pavement Research and Technology etc.
B. B. Das Ph.D.	Session Chair 1. UKIERI International Conference on Advances in Concrete Technology, Materials & Construction Practices (CTMC2016), 22-24, June 2016. 2. International Conference on Emerging Trends in Engineering (ICETE-2016), 13.05.2016 at NMAMIT NITTE. 3. International conference on Global Civil Engineering Challenges in Sustainable Development and Climate Change, 17 <sup>th</sup> and 18 <sup>th</sup> of March 2017, MITE, Moodabidri.
B. B. Das Ph.D.	Editorial Board Member 1. Journal of Construction Engineering, Technology and Management, STM Journals India. 2. Recent Trends in Civil Engineering and Technology, STM Journals, India 3. Construction Engineering (CE), Science and Engineering Publishing Company, Indiana, USA.
B. B. Das, Ph.D.	Keynote Speech on Important Aspects of Cellular Light Weight Concrete Blocks, Sea Associates, Brahmapur, Orissa, 7th September 2016. (Invited)

	Chief Speaker on Important Aspects of Construction Technology, Workshop on Advances in Construction Technology, Secab Institute of Engineering and Technology, Bijapur, Karnataka, India, 11th-12th April 2016. (Invited)
B. B. Das, Ph.D.	Reviewer <ol style="list-style-type: none"> <li>1. Journal of Materials in Civil Engineering, ASCE (Total number completed within this time duration - 06)</li> <li>2. Construction and Building Materials, Elsevier (Total number completed within this time duration - 01)</li> <li>3. International Journal of Earth Sciences and Engineering. (Total number completed within this time duration - 02)</li> <li>4. International conference on Global Civil Engineering Challenges in Sustainable Development and Climate Change, 17<sup>th</sup> and 18<sup>th</sup> of March 2017, MITE, Moodabidri. (Total number completed within this time duration - 04)</li> <li>5. UKIERI International Conference on Advances in Concrete Technology, Materials &amp; Construction Practices (CTMC2016), 22-24, June 2016. (Total number completed within this time duration - 03)</li> <li>6. International Conference on Emerging Trends in Engineering (ICETE-2016), 13.05.2016 at NMAMIT NITTE.(Total number completed within this time duration - 08)</li> </ol>
Basavaraju Manu B., Ph.D.	Young Achiever Award 2016, IEAE, India
C Rajasekaran Ph.D.	Technical Session Chair: in Structural Engineering Convention 2016, CSIR-SERC, Chennai, Dec 2016. Reviewed two papers - Structural Engineering and Mechanics - between April 2016 and October 2016. Co-author, <b>Best Technical Paper (Runner up)</b> , PMI India Research and Academic Conference, IIT Delhi, March 2016. PhD Thesis Examiner - Anna University for thesis titled " <i>Experimental study on partial replacement of fine aggregate by waste material from china clay industries</i> " in Dec 2016. National Advisory Committee Member - National Conference on Technological Advancements in Civil & Mechanical Engineering, NCTACME' 17, March 2017, Kerala,
Katta Venkataramana Ph.D.	Editor, Proceedings of IES-2017 International Conference, Kumamoto University, Feb-Apr 2017

### Department of Computer Engineering

Name of Staff/Faculty	Assignment/Recognition/Award
Santhi Thilagam, Ph.D.	Received the M.S.Ramanujan Memorial Lecture Award, 2016 at the 30 <sup>th</sup> National Convention of Computer Engineers, The Institution of Engineers (India)
Jeny Rajan, Ph.D.	Young System Scientist Award, 2016

**Department of Electrical and Electronics Engineering**

<b>Name of Staff/Faculty</b>	<b>Assignment/Recognition/Award</b>
KN Shubhanga, Ph.D.	POSOCO award for an M.Tech Thesis carried out by Mr. Santosh V Singh.
G S Punekar, Ph.D.	National best thesis award for Master thesis PPSA- 2017 of POSOCO is received by his student Mr Swroop Kishan Singh of CTM for the thesis "FEM Based Analysis of E-Field Distribution in A 765 kV Switchyard: A Study with reference to ICNIRP Guidelines".
G S Punekar, Ph.D.	Delivered an Invited lecture at THE INSTITUTION OF ENGINEERS (I), MANGALORE LOCAL CENTER on the 46th National Safety day on ELECTRICAL SAFETY.

**Department of Electronics & Communication Engineering**

<b>Name of Staff/Faculty</b>	<b>Assignment/Recognition/Award</b>
Sumam David S, Ph.D.	Professor in charge of Analytics, Accreditation & Ranking Attended NIRF Award Ceremony India Rankings 2017 Presentation of Awards to the Top Ranked Institutions by Shri Pranab Mukherjee Hon'ble President of India at Rashtrapati Bhavan Cultural Centre, President's Estate, New Delhi on 10 <sup>th</sup> April 2017 Participated in the QS in conversation event on Women's Higher Education for Leadership and Social Innovation at Jaipur on 13-15 <sup>th</sup> February 2017

**Department of Information Technology**

<b>Name of Staff/Faculty</b>	<b>Assignment/Recognition/Award</b>
G. Ram Mohana Reddy, Ph.D.	<ul style="list-style-type: none"> <li>➤ Sept 2016 - Elected as Senior Member, ACM (Association for Computing Machinery), USA.</li> <li>➤ Sept 2016 - Marquis Who's Who has selected the Biographical Profile for inclusion in the Who's Who in Asia 2017 of Marquis Who's Who in the World (34th Edition), USA</li> <li>➤ Biographic Profile in 2000 Outstanding Intellectuals of 21st Century ~ 10th Edn., International Biographical Centre, Cambridge, England, UK</li> </ul>
Ananthanarayana V S, Ph.D.	<ul style="list-style-type: none"> <li>➤ Convener of Technical Committee for Centralized Counselling for M. Tech./M. Arch./ M. Plan. Admissions, 2016 (CCMT 2016).</li> <li>➤ Member of Advisory Committee in 2016 IEEE International Conference on Distributed Computing, VLSI Electrical Circuits and Robotics (DISCOVER 2016) 13 -14, August 2016, NITK Surathkal</li> <li>➤ Dean(Research and Consultancy) of NITK, Surathkal from 1st September 2016.</li> <li>➤ Convener-Registration for the 14th Convocation of NITK, Nov 12, 2016.</li> <li>➤ Convener-MIS team of NITK, 2016</li> <li>➤ Centre-in-charge for NATA 2017 examination at NITK Surathkal (Date of exam: April 16, 2017)</li> <li>➤ Centre -in-charge/Presiding Officer for JEE(Advanced) 2017 at</li> </ul>

	<p>NITK Surathkal (Date of exam: 21 May 2017).</p> <ul style="list-style-type: none"> <li>➤ Executive Member of PTA, K.V.No. 1., Panambur for 2014-15 and 2016-18.</li> <li>➤ Member of Academic Council, Basaveshwar Engineering College, Bagalkot 2016.</li> <li>➤ Delivered an invited lecture on “Importance of Abstraction in Data Mining” in TEQIP – II Sponsored Five Day National Level Seminar on “Multimedia Data Analysis” April 26th – April 30th, 2016, SJCE Mysore.</li> <li>➤ Invited as expert member to review MTech(CSE) syllabus and to evaluate MTech (CSE) projects at NIT Agartala on May 11, 2016.</li> <li>➤ Delivered invited talk on “Big Data for Healthcare” organized by A.J. Institute of Hospital Management in collaboration with Academy of Hospital Administration in the CME on Basic Research &amp; Its Importance in Hospital Administration on 17th December 2016.</li> <li>➤ Part of the elite panel of judges to evaluate the innovative products/ideas to be displayed by students &amp; faculty of Manipal University on 19th December 2016 at the Innovation Centre, MIT, Manipal.</li> <li>➤ Delivered invited talk on “Data Mining Applicability in Green Technologies for Sustainable Development” in two days International Symposium on Green Technologies for Sustainable Development at BEC, Bagalokot on 24-25th February 2017.</li> </ul>
Sowmya Kamath S,Ph.D.	<ul style="list-style-type: none"> <li>➤ ACM Kolkata Chapter Best paper in Networking Track award for "A Quality-centric Scheme for Web Service Ranking using Fuzzified QoS Parameters" at 4th International Conference on Advanced Computing, Networking, and Informatics (ICACNI 2016), 22 – 24 September 2016, National Institute of Technology Rourkela, India.</li> </ul>

### **Department of Mining Engineering**

<b>Name of Faculty/ Staff</b>	<b>Assignment/ Recognition/Award</b>
<b>Dr.K.Ram Chandar</b>	<ol style="list-style-type: none"> <li>1. Consulting Editor, The Indian Mining &amp; Engineering Journal, from Jan- 2016</li> <li>2. Visited the Department of Earth Sciences, The University of Hong Kong, during 8<sup>th</sup> to 15<sup>th</sup> June-2016 for research interaction.</li> <li>3. Member, International Advisory Committee, 3<sup>rd</sup> International Conference on Earth Science and Engineering (ICEE 2016),, 17-18 June-2016, held at Nehru Institute of Technology, Coimbatore, India.</li> <li>4. Co-Chairman, Technical Session-1, ISRM Sponsored Int. Conf., on Recent Advances in Rock Engineering, NIRM-Bangalore, 16 Nov, 2016.</li> </ol>

### **Department of Metallurgical and Materials Engineering**

<b>Name of Staff/Faculty</b>	<b>Assignment/Recognition/Award</b>
Dr. A. O. Surendranathan	Selected for the presentation of “RAJIV GANDHI EDUCATION EXCELLENCE AWARD” and a “CERTIFICATE OF EDUCATION

	<b>EXCELLENCE”</b>
	Selected to be honoured with “Mother Theresa Excellence Award”, and Certificate by Integrated Council for Socio-Economic Progress (Regd.), Kerala -680001
	Selected for the “LIFE TIME EDUCATION ACHIEVEMENT AWARD” by the International Institute of Education & Management, Delhi

## 16. STUDENT PLACEMENTS

### Highlights

The year 2016-17 is a very successful year for the Dept. of Training & Placement. We had reasonably good Placements and Training slots.

### Main Objectives

1. Placement for all students of the final year B.Tech., M.Tech, MCA, MBA and M.Sc.
2. Training for all students to be covered during the 5<sup>th</sup>, 6<sup>th</sup> and 7<sup>th</sup> Semester vacations. The compulsory training for B.Tech. Mining Engg. Students is organized during the 5<sup>th</sup> and 6<sup>th</sup> Semester vacations.
3. Provide Career Counseling and facilitate development of Soft Skills and Personal Effectiveness to better equip students for their career.

### Performance Overview

1. 212 Companies visited NITK Surathkal for Campus Recruitments.
2. 49 Companies participated in the Placement process for the first time.
3. 774 students were placed – 558 B.Techs, 141 M.Techs, 59 MCAs, 8 MBAs, 3 MSc (Chemistry) and 5 MSc (Physics)

### Staff:-

- |                            |                               |
|----------------------------|-------------------------------|
| 1. Dr. Muralidhar Kulkarni | Professor in-Charge           |
| 2. Sri Laxminarayana H.    | Sr. Stenographer SG II        |
| 3. Miss. Divya             | Literate Assistant (Contract) |
| 4. Sri. Haridas Bhat       | Literate Assistant (Contract) |
| 5. Sri. Lokesh             | Peon (Contract)               |
| 6. Sri Sathish             | Peon (Contract)               |

**PLACEMENT DETAIL 2016-17**

SL. NO.	NAME OF THE COMPANY	STUDENTS PLACED	PAY PACKAGE (Rs. in lakhs p.a.)	
			UG	PG
1	MICROSOFT, HYD	9	21	21
2	PAYPAL	2	21	-
3	MYNTRA DESIGN, B'LORE	13	21	-
4	ADOBE SYSTEMS, B'LORE	4	20.3	-
5	INTUIT, B'LORE	12	19.83	-
6	ORACLE, B'LORE	24	22	22.5
7	SAMSUNG R&D, B'LORE	31	16	-
8	BAJAJ AUTO, PUNE	7	8.2	-
9	ARM INDIA	3		-
10	J P MORGAN, MUMBAI	11	8.5	-
11	MORGAN STANLEY, MUMBAI	5	16.2	16.8
12	CISCO, B'LORE	6	14.37	15.96
13	NETAPP, B'LORE	2	-	18.5
14	DELL R&D, B'LORE	6	8	11
15	TESCO	5	17	-
16	ARISTA NETWORKS,	1	16.8	-
17	RIVERBED TECH, B'LORE	3	-	10
18	AMERICAN EXPRESS	0	-	9.1
19	VISA INC, BANGALORE	3	18	-
20	GOLDMAN SACHES, B'LORE	2	20	-
21	WOOQER S.W, B'LORE	2	13.4	-
22	L&T CONST., CHENNAI	21	5.1	5.4
23	LINKED IN	1	20.09	-
24	TEXAS INSTRUMENTS, B'LORE	10	15.2	16
25	FIDELITY, B'LORE	18	12.9	-
26	QUALCOMM, B'LORE	13	14	16
27	CITICORP SERVICES	8	13.5	13.5
28	ARYAKA NETWORKS, B'LORE	3	-	7.5
29	INFOSYS, B'LORE	4	17	17
30	SANDISK, B'LORE	4	14.1	15.8
31	SYMANTEC SOFTWARE, CHENNAI	2	11.8	12.3
32	THOROGOOD, B'LORE	4	11	11
33	SANDVINE TECH, B'LORE	1	9.5	9.5
34	NUTANIX TECH	1	15	-
35	NEXT EDUCATION	1	13	-
36	MARUTI SUZUKI, N.DELHI	4	6.3	-
37	TARGET CORPN, B'LORE	9	12.7	12.7
38	ITTIAM SYSTEMS, B'LORE	2	8.9	9.6
39	FUTURES FIRST, B'LORE	2	9.2	-

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40	EDELWEISS, MUMBAI	2	10	-
41	PHILIPS INNOVATION , B'LORE	6	7	-
42	Z S ASSOCIATES, PUNE	8	6.5	-
43	MAKEMYTRIP	1	10	-
44	SOCIETE GENERALE GLOBAL	6	12.3	-
45	G E INDIA, B'LORE	4	-	9.8
46	SABRE, B'LORE	1	8	8
47	DE SHAW, HYDERABAD	1	19.5	-
48	L & T MUMBAI	1	4.9	-
49	ACCOLITE S.W., B'LORE	2	10	10
50	MAGNITUDE S.W, B'LORE	2	8	8
51	WIPRO TECH, B'LORE	8	9	-
52	AURIGO S.W, B'LORE	1	10	10
53	ALTISOURCE, B'LORE	3	11	-
54	CYPRESS SEMICONDUCTOR, B'LORE	2	-	12
55	SCHNEIDER ELECTRIC, B'LORE	6	8	-
56	ALSTOM TRANSPORT	7	5.8	7
57	TREDENCE ANALYTICS	4	6	-
58	DELOITTE, HYDERABAD	15	6.2	6.2
59	KRONOS SOLUTIONS	2	9	-
60	ROBERT BOSCH, B'LORE	4	5	5.5
61	INFOSTRETCH, B'LORE	4	6	6
62	KLA TENCORE S.W	1	-	10.5
63	WIDAS CONCEPTS, B'LORE	1	5	6
64	SMARTPRIX WEB	0	9	9
65	DR REDDYS LAB, HYDERABAD	3	7.1	-
66	AMDOCS, PUNE	11	8	8
67	EXL SERVICES, B'LORE	4	6	-
68	TALLY SOLUTIONS, B'LORE	1	6	-
69	INTELLECT DESIGN, CHENNAI	0	5	-
70	MISYS SOFTWARE, B'LORE	3	5.2	5.2
71	JOHN DEERE, PUNE	2	5	-
72	KULIZA TECH	3	7	7
73	WISSEN TECH, B'LORE	1	8	8.5
74	ORACLE(OFSS)	10	5.9	5.9
75	HALFTICK INFO	0	6	-
76	WELLS FARGO, CHENNAI	9	8.8	-
77	PROKARMA	2	5	-
78	INCTURE TECH, B'LORE	1	5.5	5.5
79	INFORMATICA, B'LORE	1	10.4	10.4
80	SAPIENT, B'LORE	0	5.1	-
81	RBS, MUMBAI	4	8	-
82	AXIS BANK, MUMBAI	4	8.1	-
83	SEAGATE TECH, B'LORE	1	9.4	9.4
84	TATA DIGITAL HEALTH	2	10	-

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85	RADISYS INDIA, B'LORE	3	10	10
86	BOSCH LTD, B'LORE	2	5.7	-
87	C-DOT, B'LORE	2	10.3	10.5
88	HSBC ELECTRONIC DATA	14	7.3	7.8
89	MU-SIGMA	7	8	-
90	SAP LABS, B'LORE	1	10	10
91	ODESSA TECH, B'LORE	1	-	7.5
92	VE COMMERCIAL VEHICLES	3	5	-
93	MAQ SOFTWARE, B'LORE	4	7	7
94	C A TECH, B'LORE	2	8	8
95	BHARAT FORGE, PUNE	2	4.5	-
96	TCS , B'LORE	39	3.3	3.5
97	TCS DIGITAL, B'LORE	1	6.3	6.8
98	EVIVE HEALTH	1	4.5	4.5
99	m-SUPPLY ECOM,B'LORE	10	4.5	-
100	PEPSICO INDIA	2	7	-
101	LATENT VIEW, HYD	4	4.5	-
102	SRF LTD, GURGAON	0	5	-
103	EXXONMOBIL, NOIDA	3	8.8	-
104	CLAIRVOLEX, GURGAON	4	7	7.5
105	ADM AGRO	0	5	-
106	TATA MOTORS,PUNE	7	5.6	-
107	PATH PARTNER, B'LORE	2	5	5
108	HSBC SOFTWARE, PUNE	0	7	-
109	INTEL TECHNOLOGY, B'LORE	4	10.3	12
110	PURAVANKARA, B'LORE	5	5	-
111	CGI INFORMATION, B'LORE	8	6.8	-
112	AVERY DENNISON, GURGAON	1	6	-
113	PEOPLE10 TECHNOSOFT	4	5	5
114	MERCEDES-BENZ, B'LORE	7	-	7.5
115	TEACH FOR INDIA, B'LORE	*	3.5	3.5
116	MPHASIS LTD B'LORE	2	4	4
117	HUAWEI TECH B'LORE	2	12.5	12.5
118	SAHAJ S.W, B'LORE	0	8.5	8.5
119	COCA-COLA, B'LORE	3	7.5	-
120	AVANTI LEARNING. B'LORE	1	4	4
121	KNK NEXGEN, B'LORE	5	5.1	-
122	ABB INDIA, B'LORE	0	4.5	-
123	ZOHO CORPORATION, B'LORE	1	4.6	4.6
124	VA TECH WABAG, CHENNAI	1	4.5	4.8
125	MAHINDRA & MAHINDRA, MUMBAI	1	6	-
126	TOTAL ENVIRONMENT, B'LORE	3	5	5
127	T.I.M.E EDUCATION, B'LORE	3	6	6
128	ATKINS INDIA, B'LORE	7	5	5
129	ORBEES MEDICAL	4	6	-

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130	ITC HOTELS, KOLKATA	*	7.5	-
131	TATA PROJECTS, SECUNDERBAD	*	3.5	-
132	INDIAN NAVY	*	10	-
133	SIEMENS TECH, B'LORE	3	5.5	6
134	I-DRIVE S.W, B'LORE	8	8.5	8.5
135	VEDANTHA GROUP, GOA	12	5.5	-
136	CAPGEMINI, B'LORE	5	6	-
137	VODAFONE SHARED SERVICES	3	4.3	-
138	AKS IT SERVICES, NOIDA	1	5	5
139	RIVIGO, B'LORE	3	25	-
140	I-EXCEED, B'LORE	3	4	-
141	FIAT, PUNE	0	4.3	5.8
142	ALLSTATE SOLUTIONS, B'LORE	0	7	-
143	HEXAGON, HYDRBD	4	5	5
144	SEARS IT & MANAGEMENT	4	22	22
145	FIRST AMERICAN, B;LORE	2	7	7
146	VOLVO INDIA, B'LORE	*	-	6.5
147	e-LITMUS,B'LORE	0	5	-
148	IMPACT ANALYTICS,	4	5	-
149	RELIANCE IND, MUMBAI	22	5.5	-
150	BIZAQUITY SOLUTIONS,HYDRBD	7	5	5
151	COMMSCOPE NETWORKS, B'LORE	2	6.3	7
152	UGAM SOLUTIONS, B'LORE	0	7	-
153	L & T INFO, MUMBAI	2	4.2	3.3
154	DQUOTIENT, BLORE	1	4	-
155	BPCL, MUMBAI	10	11.5	-
156	HERO MOTOCORP, N DELHI	4	6.5	-
157	HCL TECHNOLOGIES	1	-	4.8
158	THERMAX, PUNE	1	4.5	-
159	ESI SOFTWARE, B'LORE	6	7	7
160	T.I.M.E EDUCATION, B'LORE	3	6	6
161	BASE EDUCATIONAL, B'LORE	3	5.5	5.5
162	CERNER CORP, B'LORE	1	7	-
163	SUN FARMACEUTICAL, MUMBAI	*	6.3	-
164	BANK OF AMERICA,HYDERABAD	8	5.5	-
165	WIPRO INFRASTRUCTURE	2	5	-
166	CODE NATION	0	25	25
167	SIFY TECHNOLOGIES, BANGALORE	2	6	-
168	MURUGAPPA GROUP	2	4.5	-
169	L & T MUMBAI	*	-	5.1
170	CARTESIAN CONSULTING, B'LORE	1	4.8	-

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171	CARGIL INDIA	3	4.5	-
172	ANB GLOBAL	*	-	-
173	PETRONET MHB LTD, M'LORE	5	5.5	-
174	AVANTI FELLOWS	2	4	4
175	YOKOGAWA INDIA, B'LORE	3	-	3.8
176	COAL INDIA, KOLKATA	6	9.3	-
177	THINK & LEARN BYJUS	2	8	-
178	STARHOME MACH, B'LORE	2	6	6
179	NTT DATA , B'LORE	2	4.5	-
180	NOVARTIS HEALTHCARE	4	7.8	-
181	TECH MAHINDRA,	3	-	4
182	SJAIN VENTURES, RAIPUR	0	3.5	-
183	MOOG INDIA TECH, B'LORE	*	-	4.2
184	STUP CONSULTANTS, B'LORE	*	-	4.5
185	AUROBINDO PHARMA, HYDRBD	2	3.6	-
186	GD RESEARCH, HYDRBD	4	-	3.5
187	SPI NEW INITIATIVES, CHENNAI	0	4.5	-
188	ANZ OPERATIONS, B'LORE	1	7	-
189	MERCHANT NAVY	*	-	-
190	FEDERAL MOGUL, GURGOAN	3	4	-
191	J K TYRES & IND, NEW DELHI	3	5.5	-
192	MCX, MUMBAI	2	6.3	6.3
193	AMAZON, HYDRBD	*	13	13
194	BLUE STAR, CHENNAI	0	-	7.3
195	TEKTRONIX, B'LORE	1	8	-
196	VIGNAN'S FOUNDATION, A.P	6	-	4.8
197	RENAULT NISSAN, T.N	4	4	4
198	BEL, B,LORE	7	8	-
199	ADP, HYDRBD	1	5	-
200	HPCL, MUMBAI	7	12.1	-
201	CLEANMAX SOLAR	*	4	4
202	PFIZER	3	6	-
203	LAM RESEARCH	*	8	-
204	HDFC ASSET MGT	*	-	-
205	NARAYANA GROUP, B'LORE	33	4.8	4.8
206	IOCL, NEW DELHI	9	12	-
207	MANGALORE INFOTECH	0	-	3
208	TIME INC, B'LORE	3	8	8
209	L & T INFRA, CHENNAI	*	-	4.5
210	GAIL INDIA LTD, NEW DELHI	3	9.3	-
211	MICROCHIP TECH	*	8	8.5
212	AARVEE ASSOCIATE, HY'BAD	*	4	4.5

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COMPANIES : 212	TOTAL JOBS : 843
NEW ORGANIZATIONS VISITED NITK IN 2016-17 : 49	
* Final Results awaited	

**BRANCHWISE PLACEMENTS 2016-2017**

<b>Branch</b>	<b>Total Eligible Students</b>	<b>Placed</b>
<b>UG (BTECH)</b>		
CIVIL	83	45
CHEMICAL	31	31
COMPUTER	93	93
E & C	92	87
E & E	86	73
IT	88	83
MECHANICAL	132	105
METALLURGY	29	20
MINING	36	21
<b>Total (B.Tech)</b>	<b>670</b>	<b>558</b>
<b>PG (MTECH)</b>		
STRUCTURAL ENGG.	25	9
GEO TECH.	12	2
ENVIRONMENTAL	23	5
TRANSPORTATION SYSTEM	21	2
CONSTRUCTION TECH & MGMT	24	0
MARINE STRUCTURES	16	1
WATER RESOURCE ENGG & MGMT	11	2
REMOTE SENSING & GIS	9	1
INDUSTRIAL POLLUTION CONTROL	10	8
CHEMICAL PLANT DESIGN	6	3
INDUSTRIAL BIOTECHNOLOGY	12	2
COMPUTER SCIENCE & ENGG	22	20
INFORMATION SECURITY	21	19
VLSI	22	7
COMMUNICATION ENGG	26	8
POWER & ENERGY SYSTEM	16	2
INFORMATION TECHNOLOGY	16	16
THERMAL ENGG	14	7
MANUFACTURING ENGG	11	2
MECHATRONICS	26	5
DESIGN & PRECISION	15	6
PROCESS MET.	7	1
MATERIALS ENGG.	19	5
NANOSCIENCE AND NANOTECHONLOGY	6	1

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C M A	13	6
<b>Total(M.Tech)</b>	<b>403</b>	<b>141</b>
MCA	82	59
MBA	33	8
MSc(Chemistry)	15	3
MSc(Physics)	9	5
<b>TOTAL</b>	<b>1212</b>	<b>774</b>

**TOTAL NO OF PLACEMENTS – 774**

(With 63 students getting placed in two companies)

<b>PLACEMENT BREAKUP 2016-17</b>					
<b>Sl. No.</b>	<b>Name of Company</b>	<b>Date of visit</b>	<b>No. of Students Placed</b>	<b>Branchwise breakup</b>	
				<b>UG</b>	<b>PG</b>
1	MICROSOFT, HYD	July. 31, 2016	9	CS 05, IT 02	CS 01, IT 01
2	PAYPAL	Aug. 01, 2016	2	CS 02	-
3	MYNTRA DESIGN, B'LORE	Aug. 01, 2016	13	CS 09, IT 04	-
4	ADOBE SYSTEMS, B'LORE	Aug. 02, 2016	4	CS 04	-
5	INTUIT, B'LORE	Aug. 02, 2016	12	CS 07, IT 05	-
6	ORACLE, B'LORE	Aug. 03, 2016	24	IT 12, CS 05, MECH 02, EEE 01	CS 03, IT 01
7	SAMSUNG R&D, B'LORE	Aug. 03, 2016	31	CS 11, IT 03, EC 17	-
8	BAJAJ AUTO, PUNE	Aug. 04, 2016	7	EEE 03, MECH 04	-
9	ARM INDIA	Aug. 04, 2016	3	EC 02, EEE 01	-
10	J P MORGAN, MUMBAI	Aug. 04, 2016	11	CS 06, IT 05	-
11	MORGAN STANLEY, MUMBAI	Aug. 05, 2016	5	CS 02, EEE 01	IS 02
12	CISCO, B'LORE	Aug. 04, 2016	6	CS 01, IT 01	CS 03, IS 01
13	NETAPP, B'LORE	Aug. 05, 2016	2	-	IT 01, CMA 01
14	DELL R&D, B'LORE	Aug. 05, 2016	6	IT 01	CS 03, IT 01, MCA 01
15	TESCO	Aug. 06, 2016	5	CS 04, IT 01	-
16	ARISTA NETWORKS,	Aug. 06, 2016	1	CS 01	-
17	RIVERBED TECH, B'LORE	Aug. 06, 2016	3	-	CS 01, IT 02
18	AMERICAN EXPRESS	Aug. 07, 2016	0	-	-
19	VISA INC, BANGALORE	Aug. 07, 2016	3	IT 03	-
20	GOLDMAN SACHES, B'LORE	Aug. 07, 2016	2	CS 01, IT 01	-
21	WOOQER S.W, B'LORE	Aug. 07, 2016	2	CS 01, IT 01	-
22	L&T CONST., CHENNAI	Aug. 07, 2016	21	CIVIL 07, MECH 02, EEE 01	ST 06, PES 02, TSE 02, GTE 01
23	LINKED IN	Aug. 07, 2016	1	CS 01	-
24	TEXAS INSTRUMENTS, B'LORE	Aug. 08, 2016	10	EC 08	VLSI 02
25	FIDELITY, B'LORE	Aug. 08, 2016	18	CS 03, IT 07, EC 03, EEE 05	-

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26	QUALCOMM, B'LORE	Aug. 09, 2016	13	EE 02, EC 03	CE 04, VL 04
27	CITICORP SERVICES	Aug. 09, 2016	8	CS 03, IT 02	MCA 03
28	ARYAKA NETWORKS, B'LORE	Aug. 10, 2016	3	-	CSE 02, CMA 01
29	INFOSYS, B'LORE	Aug. 10, 2016	4	EC 02, EEE 02	-
30	SANDISK, B'LORE	Aug. 11, 2016	4	EC 02, EEE 01	IS 01
31	SYMANTEC SOFTWARE, CHENNAI	Aug. 12, 2016	2	CS 01, IT 01	-
32	THOROGOOD, B'LORE	Aug. 12, 2016	4	EC 01, MECH 01, CIVIL 01	CS 01
33	SANDVINE TECH, B'LORE	Aug. 12, 2016	1	CS 01	-
34	NUTANIX TECH	Aug. 13, 2016	1	IT 01	-
35	NEXT EDUCATION	Aug. 13, 2016	1	CS 01	-
36	MARUTI SUZUKI, N.DELHI	Aug. 13, 2016	4	MECH 04	-
37	TARGET CORPN, B'LORE	Aug. 14, 2016	9	CS 01, IT 03, EC 01, EEE 01	MCA 03
38	ITTIAM SYSTEMS, B'LORE	Aug. 16, 2016	2	IT 01, EC 01	-
39	FUTURES FIRST, B'LORE	Aug. 16, 2016	2	EEE 01, CS 01	-
40	EDELWEISS, MUMBAI	Aug. 16, 2016	2	EC 02	-
41	PHILIPS INNOVATION , B'LORE	Aug. 17, 2016	6	CS 04, IT 01, EC 01	-
42	Z S ASSOCIATES, PUNE	Aug. 17, 2016	8	CIVIL 03, MECH 04, EEE 01	-
43	MAKEMYTRIP	Aug. 18, 2016	1	IT 01	-
44	SOCIETE GENERALE GLOBAL	Aug. 19, 2016	6	CS 04, IT 02	-
45	G E INDIA, B'LORE	Aug. 19, 2016	4	-	TH 01, ML 01, DP 01, CMA 01
46	SABRE, B'LORE	Aug. 19, 2016	1	-	IT 01
47	DE SHAW, HYDERABAD	Aug. 19, 2016	1	CS 01	-
48	L & T MUMBAI	Aug. 19, 2016	1	MECH 01	-
49	ACCOLITE S.W., B'LORE	Aug. 20, 2016	2	-	MCA 02
50	MAGNITUDE S.W, B'LORE	Aug. 20, 2016	2	CS 01	MCA 01
51	WIPRO TECH, B'LORE	Aug. 21, 2016	8	EC 01, EEE 02, IT 03, MECH 02	-

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52	AURIGO S.W, B'LORE	Aug. 22, 2016	1	IT 01	-
53	ALTISOURCE, B'LORE	Aug. 23, 2016	3	CS 01, IT 02	-
54	CYPRESS SEMICONDUCTOR, B'LORE	Aug. 23, 2016	2	-	MC 01, DP 01
55	SCHNEIDER ELECTRIC, B'LORE	Aug. 24, 2016	6	CS 02, EC 01, EEE 03	-
56	ALSTOM TRANSPORT	Aug. 24, 2016	7	EEE 03, MECH 04	-
57	TREDENCE ANALYTICS	Aug. 25, 2016	4	CIVIL 01, MECH 02, MT 01	-
58	DELOITTE, HYDERABAD	Aug. 25, 2016	15	CS 01, IT 01, EC 02, EEE 04, CH 02, CIVIL 01, MECH 01	MCA 02, CMA 01
59	KRONOS SOLUTIONS	Aug. 25, 2016	2	IT 02	-
60	ROBERT BOSCH, B'LORE	Aug. 25, 2016	4	EEE 03, MECH 01	-
61	INFOSTRETCH, B'LORE	Aug. 26, 2016	4	-	CS 02, IT 01, CMA 01
62	KLA TENCORE S.W	Aug. 28, 2016	1	-	CS 01
63	WIDAS CONCEPTS, B'LORE	Aug. 29, 2016	1	IT 01	-
64	SMARTPRIX WEB	Aug. 30, 2016	0	-	-
65	DR REDDYS LAB, HYDERABAD	Aug. 30, 2016	3	CHEM 03	-
66	AMDOCS, PUNE	Aug. 30, 2016	11	CS 01, EC 01, IT 01	CSE 02, IS 02, IT 01, MCA 03
67	EXL SERVICES, B'LORE	Aug. 31, 2016	4	EEE 01, MECH 01, CH 01, MN 01	-
68	TALLY SOLUTIONS, B'LORE	Aug. 31, 2016	1	EEE 01	-
69	INTELLECT DESIGN, CHENNAI	Aug. 31, 2016	0	-	-
70	MISYS SOFTWARE, B'LORE	Aug. 31, 2016	3	EC 01	IT 01, MCA 01
71	JOHN DEERE, PUNE	Sept. 01, 2016	2	EC 02	-
72	KULIZA TECH	Sept. 01, 2016	3	-	MCA 03
73	WISSEN TECH, B'LORE	Sept. 01, 2016	1	-	MCA 01
74	ORACLE(OFSS)	Sept. 02, 2016	10	IT 02, EC 03, EEE 01, MECH 02	MCA 02
75	HALFTICK INFO	Sept. 02, 2016	0	-	-

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76	WELLS FARGO, CHENNAI	Sept. 03, 2016	9	EEE 03, EC 02, MECH 03, MT 01	-
77	PROKARMA	Sept. 03, 2016	2	EC 01, MECH 01	-
78	INCTURE TECH, B'LORE	Sept. 03, 2016	1	-	MCA 01
79	INFORMATICA, B'LORE	Sept. 10, 2016	1	-	IS 01
80	SAPIENT, B'LORE	Sept. 10, 2016	0	-	-
81	RBS, MUMBAI	Sept. 11, 2016	4	CS 01,EC 01, EEE 02	-
82	AXIS BANK, MUMBAI	Sept. 11, 2016	4	EC 01, CIVIL 02, MT 01	-
83	SEAGATE TECH, B'LORE	Sept. 12, 2016	1	-	IS 01
84	TATA DIGITAL HEALTH	Sept. 12, 2016	2	CS 01, IT 01	-
85	RADISYS INDIA, B'LORE	Sept. 14, 2016	3	CS 01, IT 01	MCA 01
86	BOSCH LTD, B'LORE	Sept. 14, 2016	2	MECH 02	-
87	C-DOT, B'LORE	Sept. 15, 2016	2	EC 02	-
88	HSBC ELECTRONIC DATA	Sept. 15, 2016	14	EC 01, EEE 01,MECH 03, CIVIL 01, CH 02, MT 04	IS 01, IB 01
89	MU-SIGMA	Sept. 17, 2016	7	CIVIL 03, EC 01, MECH 02, MT 01	-
90	SAP LABS, B'LORE	Sept. 18, 2016	1	IT 01	-
91	ODESSA TECH, B'LORE	Sept. 19, 2016	1	-	MBA 01
92	VE COMMERCIAL VEHICLES	Sept. 19, 2016	3	MECH 03	-
93	MAQ SOFTWARE, B'LORE	Sept. 20, 2016	4	-	CSE 01, MCA 03
94	C A TECH, B'LORE	Sept. 20, 2016	2	EC 01	IT 01
95	BHARAT FORGE, PUNE	Sept. 21, 2016	2	MET 02	-
96	TCS , B'LORE	Sept. 22, 2016	39	CIVIL 01, CHEM 01, EC 04, EEE 03, MECH 02, MET 03, MN 02	MCA 09, ENV 01, IPC 04, CE 02, ML 01, IB 01, MC 02, RS 01, IT 01, NN 01
97	TCS DIGITAL, B'LORE	Sept. 24, 2016	1	-	MCA 01
98	EVIVE HEALTH	Sept. 23, 2016	1	EC 01	-
99	m-SUPPLY ECOM,B'LORE	Sept. 26, 2016	10	-	MCA 10
100	PEPSICO INDIA	Sept. 26, 2016	2	CHEM 01, MECH 01	-

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101	LATENT VIEW, HYD	Sept. 26, 2016	4	CIVIL 01, MECH 01, MN 02	-
102	SRF LTD, GURGAON	Sept. 26, 2016	0	-	-
103	EXXONMOBIL, NOIDA	Sept. 27, 2016	3	MECH 03	-
104	CLAIRVOLEX, GURGAON	Sept. 27, 2016	4	MECH 01	CE 01, CSE 01, IS 01
105	ADM AGRO	Sept. 28, 2016	0		
106	TATA MOTORS,PUNE	Sept. 28, 2016	7	MECH 07	-
107	PATH PARTNER, B'LORE	Sept. 30, 2016	2	EEE 02	-
108	HSBC SOFTWARE, PUNE	Sept. 30, 2016	0	-	-
109	INTEL TECHNOLOGY, B'LORE	Oct 03, 2016	4	IT 01	IS 01, MCA 02
110	PURAVANKARA, B'LORE	Oct 03, 2016	5	CIVIL 05	-
111	CGI INFORMATION, B'LORE	Oct 04, 2016	8	CS 01, EC 02, EEE 03, IT 02	-
112	AVERY DENNISON, GURGAON	Oct 06, 2016	1	MECH 01	-
113	PEOPLE10 TECHNOSOFT	Oct 13, 2016	4	-	MCA 04
114	MERCEDES-BENZ, B'LORE	Oct 13, 2016	7	-	TE 03, MC 02, DP 02
115	TEACH FOR INDIA, B'LORE	Oct 14, 2016	*		
116	MPHASIS LTD B'LORE	Oct 15, 2016	2	EC 01	MCA 01
117	HUAWEI TECH B'LORE	Oct 15, 2016	2	-	IS 02
118	SAHAJ S.W, B'LORE	Oct 18, 2016	0	-	-
119	COCA-COLA, B'LORE	Oct 19, 2016	3	MECH 03	-
120	AVANTI LEARNING. B'LORE	Oct 19, 2016	1	-	IPC 01
121	KNK NEXGEN, B'LORE	Oct 19, 2016	5	CIVIL 05	-
122	ABB INDIA, B'LORE	Oct 23, 2016	0	-	-
123	ZOHO CORPORATION, B'LORE	Oct 24, 2016	1	-	MCA 01
124	VA TECH WABAG, CHENNAI	Oct 24, 2016	1	-	ENV 01
125	MAHINDRA & MAHINDRA, MUMBAI	Oct 25, 2016	1	MECH 01	-
126	TOTAL ENVIRONMENT, B'LORE	Oct 25, 2016	3	CIVIL 02	ST 01
127	T.I.M.E EDUCATION, B'LORE	Oct 26, 2016	3	CIVIL 01	PHY 01, CHEM 01
128	ATKINS INDIA, B'LORE	Oct 26, 2016	7	-	ST 02, ENV 04, GTE 01

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129	ORBEES MEDICAL	Oct 26, 2016	4	EC 01, EEE 01, CIVIL 01, MN 01	-
130	ITC HOTELS, KOLKATA	Oct 27, 2016	0		
131	TATA PROJECTS, SECUNDERBAD	Oct 28, 2016	0		
132	INDIAN NAVY	Oct 28, 2016	*		
133	SIEMENS TECH, B'LORE	Nov. 02,2016	3	EC 01	IS 01, IT 01
134	I-DRIVE S.W, B'LORE	Nov. 04,2016	8	CS 04, EEE 02, EC 01	IS 01
135	VEDANTHA GROUP, GOA	Nov. 04,2016	12	EC 01, EEE 01, MECH 03, MET 03, MN 04	-
136	CAPGEMINI, B'LORE	Nov. 05,2016	5	CIVIL 01, MECH 02, IT 01, EC 01	-
137	VODAFONE SHARED SERVICES	Nov. 08,2016	3	IT 02, EEE 01	-
138	AKS IT SERVICES, NOIDA	Nov. 08,2016	1	-	IS 01
139	RIVIGO, B'LORE	Nov. 09,2016	3	CS 02, IT 01	-
140	I-EXCEED, B'LORE	Nov. 09,2016	3	EC 01, CS 01, MECH 01	-
141	FIAT, PUNE	Nov. 09,2016	0		
142	ALLSTATE SOLUTIONS, B'LORE	Nov. 10,2016	0	-	-
143	HEXAGON, HYDRBD	Nov. 11,2016	4	CIVIL 01, MECH 01,	ME 01, CMA 01
144	SEARS IT & MANAGEMENT	Nov. 11,2016	4	CS 01	IS 01, IT 01, MCA 01
145	FIRST AMERICAN, B;LORE	Nov. 12,2016	2	-	IT 01, MCA 01
146	VOLVO INDIA, B'LORE	Nov. 12,2016	*		
147	e-LITMUS,B'LORE	Nov. 12,2016	0	-	-
148	IMPACT ANALYTICS,	Nov. 13,2016	4	CHEM 02, EEE 01, MT 01	-
149	RELIANCE IND, MUMBAI	Nov. 14,2016	22	CHEM 11, MECH 06, EEE 04,MT 01	-
150	BIZAQUITY SOLUTIONS,HYDRBD	Nov. 15,2016	7	CS 01, EC 01, EEE 01,CIVIL 01	CE 01, MCA 02
151	COMMSCOPE NETWORKS, B'LORE	Nov. 16,2016	2	-	IS 01, MCA 01

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152	UGAM SOLUTIONS, B'LORE	Nov. 16,2016	0	-	-
153	L & T INFO, MUMBAI	Nov. 17,2016	2	-	MCA 02
154	DQUOTIENT, BLORE	Nov. 18,2016	1	MT 01	-
155	BPCL, MUMBAI	Nov. 18,2016	10	CIVIL 03, MECH 04,CS 03	-
156	HERO MOTOCORP, N DELHI	Nov. 18,2016	4	MECH 04	-
157	HCL TECHNOLOGIES	Nov. 26,2016	1	-	IS 01
158	THERMAX, PUNE	Dec 01, 2016	1	MECH 01	-
159	ESI SOFTWARE, B'LORE	Dec 05, 2016	6	MECH 04, EC01	IT 01
160	T.I.M.E EDUCATION, B'LORE	Dec 14, 2016	3	CIVIL 01	PHY 01, CHEM 01
161	BASE EDUCATIONAL, B'LORE	Dec 27, 2016	3	-	ML 01,TE 01,MSc CHEM 01
162	CERNER CORP, B'LORE	Jan 04 , 2017	1	IT 01	-
163	SUN FARMACEUTICAL, MUMBAI	Jan 04 , 2017	0		
164	BANK OF AMERICA,HYDERABAD	Jan 04 , 2017	8	EEE 05, EC01, CS 01, IT 01	-
165	WIPRO INFRASTRUCTURE	Jan 07, 2017	2	MECH 02	-
166	CODE NATION	Jan 07, 2017	*		
167	SIFY TECHNOLOGIES, BANGALORE	Jan 10, 2017	2	EC 01, IT 01	-
168	MURUGAPPA GROUP	Jan 11, 2017	2	CHEM 02	-
169	L & T MUMBAI	Jan 12, 2017	*		
170	CARTESIAN CONSULTING, B'LORE	Jan 13, 2017	1	MN 01	-
171	CARGIL INDIA	Jan 16, 2017	3	CHEM 01, MECH 02	-
172	ANB GLOBAL	Jan 17, 2017	*	-	
173	PETRONET MHB LTD, M'LORE	Jan 19, 2017	5	EC 03, EEE 02	-
174	AVANTI FELLOWS	Jan 20, 2017	2	MET 01, MN 01	-
175	YOKOGAWA INDIA, B'LORE	Jan 23, 2017	3	-	CPD 03
176	COAL INDIA, KOLKATA	Jan 24, 2017	6	MN 06	-
177	THINK & LEARN BYJUS	Jan 24, 2017	2	MECH 01, EC 01	-
178	STARHOME MACH, B'LORE	Jan 24, 2017	2	IT 01	IT 01
179	NTT DATA , B'LORE	Jan 30, 2017	2	IT 02	-

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180	NOVARTIS HEALTHCARE	Jan 31, 2017	4	CIVIL 01, EC 01, MET 01, MN 01	-
181	TECH MAHINDRA,	Jan 31, 2017	3	-	MBA 03
182	SJAIN VENTURES, RAIPUR	Feb 01, 2017	0		-
183	MOOG INDIA TECH, B'LORE	Feb 03, 2017	0	-	
184	STUP CONSULTANTS, B'LORE	Feb 03, 2017	0	-	
185	AUROBINDO PHARMA, HYDRBD	Feb 03, 2017	2	CHEM 02	-
186	GD RESEARCH, HYDRBD	Feb 04, 2017	4	-	MBA 04
187	SPI NEW INITIATIVES, CHENNAI	Feb 06, 2017	0	-	-
188	ANZ OPERATIONS, B'LORE	Feb 07, 2017	1	EEE 01	-
189	MERCHANT NAVY	Feb 09, 2017	*		
190	FEDERAL MOGUL, GURGOAN	Feb 09, 2017	3	MECH 03	-
191	J K TYRES & IND, NEW DELHI	Feb 09, 2017	3	CIVIL 01, MECH 02	-
192	MCX, MUMBAI	Feb 10, 2017	2	CS 02	-
193	AMAZON, HYDRBD	Feb 10, 2017	*		
194	BLUE STAR, CHENNAI	Feb 12, 2017	*		
195	TEKTRONIX, B'LORE	Feb 20, 2017	1	EEE 01	-
196	VIGNAN'S FOUNDATION, A.P	Feb 23, 2017	6	-	WRE 02, TE 02, ME 01, MS 01
197	RENAULT NISSAN, T.N	Feb 23, 2017	4	MECH 02	DP 02
198	BEL, B,LORE	Feb 27, 2017	7	CS 01, CIVIL 02, EC 02, EEE 01, MECH 01	-
199	ADP, HYDRBD	Feb 28, 2017	1	-	MCA 01
200	HPCL, MUMBAI	Feb 28, 2017	7	MECH 04, EEE 03	-
201	CLEANMAX SOLAR	Mar 02, 2017	*		
202	PFIZER	Mar 10, 2017	3	CHEM 02, MECH 01	-
203	LAM RESEARCH	Mar 12, 2017	*		-
204	HDFC ASSET MGT	Mar 02, 2017	*		
205	NARAYANA GROUP, B'LORE	Mar 22, 2017	33	EEE 01, EC 02, CIVIL 04, MECH 05, MN 03, MT 01, CHEM	IPC 06, ML 03, CTM 01, PHY 04, CHEM 01, PM 01

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				01	
206	IOCL, NEW DELHI	Mar 29, 2017	9	MECH 05, EC 04	-
207	MANGALORE INFOTECH	April 01,2017	0	-	-
208	TIME INC, B'LORE	April 03,2017	3	EEE 01	CSE 01, MCA 01
209	L & T INFRA, CHENNAI	April 05,2017	*	-	
210	GAIL INDIA LTD, NEW DELHI	April 05,2017	3	EEE 03	
211	MICROCHIP TECH	April 05,2017	*		-
212	AARVEE ASSOCIATE, HY'BAD	April 08,2017	*		

**Training Slots for the Academic Year 2016-17**

<b>Sl. No.</b>	<b>Branch</b>	<b>No. of Slots</b>
01	Chemical Engineering	64
02	Civil Engineering	23
03	Computer Engineering	68
04	Electronics & Communication Engineering	44
05	Electrical & Electronics Engineering	72
06	Information Technology	78
07	Mechanical Engineering	114
08	Metallurgical & Material Engineering	39
09	Mining Engineering	67
	<b>Total Number of Students</b>	<b>569</b>

<b>Number of Companies : 167</b>	<b>Number of Training Slots : 569</b>
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## 17 SPECIAL INITIATIVES

### 17.1 MEMORANDA OF UNDERSTANDING (MOUs)

Sl. No.	Date of Signing MOU Duration	Organization/Institute
1	13 <sup>th</sup> March 2017 1 Year	Korea Institute of Science and Technology, Korea (KIST)
2	27 <sup>th</sup> December 2016 3 Years	Advanced Polymer Design and Development Research Laboratory (R&D Unit of CIPET) Bengaluru
3	6 <sup>th</sup> December 2016 5 Years	iBuild Innovations India Pvt. Ltd.
4	25 <sup>th</sup> November 2016 3 Years	IBM India Pvt. Ltd. Bangalore
5	16 <sup>th</sup> September 2016 5 Years	M/s Wolfram Research, Inc. USA (WRI)
6	30 <sup>th</sup> August 2016 2 Years	Sapience Consulting, a Texas Instruments University Program Partner, India
7	19 <sup>th</sup> April 2016 3 Years	WABCO India Limited
8	5 <sup>th</sup> April 2016 5 Years	National Institute of Technology Tiruchirappalli, Tamil Nadu
9	4 <sup>th</sup> April 2016 5 Years	University of California Berkeley Mechanical Engineering (Combustion Group) Berkeley, California

### 17.2 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)

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students are paid Fellowship of Rs.9,000/- per month and a contingent grant of Rs.10,000/- per year.

#### **17.4 Innovations & Technology Transfer**

##### **Department of Chemical Engineering**

Details Of Innovation/Patent	Names Of Faculty/Staff/Students Involved
Title. A process for improving n-3 polyunsaturated fatty acid content of fish oil (No. 201641007984)	Prasanna D.Belur, Ph.D. Regupathi I, Ph.D. Charanyaa S, Vaisali C

##### **Department of Computer Engineering**

Details of Innovation/ Patent	Names of faculty/staff/students involved
“Method and tool for designing green and sustainable software using Unified Modeling Language (UML)”, Indian Patent, Application Number: 201641022442, Filing date: 14-July-2016	K. Chandrasekaran, Ph.D. Marimuthu C
“Method and Device for determining Turbidity Levels in Water”, Application number: 201641025734, Filing date: 27-July-2016	Shashidhar G Koolagudi, Ph.D. Mukund A, Rohit C and Pravin Ramteke

##### **Department of Electrical & Electronics Engineering**

Details of Innovations/Patent	Name of Faculty/Staff/ students involved
Patent : 1) Indian patent application filled on “ Solar water pumping system in grid tie or off-grid mode with net zero energy from grid” - application number- 201641035575 – filled date 18/October/2016.	B. Venkatesaperumal, Ph.D.

##### **Department of Information Technology**

Details of Innovation/Patent	Names of faculty/staff/students involved
PATENT APPLIED (INDIAN): <b>Title:</b> Method and System for Dynamic Word Encoding and Compression of Data <b>Application number:</b> 201641025735 <b>Filing date</b> (yyyy/mm/dd) : 2016/07/27	Ananthanarayana V S, Ph.D. Mr. Sakthi Murugan R
PATENT APPLIED (INDIAN): <b>Title:</b> System and Apparatus for Customizable	G. Ram Mohana Reddy, Ph.D. Ohileshwar Itagi, Shyam B S,

Keyboard with Mouse <b>Application number:</b> 201641034429 <b>Filing date</b> (yyyy/mm/dd) : 2016/11/03	Ashwin T S
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### **Department of Mechanical Engineering**

<b>Details of Innovation/Patent</b>	<b>Names of faculty/staff/students involved</b>
Application Reference: TEMP/E-1/37525/2016-CHE, 14/11/2016 Name: Ulnar Neuropathy Device	Prof Vijay Desai and Prof K V Gangadharan
TEMP/E-1/37974/2016-CHE, 14/11/2016 Name: Automated Illizarov Apparatus	Prof Vijay Desai

### **Department of Mining Engineering**

1. Title of the Innovation: TAPPING OF ELECTRICAL ENERGY FROM GROUND VIBRATIONS CAUSED DUE TO BLASTING OPERATIONS IN MINES USING PIEZO ELECTRICITY BASED TECHNIQUE (Prof. V.R.Sasrty, Professor and Raghuchandra G (Research Scholar). Blasting is an important activity in all the mines and quarries, carried out regularly, for fragmenting and displacing rock mass for further loading and transporting. The ground vibrations carry seismic energy, a part of the wasted explosive energy in the blasting process. The intensity of ground vibrations varies from few hundreds of mm/s at closed distances from the blast site to a few mm/s at longer distances. There is a potential for tapping electric energy from the ground vibrations generated from the blasts conducted in mines and quarries using piezo sensors.

No attempt has been made till now to tap electrical energy from the ground vibrations (shock waves) generated due to blasting operations in mines and quarries using any technique. The present study is of significance in that respect.

The research work under way focuses on tapping of electrical energy from undesirable ground vibrations caused due to blasting operations, with piezo based circuit models.

2. Tapping of Electrical Energy From Ground Vibrations Caused Due To Blasting Operations In Mines Using Piezo Electricity Based Technique Developed wireless sensor network for monitoring of stability of slopes in surface mines using strain gauges and LVDTs. (Dr.K.Ram Chandar, Assistant Professor and Kumar D (Research Scholar).

### **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.

1. 2016-2017 onwards 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, who's family income is below 4.5lakh. 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 who's 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.
2. To cater the needs of academically weaker students, 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.
3. SC-ST Cell has coordinated Ambedkar Jayanthi in the Institute on April 14<sup>th</sup> 2016. Dr. S.R.Keshava, Professor of Economics & Special Officer (Evaluation), Bangalore University, Bangalore was the Chief Guest of the function
4. 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.
  1. Book allowance- Rs.6000/- (Rs.3000/- per semester).
  2. Waiver of Hostel Fee (except caution deposit).
  3. Latest computer with full accessories limited to Rs.45000/- per student as one time assistance.
  4. 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.

**Self Enrichment Programme:**

Self Enrichment Programme was conducted for first year B.Tech SC/ST/OBC/PWD students of NITK-Surathkal. First batch of “Self Enrichment Programme” was conducted on 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup> September 2016 and second batch was conducted on 12<sup>th</sup>, 13<sup>th</sup>, 14<sup>th</sup> November 2016. In the programme 90 students actively participated. The programme was aimed to develop social skills, study strategies, and improve their aspiration levels, orientation and abilities to adapt to the environment at NITK and to perform to their maximum abilities.

The modules of the proposed programme were Ice Breaking, Personality Development, Interpersonal Relation, Stress Management, Emotional Intelligence, Group Dynamics, Motivation, Confidence Building, Body Language, Leadership skills and SWOT Analysis. The students expressed their view, they got motivated from this programme for goal setting.

**English Communication Programme:**

5 days English Communication Programme was conducted for UG/PG students of NITK-Surathkal on 18<sup>th</sup>, 19<sup>th</sup>, 24<sup>th</sup>, 25<sup>th</sup> and 26<sup>th</sup> February 2017. In the programme nearly 40 students actively participated.

The modules of the proposed programme were everyday english, grammar, soft skills, communication skills, conversation, dos and dont's , body language, what to avoid and why, social expressions, exchanging information, interview skills, speaking clearly and concisely. Students requested to conduct such programmes again and again and other students take benefit of the programme.

***17.7NSS (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 Dakashina 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

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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. 97 RTI Applications were received during the year 2016-17 (from 01.04.2016 to 31.03.2017).

### ***17.9 YOGACENTRE 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 1<sup>st</sup> 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)**

Introduction: In 2002-03, the Government of India with the financial assistance from the World Bank launched Technical Education Quality Improvement Programme (TEQIP) as a long-term Programme of 10-12 years, to be implemented in three phases for systemic transformation of the Technical Education System. The first phase of TEQIP commenced in March 2003 and ended in March 2009, covering 127 institutions in 13 states. The objective of TEQIP was to improve the infrastructure, equipments and faculty/staff development. The focus was more on under graduate programme. Funding was given to lead institute and many other institutes in the region were networked to the lead institute. Under this project NITK as a lead institute received Rs. 210 million.

The second phase of Technical Education Quality Improvement Programme (referred to as TEQIP-II) was launched in March 2011 with NITK entering into MOU with MHRD for successful implementation of the project. It is fully integrated with the Eleventh Five-year Plan objectives for Technical Education as a key component for improving the quality of Education in existing institutions. The reform process of TEQIP-I needs to be sustained and scaled-up for embedding gains in the system and taking the transformation to a higher level. To continue the development activities initiated through TEQIP-I, a sequel project was planned as TEQIP-II with a financial outlay of Rs. 125 million initially and by 50 million subsequently making a total outlay of Rs. 175 million. The prime objectives of the project are, scaling up Postgraduate Education, creation of an environment to nurture Demand - Driven Research & Development, encouraging innovation and enhancing existing capacity enabling the participating Institutions to become dynamic, demand-driven, quality conscious, efficient and forward looking and capable of supporting rapid economic and technological developments occurring at local, State, National and International levels.

Out of the financial outlay of Rs. 175 million under TEQIP-II programme, a sum of Rs. 150.00 million had been received up to 31-03-2016 and a sum of Rs. 25.00 million was received in April 2016. Hence a total of Rs. 175.00 million has been received up to the end of 31-03-2017. With the above fund flow the targets achieved and those under progress up to the end of March 2017 are as under:-

**Total expenditure incurred under different heads of the project is summarized in Table-I below**

<b>Sl. No.</b>	<b>Head of Expenditure</b>	<b>Amount in million</b>
1	Procurement (software, equipments)	81.60

2	Teaching and Research Assistantships	13.32
3	Research and Development	19.62
4	Faculty and Staff Development	25.77
5	Enhanced Interaction with Industry	3.80
6	Institutional Management Capacity Enhancement	1.63
7	Institutional Academic Reforms	9.58
8	Academic support for weak students	1.71
9	Incremental Operating Cost	18.13
<b>Total Expenditure at the time of report</b>		<b>175.16</b>

Summary of the major activities conducted under each of the above head are as follows:-

• **Table-1: Procurement Details**

Sl.No.	Equipment/Software/Learning Resources	Department	Amount in Rupees
1	10KVA UPS	CCC	216000
2	IP configurable LaserJet Printer	TEQIP-II Office	73200
3	IEEE/IEE standards, books, e-books CDs -PSIM Software	Electrical & Electronics Engg.	588000
4	Wireless communication set-up	Electronics & Communication Engg.	524475
5	Open Channel Meter	Applied Mechanics and Hydraulics	118560
6	Digital Logic Analyzer	Electronics & Communication Engg.	808500
7	Fermenter	Chemical Engg.	691031
8	LCD Projector	TEQIP-II Office	51450
9	Power Systems relaying work Benches	Electrical & Electronics Engg.	480900
10	Frequency Analyzer cum Precision Sound Level Meter	Mining Engg.	450000
11	Host Controller	Computer Science & Engineering	366975
12	Real Time data Acquisition	Electrical & Electronics Engg.	881980
13	FPGA Boards	Electronics & Communication Engg.	963144
14	Flue Gas Analyzer	Chemical Engg.	412923
15	Server Mounting Racks	Information Technology	34579
16	Ground truth radiometer	Applied Mechanics and Hydraulics	188930
17	Camcorder for Piracy Prevention	Information Technology	147800
18	Multimedia and HCI Lab	Information Technology	1028029

	Equipment		
19	Partial discharge analyzing and locating unit Using Acoustic emission technique	Electrical & Electronics Engg.	568125
20	Salt Spray bath unit	Metallurgical & Materials Engg.	612658
21	Software for micro simulation traffic movement along roads, driving cycle for vehicles and pollution	Civil Engg.	718203
22	Submicron Device Design software	Electronics & Communication Engg.	735000
23	MathworkMatlab	Computer Science & Engineering	326869
24	JMatPro Software	Metallurgical & Materials Engg.	991015
25	Traffic Micro simulation Software	Civil Engg.	424500
26	Low Altitude Hyper spectral Data Collection Unit	Applied Mechanics and Hydraulics	944625
27	Virtualization Servers and Storage Networks	CCC	2453661
28	MINEX Software	Mining Engg.	652124
29	In-Situ chloride	Civil Engg.	1096875
30	Software for Designing Building and Urban Transport Planning	Civil Engg.	837472
31	Asphalt Theoretical Density Tester	Civil Engg.	60188
32	Chemical Oxygen Demand Digester	Civil Engg.	59625
33	Geo-synthetic testing equipment	Civil Engg.	365569
34	University MD Motion and FEA Bundle	Mechanical Engg.	999453
35	Embedded Boards	Electronics & Communication Engg.	114923
36	Magnetic Sputtering Unit.-PVD	Metallurgical & Materials Engg.	3340883
37	Spectrophotometer	Civil Engg.	371209
38	Power System Simulation Package	Electrical & Electronics Engg.	995917
39	Desktop/server virtualization	Information Technology	707905
40	Electromagnetic Transient Analysis Package	Electrical & Electronics Engg.	135893

41	Workstation	Mathematical And Computational Sciences	496905
42	ANEKA.NET Cloud/ Grid Computing software	Computer Science & Engineering	500000
43	Eight Core Processor Workstation	Mechanical Engg.	933675
44	Ultra Pure Water Purification System	Chemical Engg.	367500
45	Refurbishment and expansion of Digital library facility	Central Library	873181
46	Ground Penetration Radar -GPR	Mining Engg.	7639048
47	High Performance Computing Equipments	Information Technology	1444372
48	High performance liquid chromatography-HPLC	Civil Engg.	1867167
49	Gel Permeation Chromatograph-GPC	Chemistry	2840218
50	Materials Testing Machine	Mechanical Engg.	3624638
51	Acrobat Professional XI	Computer Science & Engineering	166183
52	Photoluminescence Spectrometer	Physics	6112845
53	Numerical Model for coastal processes	Applied Mechanics and Hydraulics	5215892
54	HPC Cluster	CCC	20538740
55	Hot wire anemometry system	Mechanical Engg.	3448880
<b>Total</b>			<b>81608412</b>

### Teaching and Research Assistantships

A scheme to give an opportunity to young and bright engineering graduates to join as Half Time Teaching Assistants (HTTA), was introduced in NITK under funding from Technical Education Quality Improvement Programme-Phase II (TEQIP-II), a Centrally Sponsored Scheme of the Ministry of Human Resources Development, Govt. of India, with the approval of Board of Governors in its resolution No.22, dated 05-11-2011. This was a three year program based on the 'Teach While You Learn' concept. Each HTTA was paid an assistantship of Rs. 15,000/- per month up to a period of three years and these sixteen HTTAs have completed their studies during the month of July 2015. Four Post Graduate Research Assistants (PGRAs) were admitted to the Institution under the TEQIP-II project in the year 2012. Each PGRA is paid @ Rs. 25,000/- per month as Research Assistantship for the first 24 months and @ Rs. 28,000/- per month for the next 36 months. Two PGRAs have already completed their doctoral studies and were awarded PhD in the year 2016, remaining two are currently pursuing PhD in the department of Electronics & Communication Engg. & Mechanical Engg.

### **Research & Development**

- Three students during May 2015 to September 2015 and twenty one students during May 2016 to August 2016 attended MITACS programme under the scheme of Mobility program for Research Interaction with a financial support of Rs. 48.35 lakhs.
- Thirty eight students attended Spring Internship Programme at Kumamoto University during 02-03-2016 to 09-03-2016 and thirty two students attended the IES-2017 at Kumamoto University during 01-03-2017 to 03-03-2017 financial support of Rs. 26.10 lakhs.
- Fourteen Research Scholars have undertaken research interaction at various Top 200 QS ranking Universities in the World.

### **Some of the Projects funded under this head are:-**

- Design, Development and Commissioning of Automotive Warning System for unmanned level crossing of Indian Railways
- Design and Development of Electrical Power Distribution and Smart Water Management System for NITK Campus.
- Prognosis and diagnosis of osteoporosis and fracture risk assessment using image processing techniques.
- A Study on ICT Applications in Micro and Small Enterprises: Problems, Prospects and Concerns.
- Live Interdisciplinary R&D Project & Consultancy Exposure in Management and Engineering to Faculty and Students through Micro, Small and Medium Enterprises.
- Plastic Waste Management System.
- Smart Irrigation Management System.
- Waste Paper Recycling Management System.
- A cost effective open-source camera trap for wildlife conservation and research applications.
- The Impact of Technology Revolution in the Handloom Sector - Prospects, Problems and Challenges.

### **Faculty and Staff Development**

Based on the Annual Training Need Analysis (TNA) conducted by the Institute, a detailed Faculty and Staff Development Plan has been drawn to train the entire faculty and staff of the Institute in subject knowledge, research competence up gradation as well as in basic and advanced pedagogy. 102 Faculty members have visited abroad for research interaction with top 200 QS ranking Universities. In addition to this, 189 National workshop/conferences/seminars and 07 International conferences/symposia were conducted under the same head.

### **Enhanced Interaction with Industry**

Experts from the following industries were invited to this Institute to give lecture on advanced topics in engineering and management.

- Bosch Rexroth Ltd, Bangalore
- Dell R&D, Bangalore
- ISRO, Bangalore
- Ambuja Cements Ltd, Mumbai

- Syngene International, Bangalore

### **Institutional Management Capacity Enhancement**

- Prof. Narendranath S Dept. of Mechanical Engg attended Management Capacity Enhancement Programme at IIM Raipur during 23-03-2015 to 28-03-2015.
- Prof. A. Kandasamy, Dean (FW) & Prof. Udayakumar R. Y., Dean (SW) attended Management Capacity Enhancement Programme at IIM Udaipur during 08-06-2015 to 13-06-2015.
- Prof. Varghese George, Dept. of Civil Engineering attended Management Capacity Enhancement Programme at IIM, Indore during 23-08-2016 to 29-08-2016.
- Dr. G. Ram Mohan Reddy, Professor and Head, Dept. of Information Technology attended Management Capacity Enhancement Programme at Indian Institute of Management, Udaipur during 13-02-2017 to 18-02-2017.
- Prof. K. Chandrasekaran, Dept. of Computer Science and Engineering attended a Management Capacity Enhancement Programme at Indian Institute of Management, Trichy, Chennai Campus during 06-02-2017 to 10-02-2017

### **Institutional Academic Reforms**

- Accreditation fee for 09 B.Tech and 18 M.Tech programmes were paid to NBA under this head.
- A workshop was conducted to acquaint faculty and staff members with the philosophy, finer points and nuances of the NBA Accreditation process in NITK during 14-03-2014 to 15-03-2014.
- Six senior professors attended the 3rd World Summit on Accreditation (WOSA - 2016) during 18-03-2016 to 20-03-2016.

### **Academic Support for Weak Students**

- Two Self enrichment programme for academically weak students of first year B.Tech & M.Tech during 30-08-2011 to 04-09-2011 and 24-10-2012 to 28-10-2012.
- One Peer mentoring programmes for academically weak students of B. Tech. & M. Tech have been conducted in E&C Engineering Department during 12-02-2015 to 16-04-2015.
- Two Personality Development workshops (one in E&C Department and the other in Mechanical Engineering department) have been conducted for the postgraduate students of these departments in the months of December 2012 and April 2013. These workshops were designed to improve the proficiency of the students in English language and also impart necessary soft skills as well as professional etiquette to enable them to secure important positions in leading industries in India and abroad.
- One Finishing school was conducted for M.Tech students of VLSI Design, Communication Engg. Department of Electronics & Communication Engg. and M.Tech students of Mechatronics Engg. Department of Mechanical Engg. during 12-08-2014 To 30-09-2014.

### **Incremental Operating Cost**

Two Programmes of National Importance titled as (a) “Workshop on Skill Development”, (b) “Workshop on Mission Make in India” in line with Govt. of India vision and one more (c) “Workshop on Good Governance for Enhancing the Capabilities of Technical Education in India”, were conducted during the year 2015 with the participation of members from neighboring Industries/Institutions and experts from National level Institutions.

Prof. Sounak Kumar Choudhury from IIT Kanpur nominee of NPIU as Mentor visited this Institution twice during December 2012 and December 2014 and interacted with all the concerned Nodal Officers, faculty members, Non-Teaching Staff and students. He has submitted a comprehensive report to NPIU. The Performance Auditor Prof. Prasanta Kumar Das from IIT Kharagpur and DATA Auditor Prof. D V S S Siva Sarma from NIT, Warangal also visited this Institute and have verified all the relevant data with reference to documentary evidence and submitted a comprehensive report to NPIU.

Annual financial accounts have been audited by a qualified Chartered Accountant as required in guidelines and audit reports thereon have been sent to NPIU. Bi-Annual Internal Audits have been conducted periodically by a Senior Internal Auditor of the Institute in accordance with the guidelines stipulated in Financial Management Manual and reports have been sent to NPIU regularly.

Information pertaining to Students, Faculty and staff members such as Student Transition, Internship, Placement, Faculty Attending/Organized Workshop/Conferences/training programme, Publication, consultancy etc are uploaded on the MIS portal for the Academic years from 2010-11 to 2015-16. Additionally, it is heartening to report that NITK is the only Institute among CFIs which has achieved all points consistently earmarked towards Performance Assessment Indicators (Joint Review Mission) under the project.

The MHRD, Government of India, included NITK together with other 17 NITs to invest additional fund under the scheme of Modernizing NITs and received a sum of Rs. 15 million to Modernize Laboratories and develop Smart Classrooms with additional procurement of equipments and software through PMSS of the Project.

## 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 2016-17 is Rs. 1.30 (One Crores thirty Laks)

IIP 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 Civil Engineering

Name of Industry	Nature of Collaboration (academic, research, training, etc)	Period/Duration
Rex Polyextrusion, Sangli, Maharashtra	Research	January 2017-
Environment Research Group, Research development and scientific services Division, Tata Steel, Jamshedpur.	Research	July 2016- January 2020.
Kirloskar Ferrous Industries, Koppal.	Research	December 2014 onwards

#### Department of Computer Engineering

Name of Industry	Nature of Collaboration (academic, research, training, etc.)	Period/ Duration
IBM India Pvt. Ltd.	Academic and Training	2016-2019

Establishment of a new research group named "NITK-IBM Computer Systems Research Group (NCSRGR)" at NITK, Surathkal in order to foster long-term collaboration between IBM India Systems and Development Labs (ISDL) and NITK, Surathkal.

**Department of Chemical Engineering**

<b>Name Of Industry</b>	<b>Nature Of Collaboration (Academic, Research, Training. Etc.)</b>	<b>Period / Duration</b>
Lakshmi Cryogenics, Baikampady, Mangalore	M&T Consultancy under MSME forum in CSD	Oct 2016 to till date
Simcon Laboratories Pvt. Ltd., Baikampady Ind. Area, Mangalore,	Academic/Training To UG PG Stduents	During Summer Vacation May To July 2016
Hindustan Organic Chemicals, Kochi,	-Do-	-Do-
The Travancore – Cochin Chemicals Ltd., Udyogmandal, Kochi	-Do-	-Do-
Bal Pharma Ltd, Bommasandra Ind.Area, Bangalore	-Do-	-Do-
Electromineral Division, Carorundum Universal Limited, Edapalli, Ernakulum	-Do-	-Do-
Karnataka Milk Federation , Dharwad	-Do-	-Do-
BASF, The Chemicals Company, Surathkal,	-Do-	-Do-
SHRM Biotechnologies Pvt. Ltd., Kolkata	-Do-	-Do-
Helix Bopgenesis, Noida	-Do-	-Do-
Biological E. Limited, QC & Production Dept., Dehradun	-Do-	-Do-
Keshava Deva Malaviya Instt. Of Petroleum Exploration, ONGC, Dehardun	-Do-	-Do-
True Tech Solutions, Bangalore	-Do-	-Do-
Environmental Survey Laboratory, Bhabha Atomic Research Centre, Kakrapar Atomic Power Station, Gujarat	-Do-	-Do-
Process Development Lab., Wockhardt Biotech-Park, Aurangabad	-Do-	-Do-
SMS Common Eff;lemt Treat,Emt Plant Pvt. Ltd., Waluj, Aurangbad, Maharshtra	-Do-	-Do-
MRPL, Mangalore	-Do-	-Do-
KIOCL, Mangalore	-Do-	-Do-
MCF, Mangalore	-Do-	-Do-
Reliance Group of Ind. , Gujrat	-Do-	-Do-

**Department of Electrical & Electronics Engineering**

<b>Name of Industry</b>	<b>Nature of Collaboration (academic, research, training, etc)</b>	<b>Period/Duration</b>
ABB Global Industries and Services Ltd.,Bhoruka Tech Park, III Floor, Block 1, Mahadevapura, Whitefield Road, Bangalore, Karnataka, 560 048, INDIA	Studies of Voltage & frequency profile under Bus transfer conditions in multi machine environment.	2015-16
Central Power Research Institute (CPRI)	Academic and Research resulting in joint publication with Dr G S Punekar	Over the entire year
Mangalore Chemical and Fertilizers (MCF)	Research and Training with the involvement of the PG student under the Guidance of Dr G S Punekar resulting in joint publication.	June-July 2016
MRPL-OMPL Mangalore	Academic, training and research with the association of Ms Akshatha Kotharkar (MRPL-OMPL) and Dr G S Punekar (NITK)	Over the entire year
Infineon Technologies Asia Pacific Pte Ltd	MOU signed between Infineon Technologies Asia Pacific Pte Ltd and NITK	Signed on 6 <sup>th</sup> April

**Department of Electronics & Communication Engineering**

<b>Name of Industry</b>	<b>Nature of Collaboration (academic, research, training, etc)</b>	<b>Period/Duration</b>
Texas Instruments, Bangalore	B.Tech Major Project	2016-2017
Intel mobile communications India Pvt. Ltd, Bangalore	MTech CE & MTech VL Major Project	2016-2017
Intel Technology India Pvt. Ltd, Bangalore		
Microsemi India Pvt. Ltd, Hyderabad		
GE HTC, Hyderabad		
Cypress Semiconductor Technology Pvt. Ltd, Bangalore		
Wipro GE healthcare Bangalore		
Infenion Technologies, Bangalore		
TCS Bangalore		
SAMEER, Chennai		
NAL, Bangalore		

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NI Systems, Bangalore		
nVidia Graphics, Bangalore		
FluxGen Enigneering Pvt. Ltd, Bangalore Qualcomm India Pvt. Ltd. New Delhi ARM Embedded Technologies Pvt. Ltd, Bangalore Samsung Semiconductors India R&D, Bangalore Ittiam Systems Pvt Ltd,Bangalore Texas Instruments India, Bangalore Intel India Pvt Ltd, Bangalore Siemens Technology and Services Pvt. Ltd. BSNL	BTech Internships	2016-2017

***Department of Information Technology***

<b>Name of Industry</b>	<b>Nature of Collaboration (academic, research, training, etc)</b>	<b>Period/Duration</b>
Oracle India	Academic, Training	July 2016
IBM India	Research	August 2016

***Department of Mechanical Engineering***

<b>Name of Industry</b>	<b>Nature of Collaboration (academic, research, training etc)</b>	<b>Period/Duration</b>
M/s Wolfram Research, Inc. USA (WRI)	Mathematical Modelling Collaborative research	September 16, 2016 5 Years
WABCO India Limited	Collaborative research and student Internship	April 19,2016 3 Years
University of California Berkeley Mechanical Engineering (Combustion Group) Berkeley, California	Faculty exchange/ Student exchange/ Joint Research	April 4, 2016 5 Years
Hexagon Capability Center India Private Limited	Mechanical Engg. Collaborative research	October 14, 2015 3 Years
Design Innovation Centres, Indian Institute of Science, Bangalore	Product Design	April 27, 2015 3 Years
Robert Bosch Engineering and Business Solutions Limited (RBEI), Bangalore	Mechanical /Electronics Collaborative research and student Internship	August 31, 2013 Renewed up to 2019
Mercedes-Benz Research and Development India Private	CSE/E&C/Mech. Joint Research Projects	June 10, 2013 5 Years

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Limited (MBRDI), Bangalore	Student/Staff exchange Experts for Special Courses	
Centre for Nano Science and Engineering (CeNSE) Indian Institute of Science, Bangalore	MEMS; Joint workshops; Students & Faculty exchange	June 10, 2013 5 Years
AB Volvo Group Sweden	Mechanical /E &C /CSE / IT Preferred Talent Partner student Internship Collaborative research	September 25, 2013 5 Years
Moog India Technology Center Pvt. Ltd.	Collaborative research and student Internship	March 3, 2014 5 Years

***Department of Mining Engineering***

<b>Name of Industry</b>	<b>Nature of Collaboration (academic, research, training, etc)</b>	<b>Period/Duration</b>
M/s. Insmart Systems, Hyderabad	Established State-of the art Mineral Processing Laboratory in the Department.	2014-2017

***Department of Metallurgical & Materials Engineering***

<b>Name of Industry</b>	<b>Nature of Collaboration (academic, research, training, etc)</b>	<b>Period/Duration</b>
Kompetenzzentrum Holz GmbH, Linz, Austria.	Research collaboration	2010 – till date
Kennametal	Academic	August 2016 to May 2017/ 10
NAL	Academic	-Do-

***Department of Physics***

<b>Name of Industry</b>	<b>Nature of Collaboration (academic, research, training, etc)</b>	<b>Period/Duration</b>
Raman Research Institute, Bangalore	Research(Joint Supervision of the Ph.D.student	since 2015 onwards, ongoing
NAL, Bangalore	Research(Joint Supervision of the Ph.D.student	since 2014 onwards, ongoing

## 19 SIGNIFICANT ACHIEVEMENTS

### 19.01 Notable Achievements

#### Department of Applied Mechanics and Hydraulics

#### Noble achievements of Department (Important ones in past 3 years)

Sl. No.	Subject/Head of Information	Name/Title	Dates	No. of participants
1	Workshop	Conservation of Water Resources of West Flowing Rivers of Coastal Karnataka	December 14 – 15, 2012	120
2	Workshop	Geoinformatics for Natural Resource Management	30 – 31 January, 2013	55
3	Workshop	Geoinformatics for Water and Coastal Engineering	23-24 September, 2013	90
4	Symposium	Outstanding Issues for Hydrological Research in India'	October 21, 2013	112
5	Workshop	Recent trends in system application as applied to Civil Engineering	January 9, 2015	100
6	International Conference	Water Resources, Coastal and Ocean Engineering (ICWRCOE'15)	March 12-14, 2015	350
7	CEP	Design and management of irrigation schemes	27-31 July, 2015	19
8	CEP	Water supply and sanitation schemes	24-29 Aug., 2015	15
9	Workshop	workshop on Open source Latex software for students of the department	Aug.15, 2015	75
10	Workshop	Workshop on Open source CFD titled 'Reef 3D : Open source CFD for Hydraulic and Coastal Engineering flow for students of the department	Sept. 14, 2015	75
11	Workshop	Workshop on Water Resources Management under changing environment	Oct. 20, 2015	100
12	Workshop	Tsunami Threats and its mitigation along Indian coast	Nov. 2, 2015	
13	Workshop	Research Scholars Day & lecture series on 'Scientific Research- Hurdles and solutions'	Nov. 20, 2015	110

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14	Workshop	Prakruthi Infocus	Jan. 9, 2016	100
15	Workshop	Satellite Remote Sensing based Societal Applications	June 30 2016	60
16	CEP	Advanced Surveying, Total Station, GIS, GPS & Mapping	25-29 July, 2016	25
17	Training Programme	Mike 21 Software	22-26 August, 2016	30
18	CEP	Flood forecasting, flood routing and emergency preparedness of reservoir	19-23 Sept., 2016	15
19	Workshop	Rainfall Run off-Modelling	26-30 Sept., 2016	40
20	Workshop	Coastal Hydrodynamics and modelling'	Oct. 7,2016	86
21	Workshop	Microwave Remote Sensing	17-18 Oct. 2016	75
22	GIAN Course	Offshore Renewable Energy (Wave, Wind and Tidal Energy)	7 <sup>th</sup> -11 <sup>th</sup> November,2016	70
23	GIAN Course	Geo statistical Analysis of Environmental Data	December 05-09, 2016	55
24	Workshop	Prakriti Infocus	Feb. 4,2017	570
25	Workshop	Past, present and future scenarion in Marine Structures	Feb. 20, 2017	90

**(i) Visits abroad by Faculty members**

<b>Name of the Faculty</b>	<b>University/ Institute/ Organisation</b>	<b>Place</b>	<b>Purpose</b>	<b>Duration</b>
Dr. Debabrata Karmakar	Department of Naval Architecture and Marine Engineering, University of Michigan	Michigan, USA	Research Interaction	June 26 & July 3, 2016
Dr. Manu	World Academy of Science, Engineering and Technology (WASET.org)	Zurich, Switzerland	attend 19 <sup>th</sup> International Conference on Coastal and Ocean Engineering – ICCOE 2017	January 13-14, 2017
Dr. Pruthviraj U.	World Academy of Science, Engineering and Technology (WASET.org)	Zurich, Switzerland	attend 19 <sup>th</sup> International Conference on Coastal and Ocean Engineering – ICCOE 2017	January 13-14, 2017

**Department of Chemical Engg.**

**Achievements during 1<sup>st</sup> April 2016 To 31<sup>st</sup> March 2017**

**Foreign visits made by faculty**

<b>Name Of Faculty / Staff</b>	<b>Purpose of visit</b>	<b>Organisation</b>	<b>Dates &amp; Duration Of Training</b>
Dr. Prasanna Belur D	Research Interaction	Stellenbosch University, South africa	August 22-27, 2016 (one week)
Dr. Hari Prasad Dasari	International Conference (5 th International Conference on Nano and Materials Science.	South Asia Institute of Science and Engineering (SAISE), San Diego, USA	January 19-21, 2017.
Keyur Raval	Research interaction	RWTH Aachen, Germany	June 28 to July 5, 2016
Dr.Gangamma S	Research	Queen Mary University of London	August 13-30, 2016

**Department of Civil Engineering**

**Past Achievements of Department (Important ones in past 3 years)**

<b>Achievements up to 31<sup>st</sup> March 2016</b>	<b>Achievements during 1<sup>st</sup> April 2016 to 31<sup>st</sup> March, 2017</b>
<ul style="list-style-type: none"> <li>• American Society of Civil Engineers has issued the charter for National Institute of Technology Karnataka Student Chapter.</li> <li>• The Department received the financial support to the tune of INR 110.8 Lakh under FIST-2013 scheme of the Department of Science and Technology, Government of India.</li> <li>• L&amp;T Sponsored M.Tech Programme in Construction Technology and Management.</li> <li>• 5-Year NBA Accreditation for B.Tech Civil Engineering Programme.</li> </ul>	<ul style="list-style-type: none"> <li>• MOU Signed with INRA, FRANCE</li> <li>• 5-Year NBA Accreditation for M.Tech Programmes in                         <ul style="list-style-type: none"> <li>○ Structural Engineering</li> <li>○ Geotechnical Engineering</li> </ul> </li> </ul>

**Department of Computer Science & Engineering**

**Past Achievements of Department (Important ones in past 3 years)**

<b>Achievements up to 31<sup>st</sup> March 2016</b>	<b>Achievements during 1<sup>st</sup> April 2016 to 31<sup>st</sup> March 2017</b>
<p><b>Faculty achievements:</b></p> <ul style="list-style-type: none"> <li>✓ Prof. Swapan Bhattacharya, the esteemed Ex-Director of NITK Surathkal was honoured with The ET NOW National Education Leadership Award.</li> <li>✓ Dr.K.Chandrasekaran is nominated as a member in the Editorial board of IEEE transactions on Cloud Computing.</li> <li>✓ Dr.K.Chandrasekaran is selected as one of the members of the “IEEE Cloud Computing STC’s conference Executive TCS Committee”, USA.</li> <li>✓ Dr. Mohit P. Tahiliani received the "EMC Young Achiever Awards 2015" from EMC Corporation on 12<sup>th</sup> February 2015 at Le-Meridian Chennai.</li> <li>✓ A six day International Summer School on “Leading Edge Software Engineering (ISS-LESE 2014)”, 3<sup>rd</sup> – 8<sup>th</sup> March 2014.Organizing Chair: Dr. K. Chandrasekaran</li> <li>✓ Second International Conference on Advanced Computing, Networking and Security - ADCONS '13, 15<sup>th</sup>–17<sup>th</sup> December 2013. Organizing Chairs : Dr.Annappa&amp; Dr. Ananathanaraya V.S</li> </ul> <p><b>Students achievements:</b></p> <ul style="list-style-type: none"> <li>✓ Prof. V. Rajaraman’s cash Award to ChetanDugar (10CO106), VIII B.Tech.(CSE) for highest CGPA from I to VII semester for the year 2013-14.</li> <li>✓ HarshaVardhana (2009-13), Guinness world record, participated in largest</li> </ul>	<p><b>Faculty achievements:</b></p> <ul style="list-style-type: none"> <li>✓ Dr. Jeny Rajan received “Young system scientist award, 2016” from System Society of India on 4<sup>th</sup> November 2016.</li> </ul> <p><b>Students achievements:</b></p> <ul style="list-style-type: none"> <li>✓ Team "code_pheonix", comprising of Ajinkya Parab, Prabhu Dayal Sahoo, Yogesh Gaturle, final year B.Tech, CSE students have for the first time in the history of NITs reached the world finals of the ACM-ICPC 2017 to be held at Rapid City, South Dakota, USA.</li> </ul>

Achievements up to 31 <sup>st</sup> March 2016	Achievements during 1 <sup>st</sup> April 2016 to 31 <sup>st</sup> March 2017
<p>mobile phone gaming party involved 343 participants on 15th March 2013.</p> <ul style="list-style-type: none"> <li>✓ IEEEExtreme Programming Contest 6.0: Team KodeKallas: Ananthatejas R (09CO12), Suhas G P, Shanshank S was ranked I in India with global rank of 91(2009-13).</li> <li>✓ Ananthatejas Raghavan and Madhuri Shanbhogue(2009-13 B.Tech.) received the Richard E Merwin scholarship from IEEE Computer Society.</li> <li>✓ Team comprising of Chandramouli Sharma(10CO21) VIII semester B.Tech., VivekYadav, and Madhuri Shanbhogue(2009-13 B.Tech.), were among the top 10 for the idea of Interactive Environmental Science Platform which are already been taken up as a project in IEEE Computer Society.</li> <li>✓ Prof. V. Rajaraman's Cash award to AbhinitModi (2009-13 B.Tech.) for highest CGPA from I to VII semester for the year 2012-13.</li> <li>✓ Arun V. Hegde Memorial Cash Prize for Dhivya A(10CO26),VI semester B.Tech.(CSE) and Abhinit Modi(09CO02), VIII B.Tech.(CSE) securing more than 7.5(S.G.P.A.).</li> <li>✓ Mr. Sreecharan Sankaranarayanan, IV year B.Tech.(CSE) has been accepted to the Ph.D. program of the Language Technologies Institute in the School of Computer Science at Carnegie Mellon University starting in the Fall 2015 semester with Research Fellowship.</li> <li>✓ Ms. ShruthiPuranik, III year B.Tech. will be doing Research Internship on "Mining Mobile Software Repositories" at Queen's University Kingston, Canada under the scheme of "Student research Mobility Programme" with MITACS, Canada during May-September 2015.</li> <li>✓ Arun V. Hegde Memorial Cash Prize for Pranav Thulasiram Bhat (12CO65), VI semester B.Tech.(CSE) and Pranav Bhat T (11CO66), VIII B.Tech.(CSE) securing more than 7.5(S.G.P.A.).</li> </ul>	

<b>Achievements up to 31<sup>st</sup> March 2016</b>	<b>Achievements during 1<sup>st</sup> April 2016 to 31<sup>st</sup> March 2017</b>
<ul style="list-style-type: none"> <li>✓ Prof. V. Rajaraman's Cash award to PranavBhat T (11CO66) for highest CGPA from I to VII semester for the year 2014-15.</li> <li>✓ Adityakumar Mishra, II year M.Tech (CSE) published a journal paper "Supervised Learning Method to Cluster XML Documents with reduced Complexity", in International Journal of Advanced Technology in Engineering and Science, Volume No.03, Special Issue No. 01, March 2015 ISSN (online): 2348 – 7550".</li> <li>✓ Sumanta Chatterjee, I year MTech CSE-IS) 2014-2016 won Infosys In-Step Business Plan Competition July 2014</li> <li>✓ Gaurav Verma, 2012-2016 won Gold Medal in All India Design Competition for Engineering Students, 2015 Organized By The Institute of Engineers (India) on 11 October 2015</li> <li>✓ Shubham Badal, 2012-2016 founded CybrHome (CybrHome is a platform to discover websites and share them with friends) in 2015. Achievements: Top 25 student entrepreneur (Tata First Dot 2015), Microsoft BizSpark start-up, Facebook FB-start. Featured in leading National dailies, including Times of India, The New Indian Express and Bangalore Mirror. www.cybrhome.com</li> </ul>	

### ***Department of Chemistry***

<b>Achievements up to 31<sup>st</sup> March 2016</b>	<b>Achievements during 1<sup>st</sup> April 2016 to 31<sup>st</sup> March 2017</b>
<ul style="list-style-type: none"> <li>• Best poster presentation award to Mr. Dickson D. Babu, for the paper on Design and Synthesis of New Organic Sensitizers for DSSCs, in national conference on 'Advanced Materials for Energy and Environment Applications (AMEEA), 2015, March 18-20, Bharathidasa University, Coimbatore. A publication (Dickson et al.) appeared in</li> </ul>	<ul style="list-style-type: none"> <li>• Prof. A.V. Adhikari conducted a short term course on "Novel Functional Materials for Energy Conversion" by GIAN (Global Imitative for Academic Networks), MHRD, New Delhi. The Guest Faculty: Prof. Prashanth V. Kamath, Notre Dame University, USA, during October 04-07, 2016. Grant sanctioned: Rs. 5.44 lakhs.</li> <li>• Dr. Darshak R. Trivedi received JSPS Bridge Fellowship to conduct research</li> </ul>

<p><i>Dyes and Pigments</i> was the 4<sup>th</sup> Top 25 hottest articles during July-Sept. 2014. A publication (Ahipa et al) appeared in <i>Spectrochim Acta A Mol Biomol Spectrosc</i>, 2014 in August was the 7<sup>th</sup> top articles published during the year 2014.</p> <ul style="list-style-type: none"> <li>• The department received the Single Crystal X-ray diffractometer, costing Rs. 155 lakhs under DST-FIST, to facilitate single crystal X-ray diffractometer in the department. (Five year project). The instrument has been successfully installed and is working satisfactorily.</li> <li>• Commonwealth Academic Fellowship to Dr. B .Ramachandra Bhat, worked at Northumbria University, New Castle Upon tyne, UK from January 19, 2015-April 18, 2015.</li> </ul>	<p>at Japan with host Professor Norifumi Fujita at Meijo University, Nagoya, Japan from December 3, 2016 to January 7, 2017.</p>
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**Department of Electrical & Electronics Engineering**

<b>Achievements up to 31<sup>st</sup> March 2016</b>	<b>Achievements during 1<sup>st</sup> April 2016 to 31<sup>st</sup> March, 2017</b>
<p>Mr. Tukaram Moger received IEEE Publication Paper award 2014 for the Paper title “fuzzy Logic Approach for curtailed number of controllers for voltage control in Grid Connected Wind farms”, from IEEE Bangalore section, India</p> <p>The IEEE Bangalore section has awarded a best paper 2014 for the IEEE Transaction paper: Shashidhara M. Kotian and K.N.Shubhanga “Performance of Synchronous machine models in a series-capacitor compensated system, “ EEE Transaction on Power Systems, Vol.29, No.3, pp 1023-1032, May2014</p>	<p>National best thesis award for Master thesis PPSA- 2017 of POSOCO is received by Mr Swroop Kishan Singh of CTM for the thesis “FEM Based Analysis of E-Field Distribution in A 765 kV Switchyard: A Study with reference to ICNIRP Guidelines” under the guidance of Dr G S Puneekar</p>
<p>Following M.Tech students conferred with POSOCO power system award )PPSA)-2015 by Power System Operation Corporation Ltd(POSOCO) and Foundation for Innovation and Technology Transfer (FITT) at IIT Delhi. The award includes cash prize of Rs.30000/- and a citation</p> <p>Ms. A.G. Priyanka and Ms. Ritty Raju (who worked under the guidance eof Dr.</p>	

<p>K.N.Shubhanga) A.G.Priyanka bagged 8<sup>th</sup> position and Ritty Raju secure 14<sup>th</sup> place out of 25 awards)                  Ms. Meghana R., (student of Dr. G.S. Punekar)                  Miss Geethi Krishnan, M.Tech (by research) (Worked under the guidance of Dr. D.. Gaonkar)                  Mr. Vanjari Venkata Ramana – M.Tech (by research worked under the guidance of Dr. D. Jena)</p>	
<p>POSOCO POWER SYSTEM AWARD (Shortlisted) Masters' category (POSOCO Power System award- PPSA-2016) Total awards 25                  Name of the Student: Ms. Prashanthi                  Name of the Guide: Dr. K.N. Shubanga</p>	

***Department of Electronics And Communication Engineering***

**Notable Achievements: Achievements during the period of report**

<p><b>Achievements during 1<sup>st</sup> April 2016 to 31<sup>st</sup> March, 2017</b></p> <p><b>Best paper award</b> for the paper titled “<b>A Novel Dual-Gate Nano-Scale InGaAs Transistor with modified Substrate Geometry</b>” 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.</p> <p><b>Best paper award</b> for the paper titled “<b>A Low-Energy Area-Efficient Dual Channel SAR ADC Using Common Capacitor Array Technique</b>” by Sridhar Reddy N, Jagadish D. N. and M.S Bhat in the IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics 2016 (DISCOVER 2016) held during Aug. 13-15, 2016.</p> <p>Ankit Shah (2015), secured certificate of appreciation at <b>Gandhian Young Technological Innovation (GYTI) Awards 2017</b> held at Rashtrapathi Bhavan, New Delhi</p>
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***Department of Information Technology***

<p><b>Achievements during 1<sup>st</sup> April 2016 to 31<sup>st</sup> March 2017</b></p> <p>Fourteen batches of UG (B.Tech) and Five batch of PG(M.Tech) students have successfully completed their graduation in IT stream so far.</p> <p>Around 94% placements in B.Tech and 100% placements in M.Tech during 2016-17.</p> <p><b>Best Paper Award</b></p> <ul style="list-style-type: none"> <li>• Second Best Paper award to Ashwin T S and <b>G Ram Mohana Reddy</b>, "Video Affective Content Analysis based on Multimodal Features using a Novel Hybrid</li> </ul>
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<p>RBM-SVM Classifier" at the 3rd UPCON Conference [UPCON-2016], Dec 9-11, 2016</p> <ul style="list-style-type: none"> <li>• Second Best Paper award to Manjunath Vanahalli and <b>Nagamma Patil</b>, "Association Analysis of Significant Frequent Itemsets mined from High Dimensional Datasets" at the 3rd UPCON Conference [UPCON-2016], Dec 9-11, 2016</li> <li>• Mandar Shaha and <b>Sowmya Kamath S</b>, "A Quality-centric Scheme for Web Service Ranking using Fuzzified QoS Parameters" at 2016 International Conference on Advanced Computing, Networking, and Informatics [ICACNI-2016], Sept 22-24, 2016 (<u>ACM Kolkata Chapter - ICACNI 2016 Best Paper Award in Networking track</u>)</li> </ul>
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### Department of Mathematical & Computational Sciences

Achievements up to 31 <sup>st</sup> March 2016	Achievements during 1 <sup>st</sup> April 2016 to 31 <sup>st</sup> March 2017
<p><b><u>P. Sam Johnson</u></b></p> <ul style="list-style-type: none"> <li>• PhD Produced : 01 (S. Balaji, 2014, A Study on Semiclosed Subspaces and Semiclosed Operators in Hilbert Spaces)</li> <li>• Organized National-Level Workshops : 02 <ul style="list-style-type: none"> <li><b>(a)</b> Organized a national-level workshop on "Functional Analysis and Operator Algebras" sponsored by NBHM during 02-07, June 2014.</li> <li><b>(b)</b> Organized a national-level workshop on "Topological Dynamics" sponsored by NBHM during 10-12, December 2015.</li> </ul> </li> </ul>	<p><b><u>P. Sam Johnson</u></b></p> <ul style="list-style-type: none"> <li>• Completed a project funded by DST</li> <li>• PhD Thesis Submitted : 01</li> <li>• Invited Talks Arranged : 07</li> <li>• Invited Talks Delivered : 05</li> </ul>
	<p><b><u>Kedarnath Senapati</u></b></p> <ul style="list-style-type: none"> <li>• I have submitted a research article to an SCI indexed journal for publication.</li> </ul>

### Department Of Mechanical Engineering

Achievements up to 31 <sup>st</sup> March 2015	Achievements during 1 <sup>st</sup> April 2015 to 31 <sup>st</sup> March 2016
<ul style="list-style-type: none"> <li>➤ The department has got to its credit the research projects granted by DST and ARDB</li> <li>➤ The department conducted Two International Conference and one national conference.</li> <li>➤ 5 Year NBA accreditation for UG</li> </ul>	<ul style="list-style-type: none"> <li>• The department has Published 74 papers in Journals and 35 papers in conferences.</li> <li>• 5 Year NBA accreditation for Three PG programs</li> <li>• Awarded Grant of Imprint and DST FIST</li> </ul>

	<p>projects worth 6.25 crores</p> <ul style="list-style-type: none"> <li>• Obtained Seventeen Research projects from various funding agencies</li> <li>• Setting up of Hexagon 3D (Next Gen) Lab</li> <li>• Setting up of DIC with IISc as Mentor</li> <li>• Two UG students got admitted to IIM Bangalore</li> <li>• Filing of 2 IPR in association with KMC Mangalore</li> <li>• Conducted three GIAN programs</li> <li>• Organised Eight technical workshop</li> <li>• The Department has MoU with Volvo Robert Bosch, Moog India Technology Centre, Wabco, MBRDI, Hexagon, Wolfram etc for academic and research purpose</li> </ul>
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### **Department of Mining Engineering**

#### **Significant Achievements**

<b>Name of Faculty/ Staff</b>	<b>Achievement</b>
Dr.M.Aruna	<ul style="list-style-type: none"> <li>• Nominated as a member of District Level Environmental Appraisal Committee (DEAC) for Udupi District (2016-17).</li> <li>• Nominated as a member of District Level Environmental Appraisal Committee (DEAC) for Karwar District (2016-17).</li> </ul>
Prof.V.R.Sastry	LUMINARY IN MINING EDUCATION IN INDIA Award from CSIR- CIMFR

#### **Past Achievements of Department (Important once in past 3 yrs)**

The Department is well known in industries related to Mining and Construction sector for its technical expertise and is actively involved in consultancy projects. The Department has generated around Rs.2.00 Crores in consultancy works in the last three years. At present four R&D Projects are going on in the Department.

In the recent NBA accreditation exercise, the Department has obtained accreditation for 5 years with fairly good score in all the key components. The Department has organized 12 guest lectures from eminent personalities invited from various Institutions, Industries and Research Organizations. The Department has established a new state-of the art Mineral Processing Laboratory at a cost of Rs.1.45 Crores in collaboration with M/s. Insmart Systems, Hyderabad.

Some of the faculties are either Editors or Editorial Board Members of reputed National and International Journals. A number of faculty of the department are also serving as reviewers of several professional journals of national and international repute.

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The faculty of the Department are also holding key positions in Board of Directors of reputed Public sector undertakings.

## **Department of Metallurgical And Materials Engineering**

### **Infrastructure Development**

#### **Notable Achievements: Achievements during the year**

<b>Achievements up to 31<sup>st</sup> March 2016</b>	<b>Achievements during 1<sup>st</sup> April 2016 to 31<sup>st</sup> March 2017</b>
Total no. of Ph.Ds produced= 37	Total no. of Ph.Ds produced = 4
Total No. of Paper Published = 539	Total No. of Paper Published = 66

#### **Special talk from Institute/Industries/R&D**

<b>Sl. No.</b>	<b>Name of the Guest</b>	<b>Topic</b>	<b>Date</b>
1	Mr. Santhosh Hegde Ex. Associate Vice President Jindal Steel & Power Limited – Angul (ODISHA)	Steel Plant Process Technology: Indian Scenario	April 01, 2016
2	Prof. K. Chattopadhyay Dept. of Materials Engineering IISc., Bangalore	Playing with Ordering to Design New High Temperature Alloys	Jan. 06, 2017
3	Dr. Satyanarayan Sr. Associate Professor Dept. of Mechanical Engineering Alva's Institute of Engg. & Tech., Mijar, Moodbidri	Welding of Dissimilar using Underwater Explosive Technique	Jan. 27, 2017
4	Dr. M. N. Satyanarayan Associate Professor & Head Dept. of Physics NITK, Surathkal.	Organic Materials	Jan. 13, 2017

## **Department of Physics**

<b>Achievements up to 31<sup>st</sup> March 2016</b>	<b>Achievements during 1<sup>st</sup> April 2016 to 31<sup>st</sup> March 2017</b>
<ul style="list-style-type: none"> <li>Best paper award to “Effect of substrate temperature on the structural and electrical properties of spray deposited lead sulphide thin films” by Veena E, Kasturi V. Bangera &amp; G.K.Shivakumar, International Conference on Recent advances in Nanoscience &amp; Technology, Sathyabama University, Chennai, July 8 to 10, 2015.</li> </ul>	<ul style="list-style-type: none"> <li>Best oral presentation award to “Growth and characterization of spray deposited gallium doped SnO<sub>2</sub> thin films” by M.S. Preethi, S. P. Bharath and Kasturi V. Bangera, 4<sup>th</sup> National conference on condensed mater physics and applications, Manipal university of technology, Manipal, May 23-24, 2016</li> </ul>

### **School of Management**

<b>Achievements during 1<sup>st</sup> April 2016 to 31<sup>st</sup> March 2017</b>
Dr. S. Pavan Kumar, Won MICA Dean's award for a research paper on " <i>Establishing a nexus between employee engagement and employer branding to develop employees brand behavior</i> " presented at Young scholars' research colloquium, Mudra Institute of Communications Ahmedabad (MICA), Ahmedabad on 9 <sup>th</sup> January, 2017.
Dr. S. Pavan Kumar won Best research paper award for the paper on " <i>Antecedents of employee turnover intension in Indian automotive industry</i> " presented at 3 <sup>rd</sup> International conference on applied business and economic research. Organized by serial publications Pvt. Ltd, New Delhi, India during 30-31 July 2016.
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 on 4 March 2017 organized by VIF, Centre for Women Empowerment at Chennai, Tamil Nadu India.
Dr Dhishna P received the Best Paper Award for the paper entitled "Connotations of Culture and Identity: A Study on the Significance of Cross Cultural Interactions" in the international Conference on "Identity, Culture and Communication (ICICC 2016)" sponsored by International Economics and Development Research Centre (IEDRC), which was held from 12 <sup>th</sup> to 14 <sup>th</sup> November, 2016 at Kuta Central Park Hotel, Bali, Indonesia.
Dr Dhishna P received the Best Paper Award with Ms. Tanupriya for the paper entitled "Exploring Kinesthetics of Gender Identity through Select Transgender Autobiographies." in the <i>International Journal of English and Literature (IJEL)</i> 2016.

### **International Summer University- 2017**

International Summer University- 2017 was held during February 19<sup>th</sup> to March 2<sup>nd</sup> 2017 at National Institute of Technology Karnataka, Surathkal. School of Management, NITK, Surathkal patterning with University of Applied Sciences Western Switzerland, School of Business and Engineering (HEIG-VD) organized the Indian leg of the Summer University program. Participants from Switzerland arrived on 17<sup>th</sup> February, 2017 and visited different places in Mangaluru on first two days. Inauguration of the program was held on 19<sup>th</sup> February, 2017 and industry visit started from 20<sup>th</sup> of February. Over next six days, total eight companies were visited viz. Classic Fusion Metal, GR Stone Specialities, ACE Food Private Limited, Lamina Suspensions, Primacy, Kalbavi Cashews and Achal Cashews. Students were divided into two groups, first group examined the quality and security management whereas, the second group examined the marketing and communication aspect. Students were divided into two groups and each group consisted equal number of students from all two institutions. They compared the similarities and differences in the business practices across three countries. It provided an opportunity for the students to work in an international setting, to understand and appreciate the cultures of other people.

**Books published during the year 2016-17**

**Book Chapters**

**Department of Applied Mechanics & Hydraulics:-**

Sl.No	Title of Chapter	Book Name, Vol., Issue, Page No.	Author (s)
1.	Floating offshore wind platforms (Chapter 4)	Floating Offshore Wind Farms Castro-Santos, Laura, Diaz-Casas, Vicente (Eds.), pp. 53-76, 2016.	E. Uzunoglu, D. Karmakar & C. Guedes Soares
2.	Long-term assessment of the wave load acting on semi-submersible wind turbine support structure	Maritime Technology and Engineering III, Chapter: 135, CRC Press, Taylor & Francis Group, (Eds: Guedes Soares, C. & Santos, T.A.), pp.1125-1132, 2016.	K. Raed, D. Karmakar and C. Guedes Soares
3.	Time domain analysis of circular array of heaving point absorbers	Maritime Technology and Engineering III, Chapter: 136, CRC Press, Taylor & Francis Group, (Eds: Guedes Soares, C. & Santos, T.A.), pp.1133-1140, 2016.	A. Sinha, D. Karmakar, J. Gaspar and C. Guedes Soares
4.	Performance of barge-type floaters for floating wind turbine	Progress in Renewable Energies Offshore – Guedes Soares (Ed.) Taylor & Francis Group, London, pp. 637-645, 2016. ISBN 978-1-138-62627-0	K.G. Vijay, D. Karmakar, E. Uzunoglu & C. Guedes Soares
5.	<u>Performance of oscillating water column wave energy converters integrated in breakwaters</u>	Progress in Renewable Energies Offshore – Guedes Soares (Ed.) Taylor & Francis Group, London, pp. 295-302, 2016. ISBN 978-1-138-62627-0	V. Anvesh, D. Karmakar and C. Guedes Soares

**Department of Chemical Engineering**

Sl. No.	Title Of Book	Publisher, ISBN	Editors
1.	Biotechnology & Biochemical Engineering- Select proceedings of ICACE-2015	Springer Nature, Singapore ISBN 978-981-10-1919-7	Prasanna B.D., Sathyanarayana N. Gummadi, Praveen V. Vadlani
2	Recent Advances in Chemical Engineering - Select Proceedings of ICACE 2015	Springer Singapore, Book DOI: 10.1007/978-981-10-1633-2	Corresponding Editor: Dr. I. Regupathi; Co – Editors: Vidya Shetty K., Murugesan

			Thanabalan;
3	Select Proceedings of ICACE 2015 “Materials, Energy and Environment Engineering”	Springer Nature, Singapore	Editors: <u>Raj Mohan B., G. Srinikethan, Bhim Charan Meikap</u>

**Book Chapters Published:-**

1. Contributed a chapter in Handbook of Metal-Microbe Interactions and Bioremediation, by Dr. Raj Mohan B., Dr. Jaya Mary Jacob & Dr. Dhilna Damodharan CRC Press, Taylor & Francis Group
2. Book chapter on “Screening of Solvents for Deacidification of Sardine Oil” by Chandrasekar Vaisali, Belur D. Prasanna and I. Regupathi in ‘Recent Advances in Chemical Engineering - Select Proceedings of ICACE 2015’ Publisher Name: Springer Singapore, pp. no: 75-80, DOI: 10.1007/978-981-10-1633-2
3. Book chapter on “Partitioning of Nitrilase Enzyme from *Pseudomonas Putida* in Polymer/Salt Aqueous Two Phase System”, by Lokesh Ramana V, Regupathi Iyyaswami, Rashmi B.S in ‘Bioprocessing and Bio Chemical Engineering - Select Proceedings of ICACE 2015’ Publisher Name: Springer Singapore, DOI 10.1007/978-981-10-1920-3
4. Book chapter on “Aqueous Two-Phase (Acetonitrile- Potassium Citrate) Partitioning of Bovine Serum Albumin: Equilibrium and Application Studies”, by Badekar Sagar Dilip, Regupathi Iyyaswami, Basavaraj Nainegali in ‘Bioprocessing and Bio Chemical Engineering - Select Proceedings of ICACE 2015’ Publisher Name: Springer Singapore, DOI 10.1007/978-981-10-1920-3
5. Book chapter on “Mixed surfactant based reverse micelle extraction of Lactose peroxidase from whey”, by Sivananth Murugesan, Prudhvi Ambakam, Akshay Naveen, Aarathi Makkada, Nithin Solanki, Regupathi Iyyasamy in ‘Bioprocessing and Bio Chemical Engineering - Select Proceedings of ICACE 2015’ Publisher Name: Springer Singapore, DOI 10.1007/978-981-10-1920-3
6. Book chapter on “Enzymatic concentration of n-3 polyunsaturated fatty acids from Indian Sardine oil’, by Charanyaa Sampath, Anita. N, Prasanna D Belur, Regupathi.I in ‘Bioprocessing and Bio Chemical Engineering - Select Proceedings of ICACE 2015’ Publisher Name: Springer Singapore, DOI 10.1007/978-981-10-1920-3
7. Book chapter on ‘Refining Technologies of Edible oils” by Belur D. Prasanna, I. Regupathi, Charanyaa Sampath, Chandrasekar Vaisali in “Edible Oils: Extraction, Processing and Applications”, Publisher Name: CRC press, Taylor & Francis Group
8. Book chapter on “Effect of Precursor Salt Solution Concentration on the Size of Silver Nanoparticles Synthesized Using Aqueous Leaf Extracts of *T. catappa* and *T. grandis* Linn f.—A Green Synthesis Route”, by A Devadiga, KV Shetty, MB Saidutta

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- in 'Materials, Energy and Environment Engineering - Select Proceedings of ICACE 2015' Publisher Name: Springer Singapore, DOI 10.1007/978-981-10-1920-2
9. Book chapter on "Denitrification Under Aerobic Condition in Draft Tube Spouted Bed Reactor", by Joshi K., Lokeshwari N., Srinikethan G., Saidutta M.B. in Materials, Energy and Environment Engineering- Select Proceedings of ICACE 2015' Publisher Name: Springer Singapore, DOI 10.1007/978-981-10-1920-2
  10. Book Chapter on "Medium Optimisation for Maximum Growth/Biomass Production of *Arthrobacter sulfureus* for Biodesulphurisation" by EA Rani, MB Saidutta, BD Prasanna in Bioprocessing and Biochemical Engineering- Select Proceedings of ICACE 2015' Publisher Name: Springer Singapore, DOI 10.1007/978-981-10-1920-3
  11. Book chapter on "(i) Optimal off-grid hybrid options for power generation in remote Indian villages: Homer application and analysis" by Naveen Kumar Vasudevan and *D Ruben Sudhakar* in 'Recent Advances in Chemical Engineering - Select Proceedings of ICACE 2015' Publisher Name: Springer Singapore, pp. no: 211-218, ISBN: 978-981-10-2674-4, DOI: 10.1007/978-981-10-2675-1

### ***Department of Metallurgical & Materials Engineering***

#### **Books Published:**

'Advances in Polymer Materials and Technology', S. Anandhan and S. Bandyopadhyay, Eds., ISBN: 9781498718813, CRC Press, Boca Raton, USA (publication date: 25 July 2016).

#### **Book Chapters:**

1. Prabhu K.N., Nanofluids as Alternate Coolants in Steel Industry, Encyclopedia of Iron, Steel, and Their Alloys (Eds. Rafael Colás, George E. Totten), 2016, DOI: 10.1081/E-EISA-120048778
2. Prabhu K.N., Quenchants: Polymer, Encyclopedia of Iron, Steel, and Their Alloys (Eds. Rafael Colás, George E. Totten), CRC Press, 2016, 2744 – 2760.
3. Prabhu, K.N., Vignesh Nayak, Pranesh Rao, Polymer quenchants for industrial heat treatment, Advances in Polymer Materials and Technology, (Eds. A Srinivasan and Sri Bandyopadhyay), CRC Press, 2016, 703-734
4. Arun Augustin, Harsha Thaira, Udaya Bhat K and K Rajendra Udupa (2016) "Effect of Electrodeposited Copper Thin Film on the Morphology and Cell Death of *E. coli*; an Electron Microscopic Study". Biotechnology and Biochemical Engineering Chapter 25, Springer publication.
5. Udaya Bhat K, Arun Augustin, Suma Bhat and K Rajendra Udupa (2016) "Preparation and characterization of copper thin films for antimicrobial applications" Microscopy Applied to Material Sciences and Life Sciences, Apple academic press (accepted).

**Awards and Recognitions**

**Department of Applied Mechanics & Hydraulics**

- Dr. Lakshman N., 'Best Paper in Conference Theme', International Conference on 'Water, Environment, Energy and Society' (ICWEES 2016), held at Bhopal during March 15-19, 2016.
- Dr. G.S.Dwarakish, Venus International Faculty Award- Coastal Engineering-2016.
- Dr. G.S.Dwarakish, Aqua Foundation Academic Excellence- Individual Award-2016.
- Dr. G.S.Dwarakish, IUCEE Faculty Fellow Award-2016.

**Department of Civil Engineering**

The paper titled "Application of Central Composite Design in Fenton's Oxidation of Herbicide 2, 4-D in Aqueous Medium" presented by Mr. Sanjeev Sangami, PhD Research Scholar, was awarded the "Best Paper presented award' at the International conference on " Global Civil Engineering Challenges in Sustainable Development and Climate Change " held at Mangalore Institute of Technology and Engineering, Moodabidri during 17-18, March 2017. Dr. Basavaraj Manu had co-authored the paper.

**Department of Electrical & Electronics Engineering**

**Research Interaction with Foreign Universities:**

Name of Organisation	Particulars of research interaction by Prof.K.P.VITTAL	Period / Duration
Energy Center Ecole Polytechnique Fédérale de Lausanne (EPFL) Lausanne, Switzerland.3-4, Aug, 2016	The interaction was orgained by Prof.Massimiliano Capezzali, PhD,Deputy Director. Following activities were undertaken: 1. The visit, presentation and meetings were scheduled at Energy Center, EPFL, Lausanne. Prof. Massimiliano Capezzali presented the activities of Energy Center and its contributions. This was followed with presentation on activities of Power system and Smart Grid laboratories of Prof. Mario Paolone. This was presented by Prof. Massimiliano, on behalf of Prof. Mario Paolone (since he was on vacation). Post lunch presentation was on smart energy management initiative by Dr Luc Girardin. 2. Visit to Hydraulic Machines Laboratory (EPFL-LMH), at Lausanne down town campus of EPFL was scheduled by Prof.Massimiliano. Mr.Georges CRITTIN and Mrs.Monica SUAREZ DE ANDRADE demonstrated Universal test rigs which can be used to test all types of reaction hydraulic machines (both vertical & horizontal axis). 3. On 4th August, 2016, Two hours train travel to Sion, Switzerland was taken up to visit Studer Innotec SA and EPFL, Sion campus. Fore noon it was meeting and industry visit with Mr. Claude RUCHET, Deputy Director / Business Development Manager, Studer Innotec SA, Rue	2016

Name of Organisation	Particulars of research interaction by Prof.K.P.VITTAL	Period / Duration
	des Casernes 57, 1950 Sion – Switzerland. The scope of interaction was on PVS system products. Mr. Claude Ruchet presented their product portfolio and showcased manufacturing facilities in their industry. Post lunch it was meeting with Prof. Dr. Md. K. Nazeeruddin, Group for Molecular Engineering of Functional Materials (GMF), EPFL VALAIS, SB-ISIC/SCI-SB-MN, Rue de l'industrie 17, CP 440, CH-1951 Sion, Switzerland.	
Département Technologies Industrielles (TIN) Institut de Génie Thermique (IGT), HEIG-VD, Yverdon, Switzerland, 1-2, Aug, 2016	The interaction was orgained by Prof. JEAN-BERNARD MICHEL, PhD Energetics, Senior Project Manager IPMA Level B®, Professor and Head, Industrial Bioenergy Systems. Following activities were undertaken: 1. Visit to Thermal Engineering laboratory of HEIG-VD, 2.Presentation of research activities by Prof. Mauro Carpita, Ph.D, Professor HES & Director IESE and renewable energy laboratory, 3.Visit to GRANIT TECHNOLOGIES SA, Rue des Ducats 40b, CH-1350 Orbe, Switzerland. It is a pilot plant for biomass torrefaction to produce about 100 kg/h of a renewable solid fuel with properties that are similar to coal. This visit was scheduled by Ms. Claire TANSLEY, Sales manager. 4.Visit to smart grid product manufacturing start up industry was scheduled by Mr. Michael De Vivo, CEO, DEPsys SA, Rue Galilée 7,1400 Yverdon-les-Bains, Switzerland. The company CEO presented his company product portfolio, followed by pilot smart grid projects undertaken by their company in collaboration with distribution companies was demonstrated.	2016
Visit to FREEDM System Center, 1791, Varsity Drive, Raleigh, NC, USA - 27695, 29th June, 2016, FN	Meeting with Dr.Aranya Chakraborty, Associate Prof., ECE Dept. to discuss on Academic Collaboration	2016
Visit to Smart Grid Distribution Automation, ABB Inc., 1021, Main Campus Drive, Raliegh, NC, USA - 27606, 29th June, 2016, AN	Meeting with Mr.Stephen Trachian, System Architect to discuss on Academic Collaboration along with visit to their state of art laboratory and training center.	2016
Visit to Duke Energy Smart Grid Lab,	1. Meeting with Dr.Sukumar Kamalasan, Director, Duke Energy Smart Grid Lab and Power, Energy & Intelligent Systems Lab , 2. Meeting with Dr. David Causey, Assistant	2016

Name of Organisation	Particulars of research interaction by Prof.K.P.VITTAL	Period / Duration
Energy Production and Infrastructure Center (EPIC), The William States Lee College of Engineering, University of North Carolina (UNC), Charlotte, NC, USA, 10th June,2016	Director of EPIC, Director of Energy and Environmental Assistance Office (EEAO), UNC Charlotte, 3. Dr. Asis Nasipuri, Professor and Chair, Electrical and Computer Engineering, The William States Lee College of Engineering Remarks: Meetings were aimed at building Academic research / project interaction. It has been agreed upon to support Symposiums / workshops hosted by COE in SGT at NITK. The scanned copies of existing MOUs with other US universities has been shared to draft an MOU for formalising continued interaction and student projects / internships.	
Visit to Smart Home and Data Analytics Lab, Duke University, Durham, NC, USA, 06-09, June, 2016	. Meeting with Dr.Jim Gaston, Director, Duke Smart Home Program, 317 Teer Building, Duke University, Durham NC 27708 and study of Smart Home Project features, 2. Meeting with Dr. Kyle Bradbury, Managing Director   Energy Data Analytics Lab Duke University Energy Initiative, Duke University. Remarks: Meetings were aimed at building Academic research / project interaction. It has been agreed upon to support Symposiums / workshops hosted by COE in SGT at NITK. The scanned copies of existing MOUs with other US universities has been shared to draft an MOU for formalising continued interaction and student projects / internships.	2016

**Funded Research and Development (R&D) Projects (Ongoing and Executed):**

Sl. No.	Title of the Project	Prof. K. P. Vittal's Role in the project	Grant Amount	Year of sanction
1	Project sanctioned under Newton - Bhabha funding scheme of Royal Academic of Engineering, UK and FICCI-NKFFH 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 Bermingham	Co-Coordinator for Application of Sensor Systems for Smart Distribution System	Rs.40 Lakhs	2016-2018

Sl. No.	Title of the Project	Prof. K. P. Vittal's Role in the project	Grant Amount	Year of sanction
2	Establishing center of excellence (CoE) in "Renewable Energy Source integrated Smart Grid Technologies (RENEST)" under Frontier Areas of Science and Technology (FAST), MHRD, GOI.	Coordinator	Rs.400 Lakhs (Sanctioned Rs.250 Lakhs under Phase 1)	2014-2018 (On going)
3	Two Research scholarships to investigate in the areas of i. Sensing Techniques, ii. Super-efficient Motor Control, under "Visvesvarya PhD Scheme" from GOI, MCIT, DEITY.	Research Supervisor	Rs.50 Lakhs	2015-2020 (On going)

**Lectures Delivered:**

S.No.	Year	Lecture topic delivered by Prof. K. P. Vittal	Title of the programme	Schedule	Venue
1	2016	Development of Embedded systems for IOT	Invited Technical Talk under Technical Forum of ECE Department.	26th February, 2016	ECE Dept., Alva's Institute of Engineering & Technology, Mijar, Moodbidri, D.K. - 574225, India.

**Prof.K.P.Vittal's Annual position of responsibility in Technical Societies:**

Chairman, Institute of Engineers, Mangalore Chapter, 2016-18.

**Prof.K.P.Vittal's Annual position of responsibility in other Technical Institutions:**

Member, BOS, MCE, Hassan, 2016-17.

**Addition(s) to Building Infrastructure**

**Department Of Mechanical Engineering**

- constructing three additional floors to the department building
- New Labs Setup
  - Advanced Manufacturing Lab
  - Hexagon New Gen Lab
  - Wind Tunnel Lab
- Annual maintenance contract for all computing facilities (Facility Management Institute level)

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- Annual maintenance contract for UPS and Air-conditioning equipments of laboratories

### ***Department of Physics***

- Construction of Laboratory space in PH 218 for Dr. Kishore Sridharan

### **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 M Tech 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 Sporta held at NIT, Calicut, Basketball Men and Women teams were Second Runner-Ups.
6. All India Inter NIT Sports held at NITK Surathkal during, 18<sup>th</sup> to 20<sup>th</sup> 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 start up 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 30 incubatees (physical incubation), of which a few have established multicrores 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.

#### **VISION:**

Entrepreneurship Development through Business Incubation, Innovation, Training and Skill Enhancement in a value driven and service focused environment-targeting benefits to all the participating agencies.

#### **GOALS:**

- To create healthy startup units through Business Incubation, innovative business models.
- To capitalize on the Intellectual base at academia to develop competitive units.
- To grow the spirit of Entrepreneurship, entrepreneurial thinking and leveraging entrepreneurial capabilities by promoting EDPs, TEDPs, FDPs in the region.
- To reach out to young unemployed youths in the region & improve employability through Skill Development Programmes.
- To gear up as an “Out Reach Center” to interface with innovators, funding agencies for speedy implementation of innovative projects of commercial potential.
- Networking with technologists, entrepreneurs and commercial funding agencies.
- To constantly improve the quality of value added service to our clients.

**FACILITIES:**

Dedicated building for Business Incubation with independent units of sizes 150, 400, 500, 650, 1250 sq.ft (Total 14 Nos) to accommodate 14 units of varying employee strengths.

- Video Conferencing
- Executive training hall
- Dedicated DG sets for 24 hrs power supply
- Round the clock security
- Linkage with the institute faculty for technology dependent developmental needs
- New Facility created:

Sl. No	Description of the facility
	Dedicated Incubation facility for NITK students to promote their innovations & business ideas. 3 independent units with complete interiors.

**BUSINESS INCUBATION SERVICES TO STARTUPS & DEVELOPING UNITS:**

- Idea validation for the development of the business concept
- Technology dependent services for product development
- Infrastructure support to test product & establish product viability
- Patent filing support
- Entrepreneurial training, mentoring & business forming support
- Target market breakthrough support on select basis
- Product display support in industrial fair, trade exhibitions etc.
- Seed capital support
- Support services for innovators to capitalize funding opportunities of different government and other agencies:
- Fine tuning/refinement, of the innovative idea to qualify funding agency needs.
- Assistance in documentation/project proposal preparation.
- Preliminary screening and approval of proposals
- Follow-up support for final clearance at the funding agency's end.
- Project monitoring and advisory support on troubleshooting.
- Decision support on suitability of the product to qualify patenting needs and stage of patent filing.
- Business development support for creation of startups.
- Product display in exhibitions/trade fairs.

Status of Existing Incubatee units:

Sl. No	Name of the incubatee unit/Product, Technology
1	Expert Vision labs Pvt Ltd Imaging Technology Product (Import substitution)
2	NGCN Info solutions Pvt Ltd.  Networking, Cloud Computing, Network Cloud Convergence
3	Pixelabz Multi Media Technology services
4	MINDSTACK Technologies Web Design and Development
5	AUTOMATION APPS LLP Web Design and Development Automation info services Involves in Designing, Developing and Integrating complete information systems. Professional services including Training, Business security, Operations and advising clients on the user of the Information technology. Expatriation: Accounts, Inventory, Banking and Database applications
6	<p>Chaos Labs Research &amp; Development, Manu facturing of Electronic items. Chaos energy LABSpvt Ltd. is an applied science start-up company chaos energy LABSpvt Ltd focuses on engineering the fundamental laws of sciences to create innovative technological products. Since its inception chaos energy LABS has come up with three products - G-ONE batteries, HONEY-BEE, and ROTOSPIN</p> <p><b>HONEY BEE</b>- A mechanically rechargeable portable power source for portable charging applications. Honey Bee is an off the grid, on demand mobile charger. With honey bee your smart phone battery is never going to die. Honey bee device is a very sleek device which can be attached to the backside of your phone while charging. To charge your phone, all you need to do is to put a capsule in to the device and connect to the phone via USB. The phone will be charging at 5V,550 mA.</p> <p><b>G-ONE BATTERY</b> -A lead free, low cost and long lasting alternative to conventional lead acid batteries. Chaos energy LABS launches G-ONE batteries as a safer, cleaner and cheaper alternative to the current UPS battery segments. Our team has successfully modulated the nature of a well-known electrochemical reaction governed by Poissons equation to increase the life to about 2700 cycles. More over g-one is lighter and cheaper than lead acids. House hold and industrial UPS market segments are heavily dominated by lead acid batteries. The lead recovery from these batteries is not efficient in many of the developing countries including India. Almost 40% of the lead goes in to the environment which is a severe threat to the environment. Still lead acid battery leads the market due to its cheap capital requirement and ease of fabrication. The latest Li-ion batteries are promising long cycle life henceforth reducing the cost per cycle but its very high capital requirement present a huge barrier and also it has got several safety</p>

	<p>issues. A safer, cleaner and cheaper alternative to lead acid battery is crucial and chaos LABS team has just lived up to it.</p> <p><b>R-SPIN-</b> A high throughput completely mechanical spinning machine tailored at chaos energy LABS. Spinning machine which utilizes the centrifugal force and hydro-static force developed during the rotation of a polymer solution inside a small cylindrical container and utilizing this to synthesize fibers of micro and Nano dimensions by extruding through a small hole on the container. Unlike electro-spinning, the most common method currently being employed (which draws fibers through the use of electrostatic force), centrifugal hydro-static spinning machine utilizes centrifugal and hydro-static forces, which allow for a host of new materials</p>
7	<p>Skill Soft Technologies Skill Development , IT Infrastructure Management Services SKILL SOFT TECHNOLOGIES is an education and career service provider for System / Storage &amp; Virtualization Technologies With fully equipped training centers in Bangalore and Mangalore having a strong mission is to deliver quality Learning services to clients &amp; participants through practical programs that support their strong career growth and development. Skill soft technologies bridge the gap between the need of the industry for knowledgeable and skilled professionals to produce highly qualified candidates</p>
8	<p>Technisys IT Infrastructure Management Services Technisys was started with the primary objective of offering products and services in the field of Information Technology</p>
9	<p>INNATE Enterprise Management Solutions VOW is an innovative path breaking technology platform, that delivers convenience, safety and flexibility to its customers by providing both inter &amp; intra city rides. Vow provide traditional cab operators an even playing field to compete with app only aggregators.</p>

**Programs organized by STEP in the region:**

**Organized an Express Talk on “Chase the Vision, not the Money”** by Mr. Yeshaswi Nag, Project Coordinator, EDI Ahmedabad on 11/03/2016 at NITK Surathkal

**STUDENT STARTUPS FUNDED IN 2015-16**

In the 30<sup>th</sup> meeting of the BOG held on 13<sup>th</sup> November 2015 it was decided by the NITK-STEP Board to offer financial support to NITK Student Startups incubated at NITK-STEP to foster the startups by students and former students from ‘one time Technology Incubation Fund’ and to promote the culture of innovation. Startup India is a flagship initiative of the Government of India, intended to build a strong ecosystem for nurturing innovation and startups in the country. In line with the initiative, NITK-STEP has announced an action plan that accelerates spreading of the startup movement.

<b>STUDENT STARTUPS FUNDED IN 2015-16.</b>	
Name of the startup	Funds Provided (Rs in Lakhs)
CYBERHOME	3.00

WINKL	3.00
CAMPUSCONNECT	3.00

## 20.2 CENTRE FOR CONTINUING EDUCATION (C.C.E)

### (A)

Sl.No	Title of the Course	Duration	No. of Participants	Course intended for
1	Design & Management of Irrigation Schemes	27.07.2015 to 31.07.2015	19	CEP course for PWD Engineers sponsored by Engg Staff College, K.R.Sagara, organized at Dept. Of Applied Mechanics & Hydraulics
2	Water Supply & Irrigation Schemes	24.08.2015 to 28.08.2015	16	-do-
3	Basics of Chemical Engineering	10.08.2015 to 09.11.2015	12	Extension course for the Associate Management Trainees sponsored by MCF, Panambur. Organized by Dept. Of Chemical Engg., on working days from 2 to 5 p.m.
4	Structural Construction in B.C. Soil, Hard Soil, Rock & Quality Management	04.01.2016 to 08.01.2016	06	Proposed CEP course for PWD Engineers sponsored by Engg Staff College, K.R.Sagara, organized at Dept. Of Civil Engg.

### (B) QIP CENTRE Activity Details during 2015-16:

#### Advance Admission to Ph.D under QIP (Engineering) Scheme :

No. of Applications Received	No. of applications recommended	No. of Candidates selected for advance admission	No. of candidates completed 60 days contact programme as on 31-3-2016	Remarks
76	15	09	04	Advance Admission to 2015-16, final admission 2016-17
85	13	Not received the selected list as on 31-3-2016, from the Principal Coordinator, IIT, Bombay	--	Advance admission to 2016-17, final admission 2017-18

**I) Advance Admission to Ph.D under QIP (Poly) Scheme:**

No. of Applications Received	No. of candidates called for interview	No. of Candidates selected for advance admission	No. of candidates completed 60 days contact programme as on 31-3-2016	Remarks
12	12	Nil	--	Advance admission to 2015-16, final admission 2016-17

**II) Admission to Master's degree under Engineering Scheme:**

No. of Applications Received	No. of applications recommended	No. of Candidates selected	No. of candidates admitted as on 31-3-2016	Remarks
10	05	03	02	Academic session 2015-16
15	07	Not received the selected list as on 31-3-2016, from the Principal Coordinator, IIT, Bombay	--	Academic Session 2016-17

**III) Admission to Master's Degree under Poly Scheme:**

No. of Applications Received	No. of applications recommended	No. of Candidates selected	No. of candidates admitted as on 31-3-2016	Remarks
12	11	07	01	Academic session 2015-16

**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.

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- 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.

**2. Technology is available for transfer for the following products:**

<b>Sl. No.</b>	<b>Product Details</b>	<b>Technology Status</b>
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.

## 21.0 FINANCE AND ACCOUNTS

### The Financial Status (2016-17)

#### SOURCE OF FUNDS

Ministry of Human Resource Development, New Delhi.

#### Rs. in lakhs

Plan Grants	6100.00
Non Plan Grants	8260.00
Project Grants	400.00

#### Expenditure position for last three years

#### Rs. in lakhs

Year	Plan	Non	
		Plan	Total
2013-14	6668.73	7319.00	13987.73
2014-15	5332.63	6097.72	11430.35
2015-16	5902.37	6716.61	12618.98
<b>Total</b>	<b>17903.73</b>	<b>20133.33</b>	<b>38037.06</b>

**FINANCE AND ACCOUNT DETAILS**

<b>BALANCE SHEET AS AT 31-03-2017</b>			
			<b>(AMOUNT - Rs.)</b>
<b>PARTICULARS</b>	<b>SCH. NO.</b>	<b>CURRENT YEAR</b>	<b>PREVIOUS YEAR</b>
<b><u>SOURCE OF FUNDS :</u></b>			
CORPUS/CAPITAL FUND	1	3,03,21,70,523	2,87,93,05,034
DESIGNATED/ EARMARKED/ ENDOWMENT FUNDS	2	2,22,96,33,986	1,85,41,94,191
CURRENT LIABILITIES AND PROVISIONS	3	71,53,93,244	54,69,36,093
TEQIP PROJECT - PHASE I	23	18,42,37,765	18,42,37,765
TEQIP PROJECT - PHASE II	24	10,49,46,972	9,29,26,806
<b>TOTAL</b>		<b>6,26,63,82,489</b>	<b>5,55,75,99,889</b>
<b><u>APPLICATION OF FUNDS :</u></b>			
FIXED ASSETS	4		
Tangible Assets		2,27,59,12,282	1,95,22,62,391
Intangible Assets		1,06,37,986	1,58,75,886
Capital Works-In-Progress		1,19,23,77,624	98,40,32,470
INVESTMENTS FROM EARMARKED/ ENDOWMENT FUNDS	5		
Long Term		1,68,42,64,615	1,22,67,55,564
Short Term		-	-
INVESTMENTS - OTHERS	6	-	-
CURRENT ASSETS	7	47,50,63,279	52,65,56,806
LOANS, ADVANCES & DEPOSITES	8	33,89,41,966	57,49,52,200
TEQIP PROJECT - PHASE I	23	18,42,37,765	18,42,37,765
TEQIP PROJECT - PHASE II	24	10,49,46,972	9,29,26,806
<b>TOTAL</b>		<b>6,26,63,82,489</b>	<b>5,55,75,99,889</b>
SIGNIFICANT ACCOUNTING POLICIES	25		
CONTINGENT LIABILITIES & NOTES ON ACCOUNTS	26		

<b>INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31-03-2017</b>			
			<b>(AMOUNT - Rs.)</b>
<b>PARTICULARS</b>	<b>SC.NO.</b>	<b>CURRENT YEAR</b>	<b>PREVIOUS YEAR</b>
<b><u>INCOME:</u></b>			
ACADEMIC RECEIPTS	9	32,52,98,622	32,68,08,384
GRANTS/SUBSIDIES	10	1,16,20,57,063	86,99,89,165
INCOME FROM INVESTMENTS	11	2,50,45,595	1,88,17,542
INTEREST EARNED	12	34,60,950	51,95,984
OTHER INCOME	13	5,59,26,868	5,72,93,944
OTHER RESEARCH PROJECTS		3,64,81,341	3,38,01,457
PRIOR PERIOD INCOME	14	-	-
<b>TOTAL (A)</b>		<b>1,60,82,70,440</b>	<b>1,31,19,06,476</b>
<b><u>EXPENDITURE:</u></b>			
STAFF PAYMENTS & BENEFITS	15	72,10,91,605	68,63,22,982
ACADEMIC EXPENSES	16	34,84,41,338	33,15,97,576
ADMINISTRATIVE & GENERAL EXPENSES	17	12,73,57,479	12,69,81,598
TRANSPORTATION EXPENSES	18	10,68,576	10,03,241
REPAIRS & MAINTENANCE	19	14,23,83,897	13,92,83,127
FINANCE COST	20	-	-
DEPRECIATION	4	28,02,59,536	23,29,47,564
OTHER EXPENSES	21	16,19,49,251	14,88,29,838
PRIOR PERIOD EXPENSES	22	-	13,02,645
<b>TOTAL (B)</b>		<b>1,78,25,51,682</b>	<b>1,66,82,68,571</b>
<b><u>BALANCE:</u></b>			
EXCESS OF EXPENDITURE OVER INCOME	(A-B)	<b>17,42,81,242</b>	<b>35,63,62,095</b>
CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS			

RECEIPTS	Current Year	Previous Year	PAYMENTS	Current Year	Previous Year
Opening Balances:			Expenses:		
(a) Cash in hand	1,26,570	1,82,639	(a) Establishment Expenses	65,26,27,593	61,02,09,361
(b) Bank Balances:			(b) Administrative Expenses	60,30,28,768	60,46,75,417
(i) In current accounts	13,86,40,850	3,13,67,043			
(ii) Savings accounts	3,78,54,206	11,17,42,297	Payments Against Earmarked/Endowment Funds	42,73,75,034	24,57,90,831
Grants Received:			Payments Against Sponsored Projects/Schemes	9,41,51,988	8,80,40,535
(a) From Govt. of India					
Plan Grant - General			Investments Made	1,49,08,46,099	34,19,20,109
Non-Plan Grant	80,40,00,000	99,00,00,000	Out of Earmarked/Endowment Fund		
(b) From State Government	-	-	Out of Own Fund		
Academic Receipts	40,31,02,372	39,86,25,719	Expenditure on Fixed Assets & Capital Work - in - progress:	80,70,16,680	60,22,73,446
Receipts Against Earmarked/Endowment Funds	66,27,14,474	68,83,86,717	Deposits & Advances	83,47,67,573	89,75,65,967
Receipts Against Sponsored Projects/Schemes/Plan	21,33,67,329	17,65,78,301	Payments made against Funds for various projects:	2,14,34,64,796	1,37,04,60,235
Income on Investments.	2,50,44,742	1,18,11,255	Any Other Payments :	1,08,47,57,535	62,55,82,943
Interest Received :	32,00,683	47,44,609	Closing Balances:		
Deposits & Advances	1,36,78,83,307	90,67,53,331	(a) Cash in hand	885	1,26,570
Investments Encashed/matured	90,58,31,459	38,63,00,000	(b) Bank Balances:		
Any other receipts:	3,04,82,87,171	1,85,66,48,559	(i) In current accounts	6,42,61,157	13,86,40,850
			(ii) Savings accounts	1,77,55,054	3,78,54,206
<b>TOTAL</b>	<b>8,22,00,53,163</b>	<b>5,56,31,40,469</b>	<b>TOTAL</b>	<b>8,22,00,53,163</b>	<b>5,56,31,40,469</b>



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