



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



Annual Report
2014 - 15

NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA SURATHKAL
MANGALORE - 575 025 INDIA



ANNUAL REPORT

2014-15

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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 NIT Act 2007 and statutes laid down by Government of India. Reconstituted Board of Governors is in place since September 2011.

TEAM NITK

14 Departments
230 highly qualified and dedicated faculty
192 committed supporting staff
5287 talented and motivated students

LIST OF DEPARTMENTS

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

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 in all departments

All the Departments of the Institute are recognized QIP centres 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

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; D.K. NIRMITHI Kendra,

CAMPUS

300 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, 5 hostel blocks for girls. Mega Hostel for boys with 1512 single-seater rooms. New Ladies Hostel with 347 single –seater room. Internet connectivity (1Gpbs, 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 – 2nd Karnataka Engineering Company, Surathkal Innovation Challenge (SIC), Student Internship Programme (SIP).

BUDGET (2014-15)

Total Financial Outlay Rs. 191.31 Crores
Internal Revenue Generated Rs. 36.90 Crores
Consultancy & Testing Earnings Rs. 2.05 Crores
Corpus Fund of more than Rs. 73.62 Crores

PUBLICATIONS (2014-15)

International Journals – 394
National Journals – 20
International Conference – 309
National Conference – 83

DOCTORAL OUTPUT

2011-12 – 16 Candidates
2012-13 – 33 Candidates
2013-14 - 62 candidates
2014-15 - 60 Candidates
Doctoral students on rolls –514

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 the overall championship of Inter NIT Sports consecutively for the last 3 years.

TRAINING AND PLACEMENT

NITK is ranked among the top institutions for student placements. During 2014-15 about 218 companies visited. UG placements 85.10%, PG placement 34% Internships provided within India and Abroad.

SCHOLARSHIPS & MEDALS

Several well known and prestigious scholarship (25) awards and medals (35) 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.

MOUs with Foreign Universities/Industries

- 1) Kagoshima University, Japan, 9th March 2015 -5 years
- 2) Faculty of Engineering and Graduate School of Science and Technology, Kumamoto University, Japan, 28th February 2015 5 years
- 3) Kompetenzzentrum Holz GmbH, 26th September 2014 , 5 years
- 4) Michigan State University, U. S. A. 14th May 2014 Renewed for further period of 5 years

List of MoUs between NITK, Surathkal and other Universities/Organizations

- 1) Father Muller Medical College, 10th February 2015 5 years
- 2) National Institute of Technology Agartala, Tripura, 1st December 2014, 5 years
- 3) Indian Institute of Technology Madras, Chennai, 24th September 2014, 5 years
- 4) The Indian Navy, New Delhi, 18th June 2014, 5 years
- 5) Management Development Institute, Gurgaon, India (MDI), 15th May 2014, 3 years.
- 6) CSIR-National Institute Of Oceanography, Goa, 8th April 2014, 5 years

TEQIP

To continue the development activities initiated through TEQIP-I, a sequel project namely TEQIP-II with a financial outlay of Rs. 125 million was launched in March 2011 with NITK entering into MOU with MHRD for successful implementation of the project. 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. Out of the financial outlay of Rs. 125 million, a sum of 121.70 million has been received till date and Rs.100.801 million has been spent for various activities.

ANNUAL REPORT 2014-2015

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1 THE INSTITUTE

1.1 HISTORICAL BACKGROUND

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

The Institute has established itself as a premier center engaged in imparting quality technological education and providing support to research and development activities. The Institute has a long tradition of research for several decades in both traditional and modern areas of engineering and sciences in all departments. The Institute has been actively involved in applied research in looking at and resolving problems faced by the society in several areas. NITK attracts students from all over the country and abroad. NITK graduates are sought after by top industries/companies and the Institute has been rated as one of the best Institutions in the country with regard to student placements. Many of its alumni occupy coveted positions both in India and abroad and are a source of pride and inspiration to the Institute. NITK is consistently rated among the top engineering and technological institutes in India. Today, the Institute offers nine B. Tech programmes, 27 Post graduate programmes and Doctoral programmes in all its fourteen Departments and is making significant advances in R&D and outreach activities too.

1.2 LOCATION

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

1.3 CAMPUS

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

2 GOVERNANCE & ADMINISTRATION

2.1 ADMINISTRATION

NITK is governed by the Board of Governors which consists of representatives of the Government of India, Government of Karnataka, Alumni, Industry and other nominees. The Chairman of the Board is nominated by the Government of India. The Director is the administrative head of the Institute. The functioning of NITK is governed by NIT 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 by the Visitor, at least one of whom shall be a women, having special knowledge or practical experience in respect of education, industry, science or technology | Member |
| 13. | Three members of Parliament, of whom two shall be chosen by the House of the people and one by the Council of States | Member |
| 14. | Two Secretaries to the State Government, from amongst the ministries or departments of that Government dealing with technical education where the Institutes are located. | Member |
| 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 | Sri Sushil Chandra Tripathi, Former Secretary, Ministry of HRD, House No: 27, Sector 15- A, Noida – 201301(Uttar Pradesh) | Chairman till 24.07.2014 |
| 2 | Ms. Vanitha Narayanan, Managing Director, IBM India Private Limited Embassy Golf Links Business Park, Block A, Off Indiranagar, | Chairperson from 31.10.2014 |

- Koramangala Intermediate Ring Road
Bangalore – 560 071
- 3 Sri Mudda Kedarnath,
Advisor – Aditya Birla Group,
#17, Shankar Nilaya,
8th Main , 18th Cross,
Upper Palace Orchard,
Sadashivnagar,Bangalore-560080. Member till 24.07.2014
- 4 P.Dayanand Pai,
Managing Director,
Century Building Industries Private Limited,
Palace Road,Bangalore -560 052. Member till 24.07.2014
- 5 Additional Secretary,
Ministry of Human Resource Development,
Dept. of Higher Education, Technical Education Bureau
Shastri Bhavan, New Delhi – 110 001 Member
- 6 Joint Secretary and Financial Advisor,
Ministry of Human Resource Development,
Dept. of Higher Education, Technical Education Bureau
Shastri Bhavan, New Delhi – 110 001 Member
- 7 Mrs Sudha Murty
Chairperson, Infosys Foundation
C/O Infosys Towers,
No. 27, J.P. Nagar, 3rd Phase,
Bannerghatta Main Road,
Bangalore 560 076, Karnataka, India. Member till 24.07.2014
- 8 Padma Bhushan Prof. (Dr.) B.M.Hegde,
Former Vice- Chancellor, Manipal University,
Manjunath, Pais Hills,
Bejai- Mangalore- 575004. Member till 24.07.2014
- 9 Gopal Mugeraya, Ph.D.
Professor, Dept. of Chemical Engineering,
NITK, Surathkal. Member till 21.09.2014
- 10 Badekai Ramachandra Bhat, Ph.D.
Professor, Department of Chemistry,
NITK, Surathkal. Member from 20.10.2014
- 11 Sri Vinay Kumar,
Associate Professor,
Dept. of Computer Science & Engineering,
NITK, Surathkal. Member

- | | | |
|----|--|-----------|
| 12 | Swapan Bhattacharya, Ph.D. Director,N.I.T.K. SURATHKAL. | Member |
| 13 | K.Ravindranath Registrar, N.I.T.K., SURATHKAL | Secretary |

FINANCE COMMITTEE

- | | | |
|---|---|--------------------------------|
| 1 | Sri Sushil Chandra Tripathi, Former Secretary, Ministry of HRD, House No: 27, Sector 15- A, Noida – 201301(Uttar Pradesh) | Chairman till 24.07.2014 |
| 2 | Ms. Vanitha Narayanan, Managing Director, IBM India Private Limited Embassy Golf Links Business Park, Block A, Off Indiranagar, Koramangala Intermediate Ring Road Bangalore – 560 071. | Chairperson from 31.10.2014 |
| 3 | Sri Mudda Kedarnath, Advisor – Aditya Birla Group, #17, Shankar Nilaya, 8th Main , 18th Cross, Upper Palace Orchard, Sadashivnagar, Bangalore-560080. | Member till 24.07.2014 |
| 4 | Additional Secretary, Ministry of Human Resource Development, Dept. of Higher Education, Technical Education Bureau Shastri Bhavan, New Delhi – 110 001 | Member |
| 5 | Joint Secretary and Financial Advisor, Ministry of Human Resource Development, Dept. of Higher Education, Technical Education Bureau Shastri Bhavan, New Delhi – 110 001 | Member |
| 6 | Gopal Mugeraya, Ph.D. Professor, Dept. of Chemical Engineering, NITK, Surathkal. | Member till 21.09.2014 |
| 7 | Badekai Ramachandra Bhat, Ph.D. Professor, Department of Chemistry, NITK, Surathkal. | Member from 20.10.2014 |
| 8 | Swapan Bhattacharya, Ph.D. Director, N.I.T.K. SURATHKAL. | Member |

| | | |
|---|--|------------------|
| 9 | K.Ravindranath Registrar N.I.T.K., Surathkal | Member Secretary |
|---|--|------------------|

BUILDING AND WORKS COMMITTEE

| | | |
|----|---|------------------|
| 1. | Swapn Bhattacharya, Ph.D. Director, N.I.T.K., Surathkal, Post Srinivasnagar-575 025. | Chairman |
| 2. | K Uday, Principal Chief Architect, PW, P and IWTD, State PWD K R Circle, Bangalore – 560 001 | Member |
| 3. | M C Narasimhan, Ph.D. Dean (P&D), NITK, Surathkal, Mangaluru – 575 025 | Member |
| 4. | Vellaichamy V Superintending Engineer (Civil), CPWD, Mysore Central Circle, T Narasipura Road, Siddarthnagar, Mysore – 570 011 | Member |
| 5. | Kedar Ram Superintending Engineer (Ele), CPWD Bangalore Central Electrical Circle, Kendriya Sadana, Koramangala, Bengaluru – 560 034 | Member |
| 6. | K Ravindranath Registrar NITK, Surathkal, Post Srinivasnagar, Mangalore-575 025 | Member Secretary |

OTHER COMMITTEES

SENATE

| | | |
|---------------------------|-----|-----------|
| Swapn Bhattacharya, Ph.D. | ... | Chairman |
| K Ravindranath | ... | Secretary |

Members

| | |
|----------------------------------|------------------------------|
| S. Parasuraman - External Member | A.V. Adhikari, Ph.D. |
| Prahlada - External Member | Ananthanarayana V.S. , Ph.D. |
| V.Shubha - External Member | Annappa, Ph.D. |

| | |
|---|-----------------------------------|
| A. Kandaswamy, Ph.D. | Arun M, Ph.D. |
| A. Mahesha, Ph.D. | B. Ramachandra Bhat, Ph.D. |
| A. Nityananda Shetty, Ph.D. | Ch. S.N. Murthy, Ph.D. |
| A. Vittal Hegde, Ph.D. | D. Venkata Reddy, Ph.D. |
| A. Chitharanjan Hegde, Ph.D. | D.Krishna Bhat, Ph.D. |
| A.H. Sequeira, Ph.D. | D.V.R. Murthy, Ph.D. |
| A.O. Surendranathan, Ph.D. | Dwarakish G.S. , Ph.D. |
| A.U. Ravi Shankar, Ph.D. | G. K. Shiva Kumar, Ph.D. |
| G. Srinikethan, Ph.D. | G. Ram Mohana Reddy, Ph.D. |
| G.Umesh, Ph.D. | G.C. Mohan Kumar, Ph.D. |
| Gopal Mugeraya, Ph.D. | Gangadharan K.V. , Ph.D. |
| H.D. Shashikala, Ph.D. | H. Suresh Hebbar, Ph.D. |
| John D'Souza, Ph.D. | Jagannath Nayak, Ph.D. |
| K. Chandrasekaran, Ph.D. | K.B.Kiran, Ph.D. |
| K. N. Prabhu, Ph.D. | K. K. Appu Kuttan, Ph.D. |
| K. Rajendra Udupa, Ph.D. | K. Panduranga Vittal, Ph.D. |
| K.S. Babu Narayan, Ph.D. | K.N. Lokesh, Ph.D. |
| Kasturi V. Bangera, Ph.D. | K. Swaminathan, Ph.D. |
| Keshava Prasad Halemane, Ph.D. | Katta Venkataramana, Ph.D. |
| M. Govinda Raj , Ph.D. | Kiran G.Shirlal, Ph.D. |
| M.C. Narasimhan, Ph.D. | M.B. Saidutta, Ph.D. |
| M.S. Bhat, Ph.D. | M.K. Nagaraj, Ph.D. |
| Murulidhar N.N, Ph.D. | Muralidhar Kulkarni, Ph.D. |
| N.K. Udayashankar, Ph.D. | N. Lakshman, Ph.D. |
| P. Mohanan, Ph.D. | Narendranath S, Ph.D. |
| R. Shivashankar, Ph.D. | Prasad Krishna, Ph.D. |
| S. Shrihari, Ph.D. | Ravikiran Kadoli, Ph.D. |
| S.M. Hegde, Ph.D. | S. Sumam David, Ph.D. |
| Santosh George, Ph.D. | S.M. Kulkarn, Ph.D. |
| Sitaram Nayak, Ph.D. | Shrikantha S Rao, Ph.D. |
| Subhas C. Yaragal, Ph.D. | Subba Rao, Ph.D. |
| U. Sripati, Ph.D. | T.P. Ashok Babu, Ph.D. |
| V. Rama Sastry, Ph.D. | Udayakumar R.Y , Ph.D. |
| Vidya Shetty, Ph.D. | Varghese George, Ph.D. |
| Sri Jora M Gonda, Ph.D. | Vijay Desai, Ph.D. |
| Smt. Anusuya Chakari, Ph.D. | Sri P.G. Mohanan |
| Mr. Karthik Sreenivasan... Spl. Invitee | Mr. Akash Omer Spl. Invitee |

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 Relations) | 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. | Registrar | Member |
| 11. | Dy. Registrar (Academic) | Secretary |
| 12. | Assistant Registrars (Academic) | Member |

QUARTERS ALLOTMENT COMMITTEE

| | | |
|-----|--|------------------|
| 1. | Swapan Bhattacharya, Ph.D., Director from 1.8.2012 | President |
| 2. | A Kandasamy, Ph.D., from 18.1.2013 | Chairman |
| 3. | Gopal Mugeraya, Ph.D. BOG Member till 25.11.2013 | Member |
| 4. | Vinay Kumar, BOG Member from 25.11.2013 | Member |
| 5. | M K Nagaraj, R. E. i/c from 9.7.2014 | Member |
| 6. | K Ravindranath, Registrar from 9.03.2015 | Member |
| 7. | Laxminidhi T, Ph.D. | Member |
| 8. | C.Vairavanathan, Asst. Executive Engineer | Member |
| 9. | H.D. Shashikala, Ph.D. | Member |
| 10. | Basavaraju Manu, Ph.D. from 21.5.2014 | Member Secretary |

INSTITUTE GRIEVANCE COMMITTEE

| | | |
|----|--|-----------------|
| 1. | A Nithyananda Shetty, Ph.D., from 30.1.2013 | Chairman |
| 2. | K.R. Udupa, Ph.D., Professor, Dept. of Met. & Mat. Engg. | Member |
| 3. | A.C. Hegde, Ph.D., Asst. Professor, Dept. of Chemistry | Member |
| 4. | N.S.V. Shet, Ph.D., Dept. of E&C Engg. | Member |
| 5. | Pushpalatha, Foreman, Dept. of E&C Engg. | Member |
| 6. | Shashikala D.K., Supdt., Purchase Section | Member |
| 7. | K. Varija, Ph.D., Asso. Professor, Applied Mechanics | Member |
| 8. | K Ravindranath, Registrar, from 12.11.2012 | special Invitee |
| 9. | Ram Mohan Y, Dy. Registrar (A/cs) | special Invitee |

SECURITY COMMITTEE

| | | |
|-----|--|-------------------|
| 1. | Dean (Faculty Welfare) | Chairman |
| 2. | Dean Planning & Development | Member |
| 3. | Registrar | Member |
| 4. | Sunil B M, Ph.D., Faculty in charge Estate & Works | Member |
| 5. | Resident Engineer | Member |
| 6. | A.Nithyananda Shetty, Ph.D. | Member |
| 7. | Udaykumar R. Yaragati, Ph.D. | Member |
| 8. | Jagannath Nayak, Ph.D. | Member |
| 9. | Shanthi Tilagam, Ph.D. | Member |
| 10. | Y. Ram Mohan, Dy. Registrar (A/c's) | Member |
| 11. | Yashavanthi, Dept. of E&C | Member |
| 12. | Babu Shetty | Member |
| 13. | President Students' Union | Member |
| 14. | Girls' Representative | Member |
| 15. | Security Officer | Member/ Secretary |

LIBRARY ADVISORY COMMITTEE

| | |
|-------------------------------|-------------------------------------|
| 1. D V R Murthy, Ph.D. | Chairman |
| 2. Anasuya C Chakari | Secretary |
| 3. Iranna M Shettar | Library |
| 4. Arun Kumar Thalla | Civil |
| 4. Amba Shetty, Ph.D. | Applied Mechanics and Hydraulics |
| 5. Anish S, Ph.D. | Mechanical |
| 6. K Manjunath Sharma, Ph.D. | Electrical And Electronics Engg. |
| 7. Ramesh Kini, Ph.D. | Electronics And Communication Engg. |
| 8. Prasanna B D, Ph.D. | Chemical Engg. |
| 9. S B Arya, Ph.D. | Metallurgical And Materials Engg. |
| 10. Jeny Rajan, Ph.D. | Computer Engg. |
| 11. Ch. S. N. Murthy, Ph.D. | Mining Engg. |
| 12. B R Shankar, Ph.D. | MACS Dept. |
| 13. Partha Prathim Das, Ph.D. | Physics |
| 14. A C Hegde, Ph.D. | Chemistry |
| 15. Bijuna C Mohan, Ph.D. | Humanities |
| 16. Sowmya Kamath | Information Technology |

SPORTS ADVISORY COMMITTEE

| | |
|---------------------------------|------------------|
| 1. Dean (Students' Welfare) | Chairman |
| 2. Dean (P & D) | Member |
| 3. Dean (F.W.) | Member |
| 4. Dean (AA & IR) | Member |
| 5. Chief Warden | Member |
| 6. Dy. Registrar (A/cs.) | Member |
| 7. Resident Engineer | Member |
| 8. Nithyananda Shetty | Member |
| 9. Vijay Desai | Member |
| 10. K.B.Kiran | Member |
| 11. Doddamani B.M | Member |
| 12. Jagannath Nayak | Member |
| 13. Prasanna B.D | Member |
| 14. Sam Johnson. P | Member |
| 15. Hemanth Kumar | Member |
| 16. Ram Prasad Choudhary | Member |
| 17. Bijuna Mohan | Member |
| 18. Kalpana Bhat | Member |
| 19. Students' Council President | Member |
| 20. Girls Representatives | Member |
| 21. R.C. Convener | Member |
| 22. All Captains | Members |
| 23. Physical Director/Asst. P D | Member-Secretary |

NITK HEALTH CARE COMMITTEE

| | |
|--------------------------------|-----------|
| 1. A Kandasamy, Ph.D. | Chairman |
| 2. Dr. Shrimathi B | Secretary |
| 3. K P Vittal, Ph.D. | Member |
| 4. G S Dwarkish, Ph.D. | Member |
| 5. K.B Kiran, Ph.D. | Member |
| 6. Dr. M L Balabhaskara | Member |
| 7. Shashikanth K, Ph.D. | Member |
| 8. K V Gangadharan, Ph.D. | Member |
| 9. Deputy Registrar A/c | Member |
| 10. Superintendent A/C II | Member |
| 11. Yashavanthi | Member |
| 12. President, Students' Union | Member |
| 13. Girls Representative | Member |

COMPLAINTS COMMITTEE

| | |
|--|------------|
| 1. Dr. Devatha | Member |
| 2. Dr. Aruna | Member |
| 3. Mr. Yogesh | Member |
| 4. Mrs. Parvathi | Member |
| 5. Mrs. Anusya | Member |
| 6. Mrs. Manjula V Prasad, Secretary, Urja, Udupi | NGO Member |

3 DIVISIONS & DEPARTMENTS

I. Division of Civil Engineering Systems

Departments:

- Applied Mechanics & Hydraulics (AM)
- Civil Engineering (CV)
- Mining Engineering (MN)

II. Division of Electrical, Electronics & Computing System

Departments:

- Computer Engineering (CO)
- Electronics & Communication Engineering (EC)
- Electrical & Electronics Engineering (EE)
- Information Technology (IT)

III. Division of Mechanical & Chemical Systems

Departments:

- Chemical Engineering (CH)
- Mechanical Engineering (ME)
- Metallurgical & Materials Engineering (MT)

IV. Division of Basic Sciences, Humanities, Social Sciences & Management Systems

Departments:

- Chemistry (CY)
- Humanities, Social Sciences & Management (HU)
- Mathematical & Computational Sciences (MA)
- Physics (PH)

4 ACADEMIC PROGRAMMES

4.1 PROGRAMMES OFFERED

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

- 1 Civil Engineering
- 2 Mechanical Engineering
- 3 Electrical And Electronics Engineering
- 4 Electronics & Communication Engineering
- 5 Chemical Engineering
- 6 Metallurgical & Materials Engineering
- 7 Mining Engineering
- 8 Computer 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 Biotechnology
- 19 Computational Mathematics
- 20 Materials Engg
- 21 Process Metallurgy
- 22 Nanotechnology
- 23 Computer Science & Engg
- 24 Computer Science & Engg- Information Security
- 25 Information Technology

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

| Sl. No. | Academic Year | Programmes | Admission Commenced on | Admission closed on |
|----------------|----------------------|-----------------------------|-------------------------------|----------------------------|
| 1. | 2014-15 | B.Tech. | 14.07.2014 | 21.08.2014 |
| 2. | 2014-15 | M.Tech./M.Tech. by Research | 30.06.2014 | 13.08.2014 |
| 3. | 2014-15 | MCA | 17.07.2014 | 14.08.2014 |
| 4. | 2014-15 | M.B.A. | 19.05.2014 | 14.08.2014 |
| 5. | 2014-15 | M.Sc. (Physics & Chemistry) | 16.06.2014 | 21.07.2014 |
| 6. | 2014-15 | Ph.D. | 14.07.2014 | 28.07.2014 |
| | (July Session) | | | |
| | December Session | Ph.D. | 24.12.2014 | 19.01.2015 |

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 MNIT Jaipur.

After CCMT allotment of seats, the vacant and unfilled seats were filled in Spot admission on 28.07.2014 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 concerned department.

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 2014-15

6.1 The number of candidates admitted are as follows:

I. B.Tech.

| | | |
|---|---|------------|
| 1 | Admission through JEE (Main) Rank | 724 |
| 2 | G.O.I. Nominee- through Ministry of External Affairs (Education & Welfare) | 06 |
| 3 | DASA Scheme | 106 |
| | Total | 836 |

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 | 523 |
| 2 | Sponsored candidates | 06 |
| 3 | Admission under Indian Navy Sponsored | 01 |
| 4 | Admission under DASA Scheme | 04 |
| 5 | QIP candidates | 03 |
| 6 | L&T Sponsored Candidates | 30 |
| | Total | 567 |

M.Tech. (By Research)

| | | |
|---|---------------------------------|-----------|
| 1 | GATE qualified with Scholarship | 14 |
| 2 | Non Scholarship | 08 |
| 3 | Internal Registrants | 02 |
| 4 | External Registrants | 04 |
| | Total | 28 |

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. Agartala. A total 89 candidates admitted were as follows:-

| | |
|--------------|-----------|
| OP | 46 |
| OBC | 25 |
| SC | 12 |
| ST | 06 |
| Total | 89 |

IV M.B.A.:

Selection of candidates were made on the basis of CAT 2013 among candidates applied to NITK Surathkal, Group Discussion and Interview. A Total 36 candidates were admitted as follows:-

| | |
|--------------|-----------|
| OP | 32 |
| OBC | 02 |
| SC | 02 |
| ST | 00 |
| Total | 36 |

V. M.Sc (Chemistry & Physics)

Selection was 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 | 13 |
| OBC | 07 |
| SC | 03 |
| ST | 02 |
| Total | 25 |

ii M.Sc (Physics)

| | |
|--------------|-----------|
| OP | 13 |
| OBC | 07 |
| SC | 00 |
| ST | 02 |
| Total | 22 |

VI. Ph.D. Programme:

| | |
|---|------------|
| OP | 76 |
| OBC | 29 |
| SC | 13 |
| ST | 07 |
| QIP | 02 |
| Sponsored | 01 |
| Non Scholarship/Non Sponsored | |
| Non Sponsored | 01 |
| Admission Under Visvesvaraya Ph.D. Scheme | 05 |
| Total | 134 |

External Registrants (Part Time)

| | |
|--------------|-----------|
| OP | 11 |
| OBC | 04 |
| Total | 15 |

A total number of 836 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 2014-15.

| 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 | 13 | 1 | 14 | 5 | 2 | 7 | 18 | 5 | 23 | 7 | 6 | 13 | 1 | 0 | 1 | 36 | 9 | 45 | 80 | 23 | 103 |
| Mechanical Engg. | 20 | 0 | 20 | 10 | 0 | 10 | 37 | 0 | 37 | 22 | 1 | 23 | 0 | 0 | 0 | 65 | 3 | 68 | 154 | 4 | 158 |
| Electrical & Electronics Engg. | 10 | 4 | 14 | 6 | 0 | 6 | 20 | 6 | 26 | 10 | 4 | 14 | 1 | 2 | 3 | 33 | 14 | 47 | 80 | 30 | 110 |
| 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 | 14 | 5 | 19 | 34 | 17 | 51 |
| Metallurgical & Materials Engg. | 4 | 3 | 7 | 2 | 2 | 4 | 10 | 2 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 8 | 21 | 29 | 15 | 44 |
| Mining Engg. | 6 | 0 | 6 | 4 | 0 | 4 | 11 | 1 | 12 | 1 | 0 | 1 | 0 | 0 | 0 | 18 | 1 | 19 | 40 | 2 | 42 |
| Computer Engg. | 7 | 7 | 14 | 6 | 0 | 6 | 20 | 4 | 24 | 11 | 4 | 15 | 1 | 0 | 1 | 28 | 18 | 46 | 73 | 33 | 106 |
| Information Technology | 8 | 5 | 13 | 3 | 2 | 5 | 14 | 13 | 27 | 6 | 5 | 11 | 0 | 0 | 0 | 24 | 20 | 44 | 55 | 45 | 100 |
| Total | 82 | 27 | 109 | 44 | 9 | 53 | 157 | 41 | 198 | 74 | 29 | 103 | 4 | 2 | 6 | 266 | 90 | 356 | 627 | 198 | 825 |

| Branch (II 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 | 6 | 14 | 1 | 0 | 1 | 33 | 5 | 38 | 78 | 18 | 96 |
| Mechanical Engg. | 19 | 1 | 20 | 9 | 0 | 9 | 38 | 1 | 39 | 18 | 0 | 18 | 1 | 0 | 1 | 68 | 1 | 69 | 153 | 3 | 156 |
| 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 | 13 | 3 | 16 | 0 | 1 | 1 | 37 | 11 | 48 | 87 | 24 | 111 |
| 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. | 11 | 2 | 13 | 7 | 0 | 7 | 21 | 4 | 25 | 11 | 5 | 16 | 0 | 1 | 1 | 33 | 13 | 46 | 83 | 25 | 108 |
| Information Technology | 5 | 9 | 14 | 5 | 1 | 6 | 20 | 7 | 27 | 5 | 5 | 10 | 0 | 0 | 0 | 28 | 16 | 44 | 63 | 38 | 101 |
| TOTAL | 93 | 16 | 109 | 46 | 7 | 53 | 164 | 32 | 196 | 66 | 28 | 94 | 2 | 3 | 5 | 284 | 67 | 351 | 655 | 153 | 808 |

| Branch (III Year B.Tech.) | SC | | | ST | | | OBC | | | DASA | | | GOI | | | 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 | 2 | 12 | 5 | 2 | 7 | 22 | 3 | 25 | 8 | 5 | 13 | 1 | 0 | 1 | 37 | 5 | 42 | 83 | 17 | 100 |
| Mechanical Engg. | 16 | 1 | 17 | 8 | 1 | 9 | 38 | 1 | 39 | 13 | 1 | 14 | 2 | 0 | 2 | 70 | 3 | 73 | 147 | 7 | 154 |
| Electrical & Electronics Engg. | 12 | 2 | 14 | 5 | 1 | 6 | 24 | 2 | 26 | 11 | 0 | 11 | 1 | 1 | 2 | 35 | 12 | 47 | 88 | 18 | 106 |
| Electronics & Communication Engg. | 10 | 4 | 14 | 5 | 2 | 7 | 25 | 0 | 25 | 13 | 1 | 14 | 0 | 1 | 1 | 42 | 3 | 45 | 95 | 11 | 106 |
| Chemical Engg. | 3 | 3 | 6 | 3 | 1 | 4 | 11 | 1 | 12 | 5 | 2 | 7 | 0 | 0 | 0 | 18 | 5 | 23 | 40 | 12 | 52 |
| Metallurgical & Materials Engg. | 7 | 0 | 7 | 4 | 0 | 4 | 10 | 1 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 5 | 19 | 35 | 6 | 41 |
| Mining Engg. | 6 | 1 | 7 | 3 | 0 | 3 | 11 | 1 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 1 | 18 | 37 | 3 | 40 |
| Computer Engg. | 10 | 3 | 13 | 5 | 1 | 6 | 19 | 6 | 25 | 10 | 3 | 13 | 0 | 2 | 2 | 39 | 6 | 45 | 83 | 21 | 104 |
| Information Technology | 13 | 1 | 14 | 6 | 1 | 7 | 24 | 3 | 27 | 5 | 4 | 9 | 0 | 0 | 0 | 34 | 12 | 46 | 82 | 21 | 103 |
| TOTAL | 87 | 17 | 104 | 44 | 9 | 53 | 184 | 18 | 202 | 65 | 16 | 81 | 4 | 4 | 8 | 306 | 52 | 358 | 690 | 116 | 806 |

| Branch (IV Year B.Tech.) | SC | | | ST | | | OBC | | | DASA | | | GOI | | | 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 | 12 | 2 | 14 | 7 | 1 | 8 | 22 | 1 | 23 | 11 | 0 | 11 | 1 | 0 | 1 | 1 | 0 | 1 | 43 | 5 | 48 | 97 | 9 | 106 |
| Mechanical Engg. | 17 | 1 | 18 | 10 | 1 | 11 | 35 | 0 | 35 | 14 | 0 | 14 | 2 | 0 | 2 | 0 | 0 | 0 | 70 | 1 | 71 | 148 | 3 | 151 |
| Electrical & Electronics Engg. | 12 | 2 | 14 | 6 | 0 | 6 | 20 | 4 | 24 | 7 | 6 | 13 | 1 | 0 | 1 | 0 | 0 | 0 | 41 | 6 | 47 | 87 | 18 | 105 |
| Electronics & Communication Engg. | 10 | 3 | 13 | 6 | 1 | 7 | 21 | 4 | 25 | 14 | 0 | 14 | 0 | 2 | 2 | 0 | 0 | 0 | 44 | 3 | 47 | 95 | 13 | 108 |
| Chemical Engg. | 7 | 1 | 8 | 4 | 0 | 4 | 9 | 2 | 11 | 3 | 2 | 5 | 0 | 1 | 1 | 0 | 0 | 0 | 19 | 4 | 23 | 42 | 10 | 52 |
| Metallurgical & Materials Engg. | 5 | 2 | 7 | 3 | 1 | 4 | 10 | 2 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 18 | 36 | 5 | 41 |
| Mining Engg. | 10 | 0 | 10 | 6 | 1 | 7 | 9 | 1 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 1 | 17 | 41 | 3 | 44 |
| Computer Engg. | 12 | 2 | 14 | 7 | 0 | 7 | 19 | 5 | 24 | 12 | 2 | 14 | 1 | 0 | 1 | 0 | 0 | 0 | 41 | 5 | 46 | 92 | 14 | 106 |
| Information Technology | 13 | 1 | 14 | 4 | 1 | 5 | 19 | 8 | 27 | 9 | 3 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 12 | 46 | 79 | 25 | 104 |
| TOTAL | 98 | 14 | 112 | 53 | 6 | 59 | 164 | 27 | 191 | 70 | 13 | 83 | 5 | 3 | 8 | 1 | 0 | 1 | 326 | 37 | 363 | 717 | 100 | 817 |

M.Tech. Students Strength for the year 2014-15

| M.Tech. Students Strength for the year 2014-15 | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------|-----------|-----------|-----------|----------|-----------|------------|-----------|------------|------------|----------|-----------|-------------|----------|----------|------------------|----------|-----------|----------------|-----------|------------|--------------|------------|------------|
| 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 | T | M | F | To | M | F | To | M | F | To |
| Structural Engg. | 3 | 1 | 4 | 2 | 0 | 2 | 5 | 2 | 7 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 7 | 4 | 11 | 18 | 8 | 26 |
| Geotechnical Engg. | 1 | 1 | 2 | 1 | 0 | 1 | 2 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 5 | 7 | 6 | 8 | 14 |
| Environmental Engg. | 3 | 1 | 4 | 2 | 0 | 2 | 3 | 4 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 5 | 6 | 11 | 13 | 12 | 25 |
| Transportation Systems Engg. | 3 | 1 | 4 | 1 | 0 | 1 | 5 | 2 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 6 | 13 | 16 | 9 | 25 |
| Construction Technology & Mgt. | 4 | 0 | 4 | 1 | 0 | 1 | 6 | 1 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 5 | 30 | 11 | 1 | 12 | 47 | 7 | 54 |
| Marine Structures | 4 | 0 | 4 | 1 | 0 | 1 | 5 | 2 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 2 | 12 | 20 | 4 | 24 |
| Water Resources Engg. & Management | 2 | 0 | 2 | 0 | 1 | 1 | 2 | 2 | 4 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 3 | 7 | 8 | 7 | 15 |
| Remote Sensing & GIS | 3 | 0 | 3 | 0 | 1 | 1 | 4 | 3 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 6 | 13 | 14 | 10 | 24 |
| Thermal Engg. | 2 | 0 | 2 | 1 | 0 | 1 | 4 | 0 | 4 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 | 15 | 0 | 15 |
| Mechatronics Engg. | 4 | 0 | 4 | 2 | 0 | 2 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 1 | 12 | 24 | 1 | 25 |
| Manufacturing Engg. | 2 | 0 | 2 | 1 | 0 | 1 | 3 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 5 | 2 | 7 | 12 | 3 | 15 |
| Design and Precision Engg. | 2 | 0 | 2 | 1 | 0 | 1 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 6 | 1 | 7 | 13 | 1 | 14 |
| Power & Energy Systems | 4 | 0 | 4 | 1 | 1 | 2 | 5 | 2 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 6 | 13 | 17 | 9 | 26 |
| VLSI Design | 3 | 1 | 4 | 2 | 0 | 2 | 3 | 3 | 6 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 9 | 2 | 11 | 18 | 6 | 24 |
| Communication Engg. | 3 | 1 | 4 | 1 | 1 | 2 | 5 | 2 | 7 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 2 | 9 | 4 | 13 | 20 | 9 | 29 |
| Chemical Plant Design | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 6 | 5 | 6 | 11 |
| Industrial Pollution Control | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 3 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 7 | 12 | 9 | 10 | 19 |
| Industrial Biotechnology | 1 | 2 | 3 | 1 | 0 | 1 | 2 | 5 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 9 | 13 | 8 | 16 | 24 |
| Process Metallurgy | 2 | 0 | 2 | 0 | 0 | 0 | 3 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 1 | 7 | 11 | 2 | 13 |
| Materials Engg. | 4 | 0 | 4 | 2 | 0 | 2 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 11 | 24 | 0 | 24 |
| Nanoscience & Nanotechnology | 0 | 2 | 2 | 1 | 0 | 1 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 6 | 8 | 4 | 12 |
| Computer Science & Engg | 4 | 0 | 4 | 1 | 1 | 2 | 5 | 2 | 7 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 7 | 5 | 12 | 18 | 8 | 26 |
| Computer Science & Engg.-Information Security | 3 | 0 | 3 | 1 | 1 | 2 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 2 | 12 | 21 | 3 | 24 |
| Computational Mathamatics | 0 | 0 | 0 | 1 | 0 | 1 | 3 | 4 | 7 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 5 | 13 | 12 | 10 | 22 |
| INFORMATION TECHNOLOGY | 2 | 0 | 2 | 2 | 0 | 2 | 6 | 1 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 5 | 12 | 17 | 6 | 23 |
| TOTAL | 60 | 10 | 70 | 26 | 6 | 32 | 103 | 44 | 147 | 0 | 3 | 3 | 4 | 0 | 4 | 29 | 8 | 37 | 172 | 88 | 260 | 394 | 159 | 553 |

| M.Tech (II Year) | SC | | | ST | | | OBC | | | ICCR | | | QIP | | | DASA | | | Sponsored | | | GENERAL | | | TOTAL | | |
|---|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|------------|-----------|------------|------------|------------|------------|
| | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To | M | F | T | M | F | To | M | F | To | M | F | To |
| Structural Engg. | 4 | 0 | 4 | 2 | 0 | 2 | 5 | 2 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 11 | 1 | 12 | 22 | 4 | 26 |
| Geo-Technical Engg. | 1 | 1 | 2 | 1 | 0 | 1 | 2 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 4 | 6 | 7 | 7 | 14 |
| Environmental Engg. | 2 | 2 | 4 | 1 | 0 | 1 | 4 | 3 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 4 | 12 | 15 | 9 | 24 |
| Transportation Systems Engg. | 3 | 0 | 3 | 1 | 1 | 2 | 3 | 4 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 5 | 13 | 15 | 10 | 25 |
| Construction Technology & Mgt. | 4 | 0 | 4 | 1 | 0 | 1 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 12 | 1 | 13 | 25 | 1 | 26 |
| Marine Structures | 4 | 0 | 4 | 1 | 0 | 1 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 11 | 1 | 12 | 24 | 1 | 25 |
| Water Resources Engg. & Management | 1 | 1 | 2 | 1 | 0 | 1 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 6 | 6 | 6 | 12 |
| Remote Sensing & GIS | 1 | 0 | 1 | 0 | 0 | 0 | 4 | 3 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 5 | 12 | 12 | 8 | 20 |
| Thermal Engg. | 2 | 0 | 2 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 7 | 0 | 7 | 15 | 1 | 16 |
| Mechatronics Engg. | 3 | 0 | 3 | 1 | 0 | 1 | 6 | 0 | 6 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 11 | 2 | 13 | 23 | 2 | 25 |
| Manufacturing Engg. | 2 | 0 | 2 | 1 | 0 | 1 | 3 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 7 | 0 | 7 | 14 | 1 | 15 |
| Design and Precision Engg. | 0 | 0 | 0 | 1 | 0 | 1 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 | 11 | 0 | 11 |
| Power & Energy Systems | 1 | 2 | 3 | 1 | 0 | 1 | 6 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 2 | 12 | 18 | 4 | 22 |
| VLSI Design | 4 | 0 | 4 | 2 | 0 | 2 | 5 | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 1 | 10 | 20 | 2 | 22 |
| Communication Engg. | 2 | 1 | 3 | 2 | 0 | 2 | 4 | 2 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 9 | 1 | 10 | 17 | 5 | 22 |
| Chemical Plant Design | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 4 | 4 | 3 | 7 |
| Industrial Pollution Control | 1 | 0 | 1 | 0 | 0 | 0 | 3 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 11 | 14 | 7 | 12 | 19 |
| Industrial Biotechnology | 0 | 1 | 1 | 0 | 0 | 0 | 3 | 4 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 10 | 12 | 5 | 15 | 20 |
| Process Metallurgy | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 | 9 | 0 | 9 |
| Materials Engg. | 4 | 1 | 5 | 1 | 0 | 1 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 1 | 14 | 23 | 2 | 25 |
| Nanoscience & Nanotechnology | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 8 | 10 | 0 | 10 |
| Computer Science & Engg | 4 | 0 | 4 | 2 | 0 | 2 | 5 | 1 | 6 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 5 | 12 | 19 | 6 | 25 |
| Computer Science & Engg. - Information Security | 3 | 0 | 3 | 2 | 0 | 2 | 6 | 1 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 3 | 11 | 19 | 4 | 23 |
| Systems Analysis & Computer Applications | 4 | 0 | 4 | 1 | 1 | 2 | 3 | 0 | 3 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 4 | 14 | 19 | 6 | 25 |
| INFORMATION TECHNOLOGY | 3 | 1 | 4 | 1 | 0 | 1 | 5 | 2 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 3 | 9 | 15 | 6 | 21 |
| TOTAL | 55 | 10 | 65 | 23 | 2 | 25 | 99 | 30 | 129 | 1 | 0 | 1 | 3 | 1 | 4 | 1 | 1 | 2 | 5 | 2 | 7 | 187 | 69 | 256 | 374 | 115 | 489 |

| M.Tech Research | SC | | | ST | | | OBC | | | SPON | | | GENERAL | | | TOTAL | | |
|---|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | M | F | To | M | F | To | M | F | To | M | F | T | M | F | To | M | F | To |
| CIVIL ENGG : Structural Engg. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 2 | 2 |
| Geo-Technical Engg. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 |
| Transportation Systems Engg. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 2 | 0 | 2 | 2 | 1 | 3 |
| Construction Technology & Mgt. | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 2 | 3 |
| APPLIED MECHANICS & HYDRAULICS:- Marine Structures | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| Water Resources Engg. & Management | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 |
| Remote Sensing & GIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 2 | 1 | 3 |
| MECHANICAL ENGG :- Thermal Engg. | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 3 | 0 | 3 | 5 | 0 | 5 |
| Mechatronics Engg. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 2 | 4 | 3 | 2 | 5 |
| Manufacturing Engg. | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 3 | 0 | 3 | 4 | 0 | 4 |
| Design and Precision Engg. | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 1 | 0 | 1 | 1 | 0 | 1 | 4 | 0 | 4 |
| ELECTRICAL & ELECTRONICS ENGG:- Power & Energy Systems | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 3 | 0 | 3 | 4 | 0 | 4 |
| ELECTRONICS & COMMUNICATION ENGG:- VLSI Design | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 4 | 0 | 4 |
| Communication Engg. | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 1 | 3 |
| CHEMICAL ENGG:- Chemical Plant Design | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 5 | 3 | 2 | 5 |
| Industrial Pollution Control | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| Industrial Biotechnology | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Materials Engg. | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 |
| Nanoscience & Nanotechnology | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 1 | 2 |
| MINING:- Rock Exavation Technology & Mgt. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 1 | 2 |
| COMPUTER ENGG:- Computer Science & Engg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 2 | 3 |
| Computer Science & Engg. - Information Security | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 1 | 3 |
| TOTAL | 2 | 0 | 2 | 0 | 0 | 0 | 8 | 2 | 10 | 3 | 0 | 3 | 30 | 17 | 47 | 43 | 19 | 62 |

MCA Students Strength for the year 2014-15

| Year | SC | | | ST | | | OBC | | | GENERAL | | | TOTAL | | |
|-----------------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|-----------|------------|
| | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To |
| I Year | 4 | 7 | 11 | 3 | 3 | 6 | 15 | 10 | 25 | 29 | 17 | 46 | 51 | 37 | 88 |
| II YEAR | 11 | 3 | 14 | 4 | 3 | 7 | 22 | 1 | 23 | 38 | 9 | 47 | 75 | 16 | 91 |
| III YEAR | 9 | 4 | 13 | 4 | 1 | 5 | 20 | 5 | 25 | 28 | 12 | 40 | 61 | 22 | 83 |
| TOTAL | 24 | 14 | 38 | 11 | 7 | 18 | 57 | 16 | 73 | 95 | 38 | 133 | 187 | 75 | 262 |

MBA Students Strength for the year 2014-15

| Year | SC | | | ST | | | OBC | | | GENERAL | | | TOTAL | | |
|----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To |
| I YEAR | 1 | 1 | 2 | 0 | 0 | 0 | 1 | 1 | 2 | 27 | 6 | 33 | 29 | 8 | 37 |
| II YEAR | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 2 | 3 | 17 | 6 | 23 | 20 | 8 | 28 |
| TOTAL | 2 | 1 | 3 | 1 | 0 | 1 | 2 | 3 | 5 | 44 | 12 | 56 | 49 | 16 | 65 |

M.Sc(Chemistry) Students Strength for the year 2014-15

| YEAR | SC | | | ST | | | OBC | | | GENERAL | | | TOTAL | | |
|----------------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|
| | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To |
| I YEAR | 2 | 1 | 3 | 1 | 1 | 2 | 3 | 4 | 7 | 2 | 10 | 12 | 8 | 16 | 24 |
| II YEAR | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 5 | 5 | 2 | 10 | 12 | 3 | 16 | 19 |
| TOTAL | 2 | 1 | 3 | 2 | 2 | 4 | 3 | 9 | 12 | 4 | 20 | 24 | 11 | 32 | 43 |

M.Sc(Physics) Students Strength for the year 2014-15

| YEAR | SC | | | ST | | | OBC | | | GENERAL | | | TOTAL | | |
|----------------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|
| | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To |
| I YEAR | 0 | 0 | 0 | 2 | 0 | 2 | 2 | 5 | 7 | 2 | 11 | 13 | 6 | 16 | 22 |
| II YEAR | 2 | 0 | 2 | 0 | 0 | 0 | 4 | 3 | 7 | 4 | 8 | 12 | 10 | 11 | 21 |
| TOTAL | 2 | 0 | 2 | 2 | 0 | 2 | 6 | 8 | 14 | 6 | 19 | 25 | 16 | 27 | 43 |

Ph.D. Students Strength

| Branch | SC | | | ST | | | OBC | | | QIP | | | TEQIP | | | OTHER* | | | 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 |
| Civil | 4 | 1 | 5 | 2 | 0 | 2 | 5 | 1 | 6 | 2 | 0 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 19 | 17 | 36 | 32 | 20 | 52 |
| App. Mechanics | 3 | 0 | 3 | 0 | 0 | 0 | 2 | 1 | 3 | 1 | 0 | 1 | 0 | 1 | 1 | 2 | 0 | 2 | 30 | 6 | 36 | 38 | 8 | 46 |
| Mechanical | 10 | 0 | 10 | 2 | 0 | 2 | 13 | 2 | 15 | 3 | 0 | 3 | 1 | 0 | 1 | 1 | 0 | 1 | 66 | 4 | 70 | 96 | 6 | 102 |
| E&E | 6 | 0 | 6 | 2 | 0 | 2 | 3 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 4 | 24 | 31 | 5 | 36 |
| E&C | 1 | 0 | 1 | 2 | 0 | 2 | 4 | 0 | 4 | 1 | 1 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 14 | 6 | 20 | 23 | 7 | 30 |
| Chemical | 2 | 3 | 5 | 0 | 1 | 1 | 2 | 1 | 3 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 14 | 23 | 14 | 20 | 34 |
| Metallurgy | 3 | 0 | 3 | 1 | 0 | 1 | 5 | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 5 | 23 | 27 | 6 | 33 |
| Mining | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 2 | 10 | 1 | 11 | 15 | 1 | 16 |
| Computer | 3 | 1 | 4 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 5 | 15 | 16 | 10 | 26 |
| Information Technology | 2 | 0 | 2 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 2 | 10 | 12 | 2 | 14 |
| Physics | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 1 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 10 | 32 | 29 | 11 | 40 |
| Chemistry | 0 | 0 | 0 | 2 | 0 | 2 | 6 | 5 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 9 | 22 | 21 | 14 | 35 |
| MACS | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 10 | 7 | 17 | 13 | 12 | 25 |
| Humanities | 0 | 3 | 3 | 1 | 0 | 1 | 3 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 9 | 17 | 12 | 13 | 25 |
| Total | 37 | 8 | 45 | 14 | 2 | 16 | 53 | 18 | 71 | 11 | 4 | 15 | 2 | 2 | 4 | 5 | 2 | 7 | 257 | 99 | 356 | 379 | 135 | 514 |

6.3 ADMISSION STATISTICS Undergraduate Programmes – B.Tech.
Particulars of sanctioned intake and admissions made during 2014-15

| Sl. No. | Courses offered | Sanctioned intake | | | Total | Admissions made to Undergraduate Programmes | | | | | | | Total Admission |
|--------------|-----------------------------------|-------------------|------------------|--|------------|---|-----------|------------|-----------------|------------|------------------|--|-----------------|
| | | Normal Intake | G.O.I. Nominees* | D.A.S.A. (Direct Admission of Students Abroad) | | Normal Intake | | | | | G.O.I. Nominees* | D.A.S.A. (Direct Admission of Students Abroad) | |
| | | | | | | SC | ST | OBC | PWD | OP | | | |
| 1 | Civil Engineering | 92 | 3 | 16 | 111 | 14 | 7 | 23 | 3OP 1OBC | 43 | 1 | 13 | 105 |
| 2 | Mechanical Engineering | 139 | 3 | 24 | 166 | 18 | 9 | 38 | 2OP 2SC 1 ST | 67 | - | 24 | 161 |
| 3 | Electrical & Electronics Engg. | 93 | 4 | 14 | 111 | 14 | 6 | 26 | 2OP | 45 | 3 | 14 | 110 |
| 4 | Electronics & Communication Engg. | 93 | 3 | 17 | 113 | 14 | 7 | 24 | 1OBC | 47 | 1 | 17 | 111 |
| 5 | Chemical Engg. | 46 | 2 | 9 | 57 | 7 | 4 | 11 | 1OBC | 19 | - | 9 | 51 |
| 6 | Metallurgical & Materials Engg | 46 | - | 2 | 48 | 7 | 4 | 12 | - | 21 | - | - | 44 |
| 7 | Mining Engg. | 46 | - | 01 | 47 | 6 | 4 | 12 | - | 19 | - | 1 | 42 |
| 8 | Computer Engg. | 92 | 2 | 16 | 110 | 14 | 7 | 23 | 2OP 2OBC | 44 | 1 | 16 | 109 |
| 9 | Information Technology | 93 | - | 12 | 105 | 13 | 6 | 26 | 2OP 1OBC | 43 | - | 12 | 103 |
| TOTAL | | 740 | 17 | 111 | 868 | 107 | 54 | 195 | 200 | 348 | 6 | 106 | 836 |

* For the candidates nominated by Ministry of External Affairs (Education) – for Foreign students and Ministry of External Affairs (Welfare) for wards of Govt. employees posted in Indian Missions abroad.

ADMISSION STATISTICS – B.Tech. 2014-15
Details of Male & Female admissions – coursewise and categorywise

| Sl. No. | Programme | OP | | OBC | | SC | | ST | | GOI Nominee | | DASA (Direct Admission of Students Abroad) | | Total | | |
|---------|------------------------------------|----------------|---------------|----------------|-----------|---------------|-----------|---------------|-----------|-------------|----------|--|-----------|------------|------------|------------|
| | | M | F | M | F | M | F | M | F | M | F | M | F | M | F | Total |
| 1 | Civil Engg. | 34+3PD | 9 | 18+1PD | 05 | 13 | 1 | 5 | 2 | 1 | - | 07 | 06 | 82 | 23 | 105 |
| 2 | Mechanical Engg. | 64+2PD | 3 | 38 | - | 18+2PD | - | 9+1PD | - | - | - | 23 | 01 | 157 | 04 | 161 |
| 3 | Electrical & Electronics Engg. | 31+2PD | 14 | 20 | 6 | 10 | 4 | 6 | - | 1 | 2 | 10 | 04 | 80 | 30 | 110 |
| 4 | Electronics & Communications Engg. | 35 | 12 | 20+1PD | 4 | 9 | 5 | 4 | 3 | 1 | - | 12 | 05 | 82 | 29 | 111 |
| 5 | Chemical Engg. | 14 | 5 | 5+1PD | 6 | 5 | 2 | 4 | - | - | - | 05 | 04 | 34 | 17 | 51 |
| 6 | Metallurgical & Materials Engg. | 13 | 8 | 10 | 2 | 4 | 3 | 2 | 2 | - | - | - | - | 29 | 15 | 44 |
| 7 | Mining Engg. | 18 | 1 | 11 | 1 | 6 | -- | 4 | - | - | - | 01 | - | 40 | 02 | 42 |
| 8 | Computer Engg. | 27+1PD | 17+1PD | 19+2PD | 4 | 7 | 7 | 6 | 1 | 1 | - | 12 | 04 | 75 | 34 | 109 |
| 9 | Information Technology | 23+1PD | 20+1PD | 13+1PD | 13 | 8 | 5 | 4 | 2 | - | - | 07 | 05 | 57 | 46 | 103 |
| | Total | 259+9PD | 89+2PD | 154+6PD | 41 | 80+2PD | 27 | 44+1PD | 10 | 4 | 2 | 77 | 29 | 636 | 200 | 836 |

PD: Persons with disability

ADMISSION STATISTICS - POST GRADUATE PROGRAMMES
M.Tech. Programme - Particulars of Intake and Admissions during 2014-15

| Sl. No. | Name of the Programme | Intake | Admitted | | | | | Out of the total admissions –Number of candidates admissions under category | | | | | | | |
|---------|---|---------------|--------------------------|-----------------------------------|--------------|-----------|-------------|---|---|----|---|----------|-----------|--------|-------|
| | | | Gate (scholarship seats) | sponsored + QIP seats + DASA | Total | | | SC | | ST | | OBC | | PWD | |
| | | | | | M | F | Total | M | F | M | F | M | F | M | F |
| 1. | Structural Engg. | 27+1* | 26 | 1 (Sponsored)+1QIP (Regular) | 20 | 8 | 28 | 3 | 1 | 2 | - | 5 | 2 | 1(OC) | - |
| 2. | Geotechnical Engg. | 15+1**+1* | 13 | 1 (Sponsored) | 6 | 8 | 14 | 1 | 1 | 1 | - | 2 | 1+1 (SPO) | - | - |
| 3. | Environmental Engg. | 27+1* | 26 | 1 (Sponsored) | 14 | 13 | 27 | 3 | 1 | 2 | - | 3 | 3 | - | 1(OB) |
| 4. | Transportation Engg. | 27+1* | 26 | - | 17 | 9 | 26 | 3 | 1 | 2 | - | 5 | 2 | - | - |
| 5. | Construction Technology & Management | 27+1*+30(L&T) | 24 | 30 (L&T-Sponsored) | 22+25 (L&T) | 2+5 (L&T) | 24+30 (L&T) | 4 | - | 1 | - | 6 | 1 | - | - |
| 6. | Marine Structures | 27+1**+1* | 24 | - | 20 | 4 | 24 | 4 | - | 1 | - | 5 | 2 | - | - |
| 7. | Water Resources Engineering & Management | 15+1* | 14 | 1 (QIP-(Regular) | 8 | 7 | 15 | 2 | - | - | 1 | 2 | 2 | - | - |
| 8. | Remote Sensing & Geographic Information Systems | 27+1**+1* | 24 | - | 14 | 10 | 24 | 3 | - | - | 1 | 4 | 3 | - | - |
| 9. | Design and Precision Engg. | 15+1* | 14 | 1 (Sponsored) | 14 | 1 | 15 | 2 | - | 1 | - | 4+1(Spo) | - | - | - |
| 10. | Manufacturing Engg. | 15+1* | 14 | 1 (Sponsored) | 12 | 3 | 15 | 2 | - | 1 | - | 3+1(SPo) | 1 | - | - |
| 11. | Mechatronics Engg. | 27+1* | 26 | - | 25 | 1 | 26 | 4 | - | 2 | - | 7 | - | 1(OC) | - |
| 12. | Thermal Engineering | 15+1**+1* | 14 | 1 (DASA) | 15 | - | 15 | 2 | - | 1 | - | 4 | - | - | - |
| 13. | Power & Energy Systems | 27+1* | 26 | - | 17 | 9 | 26 | 4 | - | 1 | 1 | 5 | 2 | - | - |
| 14. | VLSI Design | 27+1**+1* | 23 | 1 (DASA) | 18 | 6 | 24 | 3 | 1 | 2 | - | 3 | 3 | - | - |
| 15. | Communication Engg. | 27+1**+1* | 26 | 1 (DASA)+ 1 SPO) 1 (NAVY Spon) | 20 | 9 | 29 | 3 | 1 | 1 | 1 | 5 | 2 | 1(OC) | - |
| 16. | Chemical Plant Design | 15+1* | 12 | - | 6 | 6 | 12 | 1 | - | 1 | - | 1 | 3 | - | - |
| 17. | Industrial Pollution Control Engg. | 27+1* | 20 | - | 10 | 10 | 20 | - | - | - | - | 4 | 3 | - | - |
| 18. | Industrial Biotechnology | 27+1* | 24 | - | 8 | 16 | 24 | 1 | 2 | 1 | - | 2 | 5 | - | - |

| Sl. No. | Name of the Programme | Intake | Admitted | | | | | Out of the total admissions – Number of candidates admissions under category | | | | | | | |
|---------|---|---------------------------------------|---------------------------|---|------------|------------|------------|--|-----------|-----------|----------|---------------------|------------------|----------|----------|
| | | | Gate (scholar-ship seats) | sponsored + QIP seats + DASA | Total | | | SC | | ST | | OBC | | PWD | |
| | | | | | M | F | Total | M | F | M | F | M | F | M | F |
| 19. | Computational Mathematics | 27+1* | 21 | 1 QIP (Regular) | 12 | 10 | 22 | 1 (QIP) | - | 1 | - | 3 | 4 | - | - |
| 20. | Materials Engg. | 27+1* | 26 | - | 26 | - | 26 | 4 | - | 2 | - | 7 | - | - | - |
| 21. | Process Metallurgy | 15+1**+1* | 13 | - | 11 | 2 | 13 | 2 | - | - | - | 3 | 1 | - | - |
| 22. | Nanotechnology | 15+1* | 13 | - | 9 | 4 | 13 | - | 2 | 1 | - | 3 | - | - | - |
| 23. | Computer Science & Engg. | 27+1**+1* | 25 | 1(DASA) | 18 | 8 | 26 | 4 | - | 1 | 1 | 5 | 1 | - | 1(O B) |
| 24. | Computer Science & Engg. – Information Security | 27+1* | 25 | - | 21 | 4 | 25 | 3 | - | 1 | 1 | 7 | - | 1(OC) | - |
| 25. | Information Technology | 27+1* | 24 | - | 18 | 6 | 24 | 2 | - | 2 | - | 6 | 1 | 1(OC) | - |
| | TOTAL | 579+8**+25*+30 (L&T) =642 | 523 | 6 Sponsored +1 Indian Navy Sponsored+3 QIP +4 DASA +30 L&T= 44 | 406 | 161 | 567 | 60+1QIP | 10 | 28 | 6 | 104+2 (Spo) | 42+1(spo) | 5 | 2 |

** Sanctioned seats for DASA candidates.

*Additional seats reserved for the international students under I.C.C.R Scheme

The above intake of M.Tech. excluding the intake of QIP allotted by AICTE and two seats of Indian Navy Sponsored (one seat each in Mechanical Engg & E&C Dept)

L&T – Additional seats reserved for L&T Sponsored candidates.

PWD: Persons With Disabilities.

M.TECH. PROGRAMME (BY RESEARCH) 2014-15

Intake

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

Admission mde for the year 2014-15

| 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 | 1 |
| 2 | Geotechnoloical Engg | 1(OC) | - | 1 | - | 1 |
| 3 | Transportation Engg. | --- | 1OBC 1OC (IR) | 1 | 1 | 2 |
| 4 | Construction Technology & Management | 1(OC) | 1OC +1OBC | 1 | 2 | 3 |
| 5 | Remote Sensing & Geographics Information Systems | 1(OC) | 1(OC) | 1 | 1 | 2 |
| 6 | Thermal Engg. | 1(OC)+1(OBC) | - | 2 | - | 2 |
| 7 | Manufacturing Engg. | 1(OC) | 1(IR- OBC) | 2 | - | 2 |
| 8 | Mechatronics Engg. | - | 2 OC(ER- SPO) | 2 | - | 2 |
| 9 | Design & Precision Engg. | 1 (OBC) | 1(OC-ER- SPO) | 2 | - | 2 |
| 10 | VLSI Design | 1 (OC) | 1(ER-SPO) | 2 | - | 2 |
| 11 | Communication Engg. | 1(OC)+1OBC | - | 2 | - | 2 |
| 12 | Power & Energy Systemes | 1 (OC) | 1(OC)- NSP | 2 | - | 2 |
| 13 | Nanotechnology | - | 1(OC) | 1 | - | 1 |
| 14 | Materials Engg | - | 1 OC | - | 1 | 1 |
| 15 | Computer Science & Engg | 1 (OC) | - | 1 | - | 1 |
| 16 | Computer Science & Engg (Inforamtion Security | 1 (SC) | - | 1 | - | 1 |
| 17 | Rock Excavation Technology & Management | - | 1 (OC) | 1 | - | 1 |
| | Total | 1410 (OC)+3 (OBC) +1(SC)=14 | 6(OC)+2(OBC) + 2 (IR)+4 ER=14 | 22 | 06 | 28 |

ER-SPO – External Registrants (Sponsored)

IR – Internal Registrants

NSP= Non Sponsored

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

Particulars of Admissions during 2014-15

| Sl. No. | Programme | Intake | Total admitted | | | Out of the total admissions – Number of candidates Admissions under category | | | | | | | |
|---------|---|-----------------------|----------------|-----------|------------|--|----------|----------|----------|-----------|-----------|----------|----------|
| | | | Boys | Girls | Total | SC | | ST | | OBC | | PWD | |
| | | | | | | M | F | M | F | M | F | M | F |
| 1 | Master of Computer Applications (MCA) | 92+1** | 52 | 37 | 89 | 5 | 7 | 3 | 3 | 15 | 10 | - | - |
| 2 | Master of Business Administration (MBA) | 64+5*+1** | 29 | 7 | 36 | 1 | 1 | - | - | 1 | 1 | - | - |
| 3 | M.Sc. (Chemistry) | 27+1** | 8 | 17 | 25 | 2 | 1 | 1 | 1 | 3 | 4 | - | - |
| 4 | M.Sc. (Physics) | 27+1** | 6 | 16 | 22 | - | - | 2 | - | 2 | 5 | - | - |
| | Total | 210+5*+4**=219 | 95 | 77 | 172 | 8 | 9 | 6 | 4 | 21 | 20 | - | - |

* 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 2014-15**

Intake for the year 2014-15

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

Details of Admissions made during 2014-15

| 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 | | | | 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 | M | F | M | F |
| 1 | Civil Engg | 7+5* | 3+3* | - | - | 10C | -- | 5+1* | 1+3* | 2+1* | 1 | 2* | 1 | 1* | - | - | - |
| 2 | Applied Mech. & Hydraulics | 3+3* | - | - | - | 10B | 10C | 2+3* | | 1 | - | - | - | - | - | - | - |
| 3 | Mechanical Engg | 12+8* | 1 | 1 (SP)+ 1QIP | - | 40C | - | 9+3* | 1 | 2+3* | - | 1+1* | - | 1* | | 1(SP) + 1QIP | |
| 4 | Electrical & Electronics Engg | 5+2* | 2* | 2** | - | - | 10C | 3+1* | 1* | 1* | 1* | 1 | - | 1 | - | 10C**+ 1SC** | |
| 5 | Electronics & Communication Engg | 7 | 2+1* | 2** | 1** | - | - | 4 | 2+1* | 1 | - | 1 | | 1 | | 10C** +1 OB** | 1 OC* |

| | | | | | | | | | | | | | | | | | |
|----|---|--------|--------|-------|-------|---------|-----|--------|---------|---------|------|------|---|------|------|-------|-------|
| 6 | Chemical Engg | 3+2* | 1+3* | - | - | - | - | 2+1* | 1+2* | 1* | - | 1 | - | - | 0+1* | - | - |
| 7 | Metallurgical & Materials Engg | 8+2* | 1* | - | - | - | - | 4+1* | - | 1+1* | 1* | 2 | - | 1 | - | - | |
| 8 | Mining Engg | 1+1* | 1 | - | - | - | - | 1 | 1 | - | - | 1* | - | - | - | - | |
| 9 | Computer Science & Engg | 1+3* | 1 | - | 1QIP | - | - | 1* | 1 | 1* | - | 1+1* | - | - | - | - | 1QIP |
| 10 | Information Technology | 3+2* | - | - | - | - | - | 2+2* | | 1 | | | - | - | - | - | - |
| 11 | Physics | 1+3* | 2+1* | 1NSP | - | 10C+2OB | - | 1+2* | 2 | 1* | 1* | - | - | - | - | 1NSP | - |
| 12 | Chemistry | 1+3* | 1+2* | - | - | 10C+1OB | - | 2* | 1+1* | 1+1* | 1* | - | - | - | - | - | - |
| 13 | Mathematical & Computational Sciences | 2* | 1+3* | - | - | - | 20C | 1* | 1* | - | 1+2* | - | - | 1* | - | - | - |
| 14 | Humanities, Social Science & Management | 3 | 2+3* | - | - | - | - | 2 | 2+2* | 1 | 1* | - | - | - | - | - | - |
| | Total | 55+36* | 15+19* | 3+4** | 1+1** | 11 | 4 | 35+18* | 12+1+1* | 10+1+0* | 2+7* | 7+5* | 1 | 3+3* | 1*- | 3+4** | 1+1** |

*Admissions made during December Session 2014

** Admissions under "Visvesvaraya Ph.D. Schme" during Decembe 2014

SP= Sponsored. NSP = Non Sponsored – Non fellowship. QIP = Admitted Under AICTE QIP Schme

Student's Total Strength

| <u>Programme</u> | <u>Strength</u> |
|--|------------------------|
| 1. Undergraduate | 3256 |
| 2. Post Graduate (Including MCA/M.Tech./M.Tech – by research MBA/M.Sc.) | 1517 |
| 3. Ph.D. Programme | 514 |
| | ----- |
| Total | 5287 |
| | ===== |

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 2013-2014

B.Tech. Examination Details

| Sl.No. | Branch | Total No. Appeared | No. of students passed in | | | | Total Pass | Percentage of passes | No. of SC/ST candidates passed |
|--------|---|--------------------|---------------------------|------------------------|------------------------|--------------|------------|----------------------|--------------------------------|
| | | | CGPA above 7 & below 10 | CGPA above 6 & below 7 | CGPA above 5 & below 6 | CGPA below 5 | | | |
| 1. | Civil Engineering | 97+3* | 70 | 14 | 9+3* | | 96 | 96.00 | 19+1* |
| 2. | Mechanical Engineering | 148+5* | 97 | 27 | 13+2* | 1+3* | 143 | 93.46 | 22+3* |
| 3. | Electrical And Electronics Engineering | 112+3* | 75 | 23 | 12+2* | 2+1* | 115 | 100.00 | 19+2* |
| 4. | Electronics And Communication Engineering | 105+10* | 75 | 20 | 7+2* | 8* | 112 | 97.39 | 15+4* |
| 5. | Chemical Engineering | 48+1* | 29 | 8 | 7+1* | | 45 | 91.84 | 6+1* |
| 6. | Metallurgical And Materials Engineering | 43+1* | 27 | 8+1* | 6 | | 42 | 95.45 | 9 |
| 7. | Mining Engineering | 34+1* | 23 | 9+1* | | | 33 | 94.29 | 10+1* |
| 8. | Computer Engineering | 105+4* | 68 | 22+1* | 10 | 1+3* | 105 | 96.33 | 18+2* |
| 9. | Information Technology | 101+2* | 57 | 24 | 16+1* | 2+1* | 101 | 98.06 | 17+2* |
| | | | | | | | 792 | | |
| | *- Repeaters | | | | | | | | |

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

| Sl.No. | Branch | Total No. Appeared | No. of students passed in | | | Total Pass | Percentage of passes | No. of SC/ST candidates passed |
|--------|---|--------------------|---------------------------|------------------------|---------------------------|------------|----------------------|--------------------------------|
| | | | CGPA above 7 & below 10 | CGPA above 6 & below 7 | CGPA above 5.50 & below 6 | | | |
| 1. | Construction Technology & Management | 24 | 24 | | | 24 | 100.00 | 5 |
| 2. | Structural Engineering | 25 | 21 | 4 | | 25 | 100.00 | 6 |
| 3. | Geotechnical Engineering | 12 | 11 | 1 | | 12 | 100.00 | 2 |
| 4. | Environmental Engineering | 21 | 16 | 3 | 1 | 20 | 95.24 | 6 |
| 5. | Transportation Systems Engineering | 21 | 19 | 2 | | 21 | 100.00 | 4 |
| 6. | Marine Structures | 19 | 17 | 2 | | 19 | 100.00 | 4 |
| 7. | Remote Sensing & Geographic Information System | 13 | 12 | | | 12 | 92.31 | 2 |
| 8. | Water Resources Engineering & Management | 13+1* | 11 | 2 | 1* | 14 | 100.00 | 2 |
| 9. | Manufacturing Engineering | 14 | 13 | | 1 | 14 | 100.00 | 3 |
| 10. | Mechatronics Engineering | 24+3* | 18+1* | 5+2* | 1 | 27 | 100.00 | 5 |
| 11. | Thermal Engineering | 11 | 10 | 1 | | 11 | 100.00 | 3 |
| 12. | Power & Energy Systems | 22 | 12 | 7 | 3 | 22 | 100.00 | 6 |
| 13. | VLSI Design | 27+1* | 18 | 6 | 3+1* | 28 | 100.00 | 6 |
| 14. | Communication Engineering | 27+1* | 19+1* | 6 | 1 | 27 | 96.43 | 6 |
| 15. | Chemical Plant Design | 8+1* | 5 | 1 | 1+1* | 8 | 88.89 | 2 |
| 16. | Industrial Biotechnology | 23 | 14 | 7 | 2 | 23 | 100.00 | 3 |
| 17. | Industrial Pollution Control | 22 | 11 | 6 | 3 | 20 | 90.91 | 3 |
| 18. | Process Metallurgy | 12 | 9 | 3 | | 12 | 100.00 | 2 |
| 19. | Materials Engineering | 23+1* | 16 | 7 | 1* | 24 | 100.00 | 4 |
| 20. | Nanotechnology | 11 | 9 | 1 | | 10 | 90.91 | 2 |
| 21. | Systems Analysis & Computer Applications | 23 | 22 | 1 | | 23 | 100.00 | 4 |
| 22. | Computer Science and Engineering | 27 | 23 | 3 | 1 | 27 | 100.00 | 6 |
| 23. | Computer Science and Engineering - Information Security | 27+1* | 19 | 8+1* | | 28 | 100.00 | 6 |
| 24. | Information Technology | 25 | 19 | 4 | 2 | 25 | 100.00 | 6 |
| 25. | Master of Computer Applications | 89 | 69 | 18 | 2 | 89 | 100.00 | 19 |
| 26. | Master of Business Administration | 43 | 36 | 7 | | 43 | 100.00 | 10 |
| 27. | Master of Science (Chemistry) | 19 | 8 | 9 | 1 | 18 | 94.74 | |
| 28. | Master of Science (Physics) | 23 | 15 | 4 | 3 | 22 | 95.65 | 5 |

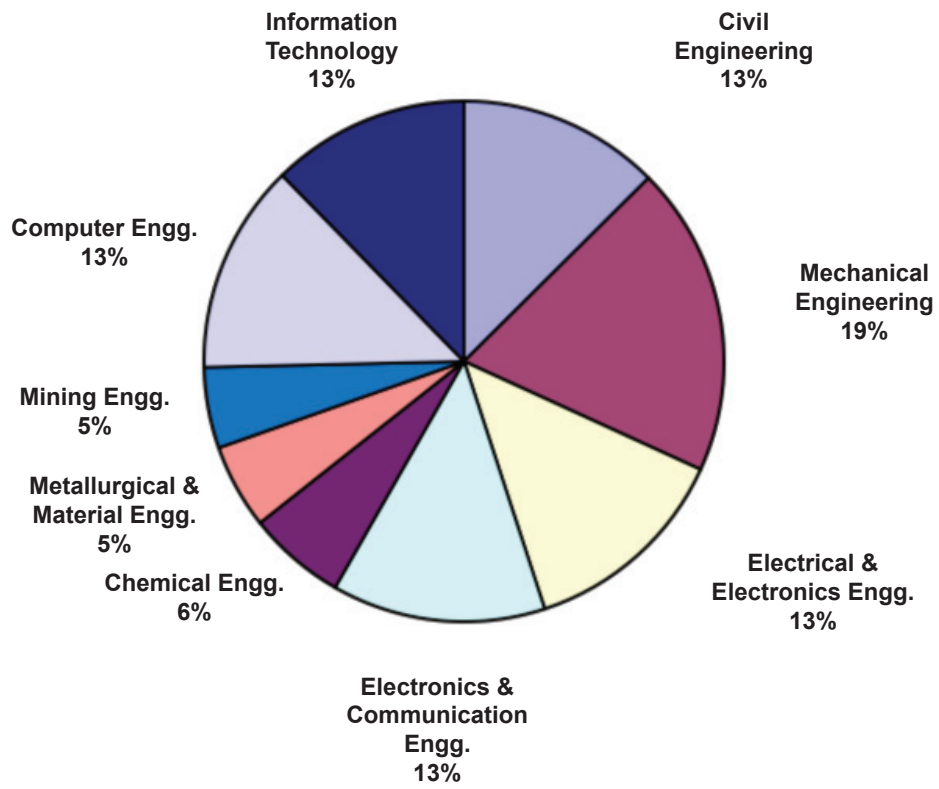
*- Repeaters

Ranks secured by the B.Tech. Examination held in April/May, 2014

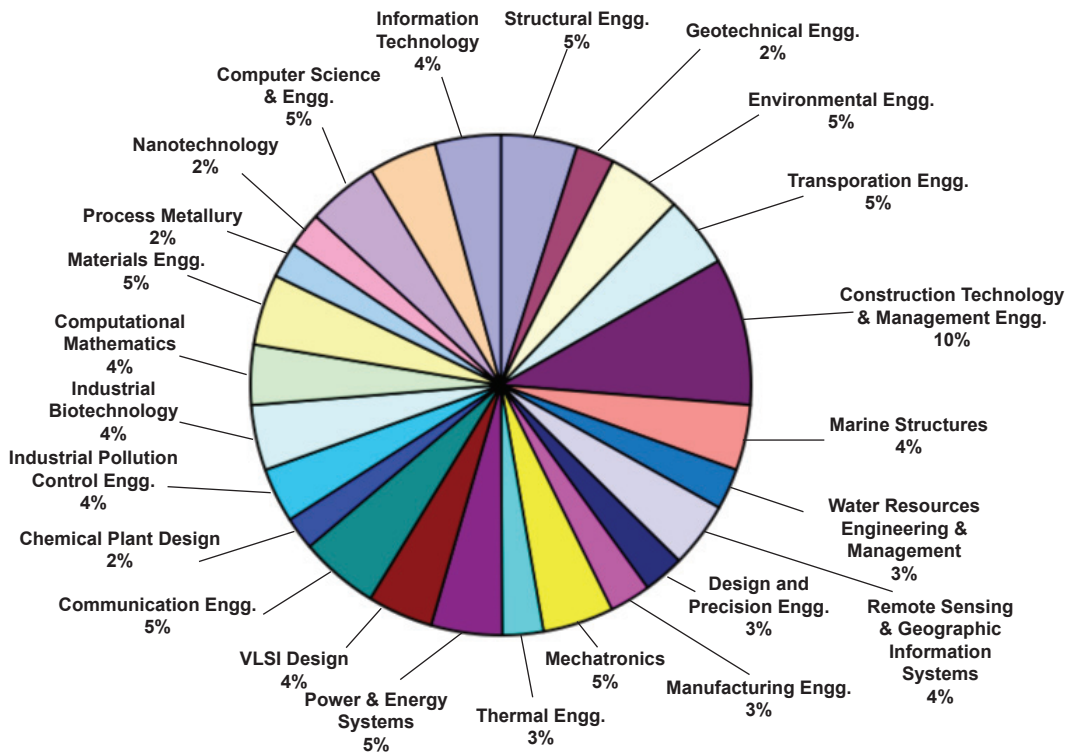
| Sl.No. | Name of the Branch | Name of the Rank Holder |
|---------------|---|--------------------------------|
| 1 | Chemical Engineering | Pavan N |
| 2 | Civil Engineering | Arjun Narayanan |
| 3 | Computer Engineering | Chetan Dugar |
| 4 | Electronics & Communication Engineering | Akshay B Pattabi |
| 5 | Electrical & Electronics Engineering | Abhishek Raghu Malali |
| 6 | Information Technology | Anirudha R C |
| 7 | Mechanical Engineering | Karthik N S |
| 8 | Metallurgical & Materials Engineering | U Pranav Nayak |
| 9 | Mining Engineering | Chiranth M Hegde |

Ranks secured by the M.Tech. students of the Institute in the Examination held in April-May, 2014

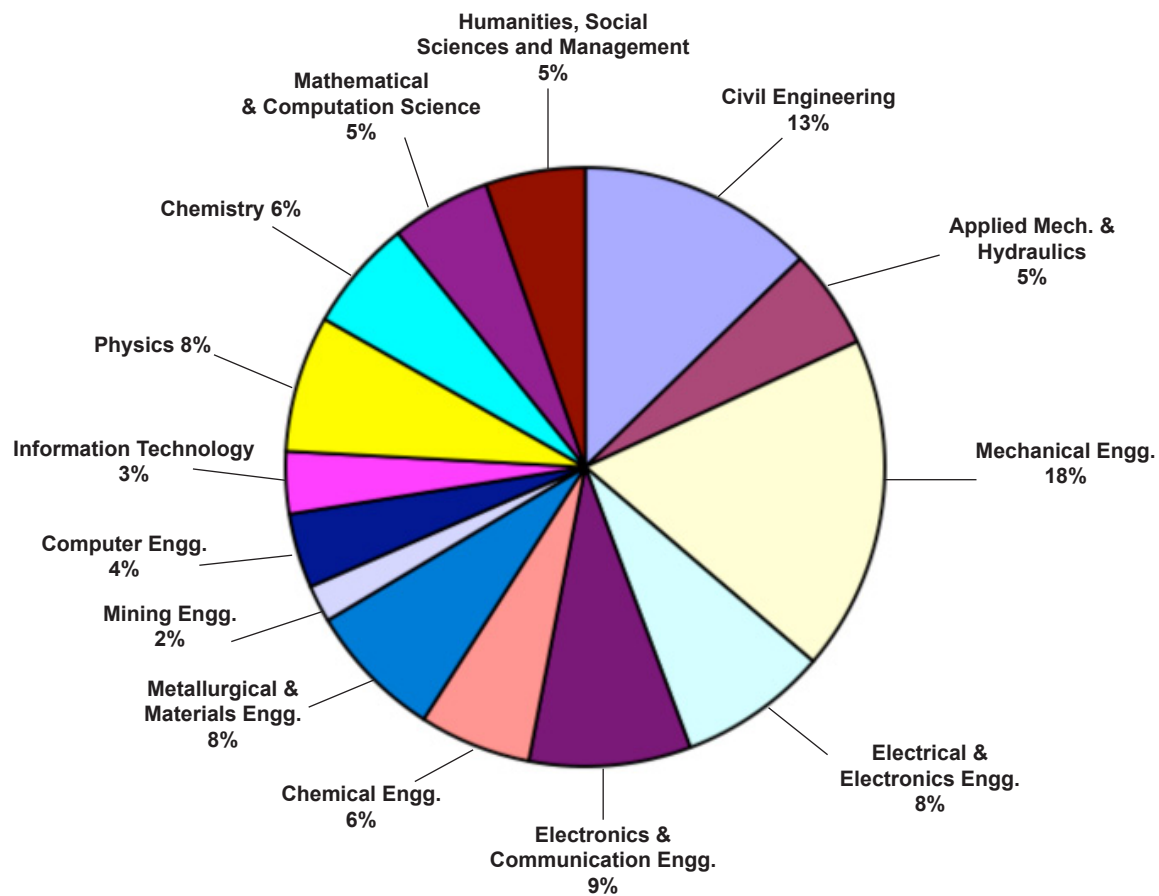
| Sl. No. | Branch | Name Of The Student |
|----------------|--|----------------------------|
| 1 | Marine Structures | Parvathi S |
| 2 | Remote Sensing & Geographic Information System | Irshan Verma |
| 3 | Water Resources Engineering & Management | Priya Philip |
| 4 | Chemical Plant Design | Sruthy C |
| 5 | Industrial Biotechnology | Anisha Kurup |
| 6 | Industrial Pollution Control | C Maheswari |
| 7 | Construction Technology & Management | Khadeeja Henna P |
| 8 | Environmental Engineering | Sudeeptha G |
| 9 | Geotechnical Engineering | Reeba Mary Varghese |
| 10 | Structural Engineering | Sunil D V |
| 11 | Transportation Engineering | Sharon Jacob |



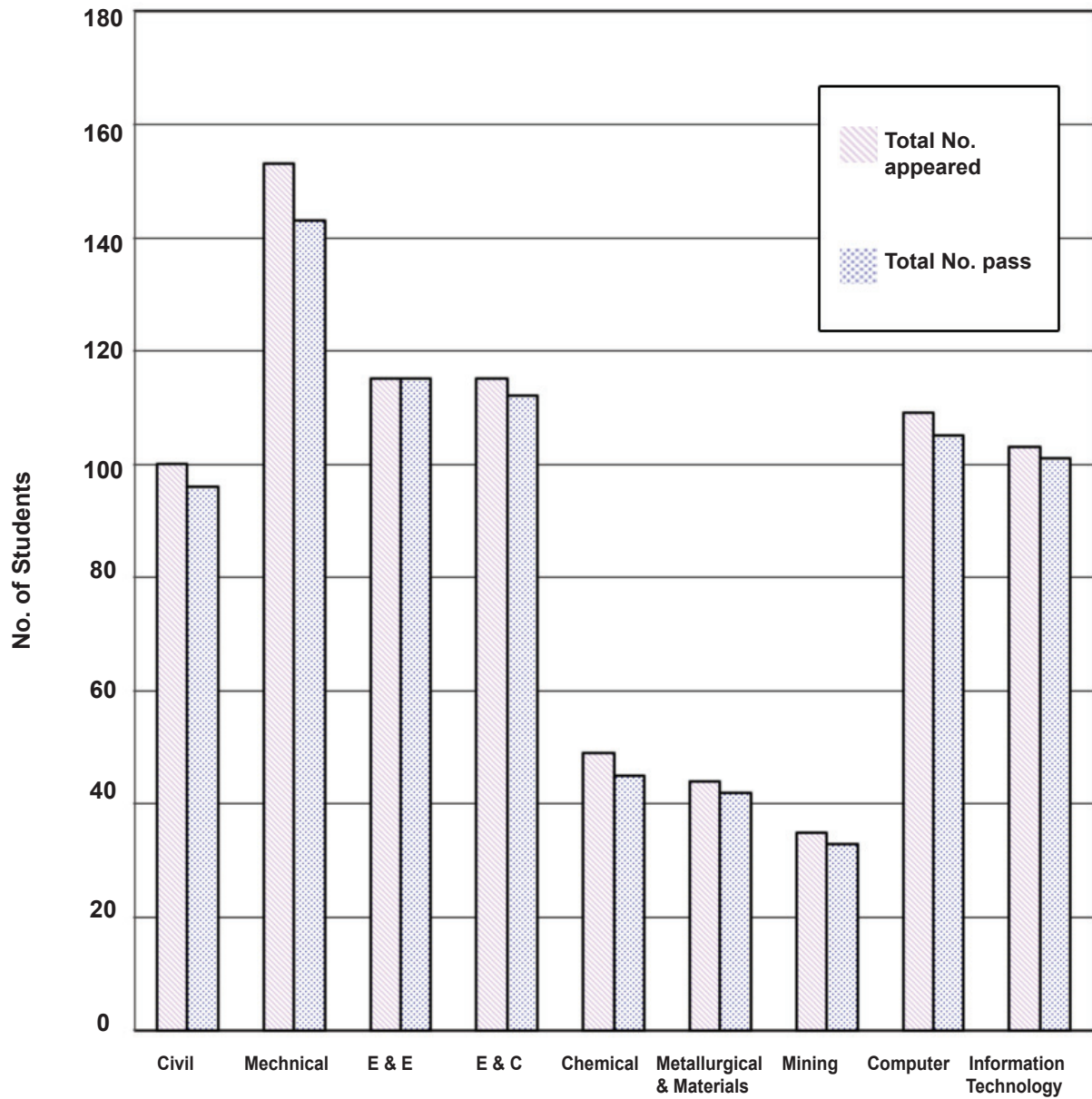
Pie - chart showing discipline wise B.Tech. admissions 2014-15



Pie - chart showing discipline wise M.Tech. admissions 2014-15

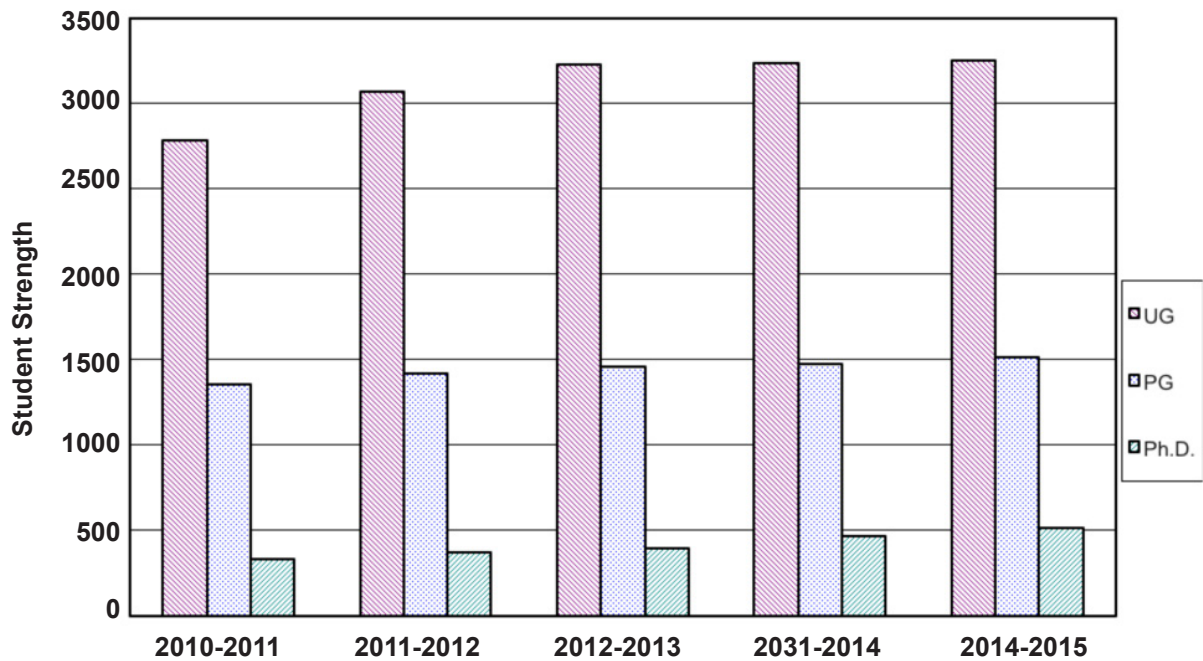
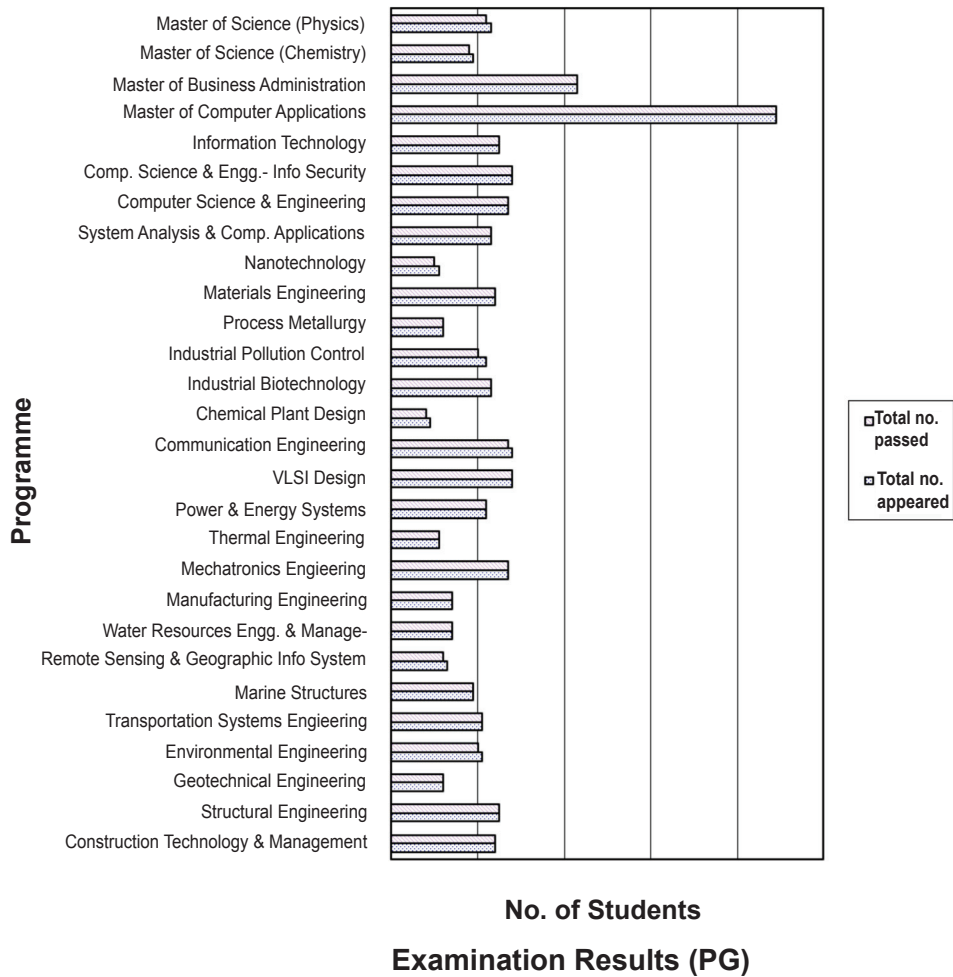


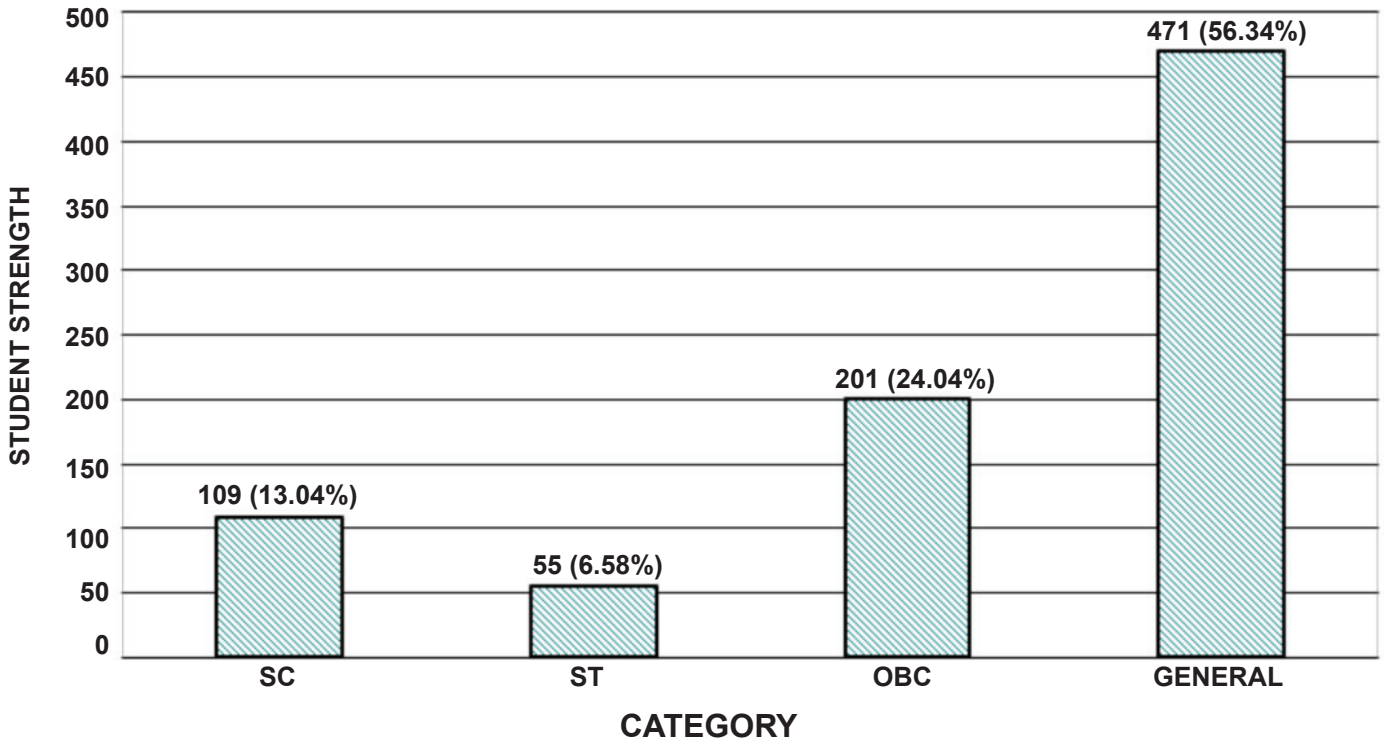
Pie - chart showing discipline with Ph.D. admissions 2014-15



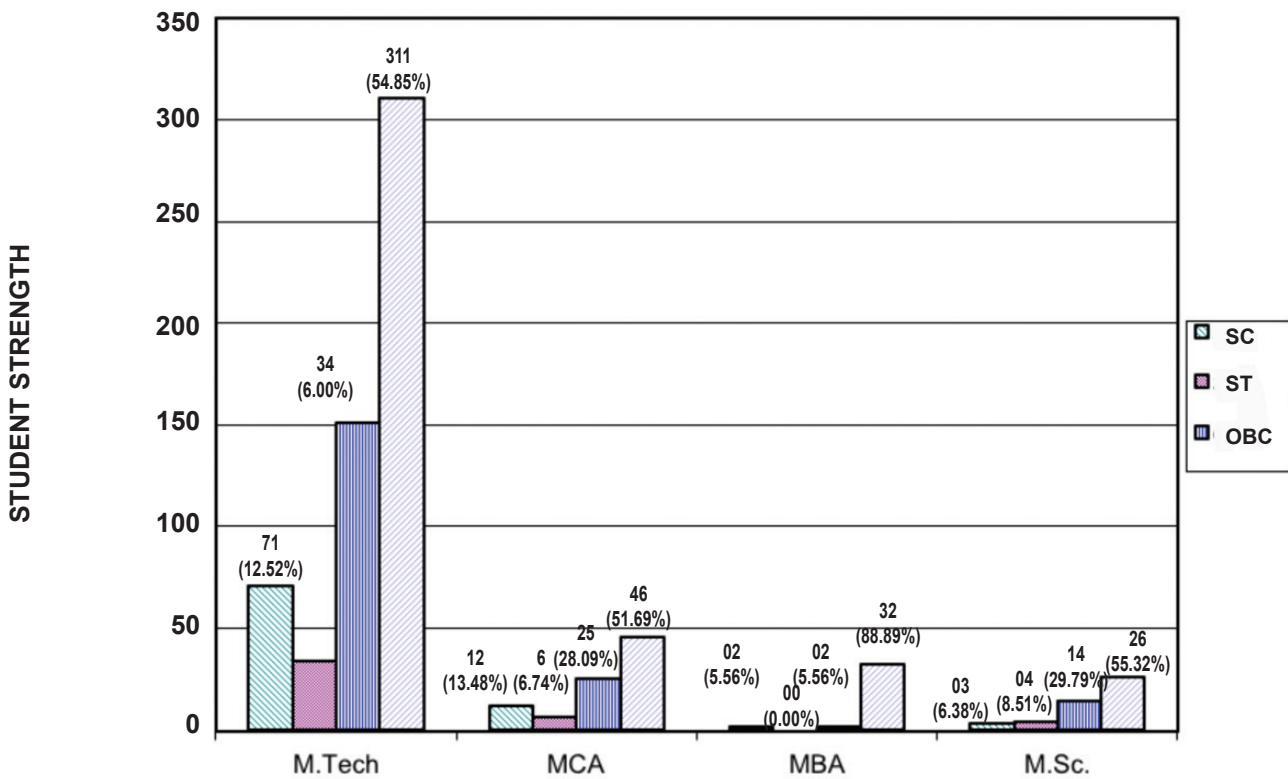
Programme

Examin Results (UG)





Categorywise details of UG Admissions 2014-15



Categorywise details of PG Admissions 2014-15

| | | |
|----|---|----------------------------------|
| 12 | Computer Science & Engineering | Murali K |
| 13 | Computer Science & Engineering – Information Security | Sarath Chandra Prasad Gingupalli |
| 14 | Power & Energy Systems | <u>Ritty Raju</u> |
| 15 | Communication Engineering | Pradip Kumar Barik |
| 16 | VLSI Design | Shetty Dheeraj Muddhu |
| 17 | Information Technology | Ravi Mittal |
| 18 | Systems Analysis & Computer Applications | Rajarshi Bhowmik |
| 19 | Manufacturing Engineering. | Deore Kunal Mohan Geo Davis |
| 20 | Mechatronics Engineering | <u>Sivaranjani J</u> |
| 21 | Thermal Engineering | Chetan Kumar B V |
| 22 | Materials Engineering | Nair Krishnadev Radhakrishnan |
| 23 | Nanotechnology | Moab Rajan Philip |
| 24 | Process Metallurgy | <u>Swati Agarwala</u> |

Ranks secured by the MCA/MBA/M.Sc.(Chemistry) students of the Institute in the Examination held in April/May, 2014

| Sl. No. | Branch | Name Of The Student |
|----------------|-----------------------------------|------------------------------|
| 1 | Master of Computer Applications | Koustubh Sarkar |
| 2 | Master of Business Administration | <u>Sayelee Gupta</u> |
| 3 | M.Sc. Chemistry | <u>Pearl Zynia Fernandes</u> |
| 4 | M.Sc. Physics | <u>Amrutha S V</u> |

9 Ph.D PROGRAMMES & DOCTORATES AWARDED

Ph.D. PROGRAMMES – EXISTING & PROPOSED

Department of Applied Mechanics And Hydraulics

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

Department of Chemical Engineering

| | Specialisation |
|----------|--|
| Existing | Process Development, Particulate system, Biotechnology, Environmental Engg., Transfer Operation, Industrial Biotechnology, Energy, Electrochemical Applications, Process Modeling & Simulation |

Department of Civil Engineering

| | Specialization |
|----------|--|
| Existing | Construction Technology and Management Environmental Engineering Geology and Earth Sciences Geotechnical Engineering Structural Engineering Transportation Engineering Engineering Geology and Groundwater |

Department of Computer Engineering

| | Specialization |
|-----------------|--|
| Existing | Computer Networks, Software Engineering, Distributed Computing, Data Mining, Information Security, High Performance Computing, Computer Vision, Cloud Computing, Image Processing, Speech Processing, Mobile computing |
| Proposed | Big data analytics, Bio informatics |

Department of Chemistry

| | Specialization |
|----------|--|
| Existing | Organic Chemistry 1) Synthetic organic chemistry 2) Conducting polymers 3) Medicinal chemistry 4) Liquid crystal 5) Organic solar cells - Dye Sensitized Solar Cells Single crystal growth and crystallographic studies, Homogenous and heterogeneous catalysis, Carbon based materials for energy storage and sensor applications, Membrane technology, Medicinal Chemistry, Nanomaterials |
| Proposed | 1) Tandem solar cells 2) OLED materials 3) New heterogeneous catalysts for trans-esterification |

Department of Electronics And Communication Engineering

| | Specialization |
|----------|---|
| 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

| | Specialization |
|----------|--|
| Existing | Power Systems, Distributed Generation, Energy systems, Power Electronics and Drives, Renewable energy, High Voltage Engineering, Flexible AC transmission system(FACTs), Control Systems, power system protection, Smart grid & Sensor Networks. |

Department of Humanities, Social Sciences and Management

| | Specialization |
|----------|----------------|
| Existing | 3 |

| | |
|----------|---|
| Proposed | 7 |
|----------|---|

Department of Information Technology

| | Specialization |
|----------|---|
| Existing | Affective Computing, Big Data Analysis, Bio-Inspired Computing, Cloud Computing, Cloud Security, Cyber Security, Computer Networks, Databases, Data Mining, Distributed Computing, Health Care Informatics, High Performance, Internet of Things, Information Security, Multimedia Computing, Network Security, Social Network Analysis, Web Services, Wireless Sensor Networks |

Department of Mathematical And Computational Sciences

| | Specialization |
|----------|--|
| Existing | Computational Fluid Dynamics, Optimization, Graph Theory, Reliability Engineering, Stochastic Process, Number Theory, Computational Science, Cryptography, Finite Fields, Functional Analysis, Real Analysis, Differential Equations, Numerical Analysis |

Department of Mechanical Engineering

| | Specialization |
|----------|---|
| 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, Precision Manufacturing, Robotics and Control |
| Proposed | Atomization, Aero-elasticity |

Department of Mining Engineering

| | Specialization |
|----------|--|
| Existing | Rock Mechanics and Ground Control, Drilling and Blasting, Mine Planning Environmental Management |
| Proposed | M.Sc / M.Sc. (Tech) qualifications |

Department of Metallurgical And Materials Engineering

| | Specialization |
|----------|---|
| Existing | Process Metallurgy, Physical Metallurgy, Mechanical Metallurgy, |

| | |
|--|---------------------------------------|
| | Materials Engineering, Nanotechnology |
|--|---------------------------------------|

Department of Physics

| | |
|----------|--|
| | Specialization |
| Existing | Solid State Physics, Materials Science, Theoretical Physics, Electromagnetics, Photonics |

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

| | |
|---|--------------------|
| | No. Awarded |
| Upto 31 st March 2013 | 48 |
| During period 1 st April 2013 to 31 st March 2014 | 08 |

| Name of the candidate | Title of the thesis | Year of Award | Guide (s) |
|------------------------------|--|----------------------|---|
| Shwetha P | Characterization of Soil Hydraulic Properties in the Pavanje River Basin Karnataka, India | 2014 | K.Varija, Ph.D |
| Sachin Dadu | Hybrid Wavelet Transform – Neural Network Approach for Short Term and Long Term Time Series Flow Forecasting | 2014 | Paresh Chandra Deka, , Ph.D |
| Harish.N | Damage Level Prediction Of Non-Reshaped BERM Breakwater Using Soft Computing Techniques | 2014 | Subba Rao, , Ph.D Sukomal Mandal (NIO GOA), , Ph.D |
| Prashanth.J | Parametric Studies On Stability Of Reshaped BERM Breakwater With Concrete Cubes As Armor Unit | 2014 | Subba Rao, , Ph.D Kiran .G. Shirlal, , Ph.D |
| Raju.A | Development of CONTRAST ENHANCEMENT ALGORITHMS for Costal Applications using satellite images | 2014 | G. S. Dwarakish, , Ph.D D. Venkat Reddy, , Ph.D |
| Binny Gopal | Measurement and Prediction of Top Soil Chemical Properties using HYPERSPECTRAL Data | 2014 | Amba Shetty, , Ph.D |
| Pruthviraj U. | Numerical Simulation of 2D Flow Field For Perforated Plates In Free Stream And Fences | 2015 | M.K.Nagaraj, , Ph.D & Subas C. Yaragal, , Ph.D |
| Keerthi Lakshmi | Evaluation of a satellite based evapotranspiration model in a humid tropical region | 2015 | Lakshman N. , Ph.D |

Department of Chemical Engineering

| | No. awarded (including those for which viva has been successfully completed) |
|---|---|
| Upto 31 st March 2014 | 20 |
| During period 1 st April 2013 to 31 st March 2015 | 07 |

Ph.D. Degree awarded during period 1st April 2014 to 31st March 2015 :-

| Name of Candidate | Title of Thesis | Year of Award | Guide(s) |
|-----------------------------|--|----------------------|---|
| Ms.Pavithra Kumari | Studies In The Adhesion Of Candida To Buccal Epithelial Cells | June 2014 | Gopal Mugeraya, Ph.D & G. Srinikethan, Ph.D |
| Mr.Ayare Atul Balwant | Source Apportionment And Chemical Characterization Of Suspended Particulate Matter At Kolhapur City | July, 2014 | G. Srinikethan, Ph.D |
| Ms. Ankita Khanna | Photocatalytic degradation of Azo dyes using Ag@TiO ₂ Core-Shell Structured Nanoparticles | September 2014. | Vidya Shetty K., Ph.D |
| Mrs. Dilna Damodaran | Mycoremediation Of Heavy Metal Contaminated Soil Using Mushrooms - | October, .2014. | B. Raj Mohan, , Ph.D & Vidya Shetty K., Ph.D |
| Mrs. Rajeshwari M. KulkarnI | Biosorption Of Nickel(Ii) And Cadmium(Ii) On Bacterial And Yeast Biomass | February, 2015 | G. Srinikethan, Ph.D & Vidya Shetty K., Ph.D |
| Mr. Gop Kumar | Studies On Microbial Biotrans-formations For The Synthesis Of Stereo selective New Pharmaceutical Drug Precursors And Their Pharmacological Evaluation | February, 2015. | Gopal Mugeraya, , Ph.D |
| Ms. Sogra Fathima B. | Studies on Isolated Endophytic Fungi from Nothapodytes Foetida for Production of Camptothecin and other Products of Certain Biotechnological Interest | February, 2015 | Raj Mohan B., , Ph.D |

Department of Civil Engineering

| | No. awarded (including those for which viva has been successfully completed) |
|---|---|
| Up to 31 st March 2014 | 42 |
| During period 1 st April 2014 to 31 st March 2015 | 08 |

| Name of Candidate | Title of Thesis | Year of Award | Guide(s) |
|--------------------------|---|----------------------------------|--|
| Mr. Jayamohan Jayaraj, | Behaviour of Prestressed Reinforced Granular Bed overlying Soft soil | (Thesis Defended July 2014) 2014 | R. Shivashankar, , Ph.D |
| Mrs. Jisha, S. V. | Structural Response Variation in Tall RC Chimneys incor- porating Flexibility of Soil | (Thesis Defended Dec.2014) 2015 | B. R. Jayalekshmi, Ph.D & R. Shivashankar, Ph.D |
| Vinayak Patki | Water Quality Assessment in Distribution Systems using Artificial Intelligence | 12.09.2014 | S.Shrihari, , Ph.D & B Manu, , Ph.D |
| Poornachandra Pandit | Effect of corrosion on the flexural behavior of reinforced concrete beams | 2014 | K.Venkataramana, ,Ph.D |
| Akshatha Shetty | Effect of reinforcement corrosion on the bond strength of RC members | 2014 | Katta Venkataramana, , Ph.D & K S Babu Narayan. , Ph.D |
| A.Raju | Remote Sensing, Satellite Digital Image Processing and GIS) | 2014 | Dearakish, , Ph.D and Venkat Reddy.D, Ph.D |
| Honnanagoudar, S.S | Studies On Aquifer Characterization And Sea Water Intrusion Vulnerability Assessment Of Coastal Dakshina Kannada District,Karnataka | 2015 | D.Venkat Reddy, ,Ph.D &A.Mahesha, , Ph.D |
| Manjunatha L.S. | Use of Stabilized Iron Ore Tailings For Bulk Fill Construction and Replacement For Fine Aggregates in Concrete | Thesis defended on 23.02.2015 | Sunil B.M., Ph.D |
| Naveenkmar D T | Stress, Free Vibration and Buckling Analyses of FGM Plates - Analytical solutions Using Higher - Order Refined Theories | Thesis defended on 16.03.2015 | K swaminathan, Ph.D. |

Department of Computer Engineering

| | No. awarded (including those for which viva has been successfully completed) |
|--|---|
| Up to 31st March 2014 | 15 |
| During period 1st April 2014 to 31st March 2015 | 02 |

| Name of Candidate | Title of Thesis | Year of Award | Guide(s) |
|--------------------------|--|-------------------------------|---------------------------|
| Ganesh Reddy Karri | A Multi-Layer Security Framework For Hybrid Wireless Mesh Networks | 18 th July 2014 | P. Santhi Tilagam, , Ph.D |
| Panduranga Rao M.V | Study of Scheduler for real time & embedded System domain | 17 th January 2015 | K. C. Shet, , Ph.D |

Department of Chemistry

| | No. awarded |
|---|--------------------|
| Upto 31st March 2014 | 32 |
| During period 1 st April 2014 to 31 st March 2015 | 10 |

| Name of Candidate | Title of Thesis | Year of Award | Guide(s) |
|--------------------------|---|----------------------|----------------------------|
| Pradeep Kumar | Studies on corrosion inhibition of 18% Ni M 250 grade maraging steel under welded condition in acidic media | 2014 | A. Nityananda Shetty, Ph.D |
| Nandini K | Study on corrosion behavior and corrosion inhibition of magnesium alloy ZE41 | 2014 | A. Nityananda Shetty, Ph.D |
| Ahipa T N | Synthesis, characterization and mesomorphic properties of new pyridine derivatives | 2014 | A. VasudevaAdhikari, Ph.D |
| Sandhyarani | Transition metal complexes as catalysts for organic synthesis. | 2014 | B.Ramachandra Bhat, Ph.D |
| Aparna PI | Transition metal complexes as catalysts for the C-C cross coupling reactions. | 2014 | B.Ramachandra Bhat, Ph.D |
| Aravindra LS | Carbon nano materials for | | B.RamachandraBhat, |

| | | | |
|--------------------------------|--|------|---------------------------|
| | Supercapacitor | | Ph.D and Udaya Bhat, Ph.D |
| Vijayaganapathi Ramesh Karanth | Molecular interactions of cyclic alanylalanine and Glycine Betaine in Aqueous Metal Chloride Solutions | 2014 | D. Krishna Bhat, Ph.D |
| H S SreekanthaJois | Physico-chemical properties of some polymer blends | 2014 | D. Krishna Bhat, Ph.D |
| Ganesh BM | Preparation and characterization of polysulfone based polymeric membranes for desalination and heavy metal removal | 2014 | Arun M. Isloor, Ph.D |
| Madhuprasad | New synthetic receptors for molecular recognition of anions and their practical applications | 2014 | Darshak R. Trivedi, Ph.D |

Department of Electrical And Electronics Engineering

| | |
|---|---|
| | No. awarded (including those for which viva has been successfully completed) |
| Up to 31 st March 2014 | 11 |
| During period 1 st April 2014 to 31 st March 2015 | 05 |

| Name of Candidate | Title of Thesis | Year of Award | Guide(s) |
|--------------------------|--|----------------------|----------------------|
| Shashidhara Mecha Kotian | Performance of Synchronous Machine Models in Series-Compensated Power Systems, and Design of Subsynchronous Damping Controllers Employing Dynamic Phasor-Based Models of SVC and TCSC. | 2015 | K.N. Shubhanga, Ph.D |
| K Chandrasekaran | A New Approach of Tuning Channel-Base-Current-Function, and Severity of Lightning-Return-Strokes: A Study | 2015 | G. S. Puneekar, Ph.D |
| S. B. Karajgi | PV & MSW as Distributed Generation Resources: Modeling, Analysis and Benefit Quantification | 2014 | Udaykumar R. Y, Ph.D |
| Mritunjaya Kappali | Solar Photo Voltaic Water Pumping System | 2014 | Udaykumar R.Y., Ph.D |
| Anant Jaivant Naik | Integration of Grid Connected Photovoltaic System with Active Power Filtering Functionality | 2014 | Udaykumar R. Y, Ph.D |

Department of Electronics And Communication Engineering

| Name of Candidate | Title of Thesis | Year of Award | Guide(s) |
|--------------------------|---|----------------------|---|
| Rajendra Acharya U | 'Analysis & Handling of HRV Data' Area: Bio-medical Signal Processing | December 2001 | P. Subbanna Bhat, Ph.D |
| Sathish Kumar | Performance enhancement of Optical CDMA Networks and Hybrid Multiplexed Optical Communication Systems | August, 2004 | K. N. Hari Bhat, Ph.D, G Umesh, Ph.D. |
| Jagadish Nayak | Automated detection of eye abnormalities and patient data handling | February 2009. | M S Bhat, Ph.D., P Subbanna Bhat, Ph.D. |
| Ganesh | Algebraic structure based on mixed radix system and Chinese remainder theorem for the generation of key sequences and their application in stream cipher system | February 2011 | K N Hari Bhat, Ph.D., Sripati U, Ph.D. |
| Om Prakash Verma | Image Processing using soft computing and evolutionary algorithms | 2011 | Muralidhar Kulkarni, Ph.D. |
| Aparna P | A development of an efficient video coding based on distributed source coding | March 2012 | Sumam David S, Ph.D. |
| Ramesh Kini M | Development of a dynamically reconfigurable processor core architecture for DSP Kernels' | September 2012 | Sumam David S, Ph.D. |
| Prashanth Kumar | Decoding algorithms for linear block codes adapting tree structure and their applicability to wireless communication and data storage systems | November 2012. | U Sripati, Ph.D. B Shankarananda, Ph.D |
| Rajesh Shetty | Design and construction of algebraic codes for enhancing information integrity in data storage systems' | May 2013 | U Sripati, Ph.D. |
| Sooryakrishna | Modeling, analysis and optimization of interconnects in deep submicron regime | August 2013 | M S Bhat, Ph.D. |

During period 1st April 2014 to 31st March 2015

| Name of Candidate | Title of Thesis | Year of Award | Guide(s) |
|--------------------------|--|----------------------|-------------------------------------|
| Savitha H M | Energy Efficient Error Control Techniques for OFDM Systems with their Applicability to Power Line and Wireless Communication Channels | April 2014 | M. Kulkarni, Ph.D |
| Lwaa Faisal Abdulameer | Analysis and Design of Reliable and Secure Chaotic Communication System for Optical and Wireless Linkers | August 2014 | U Sripati, Ph.D M Kulkarni, Ph.D |
| Vasantha M.H | Low Power Integrated Continuous-Time Transconductance-Capacitor Filters targeted to operate on 0.5v Supply Voltage | October 2014 | Laxminidhi T, Ph.D |
| Rekha S | Integrated Active-RC Continuous Time Filters for Low Voltage and Low Power Applications | November 2014 | T Laxminidhi, Ph.D |
| Geetha Prakash | Rateless Codes for Transmission over Free Space Optics using Stochastic Models based on Scintillation Theory and their Application to Optical Wireless Sensor Networks | December 2014 | M Kulkarni, Ph.D U Sripati, Ph.D |
| K S Shivaprakash | Energy Efficient Data Communication over Resource Constrained Wireless Sensor Networks | February 2015 | M Kulkarni, Ph.D |
| Bini A A | Image restoration and enhancement using partial differential equations | February 2015 | M S Bhat, Ph.D |

Department of Humanities, Social Sciences and Management

| | No. awarded (including those for which viva has been successfully completed) |
|---|---|
| Up to 31 st March 2014 | 13 |
| During period 1 st April 2014 to 31 st March 2015 | 3 |

| Name of Candidate | Title of Thesis | Year of Award | Guide(s) |
|--------------------------|--|---------------------------|-------------------|
| C. Somashekar | Resource - Based View and Sustainable Competitive Advantage: An Investigation Among the Cellular Mobile Operators. | Awarded on 28th May, 2014 | K.B. Kiran, Ph.D |
| Sukanya Shetty | Factors Affecting Investment Decision | Awarded on | K.B. Kiran, Ph.D. |

| | | | |
|-----------|---|-------------------------------|-------------------|
| | Making of Urban Individual Investors in India | 10th October, 2014 | |
| Rajesh M. | An Assessment of Factors Affecting the Performance of Micro Finance Institutions. | Awarded on 2nd February, 2015 | K.B. Kiran, Ph.D. |

Department of Information Technology

| | No. awarded (including those for which viva has been successfully completed) |
|---|---|
| Up to 31 st March 2014 | 7 |
| During period 1 st April 2014 to 31 st March 2015 | 3 |

| Name of Candidate | Title of Thesis | Year of Award | Guide(s) |
|--------------------------|--|----------------------|---|
| Roopalakshmi | Content Based Video Copy Detection, Tracking and Identification of Movie Pirates | April 2014 | G. Ram Mohana Reddy, , Ph.D |
| Bayyapu Neelima | Communication and Computation Optimization of Concurrent Kernels and Sparse Matrix Vector Multiplication on Graphics Processing Unit | February 2015 | G. Ram Mohana Reddy, Ph.D., Prakash S Raghavendra, K.B., Ph.D |
| Alwyn Roshan Pais | Generation of Super-Resolution Video Object Planes | February 2015 | G. Ram Mohana Reddy, Ph.D John D'Souza, Ph.D Subhasis Chaudhuri, Ph.D |

Department of Mathematical And Computational Sciences

| | No. awarded (including those for which viva has been successfully completed) |
|---|---|
| Up to 31 st March 2014 | 28 |
| During period 1 st April 2014 to 31 st March 2015 | 4 |

| Name of Candidate | Title of Thesis | Year of Award | Guide(s) |
|--------------------------|-----------------------------------|----------------------|--------------------|
| K Karuna Kamath | Pseudorandom Numbers And Elliptic | 2014 | B.R. Shankar, Ph.D |

| | | | |
|-----------------|---|------|-----------------------|
| | Curves Over Finite Fields | | |
| Ganala Santoshi | Some Efficient Mobile Sensor Node Traversal Algorithms | 2015 | R. J. D'Souza, Ph.D |
| Prameela Kolake | New Aspects of Domination and Complementation in Graphs | 2015 | Shyam S. Kamath, Ph.D |
| Rekha G Pai | Entrance Region Flow of Time-Independent Non-Newtonian Fluids in Various Channels | 2015 | A Kandasamy, Ph.D |

Department of Mechanical Engineering

| | |
|---|---|
| | No. awarded (including those for which viva has been successfully completed) |
| Upto 31st March 2014 | 53 |
| During period 1st April 2014 to 31st March 2015 | 6 |

| Name of the candidate | Title of thesis | Year of award | Guide(s) |
|------------------------------------|---|----------------------|---|
| Manoj Kumar (ME10F11) | Effect of Biodiesel Blends on Selective catalytic reduction system to Reduce NOx Emissions in Diesel Vehicles | 2015 | P. Mohanan, Ph.D |
| Sonage Basgonda Kallappa (ME09P12) | Augmentation of forced convection heat transfer through tube by using nano-fluids. | 2015 | P. Mohanan, Ph.D |
| Madhusudhan | Some Studies on Process parameters in Centrifugal casting | 2014 | Narendranath, P. Mohanan, Ph.D and G.C. Mohan Kumar, P. Mohanan, Ph.D |
| Rajshekhar Lalbondre | Machinability Studies on Carbon and Alloy Steels using Face Turning | 2014 | Prasad Krishna, P. Mohanan, Ph.D and G.C. Mohan Kumar, P. Mohanan, Ph.D |
| Saravanabavan | Experimental investigation and analysis of Maize Natural fiber composites | 2014 | G.C. Mohan Kumar, P. Mohanan, Ph.D |
| N. Jegadeeswaran | Studies On The Role Of HVOF Coating To Combat Erosion And Hot Corrosion In Turbine Alloys | 2014 | Ramesh M R., P. Mohanan, Ph.D and Udaya Bhat, Ph.D. |

Department of Metallurgical and Materials Engineering

| | |
|---|---|
| | No. awarded (including those for which viva has been successfully completed) |
| Up to 31 st March 2014 | 25 |
| During period 1 st April 2014 to 31 st March 2015 | 10 |

| Name of Candidates | Title of Thesis | Year of Award | Guide (s) |
|---------------------------|---|----------------------|---|
| Rajath Hegde | Synthesis and characterization of mechanically alloyed nanostructured Al-Fe | 2014 | A. O. Surendranathan, Ph.D. |
| Sathyanarayan | Study on Wetting Behaviour, Microstructure evolution and Solder Joint reliability of Lead – Free Solders Alloys Solidified on Metallic Substrates | 2014 | K. Narayan Prabhu, Ph.D. |
| Raghavendra Hebbar | Development of Austempered Ductile Iron as a Grinding Media Material in the Ball Mill: Microstructural Aspects and Influence of Surface Coating | 2014 | K. L. Bhat, Ph.D. & K. Rajendra Udupa, Ph.D. |
| James Valder | Processing of Commercial Purity Titanium, Aluminium and Al-5Zn-1Mg Alloy by Equal Channel Angular Extrusion | 2014 | A. O. Surendranathan, Ph.D. |
| Rijesh M. | A Study on Stress Analysis of Containerless Backward Extrusion of Al-Zn-Mg Alloys | 2014 | A. O. Surendranathan, Ph.D. |
| N. Jegadeeswaran | Study on the role of HVOF coating to combat hot corrosion, oxidation and erosion in turbine components | 2014 | Udaya Bhat K., Ph.D. |
| Ramesh G. | Wetting kinetics, kinematics and Heat Transfer Characteristics of Liquid Quenchants for Heat Treatment – A Study | 2015 | Narayan Prabhu, Ph.D. |
| T. Senthil | Some Studies on Electrospinning of Poly(Styrene-co-acrylonitrile) | 2015 | Anandhan Srinivasan, Ph.D. |
| B. Shivamurthy | Structure-Property Relationship of Glass Fabric/Epoxy Composites Containing Some Micro and Nano Fillers | 2015 | Anandhan Srinivasan, Ph.D. & Udaya Bhat K., Ph.D. |
| Rajeev P. | Experimental investigation on corrosion mitigation of oil well steel using organic inhibitors | 2015 | A. O. Surendranathan, Ph.D. |

Department of Physics

| | No. awarded (including those for which viva has been successfully completed) |
|---|--|
| Up to 31 st March 2014 | 11 |
| During period 1 st April 2014 to 31 st March 2015 | 4 |

| Name of Candidate | Title of Thesis | Year of Award | Guide(s) |
|--------------------------|---|----------------------|--|
| Shelar Vikas M. | Studies on laser induced fluorescence in subsonic & supersonic jets using | 2014 | G. Umesh, Ph.D. G. Ramachandran, , Ph.D.Mysore |
| Sadananda Kumar N. | Study of Doping in Zinc oxide thin films grown by spray pyrolysis technique, | 2014 | Kasturi V. Bangera, Ph.D., G. K. Shivakumar, Ph.D. |
| G Venkateshwara Rao | Synthesis, Characterization and various properties of CaO-P ₂ O ₅ ; CaO-CaF ₂ -P ₂ O ₅ Glasses with Silver nanoparticles | 2015 | H. D. Shashikala, Ph.D. |
| Santhosh Kumar A | Preparation, Characterization and application of ZnO and TiO ₂ based nanostructures | 2015 | H.S. Nagaraja, Ph.D. |

10.0 HUMAN RESOURCES

10.1 STAFF POSITION

| a) Teaching Staff | Number |
|---------------------------------------|---------------|
| Professors | 69 |
| Associate Professors | 34 |
| Assistant Professors | 123 |
| Other staff, A.P.D. & System Manager} | 02 |
| contract Faculty | 02 |
| | ---- |
| | 230 |
| b) Non-Teaching Staff | |
| Administrative Officers | 14 |
| Technical supporting staff | 66 |
| Non-technical supporting staff | 112 |
| | ---- |
| | 192 |

THE STAFF

(A) Administration Staff (Teaching)

Director: (Head of the Institution)

Swapan Bhattacharya, Ph.D. from 1.8.2012

Dean (Academic)

(Mrs) Sumam David, Ph.D. till 30.9.2014

Katta Venkataramana, Ph.D. from 1.10.2014

Dean (Planning and Development)

M C Narasimhan, Ph.D. from 1.2.2014

Dean (Faculty Welfare)

A Kandasamy, Ph.D. from 18.1.2013

Dean (Alumni Affairs & Institutional Relations),

M B Saidutta, Ph.D. from 15.5.2013

Dean (Student's Welfare)

Uday Kumar R Y, Ph.D. from 8.10.2013

Dean (Research & Consultancy)

K Chandra Sekaran, Ph.D. from 1.9.2013

ACADEMIC STAFF (TEACHING)

**Department of Applied Mechanics And Hydraulics
Professors:**

S. Ganapathi Mayya, Ph.D. (I.I.Sc. Bangalore)retired 31.12.2014

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), HOD

G.S. Dwarakish, Ph.D. (Anna University)

Mahesh A, Ph.D. (IIT Bombay)

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)

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)

Associate Professor:

K. Vidya Shetty, Ph.D. (NITK) HOD from 1.9.2012

B. Raj Mohan., Ph.D. (I.I.T., Kharagpur)

Assistant Professors:

S. Gangamma, IIT, Bangalore

Jitendra Pal S., QIP at IIT Delhi

Prasanna B.D., M.E. (Ph.D. NITK)

Regupathi, Ph.D., (Anna University, Chennai)
P.E. Jagadeeshbabu, Ph.D. (Anna Univ. Chennai)
Noyel Victoria, Ph.D. (IIT Madras)
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)

Department of Civil Engineering

Professors:

R. Shivashankar, Ph.D. (A.I.T. Bangkok)
K.N. Lokesh, Ph.D. (Geology) (Gulbarga University) HOD from 3.9.2014
M.C. Narasimhan, Ph.D. (IIT Madras)
Katta Venkataramana, Dr.Eng. (Kyoto University, Japan), HOD till 2.9.2014
A.U. Ravi Shankar, Ph.D (Univ. of Roorkee)
D. Venkata Reddy, Ph.D. (Geology) (Osmania University)
K. Swaminathan. Ph.D. (I.I.T. Bombay)
Varghese George, Ph.D. (I.I.T. Bombay)
S. Shrihari, Ph.D. (Univ. of Roorkee)
Seetharama 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., M.Tech. (NITK) as QIP deputation at IISc
Basavaraj Manu, Ph.D. (IIT, Bombay)
Raviraj H. Mulangi, M.E. (RGPV-Bhopal), QIP, IISc
Suresha S N, Ph.D. (NITK)
Arun Kumar Thalla (IIT Rourkee)
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 Bhai, Ph.D. (IIT, Madras)

Department of Computer Engineering

Professors:

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

Associate Professor

K. Vinayakumar, Ph.D.
Shanthi Thilagam, Ph.D. (NITK)

Vani M., M.Tech. (NITK, Surathkal)
Annappa, Ph.D (NITK, Surathkal) HOD

Assistant Professor:

Alwyn Roshan Pais, Ph.D. (NITK)
Saumya A. Hegde, M.Tech. (NITK)
B.R. Chandavarkar, M.Tech. (VTU, Belgaum)
Mahendra Patap Singh, M.Tech. (Karunya University) – on QIP IIT, Kharagpur
Shashidhar G Koolagudi, Ph.D. (IIT Kharagpur)
Jeny Rajan, Ph.D. (University of Antwerpen, Belgium)

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.) HOD till 10.8.2014
B. Ramachandra Bhat, Ph.D. (Mangalore Univ.) HOD from 11.8.2014
Krishna Bhat, Ph.D. (Mangalore Univ.)

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)

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), HOD from 1.4.2014
John D'Souza, Ph.D. (I.I.T.Kharagpur)
U. Sripati, Ph.D., (I.I.Sc., Bangalore)

Associate Professors:

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

Assistant Professors:

Rekha S., M.Tech. (Mangalore University)
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) on QIP at IIT Kharagpur
Krishna Moorthy K., M.E. (Anna Univ., Chennai) on QIP IIT, Bombay
Deepu Vijayasanen, Ph.D. (EPFT, Swizerland)
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)

***Department of Electrical And Electronics Engineering
Professors:***

Udayakumar R.Y., Ph.D. (IIT Bombay)
K. Panduranga Vittal, Ph.D. (Mangalore Univ.)

Associate Professors:

Jora M. Gonda, M.E. (I.I.Sc. Bangalore) HOD
Shubhanga K.N., Ph.D. (IIT, Bombay)
K. Rajagopal, M.Tech. (I.I.T. Kharagpur)
Vinatha U., Ph.D. (NITK, Surathkal)
Gururaj S. Puneekar, Ph.D. (IIT, Kharagpur)
K. Manjunatha Sharma, Ph.D. (NITK)

Assistant Professor :

Iddya Raghavendra Rao M.Tech. (Mangalore Univ.)
Nagendrappa H., M.Tech. (N.I.T.K.), QIP Deputation
Dattatraya N. Goankar, Ph.D. (IIT, Roorkee)
Tukaram Moger, M.Tech. (IIT, Kanpur) on QIP 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)

Department of Humanities, Social Sciences & Management

Professor

A.H. Sequeira, Ph.D., (Mysore University) HOD from 2.9.2014
K.B.Kiran, Ph.D. (Mangalore Univ.)

Associate Professor:

Shashikantha K., Ph.D. (University of Hyderabad) HOD till 1.9.2014

Assistant Professor:

Bijuna C. Mohan, Ph.D. (NITK, Surathkal)
Rashmi Uchil, Ph.D. (NITK, Surathkal)
Sunil Cyprian Dsouza, Ph.D., (NITK)
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)

**Department of Information Technology
Professor**

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

Assistant Professor:

Dinesh Naik, M.Tech. (VTU, Belgaum)
Geetha V., M.Tech. (VTU, Belgaum)
Biju R. Mohan, M.Tech. (Pondichery University)
Sowmya Kamath S., M.Tech. (MIT, Manipal)
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.)
Robert John D'Souza, Ph.D. (I.I.T. Delhi) retired on 31.1.2015
A. Kandaswamy, Ph.D. (I.I.T. Bombay)
Suresh M. Hegde, Ph.D. (Delhi Univ.)
Santhosh George, Ph.D. (Goa University)
Murulidhar N.N., Ph.D. (I.I.T. Bombay) HOD

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)

**Department of Mechanical Engineering
Professors:**

K.K. Appu Kuttan, Ph.D (I.I.T. Madras) on deputation to MANIT, Bhopal as Director from 27.9.2011
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 till 21.1.2015
Satyabodh M Kulkarni, Ph.D. (I.I.Sc., Bangalore)
Gangadharan K.V., Ph.D. (I.I.T., Madras) HOD from 22.1.2015
Ravi Kiran Kadoli, Ph.D. (IIT, Madras)
Vijay Desai, M.E. (Ph.D. NITK)
Narendranath S., Ph.D. (IIT, Kharagpur)
Shrikantha, Ph.D. (NITK) from 11.3.2015

Associate professors

Y. Suresh Kumar, M.E. (Mysore Univ.)
Srikantha M., Ph.D. (NITK) till 10.3.2015
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. (QIP 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)

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)

Associate Professor:

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

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, 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.) HOD till 19.4.2014
Jagannatha Nayak, Ph.D. (NITK) HOD from 20.4.2014

Associate Professor:

P. Laxshminarayana Reddy, Ph.D. (I.I.T. Bombay) VRS from 15.7.2014
Udaya Bhat, Ph.D. (I.I.Sc., Bangalore)
Anandan Srinivasan, Ph.D. (I.I.T., Kharagpur)

Assistant Professor:

Shashi Bhushan Arya, Ph.D. (IIT, Bombay)
Ravishankar K.S., Ph.D. (NITK)
Mohammad Rizwanur Rahman, Ph.D., (Keio University, Japan)
Sreeram K. Kalpathy, Ph.D., (University of Minnesota)
Subray R. Hegde, Ph.D. (University of Canada)
Preetham Kumar G V, Ph.D. (IIT, Madras)

Department of Physics

Professor:

G.K. Shivakumar, Ph.D. (Sardar Patel Univ., Gujarat)
G. Umesh, Ph.D. (I.I.T. - Delhi) on deputation (CUK) till 31.12.2014
Kasturi V Bangera, Ph.D. (Mangalore Univ.)
H.D. Shashikala Ph.D (Osmania Univ.)
Udayashankar N.K., Ph.D. (I.I.Sc. Bangalore) HOD

Associate Professor:

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

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)

ADMINISTRATIVE AND OTHER STAFF

Registrar i/c:

Ravindranath K., M.A. (Mangalore University) till 8.3.2015 (Registrar from 9.3.2015)

Assistant Registrars

Kamlabh Kumar Singh, (M.Sc., M.S., MBA), 1.7.2013
Soumen Karmakar, (MBA), 8.7.2013
Bansod Pritam Ramesh, (M.Com, MBA) 10.3.2014
Gaurav Chowdhury, (MBA), 11.3.2014

Deputy Registrar (Accounts):

Ram Mohan Y, M.Com. (Mysore), LL.B. (Mangalore University)
Chandra Shekara Shetty, Internal Audit Officer on contract basis from 17.10.2007

Resident Engineer i/c :

M.K.Nagaraj, Ph.D. w.e.f. 9.7.2014

Resident Medical Officers :

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

Medical Officer :

Dr. M.L. Balabhaskara

Dr. Sulochana Nayak – on contract

Chief Warden Hostel:

Narendranath S, Ph.D. from 1.4.2014

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

Col. MG HS Rajan

Associated NCC Officer Incharge (ANO):

P Sam Johnson, Ph.D.

Watch and Ward Officer/Security Officer 10.3.2015:

Manohar Karanth

Chief Vigilance Officer:

K Rajendra Udupa, Ph.D. from 24.2.2014

Central Public Information Officer (CPIO):

K. Ravindranath, Dy. Registrar(Academic)

OTHER SECTIONS

Department of Training & Placement

Professor:

Lakshman N, Ph.D. from 1.4.2014

Industry Institute Partnership Cell

Professor I/c.:

Full Time Officer:

G S Dwarakish, Ph.D.

SC/ST Cell

B M Doddamani, Ph.D. from 16.5.2013

Physical Education

Physical Director:

Vacant

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) from 11.3.2014

Manoj, MPEd (Mangalore University) 11.3.2015

Library

Librarian:

Vacant from 17.5.2011

Asst. Librarian:

Anasuya Chakari, M.A. M.Lib.Sc. (Karnataka University) Library Incharge from 17.5.2011

Iranna M Shettar (M.Lisc., M. Phil) 26.3.2014

Central Computer Centre

Chairman / System Manager:

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

Scientific Officer:

Vijayakumar Ghode, B.E. (Gulbarga Univ.)

NITK - Science & Technology Entrepreneurs' Park

Director:

Suresh Bhat, B.E., M.B.A., P.G.D.C.A. till 30.6.2014

K B Kiran, Ph.D. incharge from 1.7.2014

R&D Centre on Clay Roofing Tiles

Faculty Incharge:

K Chandrasekaran, Ph.D. from 1.4.2014

NTMIS - Nodal Centre - Karnataka State

Project Officer I/c.:

B M Doddamani, Ph.D.

**Centre for Continuing Education
Chairman**

S M Hegde, Ph.D., from 1.4.2014

**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)

| Sl.No | Name of the Posts | In Position as on 31-03-2014 |
|-------|---------------------------|------------------------------|
| 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 | 3 |
| 13 | Senior Secretary | 1 |
| 14 | Junior Assistant | 15 |
| 15 | Senior Assistant | 32 |
| 16 | Asst.Selection Grade-II | 1 |
| 17 | Asst.Selection Grade-I | 7 |
| 18 | Senior Stenographer | 1 |
| 19 | Stenographer (SG - II) | 4 |

| | | |
|--------------|------------------------------|------------|
| 20 | Technical Assistant | 3 |
| 21 | Senior Technical Assistant | 7 |
| 22 | Technical Assistant (SG- II) | 1 |
| 23 | Assistant Engineer | 12 |
| 24 | Assistant Executive Engineer | 19 |
| 25 | Executive Engineer | 3 |
| 26 | Work Assistant | 5 |
| 27 | Senior work Assistant | 1 |
| 28 | Work Assistant (SG - II) | 1 |
| 29 | Technician | 1 |
| 30 | Senior Technician | 10 |
| 31 | Technician (SG-II) | 3 |
| 32 | Attendant | 30 |
| 33 | Senior Attendant | 15 |
| 34 | Senior Security Guard | 2 |
| Total | | 192 |

11.0 FACILITIES/AMENITIES

11.1 Hostels

The Institute reopened on 23/07/2014 for Under-graduate and Post-graduate studies as per Academic Calendar for the year 2014-15. All the students including foreign students are accommodated in the hostels as per the following details:

| | Male | Female | Total No. of Hostellers |
|----------------------------------|-------------|------------|-------------------------|
| Undergraduate Programmes | 2629 | 544 | 3173 |
| Postgraduate Programmes (M.Tech) | 620 | 253 | 873 |
| PhD | 175 | 54 | 229 |
| M.B.A | 47 | 18 | 65 |
| M.Sc. | 24 | 48 | 72 |
| MCA | 177 | 72 | 249 |
| Total | 3672 | 989 | 4661 |

Male students are accommodated in Eleven Hostel Blocks. First year UG students are accommodated in I Block, II Block and VII Block Hostels. Second year UG students are accommodated in III Block, IV Block and V Block Hostels. Third and Fourth UG students are accommodated in Mega Hostels. PG students are accommodated in PG Block, V Block, VII block, VIII Block and Mega Hostel Blocks and PhD students are accommodated in VII Block Hostel and Mega Hostel block. There are four hostels for Lady Students with total accommodation capacity is 794 Nos. The remaining students were accommodated in common halls of girls hostel blocks and in MS building.

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 8 vegetarian messes and one non-veg mess 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. The messes are managed by the active participation of the 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, extra milk and stock sheets, cash and credit guest registers, purchase registers, mess 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. Three groups of messes were made. They are as follows

- a) Girls hostel and International Hostel
- b) Hostel Block One , Two, Three, Five, PG, Eighth, and Mega Hostel
- c) Fourth Block Non-Veg mess

Rate per day of each group will remain uniform. Total mess membership varies in every month. Out of the 11 messes, VII block mess, PG block mess, Mega Hostel Mess and Non-Veg messes are managed by the contractors.

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 V Block hostel. This section is managed by a separate elected students committee. The reading room committee organized CRRESCNDO 2015 during March 20-22, 2015 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 February-March 2015. 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.

During the year under report, Medical Relief to the tune of Rs.26523/- 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 a 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. Narendranath S. 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:

| | |
|------------------------------------|---|
| Narendranath S. , Ph.D. | - Professor in-charge Hostel Affairs |
| Sri. Vasudeva M. | - Warden (Finance) |
| Basavaraju Manu, Ph.D. | - Warden, I Hostel Block |
| M.N. Satyanarayan, Ph.D. | - Warden, II Hostel Block |
| C. Rajasekaran, Ph.D. | - Warden, III Hostel Block |
| Jaidhar C. D. , Ph.D. | - Warden, IV Hostel Block |
| Paresh Chandra Deka , Ph.D. | - Warden, V Hostel Block |
| Biju R. Mohan , Ph.D. | - Warden, PG Hostel Block |
| Patipati Srihari, Ph.D. | - Warden, VII Hostel Block |
| P Sam Johnson, 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 Narayan Gaonkar , Ph.D. | - Warden, Mega Hostel Tower I |
| Bijuna C. Mohan, Ph.D. | - Warden, Girls Hostel I, II, III Block |
| C.P. Devatha, Ph.D. | - Warden, Girls Hostel IV Block |

Prof. Swapan Bhattacharya , 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.

During the year under report, students, staff and all concerned with hostel administration co-operated excellently so that the year under report was smooth and incident free.

11.2 CENTRAL COMPUTER CENTRE

CCC provides the campus backbone services with about 20 kms of 12 core OFC using 1 Gbps and 10 Gbps backbone to the different buildings and broad band to the residences.

The data centre acts as an integration hub of OFC/backbone. It houses the 155 Mbps Internet connection to BSNL, the Gbps link to the National Knowledge Network (Internet bandwidth about 330 Mbps), associated networking equipments and sufficient hardware to handle the critical backbone network services. Additional bandwidth is recommended.

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.

Departments, residences (through the broadband), directorate (and administrative net), guest houses, and hostels are individually connected to the core switch.

At present, the hostel networks are integrated into the academic network of NITK sharing the Internet bandwidth of the Institute. The hostels have a total of 3000 nodes which will increase to approximately 5000 nodes.

The academic LAN is about 2000 nodes at present. However, this is likely to go up once the new building are included.

CCC LAN

CCC augments the academic departments needs through its own modest LAN of 62 nodes (Ground floor) and 84 nodes (First floor).

The ground floor hall is used for the first year computational practice laboratory and is available for other activities only after the lab-hours. The first floor hall 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.

Facility Management

The network infrastructure facility management of NITK is outsourced. Comprehensive on site 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 alternations within a limit. Tender system if the purchase cost is above Rs. One lakh.

Power

The facility has a 200 KVA Diesel generator that was established in 1994 and two 20KVA and one 15 KVA online UPS systems procured later for providing backup power during the changeover. Two 15 KVA UPS systems

provide the power backup to the CCC LAN. The 33 KV electrical substation established recently has increased the power availability significantly resulting in better availability of campus LAN.

CCC's Goals

1. To ren 24×computer and network services reliaby
2. To reduce the eewastage of Internet Bandwidth
3. To expand the DAta Centre facilities.
4. To ecome the Nodal Centre of an integrated IT service platform for NITK that meets the user expectations.

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 1,35,000 including Book-Bank books, online e-Books subscribes 413 print journals for all the disciplines. We have access to 8000 plus online Journals through INDEST. This year we have purchased 420 online full text journals from Taylor & Francis Database Vendors. The total area is 2758.56sq.meters including the extended floors as an additional space for reading hall.

The Central Library has received "**Highest User Award for IEL online (IEE Explore)**" in 2014 amongst INDEST-AICTE Consortium Level 2 member's category.

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 1,35,000 books besides subscribing to around 413 National and International Print Journals.

INFRASTRUCTURE:

The Central Library has Wi-Fi connectivity with more 25 personal computers in Digital Library section. The Library day-to-day operations are automated and issue and return of all the books are done through computers. The computer terminals provided at the counter near entrance and can be used to gain information regarding status of any document and other particulars of any book/collection. The Library activities have been computerized using the LIBSYS software. A bar coded system of issue and returning books is currently in use.

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.

ON-LINE SERVICES:

- a. Library is a member of "Indian National Digital Library in Science and Technology (INDEST)". It provides full text resources like IEL online, Science Direct, Springer Verlag, Nature, Indian Standards of all branches of Engineering, Engineering index etc.
- b. Member of DELNET (Developing Library Network). It provides resource sharing among member libraries and inter library loan facility.
- c. Library is a member of NIT – Consortium. It subscribes full text resources of Science Direct, IEL online, Springer Verlag, ACM, ASTM Journals, Taylor & Francis and Royal Society of Chemistry, etc. e-journals.

DIGITAL LIBRARY:

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

SOME OF THE SERVICES AVAILABLE IN THE DIGITAL LIBRARY ARE:

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

BOOK-BANK:

General Book-Bank for all students consists of multiple copies of textbooks. The books are lent to all students for home reading for 30 days. Every year multiple copies are added to the Book-Bank. In addition to this, there is a separate Book-Bank facility for SC/ST students also. There are 30,049 books available in all branches in Book-

Banks of this Library. Automation of Book-Bank book is completed and the circulation of books is being done by using BARCODE System.

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

The following facilities have already been introduced in the Library:

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

Borrowing Privileges and Renewal:

| User Types | Items | Period of loan |
|-------------------|----------|----------------|
| Teaching Faculty | 15 books | 1 semester |
| Research Scholars | 5 books | 1 semester |
| UG/PG students | 6 books | 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 list
- News paper clipping display
- Selective dissemination of information and current awareness service (SDI and CAS)
- Book-Bank facility
- Digital Library
- Inter library loan of books
- Reprographic services
- On-line public access catalogues

- CD-Rom data base access
- Compilation of bibliography on selected topics
- Practical and Apprenticeship training for diploma and degree student of Library and Information Science
- On-Line information retrieval through DELNET
- E-journals through INDEST Consortium.

Other Activities:

- For fresher of U.G. and P.G. courses, Library conducted orientation classes in the beginning of the academic year.
- The Library is publishing list of "New Arrivals" Bimonthly & sending the same to all Faculty members through e-mail.
- The Library provides practical training to the Diploma students of Library Science from the Government Polytechnic for Women, Mangalore and Apprentice Training programme is also conducting.
- Library is also providing the SDI Service (Selective Dissemination of Information) on the various on-going Research Projects sponsored by the NITK, D.S.T., C.S.I.R. and other Research Organization etc. Under-Graduates, Post-Graduates and Research Scholars are also making use of these services for their project works. Seminars and Information Retrieval Services by using Computer.
- Services to Industries, Educational Institutions, Government Establishments, the neighboring Govt. Departments, Educational Institutions and Industries are using this Library services quite often.
- Membership fee Rs.1,000/- per card and maximum of Rs.5,000/- (5 cards) introduced to the industries and several industries are members to this Library.
- The Library has an Inter Library Loan facility with leading Institutions and G.O.I. Establishment.
- Member of National Information Center for Machine Tools and Production Engineering (NICMAP), CMTI, Bangalore.

Publications:

Conference

| Sl. No. | Title of Paper | Conference Name, Place, Dates, Page Number | Author (s) |
|---------|--|--|----------------|
| 1 | Knowledge Management in Libraries of Technical Institutes: An Overview | ICBKC 2015 (International Conference on Building Knowledge Centers – 2015) January 1-2, 2015 NMAM Institute of Technology, Nitte, India | Iranna Shettar |

11.4 LABORATORIES

Department of Applied Mechanics And Hydraulics

| Name of the lab. | Major equipments/facilities |
|-----------------------|--|
| 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 |
| 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 Softwares : ERDAS- Imagine, PC ARCINFO Master Lab. Kit , Geomedia Professional. Distance measurement equipment |
| Computer Laboratory | Computer systems : 15 No.s Laser printer |

Department of Chemical Engineering

| Name of Laboratory | Major Equipment/Facilities |
|---|---|
| Chemical Reaction Engineering & Process Control & Simulation Laboratory | High Pressure high temperature gas liquid phase reactor |
| Heat Transfer Lab | Respirable dust sampler APM460BL & Thermoelectrically cooled gaseous sampling, Shell and Tube Heat Exchanger, Electrically Heated Boiler, Spray Tower, Parallell Flow /Counter Flow / Double Pipe Heat exchanger, Pool Boiling Heat Transfer Apparatus, Forced Convection Heat Transfer, Natural Convection Heat Transfer, Stefan boltzman apparatus, Thermal conductivity of insulating Powders, Horizontal Condenser & Vertical Condenser Steam, P.M 2.5/10 Micron Fine Dust sampler, Quartz Emmersion reactor, Air pre heater, Nitrate Anylyser, Bench top Fermentor, Peristaltic pump with digital Display, Eddy Current Drive with Brake, Ozone Anylser, pyrolysis Plant, Stirred Cell Membrane Unit |
| Particulate Technology lab. | ozone Generator-L4g, |
| Momentum Transfer Lab | Micro Wave Ashing System, |
| Mass Transfer Lab | Liquid Extraction in Packed Bed, Vertical Tube Evaporator, Packed Distillation Column, Absorption in Packed Tower, Fluidized Bed Dryer (With air circulation), Wetted Wall Column (with air circulation), Batch Crystallizer, Forced Draft Tray Dryer, |
| Testing and consultancy/Technical analysis Lab | Ozone Generator, Ozone analyser, High temperature gas-liquid phase reactor UV-VIS Spectrophotometer, Gas chromatograph, B.O.D. Incubator, C.O.D. Digester, Microscope, Iso-kinetic Stack Monitoring kit, Digital nephelometer (turbidity meter, High Pressure high Flow Gas Purification & Control panel Zero air, H ₂ , He & N ₂ , Air compressor , Respirable dust sampler. PM 2.5 analyser; Bench top Fermentor; Micro balance 5g, Rotary shaker –Lead; Refrigerated High Speed Centrifuge; Flue gas analyser; Incubating Orbital Shaker; DO Meter; Ultra Sonic Water Bath; Digital microscope |
| Advance Instrumentation Lab | HPLC , GC-MS, Nanodrop Spectrophotometer, Atomic absorption spectrophotometer with Graphite Furnace and hydride generator, Compound Microscope, TOC analyser, Program Temperature Control System, Electrochemical Workstation, cell, carbon electrode, DO Probe & DO Transmitter, CO ₂ Incubator, Water purification ultra sys, Deep freezer, Microwave Digestion unit, Lyophilizer, Gel Electrophoresis, Gel Documentation, Bioreactors (3 ltr., 5 ltr. & 14 ltrs) with variable volume fixtures and magnetic stirrer system, TG-DTA 6300(Thermo gravimetric Analyser), Incubator LT Electronic, Incubator LE Refrigerated, ozone Generator-L4g, Eppendorf Centrifuge, High Pressure, Micro controlled Spectrophoto meter, Ion Chromatography; Horizontal laminar flow work station; Membrane Testing system; Distillation Unit; Incubating Orbital Shaker; |

| | |
|-------------------------------------|---|
| Industrial Biotechnology Lab | Biosafety Cabinet, CO2 Incubator, Incubator - Electronic orbitek LT, Incubator - Electronic orbitek Refirgerated LE, Microwave Oven, Laboratory Centrifuge, Infra -red TN Turbidity Meter, Autoclave (vertical), Micro controlled Spectrophoto meter, UV VIS Spectrometer, Cryostat bath, Deep freezer, |
| Environmental Immunology Laboratory | Ultra Sonic Water Bath, Deep freezer 2 nos ups 2kva, PM 2.5 mini volume sampler, Co2 Incubator, Refirgerated Centrifuge, High volume sampler, Micro plate reader, Meteorological Station, mini autoclave, ppendrof Centrifuge, Trinocular inverted microscope, |
| Project/Research lab. | RTC Basic Magnetic Stirrer, Eppendorf Centrifuge, Refrigirated Centrifuge, Refrigirated Heating Bath Circulator, Homogenizer, Digital Refractometer, Surface Tension analyser, Temperature Controlled controlled digital density meter, High Speed Refgerated Centrifuge, Muffle furnace, Static Mixure, Bacterial incubator. Horizontal laminar flow work station, Dry Bath with Heating BlockMembrane Testing system, Rotary shaker –Lead, Distillation Unit, Micro centrifuge Spinwin MC-02, Incubating Orbital Shaker 2 Nos,, Biological safety Cabinet, Rotating Disc Counter, ELCD Detector, Digital Viscometer, 6 stage Microbial Impactor, Eppendorf Centrifuge, Dosing pump with Pump head |
| Fermentation lab. | Table top high speed cooling centrifuge, |
| Departmental Computer Lab. | 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, |

Department of Civil Engineering

| Name of Laboratory | Major Equipment/Facilities |
|---|--|
| Civil Engineering Material Testing Laboratory | 3000 kN Compression Testing Machine Vee-Bee Test Apparatus, Rebound Hammer, Los Angeles Testing Machine |
| Earthquake Engineering Laboratory | Mini Shake Table, Accelerometers, 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 Spectro-photometer Voltametry, Gas Chromatograph HPLC, Ion selective electrode meter, Kjeldahl nitrogen distillation apparatus, Flame Photometer. |
| Geotechnical Laboratory | Tri-axial loading facility, Rock cutting facility, Nuclear Density Gauge, Permeability Test apparatus. |

| | |
|---------------------------------------|---|
| Transportation Engineering Laboratory | 50 kN and 20 kN Fatigue Testing Machines, Gyrotory Compactor, Brookfield Rotational Viscometer, 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 | In-situ Ion Migration Tester, Muffle Furnace, Flexural loading system., Compression Testing Machine, Loading Frames, RCPT Test Apparatus, Corrosion Monitoring Unit |
| Survey Stores | Total Station, Auto Levels, Theodolites, Dumpy Levels |

Department of Computer Engineering

| Name of Laboratory | Major Equipment/Facilities |
|--|---|
| Core Computing Lab | Brand: Dell Optiplex 9010DT, Intel Core-i7, 3770, 8GB DDR3 SDRAM, 500 GB SATA HDD, 18.5" LCD TFT Monitor with Windows 7/Ubuntu OS. Brand: Lenovo, Lenovo Thinkcentre, Intel Dual Core 3GHZ, 1GB RAM, 140 GB HDD, 17" TFT Monitor. OS: Windows XP/Ubuntu Linux, Number of Systems: 50(45+05) Used for conducting regular UG Lab classes. |
| Software Engineering Lab | Brand: Dell Optiplex 9010DT, Intel Core-i7, 3770, 8GB DDR3 SDRAM, 500 GB SATA HDD, 18.5" LCD TFT Monitor with Windows 7/Ubuntu OS, Number of Systems: 32, Used for conducting regular UG Lab classes. |
| Intel E-commerce & Internet Technology Lab | Brand: Dell Optiplex 9020MT, 4 th Generation Intel Core i7-4770 quad-core, 16GB DDR3 RAM, 1 TB SATA HDD, DVD RW, NVIDIA GeForce GTX 645, 1 GB Graphics card, 21" wide TFT monitor with Windows 8.1 Professional OS, Number of Systems: 13, Used for conducting regular UG Lab classes. |
| Research Lab | Brand: Dell, Optiplex 9010DT, Intel Core-i7, 3770, 8GB DDR3 SDRAM, 500 GB SATA HDD, 18.5" LCD TFT Monitor with Windows 7 /Ubuntu OS, Number of Systems: 05, Ph.D. /Research Work |

| Name of Laboratory | Major Equipment/Facilities |
|---------------------------------|--|
| Cloud Computing Lab | Brand: Dell, Optiplex 9010DT, Intel Core-i7, 3770, 8GB DDR3 SDRAM, 500 GB SATA HDD, 18.5" LCD TFT Monitor with Windows 7/Ubuntu OS. Brand: Dell Precision T1650, Intel Core-i7-3770, 3.9 GHz, 8GB DDR3 RAM, NVIDIA Quadro 2000 graphics with 192 CUDA Core, 19" Wide LCD TFT Monitor with Windows 7 Professional/Ubuntu OS, Number of Systems: 15 (12+3), Used for Ph.D./ Research Work. |
| Distributed Computing Lab | Brand: Dell Optiplex 9010DT, Intel Core-i7, 3770, 8GB DDR3 SDRAM, 500 GB SATA HDD, 18.5" LCD TFT Monitor with Windows 7/Ubuntu OS, Number of Systems: 05, Used for PhD/Research Work |
| Secure Software Systems Lab | Brand: Lenovo Thinkcentre M90, Intel core-i7, 870 2.93GHZ, 4C/8T, 8GB DDR3 RAM, 1TB SATA HDD, 18.5" TFT Monitor, OS: Windows 7 professional/ Ubuntu OS. Brand: Lenovo Lenovo Thinkcentre M90, Intel core-i7, 870 2.93GHZ, 4C/8T, 4GB DDR3 RAM, 500 GB SATA HDD, 18.5" TFT Monitor, OS: Windows 7 professional/Ubuntu OS, Number of Systems: 53(30+23). Used for First year M.Tech (CSE, CSE-IS) students. |
| Information Security Lab | Brand: Dell Optiplex 9010DT, Intel Core-i7, 3770, 3.4 Ghz, 8GB DDR3 SDRAM, 500 GB SATA HDD, 18.5" LCD TFT Monitor with Windows 7/ Ubuntu OS, Number of Systems: 25, Used for second year M.Tech.(IS) Project students. |
| PG Project Lab -1 | Brand: Dell Optiplex 9010DT, Intel Core-i7, 3770, 8GB DDR3 SDRAM, 500 GB SATA HDD, 18.5" LCD TFT Monitor with Windows 7/Ubuntu OS, Number of Systems: 25. Used for second year M.Tech. (CSE) Project Work. |
| PG Project Lab -II | Brand: Acer, Intel Core i5 750, 8MB L2 Cache, 4GB RAM, 500 GB SATA HDD, 19" wide TFT monitor with Windows 7 Professional, Number of Systems: 20, Used for conducting regular UG Lab classes. Number of Systems: 10. Used for second year M.Tech.(CSE) Project Work. |
| Image and Speech Processing Lab | Brand : Lenovo Thinkstation - Workstation, Intel Xeon E5-2650 v2 8 core, 2.6 Ghz upto 3.4 Ghz, 23" wide TFT monitor LED backlight, F&D A521, 2.1 Speakers with Windows 8 Professional with Ubuntu 13.10, Number of Systems: 20. Used for Ph.D./Research Work. |
| Digital Electronics Lab | Digital IC Trainer Kit, Digital IC Tester and other accessories for UG hardware lab class. |
| Data Centre/IBM Open Power | |

| Name of Laboratory | Major Equipment/Facilities |
|--------------------|---|
| Lab | <p>SERVER CLASS SYSTEMS (Total Servers: 09)</p> <p>Brand: DELL Power Edge T630 - 3 No.(s) Hexa Core Intel Xeon E5-2620 v3 processor based Tower server, 15 MB cache, 64 GB DDR4 RDIMM RAM, 1.2 TB X 4=4.8TB HDD SAS RAID5 with 512MB cache, DVD RW, 2 redundant 750W power supply with hot swap, 4X1 GbE with Ubuntu 14.10 Server Edition</p> <p>Brand: DELL Power Edge T720 - 1 No.(s) 6 Core Intel Xeon E5-2640 processor based 2U rack server, 15 MB cache, 64 GB RDIMM RAM, 1TB X 6=6TB HDD RAID5 with 512MB flash SAS, DVD RW, 2 redundant 750W power supply with hot swap, 4X1 GbE with Ubuntu 12.10 Server Edition.</p> <p>Brand: DELL Power Edge R420 – 1 No.(s) 6 Core Intel Xeon E5-2420 processor based rack server, 15MB cache with 32 GB RDIMM, 4X300GB 15K RPM, 6Gbps SAS HDD, PERC H710 integrated RAID controller, Dual Hot plug power supply 550W, Broadcom Gigabit Ethernet dual ports with Windows 2013 Server Edition.</p> <p>Brand: DELL Power Edge R420 – 1 No.(s) 6 Core Intel Xeon E5-2420 processor based rack server, 15 MB cache with 32 GB RDIMM, 4X300GB 15K RPM, 6Gbps SAS HDD, PERC H710 integrated RAID controller, Dual Hot plug power supply 550W, Broadcom Gigabit Ethernet dual ports with Ubuntu 12.10 Server Edition.</p> <p>Brand DELL Power Edge T710, - 1 No.(s) 6 Core Intel Xeon E5645 2.40 Ghz dual processor, 12 MB L3 cache, 24 GB DDR3 RAM, 3.0 TB hot swap SAS HDDs, Integrated RAID, DVD RW, Integrated dual gigabit Ethernet with Red Hat 6.0 Enterprise AE.</p> <p>Brand IBM Xeon Server - 1 No.(s) IBM Intel Xeon 236 series, 3.6 GHz, Dual Processors, 4 GB RAM, (300x2) 600 GB SCSI HDD, DVD Re-writer with REID control and other Server Management Kit Dual port GbE Ethernet controller with Ubuntu 12.10 Server Edition</p> |

| Name of Laboratory | Major Equipment/Facilities |
|--------------------|--|
| | <p>Brand IBM Xeon Server - 1 No.(s)</p> <p>IBM Intel Xeon 236 series, 3.6 GHz Dual Processors, 2GB RAM, (140x2) 280 GB SCSI HDD, DVD Re-writer, Dual port GbE Ethernet controller with Windows 2003 Server Edition.</p> <p>IBM OPEN POWER SERVER(No. of Power Servers: 02)</p> <ul style="list-style-type: none"> ▪ IBM p-Series Server Model 9131/52A – Hardware Management Console with 2 High end Power Pc’s. Each Power Pc’s consists of 4 Power PC 64 bit processors, 9216 MB RAM, Redundant SMPS, Tape storage device and HMC Firmware(for Managing Power cycling, Maintenance and other related Administrative activities) installed with various Linux OS(Debian, Ubuntu) <p>These servers are used for system Administration and Conducting regular laboratory classes, Project and Research Works</p> |

Department of Chemistry

| Name of Laboratory | Major Equipment/Facilities |
|--------------------------------|--|
| Membrane technology Laboratory | Membrane casting, salt rejection equipment, Rotavapor etc. |

Department of Electrical and Electronics Engineering

| Name of Laboratory | Major Equipment/Facilities |
|---|---|
| High voltage testing laboratory | 100kV impulse generator, HV standard capacitor, 5kV 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 system Dynamics lab | RMEXPERT, SKM POWER TOOLS, POWERWORLD, EMTDC PSCAD, MATLAB, MATHCAD, 70 Work station grade computers |
| Virtual Instrumentation lab | NIDAQ systems, PXI1010 units with High Voltage measurement unit, NI-ELVIS Stations, LABVIEW software, dSPACE 32xx rapid prototyping platform |
| Embedded systems lab | OSEK RTOS, KEIL RTOS, KEIL IDE for 805x, ARM, CODEWARRIOR IDE for 68HCXX, 56F8XX, TI DSC Code Composer Studio for 28XX, MOTOROLA, INTEL, ARM, PIC DSC / MC units |
| Industrial Automation lab | Distributed Control Systems [YOKOGAWA CS1000], PLC ROCKWELL RSLOGIX5000, ABB RTU232. |

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|--------------------------------|---|
| Microgrid Laboratory | 10 Kw wind solar hybrid system (2 wind turbines of 3.2 Kw each and 3.6 kw photovoltaic system) capable of operating in grid connected and islanding mode of operation with charge controllers and Inverter. 1.2 kW Fuel cell based 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 and 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. |

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 Channel 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 Outdoor FSO Link Setup (Lightpoint) Wireless Comm Trainer Kits(2 set ups) Workstations LD Driver, LD Module, PD Module Power Meter |

| | |
|----------------------|---|
| | <p>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.</p> |
| RF Communication Lab | <p>RF Equipments: 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 Multimeter 6.5 digit Triple Output DC Regulator Power Supply Electronic Instrumentation Training Kit RF Tools – HFSS, CST Microwave Studio Digital Source meter with Safety universal Test Lead kit</p> <p>Software: Genesis Core Bundle License Agilent VEE 8.5 , ADS 10 User Licence, Optsim 5 User Licence</p> |
| VLSI Lab | <p>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</p> |
| DSP Lab | <p>Dell Optiplex 9020 with Intel core I7-4790 CPU @ 3.60GHz Workstations Matlab, Simulink, Mathematica DSP development boards – TI & AD, fixed and floating bit based DSP Code development tools – TI & AD Mentor Graphics FPGA Advantage tools FPGA development boards – Xilinx & Altera FPGA based development tools for system design – Xilinx & Altera Stretch S55DB30 Development Board & AVM20 Audio Visual Module, Stretch Code Development Tools Video Evaluation Boards Lab View</p> |

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|--|--|
| 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 |

Department of Humanities, Social Sciences and Management

| Name of Laboratory | Major Equipment/Facilities |
|---------------------------|-----------------------------------|
| Language lab | Software and 15 computers |

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 | Desktop: HP Compaq 8200 Elite MT PC-3 HP Compaq 8300 Elite MT PC -4 HP Compaq dc 7900 Convertible Minitower -3 Dell 9010 DT-26761536 optiplex M-1 Workstation: HP Z800Workstation SGH030TDHR (GPU Computing Server)-1 HP xw4400 workstation-2 Servers: 8841 45A IBM e server x236(99KYD74)-1 HP ProLiant ML570 G4 7120M 3.0GHz Tower Server-1 DL160 G6 E5504 HOT PL UG SERVER -1 AH234 A HP RX2660 SERVER (intergrity server)-1 Brand Connoi Mode Ntpsc T7025 Fermi-1 HP SR 638181-371 ML-350 E5645 SFF/6/GB SERVER-1 Server Dell Power Edge R420 (Batch - 3L22HY1, 4K22HY1)N- Computing L-300 0 client Access-2 IBM P Series P270 8202 4EC SERVER-1 |

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|--------------------------------|--|
| Internet Technology Laboratory | <p>Desktop: HP Compaq dx 2700 MT PC-4 IBM Think centre/IBM Net vista-5 Dell Optiplex 755-1 IBM Thinkcenter (IBM, 8116A11)-5 HP Compaq dc 7900 Convertible Minitower -1</p> <p>Workstations: HP xw4400 workstation-3</p> |
| Virtualization Lab | N Computing L300 Clients -20 |
| Post Graduate Lab –I | <p>Desktop: HP Compaq 8100 Elite MT PC-29 HP Compaq 8200 Elite MT PC-1</p> <p>Cameras: Serveillance Setup Dlink DCS 2103 CAMERADCS 2103-2</p> |
| Post Graduate Lab – II | <p>Desktop: HP Compaq 8200 Elite MT PC-26 HP Compaq 8100 Elite MT PC-1 HP Compaq 8300 Elite MT PC -1</p> <p>Cameras: Serveillance Setup Dlink DCS 2103 CAMERADCS 2103-2</p> |
| Project Laboratory | <p>Desktop: HP EliteDesk 800 G1 TWR -13 HP Compaq dc 7900 Convertible Minitower -3 HP Compaq dx 2700 MT PC-4 Dell Optiplex 755-3 IBM Thinkcenter (IBM, 8116A11)-7</p> <p>Workstations: Dell Precission T1700-3 HP xw4400 workstation-7</p> |
| Undergraduate Lab -I | <p>Desktop: Lenovo Think M90(5498-PR1)-56, HP Compaq dc 7900 Convertible Minitower - 4</p> <p>Cameras: Serveillance Setup Dlink DCS 2103 CAMERADCS 2103-3</p> <p>MIC Systems: KQ-SRS-1112 Infrared Sound Field Reinforcement System-1</p> |
| Undergraduate Lab -II | <p>Desktop: HP Compaq 8200 Elite MT PC-26, HP Compaq 8300 Elite MT PC-22 HP Compaq 8300 Elite Small Form Factor-1</p> |

Department of Mathematical And Computational Sciences

| Name of Laboratory | Major Equipment/Facilities |
|---------------------------|-----------------------------------|
| MACS Lab | 285 P.C.s |

Department of Mechanical Engineering

| Name of Laboratory | Major Equipment/Facilities |
|---|---|
| Metrology Lab | Precision/Measuring instruments |
| Engines Lab | Computerized CI engine test rig, Computerized multi cylinder SI Engine test rig, Hydrogen operated single cylinder test rig, Emissions testing facility, Steam boiler and engines |
| Dynamics Lab | Vibration measuring equipments |
| Fuels Lab | Fuel testing facilities |
| Refrigeration and Air-conditioning Lab | Refrigeration testing setup, AC testing equipments |
| CAD Lab | Computers and servers to accommodate 50 students CAD/CAM/CAE software |
| Mechatronics Lab | Mechatronics Instruments |
| Micro systems Lab | Modeling and Simulation of MEMS |
| Automotive Electronics Lab | Engine Simulation equipments (RBEI lab) |
| Heat transfer Lab | Heat transfer equipments, Heat exchangers |
| Material Characterization Lab | Vacuum Arc Melting Equipment, Image Analyzer, Rolling Machine, Hardness Equipment |
| Thermal Simulation Lab | AVL BOOST and AVL FIRE software |
| Virtual lab in Mechanisms of Machines | Wireless accelerometer |
| Virtual Lab in Machine dynamics & Vibration | DAQ systems and sensors |
| Remote Triggered Lab on Mechanical vibrations | Lons Stroke shaker PS420, Accelerometer |

Department of Mining Engineering

| Name of Laboratory | Major Equipment/Facilities |
|---|---|
| 1.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) |
| 2.Drilling and Blasting Laboratory | Minimates Minimate plus High speed video camera VOD monitor Laser profile, WIPFRAG software Jack hammer drilling set-up Air compressor |
| 3.Mine Environmental Engineering Laboratory | 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 & Heat stress monitoring Equipment Self-Contained breathing apparatus. Human vibration measuring apparatus Digital millivolt meter Machine vibration measuring apparatus Larson & Davis noise dose meter |
| 4. Mineral Processing Laboratory | Jaw Crusher Roller Crusher Ball Mill Rod Mill Bond' Work Index Setup Electro Magnetic Sieve Shaker Riffle Sampler |

| | |
|--|--|
| | <p>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> |
| 5. Mine Surveying Laboratory | Prismatic Compass, Surveyor Compass, Vernier Theodolite, Micro-Optic Theodolite, Dumpy level, |
| 6. Mine Planning and Design Laboratory | Auto level, Digital level, Total station, Handheld GPS, DGPS. HP Compaq Presario Computer LCD Projector D-link manageable switch HP 3200 A4 scanner, HP 1010/1015 Laser printer, HP plotter Surpac Mine Planning Software Reliability software Sirovision software |
| 7. Mine Pollution Laboratory | J K Sim blast software Merc SQ118 water quality analyzer High volume air sampler Respirable dust sampler Sound level meter Opacity meter Point sampler Beta attenuation meter Weather monitoring station |

Department of Metallurgical And Materials Engineering

| Name of Laboratory | Major Equipment/Facilities |
|---|---|
| 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 Micoscope 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

| Name of Laboratory | Major Equipment/Facilities |
|-------------------------------|---|
| UG Laboratory | ➤ Experimental Kits (8 expt.s of 5 sets each) |
| PG Laboratory I | ➤ Experimental Kits (7 expt.s of 2 sets each) |
| PG Laboratory II | Experimental Kits (7 expt.s) Vacuum Coating Unit (2 no.s) |
| Research Laboratories: | |
| Thin Film Laboratory | <ul style="list-style-type: none"> ➤ XRD ➤ Keithley Source Meter ➤ Keithley Multimeter ➤ Sputtering Unit ➤ Physical Deposition Unit ➤ Spray Pyrolysis Unit ➤ LCR Meter |

| | |
|--|---|
| <p>ptoelectronics Laboratory</p> | <ul style="list-style-type: none"> ➤ Optics Inc SD2000 spectrometer (UV vis spectra) ➤ Lux meter (Lutron) ➤ UVC Ozone Cleaning Unit ➤ Thermal evaporator ➤ Clean air flow bench ➤ OLED measurement system ➤ Keithley Sourcemeter (model 2400). ➤ Jobin Yvon spectrometer with a CCD based detector or a silicon photodiode (SM1PD2A Mounted UV Enhanced Silicon Photodiode, 200-1100 nm Cathode Grounded) ➤ Optical power meter (Ophir Optronics, model NOVA II with PD300-UVdetector) ➤ Keithley 6485 Picoammeter ➤ Tektronix DMM 4040 6-1/2 Digit Precision Multimeter ➤ Agilent 34972A LXI Data Acquisition/ Switch unit ➤ Multioutput DC power supply model LQ6324 ➤ Agilent E4980A Precision LCR meter 20 Hz to 2 MHz ➤ Tektronix TDS 2002B Two channel Digital Storage Oscilloscope 60 MHz 1GS/s ➤ DH-3 UV-Vis-NIR Calibrated Light Source (Ocean Optics) ➤ RF Probe Station ➤ ISO BRUKER Precision Cutting Machine ➤ Q-switched Nd-YAG laser; Model GCR -170 from Spectra – Physics, USA. |
| <p>Crystal Growth Laboratory & Nano materials Laboratory</p> | <p>Solution growth system for crystal growth High temperature furnace Magnetron sputtering system Thin film coating unit Fume Head Vacuum deposition system-Thermal, DC, RF coating system</p> |
| <p>Material Processing Laboratory</p> | <p>CLEMEX Microhardness Tester Physical vapour deposition Polishing Machine Muffle furnace (Max Temp 1000⁰C) Low speed Diamond saw cutting Blade Abbe refractometer Analytical balance and Density kit High temperature furnace P H Meter U V Visible spectrometer Incubator, Ultra sonicator</p> |

| | |
|-----------------------------------|--|
| Materials Research Laboratory | <ul style="list-style-type: none"> ➤ Electrochemical Workstation (Bio-Logic SP150) (2 Nos) ➤ Keithley Four probe system (Source meter) ➤ UV-Visible spectrometer (Ocean optics) ➤ Keithley multimeter ➤ Sputtering Unit ➤ RF power system ➤ Probe sonicator ➤ Spin coater ➤ Centrifuge ➤ Fume hood ➤ High temperature furnace ➤ Vacuum Oven ➤ Oven ➤ Precise temperature controllable stirrer ➤ Double distillation Unit |
| Analytical Instruments laboratory | Photoluminescence Spectrometer XRD |
| Computational Physics Laboratory | Dell server power edge |

11.5 WORKSHOPS

Department of Applied Mechanics and Hydraulics

| Name of workshop | Major equipments/facilitates |
|----------------------------|--|
| Departmental mini workshop | Lathe, shearing machine, drilling machine. Grinding machine. |

Department of Chemical Engineering

| Name of Workshop | Major Equipment/Facilities |
|-----------------------|---|
| Departmental workshop | Lathe, Drilling Machines, Welding machines, Buffing Machines, Grinders etc. |

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/Facilities |
|--------------------------------|--|
| 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, 2 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 of the day 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 with standard synthetic Platform, Fitness equipments like Jogger Treadmills, steppers, Rowing Machines, Bicycle Ergometers, Peck Decks and Abdominal shapers is 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.700-00 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, Cricket pavilion, Athletic pavilion, Department office, Store room, Dressing/changing room for many outdoor games with locker facilities and required wash rooms, has been going on in full swing. Carpet has been fixed at new set up near mega towers Hostel block building. A pair of new mobile Basketball posts with transparent acrylic boards are in full use. Badminton Hall has been renovated with corrugated sheets, advanced lighting system for Badminton, carom and Table Tennis

11.8 STAFF QUARTERS

Most of the permanent employees of the Institute are provided with residential accommodation. A total number of 202 quarters for teaching faculties and 120 quarters for Non-Teaching Staff are available. Further the construction of following staff quarters apartments shall be taken up during 2014-15 through CPWD (total 104 units)

Type – III - one apartment comprising 28 units.

Type IV – one apartment comprising 28 units.

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 11.4.2014 and the following office bearers were elected:

- | | |
|------------------------|------------------------|
| 1. Mr. Shubham Agarwal | - President |
| 2. Mr. Keerthi Prasad | - Secretary |
| 3. Mr. G Jainam Navin | - Joint Secretary |
| 4. Ms. A Sushma | - Girls representative |

GAMES AND SPORTS

STUDENTS ACTIVITIES:

Games & Sports:

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 Best Physique 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 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 28 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. Every student of this Institute is 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 (Free of cost) and campus people. Competitions are being conducted from the lowest level starting from, among 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 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 Aquatics Men & Women were being organized at our Institute during 30th January to 01st February, 2014. More than 60 students from other NITs (06 Men teams & 03 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 "Spike Fest" Inter Collegiate Volleyball 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 Inter Year 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

Projects received

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Lakh Rs.) |
|---|---|--|--------------------------------|---------------------------|
| Laboratory Investigation on Berm Breakwater | INCH | Subba Rao, Ph.D. (PI & Co-ordinator) Kiran G Shirlal, Ph.D. K. Balakrishna Rao (Investigators) | 2010 -15 | 14.88 |
| Simulation and development of flapping mechanism | DRDO | Mr.Pruthviraj U. (PI) Srikantha S. Rao, Ph.D. S.Srihari, Ph.D. | 2010-16 | 17.803 |
| Virtual laboratory (SOM & FM Lab.) – Simulation/ Remote trigger | MHRD | Mr. Pruthviraj U. (LC) K.V.Gangadharan (IC), Ph.D. | 2011-16 | 120 (Total 450) |
| Virtual laboratory (SOM Lab.) –Remote trigger | MHRD | Mr. Pruthviraj U. (LC) K.V.Gangadharan (IC), Ph.D. | 2011-16 | 50 (Total 100) |
| Fund for Improvement of S&T Infrastructure in Universities and Higher Educational Institutions (FIST) Program – 2014 Level 1 : Engineering Science | Ministry of Science & Technology (DST) Govt. of India | Subba Rao , Ph.D. H. Ramesh, Ph.D. Manu, Ph.D. Pruthviraj U. | Approved 5 years 2014-19 | 220 |

Department of Chemical Engineering

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs.) |
|--|---|---|--------------|----------------------|
| Reverse Micellar Extraction Of Lactoferrin From Whey: Continuous Process | MOFPI Ministry of Food processing Industries, Govt. of India" through DST | PI: I.Regupathi; Ph.D.Co-PI: Prasanna BD, Ph.D. | 2013 to 2015 | 37.6 lakhs |

| | | | | |
|--|--|--|--|---------------------------|
| Measurement and Characterization of ambient bioaerosols in Bangalore city | Department of Science and Technology (DST), Ministry of Science and Technology, Govt. of India | PI: Dr. Gangamma S. Co-PI: I.Regupathi, Ph.D. | March 2013 to March 2016 | 53 lakhs |
| "Ambient Airborne particulate matter:Effect of biological component on lung inflammation" | Department of Science and Technology (DST), Ministry of Science and Technology, Govt. of India | PI: Dr. Gangamma S. | 2013 to 2015 | 51. lakhs |
| Electrochemical Deposition of CZTS for solar Cell Applications | DST-SERI | S.Noyel Victoria/, Ph.D. B. Raj Mohan, Ph.D. | 2014 | 27.44 lakhs |
| <i>Synthesis and characterization of SPION embedded inorganic hollow core-shell nano particle as magnetic drug delivery vector</i> | CSIR | P.E. JagadeeshBabu (PI), Ph.D. G Srinikethan (C-PI), Ph.D. | 2014 | 23.00 lakhs |
| One step sonochemical synthesis of CZTS for bifacial solar cell DST-SERB, PI - S.Noyel Victoria, 23 lakhs applications | DST-SERB | PI – S. Noyel Victoria, Ph.D. | 2014 | 23.0 lakh |
| FIST Level II | DST FIST | Vidya Shetty K, Ph.D. (HOD)-Project co-ordinator Project Implementation committee M.B.Saidutta, Ph.D. Vidya Shetty K, Ph.D. Prasanna B D, Ph.D. I Regupati, Ph.D. P.E.JagadeeshBabu, Ph.D. | Five years (Project to start In 2014-2015) | 227 lakhs for equipments. |
| Heavy metal removal by adsorption on melanin coated polymer matrix, | DST | PI: Keyur Raval, Co-PI: Rajmohan B, Ph.D. Gangamma S. | April 2015 | 38 lakhs |

Department of Civil Engineering

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs) |
|--|---|--|---------------|----------------------------|
| Use of stabilized blast furnace slag in infrastructure projects | Kirloskar Ferrous Industries, Koppal | Sunil B M, Ph.D. & Shrihari S., Ph.D. | 2014 -2016 | 6.48 Lakhs |
| BARC- Structural Engineering Project | Bhabha Atomic Research Centre, Mumbai | Katta Venkataramana , Ph.D.& K S Babu Narayan, Ph.D. | 2007-2017 | 31.38 Lakhs |
| L&T sponsored Mtech (CTM) Program project | Larsen & Toubro Construction, Chennai | Gangadhar Mahesh, Ph.D. & C Rajasekaran, Ph.D. | 2014-2019 | 650 Lakhs |
| 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 - 2016 | 18.58 Lakhs |
| Fund for Improvement of S&T Infrastructure - 2013 | Department of Science and Technology, GoI | Suresha S. N., Ph.D. | 2013 - 2018 | 110.80 Lakhs |
| 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. Mr. Naveenchandra | 2014-2018 | 21.30 Lakhs |

Department of Computer Engineering

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs.) |
|--|-----------------------|--------------------------------|-------------------|-----------------------------|
| SPFM-Development of Service, Process, Flow Monitor | DST | K.Chandrasekaran, Ph.D. | 2 years (2013) | 104.71 Lakhs |
| Development of tool for detection of XML based Injection Vulnerabilities in web applications | DIT, MCIT | P. Santhi Thilagam, Ph.D. | 2 years | 38.16 Lakhs |
| FIST Program | DST | Annappa, Ph.D. | 5 years (2014-18) | 56 Lakhs |

Department of Chemistry

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs) |
|---|-----------------------|---|--|----------------------------|
| Augmentation of Research Facilities, i.e. Single Crystal X-Ray Diffractometer | DST-FIST (GoI) | A V Adhikari, Ph.D. (Coordinator) & Darshak R T, Ph.D. (co-coordinator) | 2010-2014 5 Years Ongoing | 128 Lakhs |
| DK District Biofuel Information and Demonstration Centre | KSBDB (GoK) | A V Adhikari, Ph.D. | 2012-2015 Ongoing | 12 Lakhs |
| Efficiency enhancement in organic photovoltaic devices using donor-acceptor conjugated polymers and plasmonic structures. | SERB-DST, India | Udaya Kumar D, Ph.D. | Dec. 2013- Dec.2016 3 years Ongoing | 25 Lakhs |
| Design & synthesis of colorimetric Chemosensors for Environment Pollutant Cations | DST, New Delhi | Darshak R Trivedi, Ph.D. | Feb-2014- Jan-2017 Ongoing | 25 Lakhs |

Department of Electronics And Communication Engineering

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs) |
|---|---|---|---|----------------------------|
| 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 | 01-01-2014 31-12-2017 | 21.25 Lakhs |
| Energy Harvesting Seat | ANRC, Boeing | M S Bhat, Ph.D. | 2014-2015 | Rs. 3.00 Lakhs |
| Secure Turbulence Resistant Free Space Optical (FSO) links for Broadband Wireless Access Networks | DIT, MCIT, Govt. of India | Muralidhar, Ph.D. Kulkarni U Sripati, Ph.D. | 3 Year (from July 2010) Completed on 31-01-2014 | 116.76 lakhs |
| RF MEMS Switches for Ka – Band mm Wave Circuits | NPMASS, Govt. of India | M S Bhat, Ph.D. | 2009 – 2014 Completed | 67.60 lakhs |
| MEMS Design Centre - NPMASS Project | NPMASS, Govt. of India | M S Bhat, Ph.D. | 2009 – 2014 Completed | 11.00 lakhs |

Department of Electrical & Electronics Engineering

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs) |
|---|---|---|----------------------------------|--|
| FPGA based development of different MPPT algorithms for stand-alone photo voltaic system using artificial intelligence | Central Power Research Institute (CPRI) | Debashisha Jena (PI), Ph.D. D. N. Gaonkar (Co-PI), Ph.D. | January 2015-December 2016 | 25.07 Lakhs |
| Control strategies for dynamic voltage restorer under un balanced and disturbed grid conditions | DST-SERB | A. Karthikeyan (PI), Ph.D. | September 2014 to September 2017 | 23.21 Lakhs |
| Research scholarships to investigate in the areas of i. Sensing Techniques, ii. Super efficient Motor Control, under "Visvesvarya PhD Scheme" from | GOI, MCIT, DEITY. | K. P. Vittal (Research Guide), Ph.D. | 2015-20 | 50 Lakhs |
| Establishing center of excellence (CoE) in "Renewable Energy Source integrated Smart Grid Technologies (RENEST)" under Frontier Areas of Science and Technology (FAST), | MHRD, GOI. | K. P. Vittal, Ph.D. Coordinatpr | 2014-18 | 400 Lakhs (Sanctioned 250 Lakhs under Phase 1) |

Department of Humanities, Social Sciences & Management

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs) |
|---|---|--|---------------|----------------------------|
| Reforming Higher Education for Civic Learning and Community Engagement | NUEPA-ICSSR | Sreejith Alathur, Gopalakrishna B V, A.H.Sequeira, Ph.D. | 2015-2016 | 5.06 Lakhs |
| Impediments to growth of Hospitality Sector - A Case study of South India | National Bank for Agricultural and Rural Development (NABARD) | Suprabha K.R, Ph.D. | 2015 | 8.76 Lakhs |

| | | | | |
|---|---|---------------|----------------------------------|------------|
| UGC Major Project Proposal on Mitigation of Tribal Suicides through Economic Empowerment: Evaluating the functional roles of the governments and NGOs in eradicating the social, educational and economic backwardness among the Paniyans of Kerala | University Grants Commission, New Delhi | Sheena, Ph.D. | 2 years (2014-16) | 6.02 Lakhs |
| Women Entrepreneurship and Tourism Development: A Study with special reference to SHGs in Karnataka and Kerala | The Indian Council of Social Science Research (ICSSR) | Sheena, Ph.D. | 1.5 years (Jan 2013 – July 2015) | 6 Lakhs |
| UGC Major Project Proposal on Mitigation of Tribal Suicides through Economic Empowerment: Evaluating the functional roles of the governments and NGOs in eradicating the social, educational and economic backwardness among the Paniyans of Kerala | University Grants Commission, New Delhi | Sheena, Ph.D. | 2 years (2014-16) | 6.02 Lakhs |

Department of Information Technology

Completed

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs) |
|---|-----------------------|---|-------------------|----------------------------|
| Content Based Video Copy Detection, Tracking and Preventing In-Theater Piracy | DST | G. R. M. Reddy, Sheena, Ph.D. Mrs. R Roopalakshmi (Women Scientist Scheme) | July'11-June 2014 | 18.2 Lakhs |

Department of Mathematical And Computational Sciences

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs) |
|---|---------------------------|--------------------------------|--|----------------------------|
| Topological structures for semiclosed operators on Hilbert spaces | SERC, DST, Govt. of India | P. Sam Johnson, Sheena, Ph.D. | Three years | 3 lakhs |
| A study on Moore-Penrose in Krein Spaces | NBHM, DAE, Govt. of India | P. Sam Johnson, Sheena, Ph.D. | Three years | 1.89 lakhs |
| On the solutions of Convection-Diffusion equations | NBHM, DAE, Govt. of India | Satyanarayana Engu | (sanctioned in Feb. 2015) Three years | 8.3 lakhs |

Department Of Mechanical Engg.

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs) |
|---|---|---|---------------------------|----------------------------|
| Investigation on Passive Damping Capability of Natural Fiber Reinforced Composite and Visco-elastic Sandwich Structures | SERB - DST | P. Jeyaraj, | Jan'13- Jan'16 | 11.39 Lakhs |
| Vibration based structural health monitoring and progressive failure analysis of a rotating tapered composite plate | Aeronautics Research and Development Board | R. Vasudevan (VIT University), Ph.D. and P. Jeyaraj, Ph.D. | | 8 Lakhs |
| Development of HVOF Sprayed Cermet Coatings in Improving Resistance to Hot Corrosion and Erosion of Gas Turbine Alloys | All India Council for Technical Education under Research Promotion Scheme | Ramesh M R, Ph.D. | March 2013- March 2016 | 18.10 Lakhs |
| Design, Fabrication and Characterization of Magneto-Rheological (MR) Dampers for Industrial Applications | SERB - DST | Hemantha kumar, Sheena, Ph.D. | July 2014- July 2017 | 20.84 Lakhs |
| Virtual Lab | NMEICT | K V Gangadharan, Ph.D., Panduranga Vittal, Ph.D., Vidhya Shetty,, Ph.D., Pruthviraj | 2010-2014 | 450 Lakhs |
| Remote triggered Lab | NMEICT | K V Gangadharan, Ph.D. Ravikiran Kadoli, Ph.D.Ph.D.Pruthviraj | 2012-2014 | 100 Lakhs |

| | | | | |
|--|------------------|-----------------------------|------------------------|------------|
| Centre for System Design | NI and MHRD/NITK | K V Gangadharan, Ph.D. | 2010-2015 | 500 Lakhs |
| Investigation of machining characteristics of TiNi based Shape Memory alloy using Wire-EDM | SERB | Prof. Narendranath, Ph.D. S | March 2014- March 2016 | 16.32Lakhs |

Department Of Mining Engineering

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs) |
|---|---|--|----------------------|----------------------------|
| 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. | 2 Years (2013-2015). | 14.3 Lakhs |
| Development of Crushing & Grinding Characteristic Curves for Different Rocks Using Insmart Crushers and Mills", | Insmart Systems Hyderabad | K. Ram Chandar, Ph.D. | 2015-2016 | 4.31 Lakhs |
| Scientific Study for Usage and Optimization of ANFO in OC Mines of SCCL | SCCL | V.R Sastry, Ph.D. | 2014-15 | 6 Lakhs |

Department of Metallurgical And Materials Engineering

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs) |
|--|---------------------------------------|---|---------------|----------------------------|
| Low Temperature Embrittlement (LTE) studies on SS304 LN Material | BARC | K. R. Hebbar , Ph.D. K. L. Bhat, Ph.D. K. R. Udupa, Ph.D. Jagannath Nayak, Ph.D. | 2005 | 22.0 Lakhs |
| Metallurgical Investigation on Thermally Aged SS304 LN welds | BRNS | K. Rajendra Udupa, Ph.D. Jagannath Nayak, Ph.D. | 2009 | 18,81,650 |
| Laser Shock Peening Technique for Surface Treatment of Welded SS Parts | Institute for Plasma Research (BRFST) | G. Umesh, Ph.D. K. R. Udupa, Ph.D. Udaya Bhat K., Ph.D. Sathyanarayan, Ph.D. | 2010 | 15.24 lakhs |

| | | | | |
|---|--|--|---------|-------------|
| Assessment of Solder Joint Reliability and Effect of Cooling Rate on Mechanical Properties of Lead free Solders | DRDO | K. N. Prabhu, Ph.D. | 2011 | 80.26 lakhs |
| Novel Nanocomposites from bio-degradable polymers and nano-structured fly ash | DST-SERB | Anandhan Srinivasan, Ph.D. | 2012 | 18.17 Lakhs |
| Friction Stir Processing of Steels for Surface Alloying and Wear Resistance | Ministry of Defence - Naval Research Board | Udaya Bhat K., Ph.D. | 2011 | 7,95,800 |
| Investigation of the effect of addition of nanoparticles on wetting kinematics, kinetics and cooling severity of quench media for industrial heat treatment | DST Research Project | K. N. Prabhu, Ph.D. | 2012 | 30.47 akhs |
| Extraction of Gold from Waste Printed Circuit Boards using Bacteria | KSCST Student Project | Students: Messrs. Abhishek S. Kashinath, Karthik, C. Padmashali Guide: Prof. A. O. Surendranathan | 2014-15 | 9000 |

Department of Physics

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs) |
|---|-----------------------|---|---------------|----------------------------|
| Mechanical & Thermal properties of B ₄ C | UGC-DAE CRS | Ajith K.M, Ph.D. | 3 years | 10 Lakhs |
| DST-FIST Research facility for Physics Department | DST | N. K. Udayashankar, Ph.D. & H. S. Nagaraja, Ph.D. | 5 years | 64 lakhs |
| DST-SERB-Si Electrodes for Li ion battery | DST-SERB | H.S.Nagaraja, Ph.D. & Ajith K.M., Ph.D. | 3 years | 43.57 Lakhs |

13.2 PROPOSED PLAN FOR RESEARCH

Department of Applied Mechanics & Hydraulics

| New Labs/ Equipment | Target for Sponsored R&D projects | New area of research | Institutions/Organisations for future collaborations |
|---------------------|-----------------------------------|----------------------|--|
| | | | <ul style="list-style-type: none"> Mou with NIH, Belguam MOU with IIRS, Dehradun |

Department of Civil Engineering

| New Labs/Equipment | Target for Sponsored R&D projects | New Areas of Research | Institutions/organizations for future collaborations |
|-----------------------------------|--------------------------------------|--|--|
| Environmental Geotechnology | | | IIT Mumbai, BARC |
| Rheology Laboratory | Department of Science and Technology | Visco-plastic and viscoplastic behaviour of construction materials | IIT Madras, Chennai. Central Road Research Laboratory, New Delhi |
| Geosynthetics Laboratory | - | Geosynthetics Engineering | - |
| Cyclic cum Static triaxial system | - | Cyclic behaviour of soils and reinforced soils | - |
| Environmental Engineering | CIFIPRA, DST, DBT, MoNRE | Environmental Biotechnology, Recombiant Technology | INRA-LBE, FRANCE, NEERI-Nagpur, IIT-Hydrabad |

Department of Computer Engineering

| New Labs/ Equipment | Target for Sponsored R&D projects | New Areas of Research | Institutions/ organizations for future collaborations |
|------------------------|-----------------------------------|---|---|
| Internet of Things | DST | Internet of things systems Architecture | Foreign universities and/or IITs/IISc. |
| Cyber-Physical Systems | CSIR | Resource Management | Foreign universities and/or IITs/IISc. |
| Cyber Security | DIT | Multimodel visual Security | Foreign universities and/or IITs/IISc. |
| Big Data Analytics | DST | Big Data | Foreign universities and/or IITs/IISc. |

Department of Chemistry

| Name of the Lab/Equipment | Target for sponsored R&D Projects | New Areas of Research | Institutes/Organizations for future collaborations |
|---|--|---|--|
| Organic Materials Lab. / Solar Stimulator with facilities for PV studies (AVA) | Target: DRDO New Organic Materials for Solar Cell applications | Dye Sensitized Solar Cells (both n- and p-type) and Tandem Cell | Prof. Yiyang Wu, Department of Chemistry, Columbus, The Ohio State University, Ohio, USA. Dr. Ahmed El Shafie Department of Chemistry- Textile Engg. Division, Raleigh, N.C. University, USA. |
| Augmentation of new facility "Multi-nuclear Magnetic Resonance Spectrometer, 500 MHz" (AVA) | DST – FIST (2015-2019) | NMR Analysis of ¹ H, ¹³ C, ³¹ P, ¹⁹ F, ¹⁵ N, ²⁷ Al, ²⁹ Si, ⁷⁷ Se, ¹¹⁹ Sn, ¹²⁵ Te, ¹⁹⁹ Hg, ⁵¹ V, ⁷ Li, etc. | - |
| Catalysis and Materials Laboratory (BRB) | DST-Nano Mission | Supercapacitors | SMaRT@UNSW, Australia, Northumbria University |

Department of Electrical And Electronics Engineering

| New Labs/Equipment | Target for Sponsored R&D projects | New Areas of Research | Institutions/organizations for future collaboration |
|--|---|---|---|
| AEPD analyser (part of it is procured using TEQIP-II funds for High Voltage laboratory) Coordinator: Dr G S Punekar | From DST | Partial discharge analysis of insulating oil | CPRI Bangalore |
| Array of multi-model sensors, DSP Processors Coordinator: Dr. Ashvini Chaturvedi | Development of Lab based prototype, research scholar guidance and publication | Data aggregation and networking for under water communication | NIO, Goa |
| (1) Investigations on protection techniques for DERs and Distribution system apparatus in Smart grid environments. | | | |

| | | | |
|--|--|------------|--|
| (2) power system relaying methodologies with the penetration of FACT devices Coordinator: Dr. K. P. vittal | | | |
| Development of microgrid with renewable and energy efficient generation systems along with energy storage devices Coordinator: Dr. D. N. Gaonkar | Ministry of power Govt of india through CPRI Bangalore | Smart grid | |
| Power System laboratory with real-time measurement support Coordinator: Dr. K. N. Shubhanga | | | |

Department of Humanities, Social Sciences and Management

| New Labs/Equipment | Target for Sponsored R&D projects | New Areas of Research | Institutions/organizations for future collaborations |
|---------------------------|--|--|---|
| Software, hardware | 3 | Analytics, information systems, E-marketing, Applied Economics | HEIG-VD , Northeastern University , USA |

Department of Information Technology

| New Labs/Equipment | Target for Sponsored R&D projects | New Areas of Research | Institutions/ organizations for future collaborations |
|--|--|---|--|
| Automated Semantic Analysis and Retrieval Frame Work | DST | Knowledge Engineering | Penn State University, USA |
| Agro-climatic Zone Specific Knowledge Management Systems for Sustainable Production of Coconut | ITRA | IT Based Transformations | CPCRI, Kasargod |
| Affective & Human Centered Computing | DST | Affective Computing Bio-Inspired Green IT | Affective Computing Lab, MIT, USA |

| | | | |
|--|-----|--|-----------------------------------|
| Bio-inspired QoS Aware Green Cloud IT | DIT | Affective Computing Bio-Inspired Green IT | The Univ. of Melbourne, Australia |
|--|-----|--|-----------------------------------|

Department of Mechanical Engineering

| New labs/ Equipment | Target for sponsored R&D projects | New Areas of Research | Institute/Organizations for future collaborations |
|--|--|---|---|
| Natural circulation loop for carbon dioxide | DST | Nanofluids, Cryogenics, Renewable Energy | IIT Kharagpur |
| Developing material characterization lab | | Accumulative roll bonding | NAL, CPRI |
| Sound level meter Ultrasonicator Mechanical shaker | One ARDB project One DST project | Polymer nano composites fabrication and testing for dynamic studies | IIT Madras, Concordia University |
| Friction Stir Welding Laboratory and facilities Lubrication Testing Laboratory and testing Equipment. | | Nano Composites Nano Tribology Friction Stir Welding | Indian Institute of Science, Bangalore. ITMMEC, Indian Institute of Technology, Delhi, |
| Compressor cascade wind tunnel with water injection facility | SERB/DST | Aeroelasticity | IIST, Thiruvananthapuram |

Department of Mining Engineering

| New Labs/ Equipment | Target for Sponsored R&D projects | New Areas of Research | Institutions/ organizations for future collaborations |
|--|--|------------------------------|--|
| Modernization of Rock Mechanics Laboratory | 30.00 Lakhs | Slope stability | CIL |
| Development of Mine Safety & Health | 20.00 Lakhs | Mine Safety | SCCL |

Department of Metallurgical And Materials Engineering

| New Labs/Equipment | Target for Sponsored R&D projects | New Areas of Research | Institutions/organizations for future collaborations |
|---|--|--|--|
| 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 |

Department of Physics

| New Labs/Equipment | Target for Sponsored R&D projects | New Areas of Research | Institutions/organizations for future collaborations |
|---------------------------|--|------------------------------|---|
| Computer Laboratory | | Computational Physics | |

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 | 59 | 05 | 27 | 28 | 119 |
| 2. | Chemical Engineering | 25 | 00 | 09 | 08 | 42 |
| 3. | Chemistry | 52 | 00 | 16 | 02 | 70 |
| 4. | Civil Engineering | 19 | 04 | 31 | 10 | 64 |
| 5. | Computer Engineering | 27 | 00 | 40 | 03 | 70 |

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|-----|--|------------|-----------|------------|-----------|------------|
| 6. | Electrical and Electronics Engineering | 22 | 04 | 27 | 10 | 63 |
| 7. | Electronics & Communication Engineering | 04 | 00 | 18 | 01 | 23 |
| 8. | Humanities, Social Sciences and Management | 08 | 02 | 19 | 06 | 35 |
| 9. | Information Technology | 11 | 00 | 57 | 00 | 68 |
| 10. | Mathematical and Computational Sciences | 38 | 00 | 09 | 00 | 47 |
| 11. | Mechanical Engineering | 57 | 00 | 39 | 00 | 96 |
| 12. | Metallurgical And Materials Engineering | 55 | 04 | 10 | 08 | 77 |
| 13. | Mining Engineering | 06 | 01 | 02 | 04 | 13 |
| 14. | Physics | 11 | 00 | 05 | 03 | 19 |
| | Grand Total | 394 | 20 | 309 | 83 | 806 |

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

| Sl. No. | Title of paper | Journal name. Vol. Issue, Page No.s | Author(s) |
|---------|--|--|---|
| 1 | Prediction of ground water levels in uplands of coastal tropical riparian using PSO-SVM | special issue of IJED on coastal wetlands, vol. 29, issue 3, 2014, pp 79-86 | A V Hegde, Vishnu S Das, and S J Nyamathi |
| 2 | Numerical modelling of oil spill in the proximity of Krishna Godavari coastal wetlands | special issue of IJED on coastal wetlands, vol. 29, issue 3, 2014, pp 44-53 | A V Hegde and Labeeb C K. |
| 3 | Transmission Performance of Submerged Semicircular Breakwaters for different Radii and Submergence Ratios | International Journal of Ocean and Climate Systems, Vol. 5, No. 3, September 2014 | A V Hegde and S M Naseeb |
| 4 | Reflection and Dissipation Characteristics of Non-overtopping Quarter Circle Breakwater with Low-mound Rubble Base | International Journal of Advance Research in Ocean Engineering, Korea, Vol. 1, No. 1, pp 44-54, 2015 | Balakrishna K, Arkal Vittal Hegde and Binumol. S |
| 5 | Prediction of Hydrodynamic Characteristics of Quarter Circular Breakwater using Stepwise Regression | International Journal of Ocean and Climate Systems, IJOCS, Vol. 6, No. 1, 2015 | Rushil Goyal, Kriti singh, A V Hegde, and G S Takur |

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| 6 | Multiple linear Regression model for predicting wave transmission in HIMMFPB | Aquatic Procedia (Elsevier), Vol. 4 (2015) | A.V. Hegde and Vishnu S |
| 7 | Computational Intelligence for predicting wave transmission in HIMMFPB | Aquatic Procedia (Elsevier), Vol. 4 (2015) | A.V. Hegde and Vishnu S Das |
| 8 | Runup and Rundown characteristics of an emerged seaside perforated quarter circle breakwater | Aquatic Procedia (Elsevier), Vol. 4 (2015) | Binumol S., Subba Rao, Arkal Vittal Hegde |
| 9 | Shoreline Transformation Study of Karnataka Coast: Geospatial Approach | Aquatic Procedia (Elsevier), Vol. 4 (2015) | Arkal Vittal Hegde, B J Akshaya |
| 10 | A Review of Quality Metrics for Fused Image | Aquatic Procedia (Elsevier), Vol. 4 (2015) | Jagalingam P., and Arkal Vittal Hegde |
| 11 | Pixel Level Image Fusion–A Review on Various Techniques | 3rd World Conference on Applied Sciences, Engineering & Technology, 27-29 September 2014, Kathmandu, Nepal | Vittal Hegde and Jagalingam P |
| 12 | Effect of Relative Time Period on Mooring Forces of Floating Pipe Breakwater with Relative Spacing of Three | Aquatic Procedia (Elsevier), Vol. 4 (2015) | Kiran Kamath, Arkal Vittal Hegde, K. Balakrishna Rao |
| 13 | Influence of Relative Draft on Transmission Characteristics of Floating Pipe Breakwater with Relative Spacing of Three | Aquatic Procedia (Elsevier), Vol. 4 (2015) | Kiran Kamath, Arkal Vittal Hegde, K. Balakrishna Rao |
| 14 | Wave Reflection by Emerged Seaside Perforated Quarter-Circle Breakwater | International Journal of Earth Sciences and Engineering (IJEE), Vol. 7, No. 2, April 2014. pp 454-460. 2014 | Hafeeda V, Binumol S, A V Hegde and Subba Rao |
| 15 | Development of regional flood formulas for predictions in ungauged basins of Upper Krishna River basin | International Journal of Global Initiatives, 3(1), A78-A95, 2014 | Manoj Mujumdar, Thorvat A.R. and L. Nandagiri |
| 16 | Latent heat flux estimation using trapezoidal relationship between MODIS land surface temperature and fraction of vegetation – Application and validation in a humid tropical region | Remote Sensing Letters, 5(11), 982-991, 2014 | Keerthi Laxmi and L. Nandagiri |
| 17 | Identification of hydrologically active areas in a watershed using satellite data | Aquatic Procedia (Elsevier), 4 (2015), 1339-1344, 2015 | Kumar Raju B. C. and L. Nandagiri |

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| 18 | Evaluation of economic value of Pilikula Lake using travel cost and contingent valuation methods | Aquatic Procedia (Elsevier), 4 (2015), 1315-1321, 2015 | Jala and L. Nandagiri |
| 19 | Analysis of temporal stability of observed soil moisture under plantation forest in Western Ghats of India | Aquatic Procedia (Elsevier), 4 (2015), 601-608, 2015 | Venkatesh B., L. Nandagiri and Purandara B. K. |
| 20 | Mapping Agewise Discrimination of ARECANUT Crop Water Requirement Using Hyperspectral Remote Sensing | ELSEVIER, as Aquatic Procedia 4 (2015) 1437-1444 | Bhojaraj B E, Gaurav Hegde, Pruthviraj U, Ambashetty and Nagaraj M K |
| 21 | Parameter Optimization using GA in SVM to Predict Damage Level of Non- Reshaped Berm Breakwater | International Journal of Climate and Ocean Systems, Multi-Science publications,UK, Volume 5, No. 2,pp 79-88, (ISSN 1759-3131). | Harish, N., Lokesh, Mandal, S., Rao S. and Patil, S.G. |
| 22 | 2D And 3D Analysis of a Diaphragm Wall Type Berthing Structure under Static Loading | International Journal of Scientific Engineering and Technology (IJSET), Special Issue, pp 371-375, (ISSN 2277-1581). | Yajnheswaran. B., Ranjan. and Subba Rao |
| 23 | Particle swarm optimization based support vector machine for damage level prediction of non-reshaped berm breakwater | Applied soft computing, Elsevier Publications, Vol. 27, pp 313-321, | Harish, N., Mandal, S., Subba Rao. and Patil, S.G |
| 24 | A Review on Development of Minor Ports to Improve the Economy of Developing Country | Aquatic Procedia (Elsevier), Vol. 4 (2015), pp 256 – 263 (ISSN 2214-241X) | Geetha Kuntoji and Subba Rao |
| 25 | Effect of Artificial Sea Grass on Wave Attenuation- An Experimental Investigation | Aquatic Procedia (Elsevier), Vol. 4 (2015), pp 221 – 226 (ISSN 2214-241X). | Beena Mary John., Kiran G Shirlal. and Subba Rao |
| 26 | Performance of Variable Selection Method for the Damage Level Prediction of Reshaped Berm Breakwater | Aquatic Procedia (Elsevier), Vol. 4 (2015), pp 302 – 307 (ISSN 2214-241X) | Prashanth Janardhan., N. Harish., Subba Rao. and Kiran G Shirlal |
| 27 | Analysis of the Effect of Anchor Rod on the Behavior of Diaphragm Wall Using Plaxis 3d | Aquatic Procedia (Elsevier), Vol. 4 (2015), pp 302 – 307 (ISSN 2214-241X) | Yajnheswaran,H.S. Ranjan. and Subba Rao |
| 28 | Runup and Rundown Characteristics of an Emerged Seaside Perforated Quarter Circle Breakwater | Aquatic Procedia (Elsevier), Vol. 4 (2015), pp 234 – 239 (ISSN 2214-241X) | S. Binumol., Subba Rao. and Arkal Vittal Hegde |

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| 29 | Wave Prediction Using Neural Networks at New Mangalore Port along West Coast of India | Aquatic Procedia, International Conference on Water Resources, Coastal and Ocean Engineering (ICWRCOE'15), Vol. 4, pp. 143-150 | Deepthi I Gopinath and Dwarakish G S |
| 30 | Satellite Oceanography: A Review | Aquatic Procedia, International Conference on Water Resources, Coastal and Ocean Engineering (ICWRCOE'15), Vol. 4, pp. 165-172 | R. Rajeesh and Dwarakish G S |
| 31 | Review on the role of Ports in the Development of a Nation | Aquatic Procedia, International Conference on Water Resources, Coastal and Ocean Engineering (ICWRCOE'15), Vol. 4, pp. 295-301 | Dwarakish G S and Akhil Muhammad Salim |
| 32 | Coastal Pollution: A Review, Aquatic Procedia | Aquatic Procedia, International Conference on Water Resources, Coastal and Ocean Engineering (ICWRCOE'15), Vol. 4, pp. 381-388 | M. Vikas and Dwarakish G S |
| 33 | Numerical wave modelling – A review | Aquatic Procedia, International Conference on Water Resources, Coastal and Ocean Engineering (ICWRCOE'15), Vol. 4, pp. 443-448. | Justin Thomas T and Dwarakish G S |
| 34 | Automatic Shoreline Detection and Change Detection Analysis of Netravati-Gurpur Rivermouth using Histogram Equalization and Adaptive Thresholding Techniques | Aquatic Procedia, International Conference on Water Resources, Coastal and Ocean Engineering (ICWRCOE'15), Vol. 4, pp. 563-570. | Raju A, Dwarakish G S and Venkat Reddy D |
| 35 | Applications Of Remote Sensing In Satellite Oceanography: A Review | Aquatic Procedia, International Conference on Water Resources, Coastal and Ocean Engineering (ICWRCOE'15), Vol. 4, pp. 579-584.[Got the Young Scientist award for the presentation-ICWRCOE'15]. | Gayathri K Devi, Ganasri B P and Dwarakish G |
| 36 | Different Approach for Using Trap Efficiency for Estimation of Reservoir Sedimentation. An Overview | Aquatic Procedia, International Conference on Water Resources, Coastal and Ocean Engineering (ICWRCOE'15), Vol. 4, pp. 847-852 | Arega Mulu and Dwarakish G. S |
| 37 | A Review on Hydrological Models | Aquatic Procedia, International Conference on Water Resources, | Gayathri K Devi, Ganasri B P and |

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| | | Coastal and Ocean Engineering (ICWRCOE'15), Vol. 4, pp. 1001-1007 | Dwarakish G S |
| 38 | Study of Land Use/Land Cover Dynamics through Classification Algorithms for Harangi Catchment Area, Karnataka State, INDIA | Aquatic Procedia, International Conference on Water Resources, Coastal and Ocean Engineering (ICWRCOE'15), Vol. 4, pp. 1413-1420 | Ganasri B P and Dwarakish G S |
| 39 | Temporal Analysis of Spatial Distribution of Built-Up Area in Peri-Urban Areas of Cochin, Kerala: Case-Study of Sub-Watershed in Periyar River | Aquatic Procedia, International Conference on Water Resources, Coastal and Ocean Engineering (ICWRCOE'15), Vol. 4, pp. 1445-1451 | Preeti Jacob and Dwarakish G S |
| 40 | Long Term Study of Sediment Dynamics Along Mangalore Coast, West Coast of India Using Sediment Trend Analysis | Aquatic Procedia, International Conference on Water Resources, Coastal and Ocean Engineering (ICWRCOE'15), Vol. 4, pp. 1545-1552 | P. Sri Ram Kumar, Dwarakish G S, N Nujuma and D I Gopinath |
| 41 | Tidal-Level Forecasting Using Artificial Neural Net-works along West Coast of India | Japan Society of Civil Engineers (JSCE) Vol. 2, pp. 176-187 | Rakshith, S. and Dwarakish, G. S. and Usha Natesan |
| 42 | An open-source web-GIS application for prioritization and conservation of Sacred Groves of Kodagu district of Karnataka | Int. Journal of Applied Sciences and Engineering Research, Vo. 3, No. 4, pp. 763-775 | Shushma Shashi.B, Dwarakish G. S., Kiran K.B. |
| 43 | Parametric studies on saltwater intrusion into coastal aquifers for anticipated sea level rise | Elsevier Aquatic Procedia 4, 103-108 | Priyanka BN and A.Mahesha |
| 44 | Simulation of saltwater intrusion in a coastal aquifer in Karnataka, India | Elsevier Aquatic Procedia 4, 700-705 | Lathashri UA and A.Mahesha |
| 45 | Saltwater intrusion in coastal aquifers subjected to freshwater pumping | J. Hydrologic Engg., (ASCE), 19(2), 448-456 | Mahesha, A. and Lakshmikant |
| 46 | Analysis of vulnerability Assessment in the coastal Dakshina Kannada district, Mulky to Talapady area, Karnataka | International J. Computational Engg. Research, 4(5), 19-24 | Honnanagoudar, S.S., DV Reddy and A.Mahesha |
| 47 | Prediction of daily Pan evaporation using Support Vector Machine | International journal of Earth sciences and Engineering (ISSN-0974-5904) February'2014, Vol-7(1)pp..195-202 | Leeladhar Pammar and Paresch Chandra Deka |
| 48 | Support Vector Applications in the field of hydrology-a review | Applied Soft Computing (ELSEVIER),19(2014),pp.372- | Sujay Raghavendra and Paresch Chandra Deka |

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| | | 386.Impact factor=2.52.Published online 4 th March2014 | |
| 49 | Forecasting monthly groundwater level fluctuations in coastal aquifer using hybrid wavelet packet-support vector regression | Cogent Engineering journal,vol.2(1),published online 20 th January2015,part of Taylor and Francis group,pp.1-22 | Sujay Raghavendra and Paresch Chandra Deka |
| 50 | Subpixel Mineral Mapping Using EO-1 Hyperion Hyperspectral Data | The international Archives of the Photogrammetry , Remote Sensing and Spatial Information Sciences, Volume XCL-8, 2014 Doi:10.5194/isprsarchives XL-8-455-2014 | Chandan Kumar, Amba Shetty, Simit Raval Richa Upadhyay , P. K. Champatiray |
| 51 | Prediction of topsoil nitrogen from spaceborne hyperspectral data | Geocato International, Taylor and Francis publications, doi: 10.1080/10106049.2014. 894585. IF=0.9 | Gopal, B., Shetty, A, Ramya, B. J. |
| 52 | Study on Performance of Savonius rotor type Wave Energy Converter used in conjunction with Conventional Rubble Mound Breakwater | Journal of Ocean Engineering (Elsevier), 89, 62-68. (IF:1.625). | Bikas, G. S., Ramesh, H and Vijaykumar, H. |
| 53 | Prediction of daily Pan evaporation using Support Vector Machine | International journal of Earth sciences and Engineering (ISSN-0974-5904) February'2014, Vol-7(1)pp..195-202 | Leeladhar Pammar and Paresch Chandra Deka |
| 54 | Support Vector Applications in the field of hydrology-a review | Applied Soft Computing (ELSEVIER),19(2014),pp.372-386.Impact factor=2.52.Published online 4 th March2014 | Sujay Raghavendra and Paresch Chandra Deka |
| 55 | Forecasting monthly groundwater level fluctuations in coastal aquifer using hybrid wavelet packet-support vector regression | Cogent Engineering journal,vol.2(1),published online 20 th January2015,part of Taylor and Francis group,pp.1-22 | Sujay Raghavendra and Paresch Chandra Deka |
| 56 | Mapping Agewise Discrimination of Arecanut Crop Water Requirement Using Hyperspectral Remote Sensing | Aquatic Procedia Volume 4, 2015, Pages 1437–1444 | B.E. Bhojaraja, , Gaurav Hegde, U. Pruthviraj, Amba Shetty |
| 57 | A numerical modeling approach for study of mudbank impact on coastline | Oceans - St. John's, 2014 , vol., no., pp.1,5, 14-19 Sept. 2014 doi: 10.1109/OCEANS.2014.7003115, IEEE. (Canada). | Parvathy K G, Ramesh H, Noujas V, Thomas K V |

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| 58 | Impact of mudbanks on coastal dynamics | Journal of Aquatic Proceedia, Elsevier. 4, 1514 – 1521. | Parvathy K G, Ramesh H, Noujas V, Thomas K V |
| 59 | study of seawater intrusion in coastal aquifer by electrical conductivity and total dissolved solid method in Gurpur and Netravathi river basin | Journal of Aquatic Proceedia, Elsevier, 4, 57-64. Won the best paper award | Konstantin J. Sylus and H. Ramesh |

Department of Chemical Engineering

| Sl. No. | Title of Paper | Journal Name, Vol., Issue, Page Nos. Date of Publication | Author(s) |
|----------------|--|---|---|
| 1 | Synthesis of silver nanoparticles using medicinal Zizyphus xylopyrus bark extract | Applied Nanoscience (2014): 1-8 , November 04, 2014 Publisher Springer | Sumi Maria Babu, Aishwarya Devadiaga, Vidya Shetty K, MB Saidutta |
| 2 | Urea Concentration Profiles from Kokum Wax Coated Briquettes | Universal Journal of Agricultural Research (2), 43 – 44, 2014. | M R Bhat, D V R Murthy, M B Saidutta, S Reddivari, |
| 3 | Biological Denitrification with Immobilized Pseudomonas Syringae on Granular Activated Carbon using three Phase Draft Tube Spouted Bed Reactor | International Journal of Current Engineering and Technology , 2014, Vol.4, Issue 5, Pages 3304-3309 Publisher INPRESSCO | Keshava Joshi, Reshma Rajan, G Srinikethan, MB Saidutta |
| 4 | Isolation and characterization of Pseudomonas Syringae for nitrate removal under aerobic conditions | Journal of Biochemical Technology 2014/5/5, Vol.5, Issue 2, Pages 693-697 | Keshava Joshi, Josna Joseph, MB Saidutta |
| 5 | Studies on Biosorption of Methylene Blue from Aqueous Solutions by Powdered Palm Tree Flower (Borassus flabellifer) | International Journal of Chemical Engineering (2014) Volume 2014 (2014), Article ID 306519, 13 pages http://dx.doi.org/10.1155/2014/306519 | M. Srinivas Kini, MB Saidutta, V.Ramachandra Murthy |
| 6 | Solar light induced photocatalytic degradation of Reactive Blue 220 (RB-220) dye with highly efficient Ag@TiO ₂ core-shell nanoparticles: A comparison with UV photocatalysis | Solar Energy. 99, 67–76 Impact factor:2.952 (2014) | A. Khanna, V.K. Shetty, |

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| 7 | Reduction of hexavalent chromium by a novel <i>Ochrobactrum</i> sp. -microbial characteristics and reduction kinetics. | J Basic Microbiol. 54(4)296-305. doi:10.1002/jobm.201200183 Impact factor:1.198 (2014) | Narayani M, VidyaShetty K |
| 8 | Partial Purification and Characterization of Chromate Reductase of a Novel <i>Ochrobactrum</i> sp. Strain Cr-B4 | Preparative Biochemistry and Biotechnology DOI: 10.1080/10826068.2014.952385 | Anuradha Hora, Vidya Shetty K |
| 9 | Inhibitory and stimulating effect of single and multi-metal ions on hexavalent chromium reduction by <i>Acinetobacter</i> sp. Cr-B2. | World J Microbiol Biotechnol. 30(12):3211-9. doi: 10.1007/s11274-014-1748-3 | Anuradha Hora, Vidya Shetty K |
| 10 | Solar light-driven photocatalytic degradation of Anthraquinone dye-contaminated water by engineered Ag@TiO ₂ core-shell nanoparticles | Desalination and Water treatment. DOI:10.1080/19443994.2014.888681-(Taylor & Francis) Impact factor:0.852 | Ankita Khanna, Vidya Shetty K |
| 11 | Pathway Identification, Enzyme Activity And Kinetic Study For The Biodegradation Of Phenol By <i>Nocardia hydrocarbonoxydans</i> NCIM 2386 | <i>Desalination and Water Treatment-Accepted Manuscript ID: 1030700</i> (March 2015) Impact factor:0.987 | Gauthami R Shetty ,Vidya Shetty K |
| 12 | Kinetics of bioreduction of hexavalent chromium by poly vinyl alcohol-alginate immobilized cells of <i>Ochrobactrum</i> sp. Cr-B4 and comparison with free cells | <i>Desalination and Water Treatment-Accepted Manuscript ID: 1030704</i> (March 2015) Impact factor:0.987 | Anuradha Hora, Vidya Shetty K, |
| 13 | Shear stress effects on production of exopolymeric substances and biofilm characteristics during phenol biodegradation by immobilized <i>pseudomonas desmolyticum</i> (NCIM2112) cells in a pulsed plate bioreactor. | Preparative Biochemistry and Biotechnology. Accepted for publication on 16 Th March 2015 Impact factor:_0.699 | Veena B.R, Vidya Shetty K, Saidutta M.B, |
| 14 | Interaction of Heavy Metals in Multimetal Biosorption by <i>Galerina vittiformis</i> from Soil, | Bioremediation Journal, 19:56-68, 2015 Impact factor:0.714 | Dilna Damodaran, Vidya Shetty, and Raj Mohan Balakrishnan, |

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| 15 | Uptake of certain heavy metals from contaminated soil by mushroom - <i>Galerinavittiformis</i> . | <i>Ecotoxicology and Environmental Safety</i> . 104:414-422 Impact factor:2.203 (2014) | Dilnadamodaran, Raj Mohan B. Vidya Shetty K, |
| 16 | Purification of Glutaminase from <i>Zygosaccharomycesrouxii</i> in Polyethylene Glycol– Sodium Sulphate Aqueous Two-Phase System | Separation Science and Technology, 2014 | B Sowmya,I Regupathi, BD Prasanna |
| 17 | Refining of edible oils: A critical appraisal | International Journal of Food Science and Technology 2014 | Vaisali.C, Charanyaasampath, Prasanna D. Belur, RegupathiIyyaswami |
| 18 | Recovery and Partial Purification of Bovine α -Lactalbumin from Whey using Aqueous Two Phase Systems | Separation Science and Technology 2014 | Kalaivani Sivakumar, RegupathiIyyaswami |
| 19 | Aqueous two phase partitioning of fish proteins: partitioning studies and ATPS evaluation | Journal of Food Science and Technology 2014 | Vishwanatha H Nagaraja, RegupathiIyyaswami |
| 20 | Studies on Aqueous Two Phase Partitioning of α -Lactalbumin and β -Lactoglobulin in Poly (ethylene glycol) – Salt Systems | Journal of Chemical Engineering Research 2014 | Kalaivani S, Surya S, Regupathi I |
| 21 | Role of N-vinyl-2-pyrrolidinone on the thermoresponsive behavior of PNIPAm hydrogel and its release kinetics using dye and vitamin-B12 as model drug | Journal of Biomaterials Science, Polymer Edition 25 (3), 269-286. (2014) | B Maheswari, PE Jagadeesh Babu, M Agarwal |
| 22 | Enhancement of a novel extracellular uricase production by media optimization and partial purification by aqueous three phase system | Preparative Biochemistry and Biotechnology (2014) 45:8, 810-824. | Senthur R, Raval K., Jagdeeshbabu P.E. |
| 23 | Psidium Guajava Leaf Extract as Green Corrosion Inhibitor for Mild steel in Phosphoric Acid | Int. J. Electrochem. Sci., 10 (2015) 2220 - 2238 | S. Noyel Victoria, , Rohith Prasad, R. Manivannan, |

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| 24 | Simple onepot sonochemical synthesis of copper sulphide nanoparticles for solar cell applications | accepted in Arab. J. Chem.(2015) | Alok K Singh, Manivannan R, Noyel Victoria S, |
| 25 | Characterization of Heat transfer of large orbitally shaken cylindrical bioreactors | Biochemical Engineering Journal (2014) | Keyur Raval, Wolf Klockner, Jochen Buechs, |

Department of Civil Engineering

| Sl. No. | Title of paper | Journal Name, Vol., Issue, Page Nos. | Author(s) |
|----------------|--|--|--|
| 1 | Load settlement characteristics of reinforced and unreinforced foundation soil | International Journal of Engineering Research and Technology (IJERT) (ISSN:2278-0181), Vol.3, issue 05, May 2014 | Rajkumar Manisana, Nayana N. Patil, Rajashekhar Swamy, H.M. and Shivashankar, R. |
| 2 | Effects of prestressing the reinforcement on the behaviour of reinforced granular beds overlying weak soil | <i>Geotextiles and Geomembranes</i> , http://dx.doi.org/10.1016/j.geotexmem.2013.08.008 , Vol.42, issue 1, year 2014, pp.69-75, Elsevier Publishers | Shivashankar, R. and Jayaraj, J. |
| 3 | Time history analysis of piled raft foundations of chimney considering the flexibility of soil | ACEEE-IJRTET journal, http://ijrtet.theaceee.org/ , Paper ID EA1024-IJRTET | Jisha, S.V., Jayalekshmi, B. R., Shivashankar, R. and Soorya Narayana,S. |
| 4 | Study of Surface Displacement on Tunnelling under Buildings using 3DEC Numerical Modelling | (ISRN) Journal, Vol. 2014 (2014), Article ID 828792, Hindawi Publishers,. doi: 10.1155/2014/828792, http://www.hindawi.com/journals/iisrn/2014/828792/13 pages | Nalini Elizabeth Rebello, Vedala Sastry and R Shivashankar |
| 5 | Dynamic soil-structure interaction studies on 275 m tall RC chimney with openings | Intl journal of Earthquakes and Structures, Vol.7, No.2(2014), pp.233-250, Technopress publications, EAS 7-2 (August 2014) DOI: http://dx.doi.org/10.12989/eas.2014.7.2.233 | Jayalekshmi, B. R., Ansu Thomas and Shivashankar, R. |
| 6 | Numerical modelling study of behaviour of consolidated strata around tunnel | Science, Technology Arts Research Journal, A peer reviewed Intl. journal of Wollega Uni., Ethiopia, pp.190-196 | Nalini Rebello, Vedala Rama Sastry and R. Shivashankar |

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| 7 | Response in piled raft foundation of tall chimneys under along-wind load incorporating flexibility of soil | Frontiers of structural and civil engineering journal, Springer (Accepted) | Jisha, S.V., Jayalekshmi, B. R., and Shivashankar, R. |
| 8 | Wind load analysis of tall chimneys with piled raft foundation considering the flexibility of soil | accepted for publication in International Journal of Advanced Structural Engineering, Springer publishers (DOI) 10.1007/s40091-015-0085-6 | Jisha, S. V., Jayalekshmi, B. R. and Shivashankar, R. |
| 9 | Fenton and Photo-Fenton Oxidation Processes for Degradation of 3-Aminopyridine from Water" | APCBEE Procedia 9 (2014) 25 – 29 | Rahul S.Karale, Basavaraju Manu and S.Shrihari |
| 10 | Reuse of Incinerated Textile Mill Sludge as Adsorbent for Dye Removal | KSCE Journal of Civil Engineering, www.springer.com/12205; February, pp. 1-5. | Shrikant S Jahagirdar, Surathkal Shrihari, Basavarju Manu |
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| 3 | Isolation and characterization of cellulose microfibrils from agricultural residue- <i>Jatropha Curcas</i> L seed shell. | International Conference on Polymer Composites, NITK Surathkal, India held on 19-20 December 2014 | Manjula M, Srinikethan G, Vidya Shetty K |
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| 29 | Phosphate absorption on heat activated Laterite Soil And Activated Carbon Produced From Wasted Activated Sludge | <i>International Conference On Sustainable Energy And Built Environment, VIT, India (March 2015) [Best Paper Award]</i> | Uthra S Kumar and Arun Kumar Thalla (2015) |
| 30 | Performance evaluation of Sequencing Batch Moving Bed Biofilm Reactor Using Synthetic Wastewater | <i>International Conference On Sustainable Energy And Built Environment, VIT, India (March 2015)</i> | Manu D S and Arun Kumar Thalla |
| 31 | Application of Geo-informatics technology and electrical survey for the study of disaster impact on earth resources due to lightning. | Proceedings of the 17th International Conference of India Geospatial Forum-2015, Hyderabad, February 2015. | Lokesh, K.N., Naveenchandra, Usha and Gangadhara Bhat. |

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| 2. | Analysis of sfqCoDel for Active Queue Management | Fifth International Conference on Applications of Digital Information and Web Technologies (ICADIWT 2014) | Preethi Rao, Mohit P. Tahiliani, Uday Kumar Shenoy |
| 3. | Experimental Analysis of CUBIC TCP in Error Prone MANETs | Fifth International Conference on Applications of Digital Information and Web Technologies (ICADIWT 2014) | Deepa Kumari, Mohit P. Tahiliani, Uday Kumar Shenoy |
| 4. | Stormgen - A Domain specific language to create Ad-Hoc Storm Topologies | International Conference, 10 th in the series, 2014 | Siddharth Santurkar, Abhishek Arora and K Chandrasekaran |
| 5. | Repetition Detection in Stuttered Speech | 3rd International Conference on Advanced Computing, Networking and Informatics (ICACNI-2015) | Pravin B Ramteke, Shashidhar G Koolagudi, and Fathima Afroz |
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| 7. | Single image super resolution from compressive samples using two level sparsity based econstruction | International Conference on Information and Communication Technologies(ICICT 2014) | Aneesh G Nath, Madhu S Nair, Jeny Rajan |
| 8. | Technological Perspectives of Inclusive Education and its challenges | International Conference on Inclusive Education – Perspectives and challenges, 6- 7 March, 2015 | M. Jagadeesh |

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| 10. | Hierarchical Homomorphic Encryption Based Privacy Preserving Distributed Association Rule Mining | International Conference on Information Technology (ICIT 2014),PP: 379-385, Dec 2014 | Shubhra Rana, P. Santhi Thilagam |
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| 12. | A broker based approach for cloud provider selection.2014 International Conference on Advances in Computing, Communications and Informatics | (ICACCI 2014): pp.1252-1257, Nov 2014 | Raghavendra Achar, P. Santhi Thilagam |
| 13. | Service Optimization in Cloud using Family Gene Technology | 3rd International Conference on Advances in Computing, Communications and Informatics (ICACCI 2014) Noida, Delhi, 1152 - 1157 | Alaka Ananth and K. Chandrasekaran |
| 14. | Game Theoretic Approaches for Job Scheduling in Cloud Computing: A Survey | 5th International Conference on Computer and Communication Technology (ICCCT 2014), MNNIT, Allahabad, PP: 79 - 85 | Alaka Ananth and K. Chandrasekaran |
| 15. | A Perspective Study of Virtual Machine Migration | 3rd International Conference on Advances in Computing, Communications and Informatics (ICACCI 2014), Noida, Delhi, 1499-1503 | Christina Terese Joseph, K. Chandrasekaran and Robin Cyriac |

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| 17. | A Novel Family Genetic Approach for Virtual Machine Allocation | International Conference on Information and Communication Technologies (ICICT- 2014), Kochi | Christina Terese Joseph, K. Chandrasekaran and Robin Cyriac |
| 18. | Securing Cloud Workflows Using Aggressive Chinese Wall Security Policy | First International Conference on Networks & Soft Computing, 2014, pp:85-91 | Anupa J, K. Chandra Sekaran |
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| 20. | Study and Analysis of Various Task Scheduling Algorithms in the Cloud Computing Environment | 3rd International Conference on Advances in Computing, Communications and Informatics (ICACCI-2014) | Teena Mathew, K. Chandra Sekaran, John Jose |
| 21. | Mobile Single Sign-On Solution for Enterprise Cloud Applications | First International Conference on Networks & Soft Computing, 2014 | Spoorthi V, K. Chandrasekaran |
| 22. | Trust Models in Cloud: A Survey on Pros and Cons | New Trends in Networking, Computing, E-learning, Systems Sciences, and Engineering Lecture Notes in Electrical Engineering, 2014, Volume 312 (Springer) | Usha Divakarla., K. Chandrasekaran |
| 23. | Autonomic SLA Management in Cloud Computing Services | Second International Conference on Security in Computer Networks and Distributed Systems (SNDS-2014), IIITM-Kerala, 151-159 | Anithakumari S and K Chandrasekaran |

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| 26. | A Game Theoretic Approach to a Self Managing Mooc Based Distributed System | 2 nd IEEE Conference on Moocs, Innovation and Technology in Education, Thapar University, Patiala, India, 2014, 187-192 | Nimisha Sharath, Shivani Snehal Parikh and K. Chandrasekaran |
| 27. | Bat Algorithm for Scheduling Workflow Applications in Cloud | International Conference on Electronic Design Computer Networks and Automated Verification (EDCAV 2015) pp: 139-144 | S. Raghavan, Marimuthu C, Sarwesh P and K. Chandrasekaran |
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| 29. | An Approach To Reduce Vehicular Congestion | 9th International Conference on Intelligent Systems and Control (ISCO 2015), Karpagam College of Engineering | Aathira T Dev, S Udhayavene, K Chandrasekaran |
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| 31. | A Green Greedy Process Scheduler for Cloud Data Centers | 1 st International Conference on Contemporary Computing and Informatics, Mysore, India, 1302-1309. | C Karthik, Aayush Gupta, K Chandrasekaran |

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| 33. | Cluster Based Routing in NDN | 12th International Conference on Information Technology - New Generations (ITNG), Las Vegas, USA. | Gaurav Verma, Arun Nandewal, K Chandrasekaran |
| 34. | CybrOS: Virtual Cloud Operating System | International Conference on Current Trends in Advanced Computing (ICCTAC 2015), | Shubham Badal, Vishal Kumar Sah, K Chandrasekaran |
| 35. | IntelliSearch:A Search Engine based on Big Data Analytics integrated with Crowdsourcing and category-based search | International Conference on Circuit, Power and Computing Technologies (ICCPCT 2015), Noorul Islam Centre for Higher Education, Kanyakumari. | Ajeet Lakhani, Ashish Gupta, K Chandrasekaran |
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| 37. | Analysis of MapReduce Scheduling and Its Improvements in Cloud Environment | International Conference on Signal Processing, Informatics, Communication and Energy Systems 2015 (IEEE SPICES 2015). | Sofia D'Souza, K Chandrasekaran |
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| 8. | Novel Supercapacitors Based on Metal-Organic Frameworks - Graphene Composites | International conference on Green Chemistry: Catalysis, Energy and Environment. Jan 22-24, 2015, Dept of Chemistry, Goa University. | Poonkodi Balasubramanian, Subramanya Byndoor and Dentheje Krishna Bhat |
| 9. | Chitosan and its derivatives as potential materials for membrane technology (INVITED TALK) | International Conference on Polymer Composite 2014, December 17, 18 2014. | Dr. Arun M. Isloor |
| 10. | Biopolymers in Membrane Technology (INVITED TALK) | International workshop held at Universiti Teknologi Malaysia during 05-08 March 2015 | Dr. Arun M Isloor |
| 11. | Nanoparticles & Organic additives for membranes (INVITED TALK) | International workshop held at Universiti Teknologi Malaysia during 05-08 March 2015 | Dr. Arun M Isloor |
| 12. | Chemical modification of polymers (INVITED TALK) | International workshop held at Universiti Teknologi Malaysia during 05-08 March 2015 | Dr. Arun M Isloor |
| 13. | Synthesis and Characterization of Psf/psu Based Polymer Blend Ultrafiltration Membrane for Heavy Metal Rejection | International Conference on Membrane based separations (MEMSEP 2015). 21-23 March 2015, Pg No 62. | Arun M. Isloor & Irfana Moidin K. |
| 14. | Probing the effect of immobilized Activated Bentonite Clay on Polyetherimide Membrane Matrix for heavy metal ion rejection | International Conference on Membrane based separations (MEMSEP 2015). 21-23 March 2015, Pg No 76. | Arun M. Isloor & Raghavendra S. Hebbar |
| 15. | Imidazo [2,1-][1,3,4]thiadiazole-benzimidazole derivatives | International Conference on chemical sciences (Eurassia-13), Indian institute of science, | Jurupula Ramprasad, Nagabhushana Nayak, Udayakumar Dalimba, |

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| | as potent antitubercular agents. | Bangalore, December 14-18, 2014. | Perumal Yogeewari, Dharmarajan Sriram. |
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Department of Electronics And Communication Engineering

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s) |
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| 1. | Energy Efficient transmission of Rateless Codes over Free Space Optical channels | Proceedings of SPIE Photonics West LASE (Laser Technology and Industrial Laser Conference) held at Moscone Center San Francisco, California, USA, 7–12 , February 2015. | Geetha Prakash, Muralidhar Kulkarni U Sripati |
| 2. | Integration of LwIP Stack over Intel(R) DPDK for High Throughput Packet Delivery to Applications | Proceedings of the 2014 Fifth International Symposium on Electronic System Design, IEEE Computer Society, NITK, Surathkal India, December 15-17, 2014 pp.130-134. | R. Rajesh Kannan Babu Ramia Muralidhar Kulkarni |
| 3. | Inductive Tuned High Isolation RF MEMS Capacitive Shunt Switches | 5th IEEE International Symposium on Electronic System Design (ISED), December 15-17, 2014 | E.S. Shajahan M.S. Bhat Chenna Reddy |
| 4. | Low Energy and Area Efficient Non-binary Capacitor Array based SAR ADC | 5th International Symposium on Electronic System Design (ISED) 15-17 December, 2014 | D. N. Jagadish M. S. Bhat |
| 5. | A Low voltage Inverter based Differential Amplifier for Low Power Switched Capacitor Applications | 5th International Symposium on Electronic System Design (ISED) 15-17 December, 2014 | D. N. Jagadish M. S. Bhat |
| 6. | GSM and GUI Based Remote Data Logging System | 5th International Symposium on Electronic System Design (ISED) 15-17 December, 2014 | Sadeque Reza Khan Rajsekhar Kumar Nath M.S. Bhat |
| 7. | FPGA Implementation of a BCH Codec for Free Space | Proceedings of the International Conference on Advances in | Shriharsha Koila Goutham Simha G D |

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| | Optical Communication System | Computing, Communications, technically sponsored by <u>IEEE Communications Society</u> and <u>IEEE Systems, Man, and Cybernetics Society</u> , held during September 24-27, 2014, New Delhi, India. | Muralidhar Kulkarni U. Sripati |
| 8. | Symmetry Based Perceptually Lossless Compression of 3D Medical Images in Spatial Domain | International Conference on Computer, Communication, and Control Technology (I4CT, 2014), Malaysia, September 2014 | Chandrika B.K Aparna P Sumam David |
| 9. | Design of a Triple Band-Notched Circular Monopole Antenna for UWB Applications | 11th IEEE International Conference on Wireless and Optical Communications Networks WOCN2014,11-13, September 2014 | Chenna Reddy B E S Shajahan M S Bhat |
| 10. | Modified Sierpinski Antenna for 2.4/5.8 GHz WLAN Applications | 7th ISSS International Conference on Smart Materials Structures Systems, July 8-11, 2014 | Ajith Sivadhanan Ramani Ankith Giliyar Shanthiraj Anoop Raghav Sheshadri Arun J Thomas Chenna Reddy Shankaranarayana M Bhat |
| 11. | Advanced GSM Based Harvesting and Cultivation System | Digital Signal and Image Processing, Elsevier Science and Technology Publications, International Conference on Communication and Computing (ICC-2014), June 12-14, 2014, Bangalore, pp:1-8. | Sadeque Reza Khan Archis Banerjee M. S. Bhat Aritra Banerjee |
| 12. | Wireless and GUI Based Smart Office Communication System | Digital Signal and Image Processing, Elsevier Science and Technology Publications, International Conference on Communication and Computing (ICC-2014), June 12-14, 2014, pp:44-51 | Sadeque Reza Khan Archis Banerjee M. S. Bhat Aritra Banerjee |
| 13. | Modern Home Automation System for Energy Conservation | Digital Signal and Image Processing, Elsevier Science and Technology Publications, International Conference on Communication and Computing (ICC-2014), June 12-14, 2014, pp: 98-105. | Archis Banerjee Sadeque Reza Khan M. S. Bhat |

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| 14. | <i>Music Transcription of Karnatic Music through classification of Gamaka</i> | Midwest Music Information Retrieval Gathering, Northwestern University, Chicago, June 2014 | Ashwin K Vijayakumar VinaySundarrajan Sreecharan Sankaranarayanan Sumam David S |
| 15. | <i>Early Detection of Alzheimer's Disease using Image Processing on MRI Scans</i> | 5 th IEEE Biosignals and Biorobotics conference (ISSNIP2014), Salvador, Brazil, May 2014 | ChetanPatil MadhumithaSridhara Mathura M. G Sumam David MerwynFernandes AnandVenugopal B. Unnikrishnan |
| 16. | MIMO Radar Ambiguity Analysis of Frequency Hopping Pulse Waveforms | IEEE Radar Conference (Radarcon 2014), Cincinnati, May 19-23, 2014 | G.V.K Sharma P. Srihari K. Rajarajeswari |
| 17. | Analysis of The Effect of Beacon Order and Superframe Order Value on Beacon-Enabled IEEE 802.15.4 | Proceedings of International Conference for Convergence of Technology,(I2CT) 6th to 8th April, 2014, Pune. | Mr. Ganesh Awati N. Shekar V. Shet |
| 18. | Internet of Things : A Birds Eye View | CSI Communications magazine, Vol no 38, issue no 1, April 2014 | Sarwesh P N. Shekar V. Shet K. Chandraskaran |

Department of Electrical and Electronics Engineering

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| 1 | Obtaining the Natural Frequencies of Linear Time-Invariant Dynamic Systems from Driving-Point System-Function Measurements Employing Conceptual Source-Measure Units | The IEEE International Conference for Convergence of Technologies, I2CT-April, 2014, Pune, India | I. R. Rao and K.N. Shubhanga |
| 2 | Implementation of a RTAI-Linux-Based PLL and Firing Pulse Generation for a Laboratory TCSC | The IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES)-2014, IIT Bombay, India, December 16-19 | Ritty Raju and Shubhanga K.N |
| 3 | Rotor Speed Instability Analysis of Type-1 Wind Turbine Generator | The IEEE International Conference on Power Electronics, Drives and Energy Systems | A G Priyanka and Shubhanga K.N |

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| 4 | Laboratory Implementation of a Thyristor Controlled Series Capacitor | IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems 2015, (IEEE SPICES 2015), 19 th - 21 st February 2015 at National Institute of Technology (NIT) Calicut, Kozhikode, Kerala, India | Ritty Raju and Shubhanga K.N |
| 5 | Rotor Stability Performances of a Grid Connected Type-1 Wind Turbine Generator' | IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems 2015, (IEEE SPICES 2015), 19 th - 21 st February 2015 at National Institute of Technology (NIT) Calicut, Kozhikode, Kerala, India | A G Priyanka and Shubhanga K.N |
| 6 | Performance Analysis of LTE Protocol for EV to EV Communication in Vehicle-to-Grid (V2G) | IEEE Canadian Conference on Electrical and Computer Engineering, Nova Scotia, Canada, 2015. | Santoshkumar, Udaykumar R.Y |
| 7 | Development of WSN System for Precision Agriculture | IEEE International Conference on Innovations in Information Embedded and Communication Systems, Coimbatore, India. | Santoshkumar, Udaykumar R.Y |
| 8 | Performance Study of Secondary Distribution Feeder for Phase Balancing at each Candidate Node | IEEE International Conference on Innovations in Information Embedded and Communication Systems, Coimbatore, India. | Swapna M, Udaykumar R.Y |
| 9 | Long Term Evolution Protocol for Grid Control Center And Aggregator Communication In V2G for Smart Grid Application | IEEE International Conference on Computational Intelligence and Computing Research | Santoshkumar, Udaykumar R.Y |
| 10 | On-Board Vehicle-to-Grid (V2G) integrator for Power Transaction in Smart Grid Environment | IEEE International Conference on Computational Intelligence and Computing Research | Nagarjuna Koduri, Santoshkumar, Udaykumar R.Y |
| 11 | Performance Investigation of Mobile WiMAX Protocol for Aggregator and | IEEE Canadian Conference on Electrical and Computer Engineering, Nova Scotia, Canada | Santoshkumar, Udaykumar R.Y |

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| | Electrical Vehicle Communication in Vehicle-to-Grid (V2G) | | |
| 12 | A comparison of seven-level inverter topologies for multilevel DC-AC power conversion | IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES), 2014. | Prachi Salodkar, N. Sandeep, P.S. Kulkarni, Udaykumar R. Y |
| 13 | Inrush Current Associated with back to back Switching in a capacitor bank: Experimental investigations. | 8th International conference on capacitors, November 22-23rd 2014, New Delhi, paper no 3, page no 116. | Ms. Meghana Ramesh, Dr. H. N. Nagmani, Mr. V. Vaidhyathan, Dr. G. S. Punekar |
| 14 | On-line acoustic emission technique for monitoring relative performance for partial discharges from 400kV hydro generator transformers-case studies. | International Conference on High Voltage Engineering and Technology (ICHVET-2015)-January 29-30, 2015, Hyderabad, pp. 15-22, Paper No.05. | Bhavani Shanker T, Punekar G. S, Nagamani H. N |
| 15 | Post Fault Analysis of a Large Induction Motor: A Case Study | International Conference on High Voltage Engineering and Technology (ICHVET-2015)-January 29-30, 2015, Hyderabad, pp. 184-188, paper No.38. | Dr G S Punekar, Mr Prasannajit Sahoo |
| 16 | Modeling and performance study of grid connected wind and photovoltaic hybrid energy system | 2 nd international conference on advanced trends in engineering and technology (ICATET 2014) on 18-19th April 2014 at ACEIT, Arya old campus, Jaipur | Vinatha U, Gururaj MV |
| 17 | Performance Analysis of Boost Converter with Linear & Non-Linear Control Strategies" | International Conference on Computing, Communication and Energy Systems ICCCES '14. | Vinatha U, Santhosh B |
| 18 | Fuzzy controller based interface for a hybrid Renewable Energy Source at distribution level with power quality improvements | IEEE international conference on Futuristic trends in computational analysis and knowledge management (ABLAZE-2015),Amity University Greater Noida,25-27 Feb 2015 | Gururaj M V, Dr Vinatha U |
| 19 | Integrated full-bridge buck dc-dc converter topologies for three-phase ac mains fed SMPS | IEEE Conf. EESCO, 2015, Visakhapatnam, Andhra Pradesh | Saravana Prakash P and Dr.R.Kalpna |
| 20 | High Efficiency Improved 12kW Switched Mode Telecom Rectifier | IEEE PEDS Conf. 2015, Sydney, Australia | Dr. R.Kalpna and Saravana Prakash |

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| 22 | Power Management of hybrid fuel cell and microturbine based distributed generation in grid connected mode of operation | IEEE International Conference On Renewable Energy Research And Applications (ICRERA-2014), Milwaukee, USA. 2014. | S. K. Nayak and D N Gaonkar |
| 23 | Performance study of roof top wind solar microgrid system in isolated mode of operation | IEEE Power Electronics, Drives and Energy Systems (PEDES), IIT Bombay, India, December 16-19 | DN Gaonkar, NS Jayalakshmi, P Raghvendra |
| 24 | Coordination control of microgrid | 9th International Conference on Industrial and Information Systems (ICIIS), Gwalior, India 2014 | D Chethan Raj, D.N. Gaonkar |
| 25 | Backstepping Sliding Mode Control for Variable Speed Wind Turbine | INDICON 2014, Pune, 11 th to 13 th Dec 2014. | Saravanakumar R, Debashisha Jena |
| 26 | Optimal GA Based SMC with Adaptive PID Sliding surface for robot manipulator | ICIIS 2014 at IIITM Gwalior, 15 th -17 th December 2014. | M Vijay and Debashisha Jena |
| 27 | Optimal Backstepping Sliding mode Control for Robot Manipulator | IEEE SPICES 2015 at NIT Calicut, 18 th -21 st February 2015 | M Vijay and Debashisha Jena |

Department of Humanities, Social Sciences and Management

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s) |
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| 1. | "Corporate performance appraisal of healthcare organisations : A strategic analysis", | Second International Conference on Business Analytics and Intelligence(ICBAI), Indian Institute of Science , Bangalore, 18-20 December ,2014. | D'Souza Sunil , Sequeira A.H., and Jane Banaszak-Holl |
| 2. | "Conceptualizing Research-An Overview", | International conference on Power of the past-Force for the Future, organized by Fr. Muller | Sequeira A. H., |
| 3. | Leveraging Lakme | The Case Centre (Cranfield University , UK) Anniversary Case Conference at IIM Bangalore on | V K Ranjith & Bijuna C Mohan |

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| 4. | Private label brand: A study on relationship between store image , brand association and perceived | International conference on evidence based management, BITS, Pilani, March 20-21,2015,39-43 | Chandra Kumar & Bijuna C Mohan |
| 5. | Corporate Performance Appraisal of Healthcare Organizations: A Strategic Analysis. | International Conference on Business Analytics and Intelligence, 18-20, December, 2014 at IISC Bangalore. | Sunil D'Souza & A.H Sequeira |
| 6. | A Review of Preventive Health Information Seeking Behavior of Common People in eloping Countries. | MARCON 2014, Indian Institute of Management Calcutta, December 18-20, 2014. | Muhammed Sudheer KM & Sunil D'Souza |
| 7. | Medical Tourism and Market feasibility in emerging economy | Twelfth AIMS International Conference on Management at Indian Institute of Management Kozhikode, January 2-5, 2015. ISBN: 978-81-92-47-13-8-9. | Muhammed Sudheer KM & Sunil D'Souza |
| 8. | Role of Gamification in Education | 1 st International Conference on Emerging Management Practices (ICEPM-2015), G.Pullaiah College of Engineering & Technology, Kurnool – Andhra Pradesh, 21 st February 2015, Page Numbers- | S. Pavan Kumar |
| 9. | Assessing the Relationship between Participation in Decision Making, Job Satisfaction and Multiple | International Conference on Contemporary Trends in Managing Modern Workforce February-2015, Symbiosis Centre | Shilpi Saha & S. Pavan Kumar |
| 10. | Impact of Engineering Faculty Participation in Decision Making and Commitment on Organizational Citizenship Behaviour | International Conference on Transformations in Engineering Education (ICTIEE-2015), BMSCE Bangalore, January 6-8, 2015. CD Proceedings. | S. Pavan Kumar & Vijai Nath Giri |
| 11 | Impact of Participation in Decision Making on Job Satisfaction, Group Learning and Group Commitment | International Conference on Business Paradigms in Emerging Markets (ICBPEM, Dec-2014), organizing by National Institute of TechnologyRourkela (NITR). | Shilpi Saha & S. Pavan Kumar |
| 12. | Analysing the Impact of Participation in Decision Making on Quality of Work Life and Multiple Commitments | IMR Doctoral Conference, December 2014, Indian Institute of Management Bangalore (IIMB). | Shilpi Saha & S. Pavan Kumar |

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| 13. | Effects of Energy Price Rise on Investment- Firm Level Evidence from Indian Manufacturing Sector | 11 th International Conference on Business and Finance (ICBF). Organised by IBS Hyderabad during January 8- 9, 2015. | Rajesh Acharya H and Anver Sadath C |
| 14. | "Analysis of Dynamic Inter-relationship of Gold, Bond and Stock through the lens of Conventional Wisdom: An Indian perspective." | International Conference on Frontiers of Infrastructure Finance, IIT Kharagpur, November 13-15. | Jaiswal, R. and Uchil, R. (2014). |
| 15. | "An Empirical Investigation of Inter-relationship in Gold, Silver, Bond and Stock from the lens of Conventional Wisdom: An Indian perspective." | India International Bullion Summit, IBSA Mumbai, October 4-5. | Jaiswal, R. and Uchil, R. (2014). |
| 16. | Women Entrepreneurship And Sustainability Through Tourism: A Study With Reference To Kudumbashree Mission In Kerala. | International Conference on Business Paradigms in Emerging Markets – ICBPEM – 2014, 12-13 Dec 2014, NIT Rourkela (paper accepted for publication in Special Volume of Springer publications) | Sheena |
| 17. | Employee Engagement: A literature Review. | International Conference on Contemporary Trends in Managing Modern Workforce by Symbiosis Centre for Management and Human Resource Development (SCMHRD), Pune , 27 and 28th Feb,2015 ((paper accepted for publication in Special Volume of Opus Journal) | Sheena |
| 18. | A Study of the Brand Building institutions in Karnataka : Impact of Performance as the 8 th P in the Services Marketing Mix | Conference on emerging trends in business, (CETB- 2014) organized by dept of Management Studies, Christ University, Bangalore,11 th Dec 2014. | Sheena |
| 19. | "Orchids in the wild": An investigation into entrepreneurial education and tourism development among women SHGs | ICIER – IIMB International Conference on Entrepreneurship Education and Training , IIM Bangalore, 29-31 January 2015 (Received best paper award and accepted for publication in Springer publications) | Sheena |

Department of Information Technology

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s) |
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| 1 | An Approach for Multimedia Information Retrieval Based on Harmonized Representation of Multimedia | 8th International Conference on Data Mining and Warehousing (ICDMW-2014), 25th - 27th, July 2014, UVCE, Bangalore. | Pushpalatha K Ananthanarayana V.S |
| 2 | Energy-aware Task Scheduling in Cloud | 2nd International Conference on Emerging Research in Computing, Information, Communication and Applications (ERCICA) 2014, 1st - 2nd August, NMAMIT, Bangalore. | Linda J Ananthanarayana V.S |
| 3 | Virtual Machine Migration over Heterogeneous Native Hypervisors | 2nd International Conference on Emerging Research in Computing, Information, Communication and Applications (ERCICA) 2014, 1st - 2nd August, NMAMIT, Bangalore. | Pratik Falke Ananthanarayana V.S |
| 4 | Detection and Classification of Object. | 2nd International Conference on Emerging Research in Computing, Information, Communication and Applications (ERCICA) 2014, 1st - 2nd August, NMAMIT, Bangalore. | Sulochan Naik Ananthanarayana V.S |
| 5 | An Improved Association Rule Mining for Distributed System with Load Balancing | 2nd International Conference on Emerging Research in Computing, Information, Communication and Applications (ERCICA) 2014, 1st - 2nd August, NMAMIT, Bangalore. | Alok Kumar Ananthanarayana V.S |
| 6 | Similarity Analysis of Service Descriptions for Efficient Web Service Discovery | International Conference on Data Science and Advanced Analytics (DSAA 2014), Oct 30 – Nov 1, 2014, Shanghai, China. | Sowmya Kamath S Ananthanarayana V.S |
| 7 | A Service Crawler Framework for Similarity based Web Service Discovery | 11 th IEEE India Conference on Emerging Trends and Innovation in Technology, INDICON 2014, 11-13 December 2014, Pune | Sowmya Kamath S Ananthanarayana V.S |
| 8 | Semantic Similarity based Dynamic Clustering Algorithm for Domain-specific Web Service Discovery | International Conference on Information and Communication Technologies (ICICT 2014), Dec 3-5, 2014, Kochi. | Sowmya Kamath S Ananthanarayana V.S |

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| 9 | An Unified Approach for Multimedia Document Representation and Document Similarity | 17 th IEEE International Conference on Computational Science and Engineering (CSE 2014) Chengdu, China, December 19 th -21 st , 2014 | Pushpalatha K Ananthanarayana V S |
| 10 | An Information Theoretic Similarity Measure for Unified Multimedia Document Retrieval | 7 th international Conference on Information and Automation for Sustainability, Colombo, Srilanka, December 22 nd -24 th , 2014 | Pushpalatha K Ananthanarayana V S |
| 11 | Novel Energy Efficient Virtual Machine Allocation at Data Center Using Genetic Algorithm | IEEE 3rd International Conference on Signal Processing, Communications and Nw (ICSCN-2015), March 26-28, 2015, Anna University, Chennai, India | Neeraj Kumar Sharma G Ram Mohana Reddy |
| 12 | NLP Based Sentiment Analysis on Twitter Data Using Ensemble Classifiers | IEEE 3rd International Conference on Signal Processing, Communications and Nw (ICSCN-2015), March 26-28, 2015, Anna University, Chennai, India | Monisha Kanakaraj G Ram Mohana Reddy |
| 13 | Effect of Software Aging on Power Usage | IEEE 9th Int. Conf. on Intelligent Systems & Control (ISCO-2015), Jan. 9-10, 2015, Coimbatore, India | Biju R Mohan G Ram Mohana Reddy |
| 14 | Analysis of Free Physical Memory in Server Virtualized System | IEEE 9th Int. Conf. on Intelligent Systems & Control (ISCO-2015), January 9-10, 2015, Coimbatore, India | Biju R Mohan G Ram Mohana Reddy |
| 15 | Novel Energy Efficient Resources Allocation Using Combined Approach of DVFS and Genetic Algorithm | IEEE Int. Conf. on Cloud Computing and Internet of Things (CCIOT-2014), Dec. 13-14, 2014, Changchun, China. | Neeraj Kumar Sharma G Ram Mohana Reddy |
| 16 | Human Behavior Analysis Using Multimodal Emotion Recognition | IEEE 2014 Int. Conf. on Data Science & Advanced Analytics (DSAA-2014), Oct. 30 - Nov. 1, 2014, Shanghai, China | Prashant Jha G Ram Mohana Reddy |
| 17 | A Novel Segmentation-Based Algorithm for Stereo Depth Extraction Using Sparse Disparity Estimates | IEEE 12th Int. Conference on Signal Processing (ICSP-2014), October 19-23, 2014, HangZhou, China | Subhayan Mukherjee G Ram Mohana Reddy |
| 18 | A Novel Bio-Inspired Load Balancing of Virtual Machines in Cloud Environment | IEEE 3rd Int. Conf. on Cloud Computing for Emerging Markets (CCEM 2014), October 15-17, 2014, Bangalore, India | Ashwin T Dixit Shridhar Domanal G Ram Mohana Reddy |

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| 19 | Multiclass SVM Based Language Independent Emotion Recognition Using Selective Speech Features | IEEE 3rd Int. Conf. on Advances in Computing, Commns & Informatics (ICACCI-2014), Sept. 24-27, 2014, New Delhi, India. | Amol Kokane G Ram Mohana Reddy |
| 20 | Modified MapReduce Framework for Enhancing Performance of Graph Based Algorithms by Fast Convergence in Distributed Environment | IEEE 3rd Int. Conf. on Adv. in Computing, Commn. & Informatics (ICACCI-2014), Sept. 24-27, 2014, New Delhi, India | Hitesh Singhal G Ram Mohana Reddy |
| 21 | GPU Accelerated Inexact Matching for Multiple Patterns in DNA Sequences | IEEE 3rd Int. Conf. on Adv. in Computing, Commn. & Informatics (ICACCI-2014), Sept. 24-27, 2014, New Delhi, India | Priyank Rastogi G Ram Mohana Reddy |
| 22 | An Android GPS-Based Navigation Application For Blind | ACM 7th Int. Symposium on Visual Information Communication and Interaction (VINCI-2014), Aug. 5-8, 2014, Sydney, Australia. | Nisha K.K, Pruthvi H.R, Shwetha N H, Ashwin T S G Ram Mohana Reddy |
| 23 | Vision Based Laser Controlled Keyboard System for the Disabled | ACM 7th Int. Symposium on Visual Information Communication and Interaction (VINCI-2014), Aug. 5-8, 2014, Sydney, Australia. | Aarti Prabhu, Deeksha SD, Hiba Ahsan, Shridhar D, G Ram Mohana Reddy |
| 24 | Ember: A Smartphone Web Browser Interface for Blind | ACM 7th Int. Symposium on Visual Information Communication and Interaction (VINCI-2014), Aug. 5-8, 2014, Sydney, Australia. | Isha Jassi, Ruchika S, Susmitha P, Subhayan Mukherjee, Ashwin T S G Ram Mohan Reddy |
| 25 | A Hybrid Algorithm for Disparity Calculation from Sparse Disparity Estimates Based on Stereo Vision | IEEE 10th Int. Conf. on Signal Processing & Commns. (SPCOM 2014), July 22-25, 2014, IISc, B'lore, India. | Subhayan Mukherjee G Ram Mohana Reddy |
| 26 | A GPU Framework for Sparse Matrix Vector Multiplication | IEEE 11th Int. Sympo. on Parallel and Distributed Computing (ISPCD 2014), June 24-27, 2014, Aix-Marseille Univ., Porquerolles Island, France. | B. Neelima, G. Ram Mohana Reddy Prakash S. Raghavendra |
| 27 | Using Sparse Matrix Features, Format Transformation and Communication Time to Predict an Optimal Sparse | Int. Workshop on MultiThreaded Architectures & Applications (MTAAP-2014) held with 28th IEEE Int. Parallel and Distributed | B. Neelima, G. Ram Mohana Reddy Prakash S. Raghavendra |

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| | Format for SpMV Computation on GPU | Processing Symposium (IPDPS 2014), May 19-23, 2014, Phoenix, Arizona, USA. | |
| 28 | A Real Time Facial Emotion Recognition Using Depth Sensor And Interfacing With Second Life Based Virtual 3D Avatar | IEEE Int. Conf. on Recent Adv. & Innovations in Engg. (ICRAIE-2014), May 9-11, 2014, Jaipur, India | Mounika Kakarla G Ram Mohana Reddy |
| 29 | Effective E-learning Using 3D Virtual Tutors/WebRTC Based Multimedia Chat | IEEE 4th Int. Conf. on Recent Trends in Information Tech (ICRTIT 2014), April 10-12, 2014, Anna Univ., Chennai, India. | Amol Kokane, Hitesh Singhal, Subhayan Mukherjee, G Ram Mohana Reddy |
| 30 | Identification of Parameters for Trust Management in Wireless Sensor Networks | Eighth International Conference on Communication Networks (ICCN 2014), , 26 th -27 th July 2014, pp. 154-161. | Geetha V K Chandrasekaran |
| 31 | MRPLA: Multi-hop Routing Protocol for Large Area Wireless Sensor Networks | Eighth International Conference on Communication Networks (ICCN 2014), published by Elsevier, 26 th -27 th July 2014. | Anupama Sikchi Geetha V |
| 32 | Wireless Sensor Network Simulator for Routing Protocols | Eighth International Conference on Communication Networks (ICCN 2014), published by Elsevier, 26 th -27 th July 2014. | Adarsh D K Froila D Souza Chandrakanth U Prajwal R Prasad Geetha V |
| 33 | SQL Injection Detection using Machine Learning | International Conference on Control, Instrumentation, Communication, & Computational Technologies (ICCICCT-2014), published by IEEE digital library, 10 th -11 th July 2014. | Anamika Joshi Geetha V |
| 34 | Trace Time Delay Between Base Station and Service Stations in Different Scenarios of WiMAX Networks: Using NS3 | Second International Conference on Emerging Research in Computing, Information, Communication and Applications, will be published by Elsevier, 1 st -2 nd August 2014. | Shashank P Geetha V |
| 35 | Trust Based Centralized Low Energy Adaptive Clustering Hierarchy (LEACH-C) for Wireless sensor Network | Second International Conference on Emerging Research in Computing, Information, Communication and Applications, 1 st - 2 nd August 2014, pp. 468-474. | Geetha V K Chandrasekaran Shridhar Sanshi Anupama Sikchi |
| 36 | A prototype of an Intelligent Search Engine using Machine | Second International Conference on Advanced Computing, | Shrimai Prabhumoye, Piyush Rai, |

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| | Learning based Training for Learning to Rank | Networking, and Informatics [ICACNI-2014] 24 - 26 June 2014 St. Thomas' College of Engineering and Technology Kolkata, India | Pranay Khattri, Love Rose Singh S Sowmya Kamath S |
| 37 | Connaissance - An Intergration of Web-based Virtual Learning Environments and 3D Virtual Worlds | International Conference on Communication and Computing (ICC-2014) June 12th - 14th, 2014, Bangalore. | Adarsh Kyadige, Froila Hency D'Souza, Sowmya Kamath S |
| 38 | Automated Query Analysis Techniques for Semantics based Question Answering System | Fourth International Conference on Recent Trends in Information Technology (ICRTIT 2014) by Madras Institute of Technology, Anna University, Chennai during April 10th – 12th, 2014 | Shrimai Prabhumoye, Piyush Rai, Love Rose Singh S, Priya L, Sowmya Kamath S |
| 39 | Comparative Evaluation of Vertex Cover Computation Algorithms for Varied Graphs | IEEE Third International Conference on Communication and Signal Processing (ICCSP'13) Adhiparasakthi Engineering College, Melmaruvathur, Tamilnadu, India, held during 3rd – 5th April 2014. | Smit B Patel, Sowmya Kamath S |
| 40 | Real-Time Multiplayer Gaming Network Platform as a Service | Eight International Multi Conference on Information Processing (IMCIP-2014) July 25th – 27th, 2014 at Hotel Capitol, Bangalore, India. | Suresh Aise, Amogh Reddy, Ankita Sakhare, Prem Sameer, Sowmya Kamath S |
| 41 | An Hybrid Bio-inspired Task Scheduling Algorithm in Cloud Environment | Fifth International Conference on Computing, Communications and Networking Technologies (ICCCNT), organized by Hefei University of Technology in Hefei, Anhui, China, during July 11-13, 2014. (IEEE Proceedings) | Rakesh Madivi, Sowmya Kamath S |
| 42 | Improved Approximation Algorithm for Vertex Cover Problem using Articulation Points | Fifth International Conference on Computing, Communications and Networking Technologies (ICCCNT) Hefei University of Technology in Hefei, Anhui, China, during July 11-13, 2014. | Smit B Patel Sowmya Kamath S |
| 43 | Interactive Visualization of User Data from Multiple Social Networks | Eight International Multi Conference on Information Processing (IMCIP-2014) July 25th – 27th, 2014 at Hotel Capitol, Bangalore, India. | Neha Bajaj Sowmya Kamath S |

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| 44 | Knowledge Based Question Answering System Using Natural Language Understanding Techniques | Eighth International Conference on Data Mining and Warehousing (ICDMW 2014) July 25th – 27th, 2014 at Hotel Capitol, Bangalore, India. | Arundhati B, Bhavana R, Mrinialini K V, Shruthi M, Sowmya Kamath S |
| 45 | Change Propagation based Incremental Data Handling in a Web Service Discovery Framework | 14th IEEE International Symposium on Signal Processing and Information Technology (IEEE ISSPIT 2014) 15th - 17th December 2014 at Noida, New Delhi, India | Sowmya Kamath S Ananthanarayana V.S |
| 46 | Intelligent News Search Engine based on Information Extractions from e-Newspapers | 2014 IEEE International Conference on Computational Intelligence and Computing Research (ICCC) 18 - 20 Dec, 2014 (Best paper award) | Monisha K Sowmya Kamath S |
| 47 | Automatic Generation of Web Service Composition Templates using WSDL descriptions | Second International Conference on Information Systems Design and Intelligent Applications (INDIA 2015) Jan8-9, 2015 | Sowmya Kamath S Suresh Alse Prajwal Prasad Abhay Chennagiri |
| 48 | Secure Music Sharing with Improved Potato System Using Cryptographic Techniques | IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems (IEEE SPICES 2015) Feb 19- 21st 2015 | Gaurav Yadav Sowmya Kamath S |
| 49 | Performance Analysis of Process Driven and Event Driven Web Servers | 9th International conference on Intelligent systems and Control (ISCO'15) January 9 -10, 2015 | Prakash P Biju R Mohan Sowmya Kamath |
| 50 | Data Migration between OpenStack based Cloud Storage Systems | International Conference on Convergence Technology 2014, organized by the IEEE Advancing Technology For Humanity from 5th April to the 7th April 2014, Pune, India 27 | G. Eswaraiah Jaidhar CD |
| 51 | Soft Computing Based Hybrid Disease Prediction Method | 8th International Conference on Data Mining and Warehousing (ICDMW-2014), July25-27,2014 | Anirudha R.C, Remya Kannan, Nagamma Patil |
| 52 | SVD based content based image retrieval System | International Conference on Emerging Research in Computing, Information, Communication and Applications, ERCICA 2014, 01-02 Aug 2014 Nitte Bangalore. Elsevier Publications | Ankur Singh, Dinesh Naik |

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| 53 | Rankings of images based on content based image retrieval | International Conference on Control, Instrumentation, Communication & Computational Technologies ICCICCT-2014 10th and 11th July 2014 At NIU Chennai. IEEE Explore Publications | Rajanna bandaru, Dinesh Naik |
| 54 | Anomaly based intrusion detection of packets dropping attacks in MANETS | International Conference on Control, Instrumentation, Communication & Computational Technologies ICCICCT-2014 10th and 11th July 2014 At NIU Chennai. IEEE Explore Publications | Uyyala Shivani, Dinesh Naik |
| 55 | Secure optimal routing protocol in MANETS | International Conference on Control, Instrumentation, Communication & Computational Technologies ICCICCT-2014 10th and 11th July 2014 At NIU Chennai. IEEE Explore Publications | M Bhuvanewari, Dinesh Naik |
| 56 | Content based video retrieval using text in video | International Conference on Emerging Research in Computing, Information, Communication and Applications, ERCICA 2014, 01-02 Aug 2014 Nitte Bangalore Elsevier Publications | Peeyush kumar, Dinesh Naik |
| 57 | Behavioural analysis and visualization of options data | Proceedings of 5th SARC-IRF International Conference, 25th May-2014, New Delhi, India, ISBN: 978-93-84209-21-6 | Hari Teja, Kratika Gupta, Pranay khattri, Saarthak Chandra, Shweta shrivastava, DineshNaik |

Department of Mathematical And Computational Sciences

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s) |
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| 1 | Weaknesses of a Dynamic ID Based Remote User Authentication Protocol for Multi-Server Environment | Proceedings of Conference on Information Security (CIS 2014) , Suzhou, China, March 10-12. (pages 196-200 of proceedings published in August 2014) | R. Madhusudhan and A. Praveen |

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| 2 | Radio Numbers of Some Caterpillars | International Workshop on Graph Labelings (IWOGL) 2014, January 3-6, 2015, to be published as a special issue of Electronics Notes in Discrete Mathematics. | Srinivasa Rao Kola and Pratima Panigrahi |
| 3 | k-Distinct Strong Minimum Energy Topology Problem in Wireless Sensor Networks | International Conference on Distributed Computing and Internet Technology. Springer International Publishing, LNCS Vol. 8956, Feb. 2015. pages 187-192. | BS Panda, D. Pushparaj Shetty, and Arti Pandey |
| 4 | A Study of Lemmermeyer's Work Relating Pure Cubic Fields and Elliptic Curves | UGC Sponsored Two Day National Seminar on Number Theory and Its Applications MGM College, Udupi December 12-13, 2014 | B. R. Shankar, Manasa K J |
| 5 | Chaotic Dynamical Systems from Extension of p-adic Numbers. | 23 rd International Conference on Interdisciplinary Mathematical, Statistical and Computational Techniques , IMSCT 2014 Surathkal, India, December 18-20, 2014 | B. R. Shankar, Chetana U V |
| 6 | Pure Cubic Fields and Elliptic Curves. | 23 rd International Conference on Interdisciplinary Mathematical, Statistical and Computational Techniques , IMSCT 2014 Surathkal, India , December 18-20, 2014 | B. R. Shankar, Manasa K J |
| 7 | Core Variation in the Entrance Region Flow of Herschel-Bulkley Fluid in an Annuli | Proceedings of the World Congress on Engineering, (2nd - 4th of July, 2014) London, U.K. (2014). | Rekha G.Pai and A.Kandasamy |
| 8 | An efficient estimator of reliability for exponential class software reliability models | 3rd International Conference on Software and Information Engineering (ICSIE 2014), Singapore, May 2014. | Murulidhar N. N. and B. Roopashri Tantri |
| 9 | Analysis of systems subject to on – line preventive maintenance | Proc. of 20th ISSAT International Conference on Reliability and Quality in Design (RQD 2014), Seattle, Washington, USA, August 2014. | Murulidhar N. N |

Department of Mechanical Engineering

| Sl. No | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s) |
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| 1. | Heat transfer distribution of three interacting methane-air premixed flame jets", | FMFP 2014, IIT Kanpur 2014, Dec 12-15th | V. Hindasageri, R. P. Vedula and S. V Prabhu |
| 2. | Heat transfer distribution of swirling premixed flame jets impinging on a flat plate using twisted tapes | FMFP 2014, IIT Kanpur 2014, Dec 12-15th | V. Hindasageri, R. P. Vedula and S. V Prabhu |
| 3. | Effect of geometry on heat transfer in microchannels for microsystem cooling | 4th International Engineering Symposium – IES 2015, March 4-6, 2015, Kumamoto University, Japan. | Udhav U Gawandalkar, Girish A Kini and Arun. M |
| 4. | Conjugate heat transfer analysis of hexagonal shaped microchannel as an application for chip cooling | 5th International and 41st National Conference on Fluid Mechanics and Fluid Power, 12 – 14 December 2014, IIT Kanpur, 2014. | Srikanth, Arun. M, Prasad Krishna |
| 5. | Multi-response optimization of WEDM process using Hybrid approach while machining Inconel 625 | Int. Conf. on Industrial, Mechanical and Production Engineering: Advancements and Current Trends, 55-61, MANIT, Bhopal, India, November 27-29, 2014. | Priyaranjan Sharma, D. Chakradhar, Narendranath S |
| 6. | Optimization of WEDM performance characteristics while machining Inconel 600 Superalloy | Conference on Advances in Light Metals and its Composites, SRM University, Chennai, India, 6-7 December. (Poster Presentation) | Priyaranjan Sharma, D. Chakradhar, Narendranath S |
| 7. | Microstructural Characterization and Hardness Evaluation of Friction Stir Welded AA6061/SiC/Fly-Ash Hybrid MMCs | Conference on Advances in Light Metals and its Composites, SRM University, Chennai, India, 6-7 December. (Poster Presentation) | Sachinkumar, Narendranath S, Chakradhar D |
| 8. | An Experimental Investigation of Hot Machining Performance Parameters using Oxy-Acetylene gas setup | 5th International & 26th All India Manufacturing Technology, Design and Research Conference (AIMTDR 2014) December 12th–14th, 2014, IIT Guwahati, Assam, India, Pages 370 (1-6). | Venkatesh Ganta, D. Chakradhar |
| 9. | Parametric optimization in hot turning of Inconel 718 alloy using Taguchi method | 4th INTERNATIONAL ENGINEERING SYMPOSIUM (IES 2015), Kumamoto University, Japan, March 2015. | Venkatesh Ganta, D. Chakradhar |
| 10. | Microstructural Characterization and Hardness Evaluation of Friction Stir | International conference on advances in materials, manufacturing and applications(AMMA 2015), NIT | Sachinkumar , Narendranath S , Chakradhar D |

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| | Welded AA6061/SiC/FA MMC's | Tiruchirapalli, Tamil Nadu, April 9 - 11. | |
| 11. | Parametric Optimization of dry turning of duplex stainless steel by Taguchi Method | International conference on advances in materials, manufacturing and applications (AMMA 2015), NIT Tiruchirapalli, Tamil Nadu, April 9 - 11. | Yashas K, Adithya U Baliga M, Venkatesh Ganta and D. Chakradhar |
| 12. | Gear fault detection using vibration analysis and continuous wavelet transform | ICAMME-2014, held at National Institute of Technology, Karnataka, March 27-29, 2014 | Kiran Vernekar, Hemantha Kumar, K.V.Gangadharan |
| 13. | Experimental investigation of effect of ingredient particle size on dynamic damping of RTV Silicone base Magnetorheological elastomers | ICAMME-2014, held at National Institute of Technology, Karnataka, March 27-29, 2014 | Sriharsha Hegde, Umanath R Poojary, K.V Gangadharan |
| 14. | Experimental study of damping characteristics of air, silicon oil, Magneto rheological fluid on twin tube damper | ICAMME-2014, held at National Institute of Technology, Karnataka, March 27-29, 2014 | Avinasha B, Shyam Sundar S, K V Gangadharan |
| 15. | Vibration Control of Smart Cantilever Beam Using Strain Rate Feedback | ICAMME-2014, held at National Institute of Technology, Karnataka, March 27-29, 2014 | Riessom W., Prakash Rao, Prasad Krishina, K.V. Gangadharan |
| 16. | Functionally Graded Composite Materials: An Overview | ICAMME-2014, held at National Institute of Technology, Karnataka, March 27-29, 2014 | Gururaja Udupal, S.Shrikantha rao, K.V.Gangadharan |
| 17. | Design and implementation of Remote Mechatronics Laboratory for e-Learning using LabVIEW and Smartphone and Cross-Platform Communication Toolkit (SCCT) | 2nd International Conference on Innovations in Automation and Mechatronics Engineering 2014 ,G H Patel College of Engineering & Technology, Vallabh Vidyanagar 388120, Gujarat-India on 7th, 8th march 2014 | Poorna chandra B R, Geevarghese K P, K V Gangadharan |
| 18. | Comparative Study on MSMA Actuation under Electromagnetic and biased-Magnetic Fields | First International Conference on Mechanical Engineering: Emerging Trends for Sustainability, organized by MANIT, Bhopal during 29-31, January 2014 {won the Best paper award } | Nearaj. D. Darwai, .M. Murigendrappa, K.V. Gangadharan |
| 19. | Implementation of Real Time Condition Monitoring of a Single Degree Freedom System Using Skyhook Control | Proceedings of international conference on advances in Engineering and Technology-2014, (ICAET-2014) January 8th -9th 2014, Nagpur, Maharashtra | Harisha S R, Subramanya R Prabhu B, K V Gangadharan |
| 20. | Design, Synthesis and fabrication of Magneto | Proceedings of international conference on advances in | Subramanya R Prabhu B, Harisha S R, K V |

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| | Rheological Fluid Damper for low Frequency Application | Engineering and Technology-2014, (ICAET-2014) January 8th -9th 2014, Nagpur, Maharashtra | Gangadharan |
| 21. | Design of Virtual Instrumentation approach for A Multi-Purpose online Mechanical Vibration Experiment Using Labview | Proceedings of international conference on advances in Engineering and Technology-2014, (ICAET-2014) January 8th -9th 2014, Nagpur, Maharashtra | Gurumurthy B M, Harisha.S.R, Subramanya R Prabhu B, Dr.K.V.Gangadharan |
| 22. | Effects of Wet Compression on the Flow Behavior of a Centrifugal Compressor: A CFD Analysis | ASME Turbo Expo 2014, June 16 - 20, 2014, Dusseldorf, Germany. | Anish Surendran, Heuy-Dong Kim, |
| 23. | A numerical investigation on the physical mechanism behind the temperature separation phenomena in a vortex tube | 5th international and 41st national conference on Fluid Mechanics and Fluid Power (FMFP) 2014, Dec. 12-14, 2014, IIT Kanpur | Anish S |
| 24. | Parameter Estimation Using Heat Transfer Models With Experimental Data Using A Combined ANN-Bayesian Approach | Proceedings of the 15th International Heat Transfer Conference, IHTC-15, August 10-15, Kyoto, Japan | Gnanasekaran, N., Nithin., Balaji, C |
| 25. | Estimation of Heat Flux Under Natural Convection Laminar Flow | 5th International and 41st National Conference on Fluid Mechanics and Fluid Power, FMFP 2014, IIT Kanpur | Srinivasa Sagar, N., Gnanasekaran |
| 26. | Hybrid Monte Carlo Approach for Estimation of Heat Flux From Perturbed Temperature Data | 23rd International Conference on Interdisciplinary Mathematical, Statistical and Computational Technique, IMSCT 2014-FIMXXIII, NITK. | Harsha Kumar, Sharath Kumar, Srinivasa Sagar, N., Gnanasekaran, N |
| 27. | Asymptotic Computational Fluid Dynamics (ACFD) - A Novel Approach as Forward Model for Estimation of Volumetric Heat Generation Using Surrogated Data | 23rd International Conference on Interdisciplinary Mathematical, Statistical and Computational Technique, IMSCT 2014-FIMXXIII, NITK. | Sharath Kumar, Harsha Kumar, Srinivasa Sagar, N., Gnanasekaran, N |
| 28. | Synergistic Approach for the Simultaneous Estimation of Heat Transfer Coefficient and Heat Flux Using Fin from Steady State Heat Transfer Experiments | 6th International Symposium on Advances in Computational Heat Transfer, CHT-15, Rutgers University, U.S | Harsha Kumar, Sharath Kumar, Srinivasa Sagar, N., Gnanasekaran, N |
| 29. | Hybrid Monte Carlo Technique for Simultaneous Estimation of Volumetric Heat Generation and Convective Heat Transfer | Inverse Problems Symposium, Michigan State University, U.S | Gnanasekaran, N., Sharath Kumar, 2015 |

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| | Coefficient Using Steady State Experiments | | |
| 30. | A novel method to estimate convective heat transfer coefficient and emissivity from a lumped system using transient experiments | Tenth National Conference on OPTIMIZATION TECHNIQUES IN ENGINEERING SCIENCES AND TECHNOLOGIES (OPTTEST 2015), 10-11 April, 2015 | Pallav Pattnaik, Subham Burnwal and Gnanasekaran N |
| 31. | Influence of operating parameters on the battery module | 5th international and 41st national conference on Fluid Mechanics and Fluid Power (FMFP) 2014, Dec. 12-14, 2014, IIT Kanpur | Suhas B.G and A.Sathyabhama |
| 32. | Solid State Amorphization of Mg-Zn-Ca System Studied Through Planetary Ball Milling | International conference on advances in materials, manufacturing and applications (AMMA 2015), NIT Tiruchirapalli, Tamil Nadu, April 9-11. | Bhaskar M, Ramesh M.R., Srikanth Bontha, Krishna M., and Vamsi Krishna Balla |
| 33. | Improving Hot Corrosion Resistance of Cobalt Based Superalloys Using HVOF Sprayed Oxide Alloy Powder Coating, | Proceedings of International Symposium for Research Scholars on Metallurgy, Materials Science and Engineering, Department of Metallurgical and Materials Engineering, Indian Institute of Technology Madras, p24-30, 2014 | Jegadeeswaran N, Ramesh M.R, Udaya Bhat K |
| 34. | Experimental study of process variables on the bead geometry through flux cored arc welding | International Conference on Mechanical Engineering, Vijaya Vittala Institute of Technology, Bangalore, 21-23, August 2014 | Ramesh Babu N, Ramesh M R, Kiran Aithal S, U N Kempaiah |
| 35. | Hot Corrosion-Erosion Behaviour of HVOF Sprayed NiCrFeSiB Coatings on Boiler Tube Steels | 4th International Engineering Symposium, Kumamoto University, Japan, March 4-6, 2015 | M.R. Ramesh, S. Prakash, S.K. Nath, Mrityunjay Doddamani |
| 36. | A comparative study of oxidation resistance of Ti-31, HVOF sprayed stellite-6 and fused Al ₂ O ₃ -CoCrAlTaY coated Ti-31 alloy at 800°C | International conference on advances in materials, manufacturing and applications, National Institute of Technology, Tiruchirappalli, April 9-11, 2015 | Dharmendra. M, Jegadeeswaran. N, Ramesh. M. R, Udaya Bhat. K, |
| 37. | High temperature oxidation studies of HVOF sprayed WC-CrC-Ni coating on boiler tube steels | International conference on advances in materials, manufacturing and applications, National Institute of Technology, Tiruchirappalli, April 9-11, 2016 | B. Somasundaram, Ravikiran Kadoli, M. R. Ramesh |
| 38. | Studies on structure and corrosion characteristics of IS 400/15 ductile iron subjected austempering heat treatment | International conference on advances in materials, manufacturing and applications, National Institute of Technology, Tiruchirappalli, April 9-11, 2017 | Siddaraju C , N D Prasanna, M R Ramesh, M K Muralidhara, |

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| 39. | Control of geometrically nonlinear vibrations of functionally graded multiferroic composite doubly curved shells | 5th International Congress on Computational Mechanics and Simulation, 10-13 December 2014, CSIR-Structural Engineering Research center, Chennai, India. | S. C. Kattimani and M. C. Ray |
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Department of Mining Engineering

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s) |
|---------|--|---|---|
| 1. | " System Design Parameters For Energy Security " | International Mining Conference & Exposition, IMEX 2014, LAS VEGAS, NEVADA, U.S.A. (September 23-25, 2014) | Invited Speaker at Conference Dr. M.Govinda Raj |
| 2 | Assessment of Surface and Sub-Surface Water Quality at Panandhro Lignite Mines, Gujarat - A Case Study | 2 nd International Conference on Earth Sciences and Engineering [ICEE 2015], 20th – 21st March, 2015 | R. P. Choudhary, A.S. Sheoran, V. Sheoran and M.R. Rahman |

Department of Metallurgical And Materials Engineering

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Month & Year | Author(s) |
|---------|--|--|--------------|---|
| 1 | Evaluation of Arc Welding Process using Digital Storage Oscilloscope, and High Speed Camera | IIW International Conference (IC 2014), 9-11 April 2014, New Delhi, pp. 498-503 | April, 2014 | N. Savyasachi, N. Chandrasekar, S. K. Albert, and A. O. Surendranathan |
| 2 | Effect of Reflow Time on Wetting Behavior, Interfacial Reaction and Shear Strength of Sn-0.3Ag-0.7Cu Solder/Cu joint | Proceedings of the International Conference on Soldering & Reliability, SMTA, Ontario, Canada, 13-15 | May 2014 | Mrunali Sona and K.N.Prabhu |
| 3 | Copper coatings on steel by friction surfacing | Intl Conf on Friction based materials, ICFP-2014, held at IISc., Bangalore, P 17 | Sept 2014 | Tarun Kumar Jugare, Jayalakshmi, Arun Augustin, Suma Bhat, Udaya Bhat K |
| 4 | Improving hot corrosion resistance of Ti-31 alloys by Thermal Spray Deposition | 6 th Asian Thermal Spray conference, held at Hyderabad, pp161-162 | Nov 2014 | Jegadeeswaran N, Ramesh M R, Udaya Bhat K |

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| 5 | Improving hot corrosion resistance of Cobalt based superalloys using HVOF sprayed oxide alloy powder coating | 6 th Intl Symopsium for Research Scholars on Metallurgy, Materials Science and Engineering, IIT Madras, p24 | Dec 2014 | Jegadeeswaran N, Ramesh M R , Udaya Bhat K |
| 6 | Flexible binder free electrode for ultracapacitors | 5 th Chemical Nanoscience Symposium, CNSN-5, Newcastle University, UK | March 2015 | L S Aravinda., K Udaya Bhat , Jiacheng Wei, Fawad Inam, B Ramachandra Bhat |
| 7 | Removal of Pollutants from Engine Exhaust Gas by Supported Nickel Oxide Nanofibrous webs Produced by Sol-gel Electrospinning | <i>International Conference on Polymers and Allied Materials ICPAM-2014</i> , IIT Patna, India | May 2014 | G. George, S. Anandhan |
| 8 | Interparticle Interactions and Lacunarity of Mechano-Chemically Activated Fly Ash | <i>Two Days- International Seminar on Frontiers of Ceramic and Materials Technology for cement Industries</i> , Indian Ceramic Society, Bangalore Chapter and Dept. of Ceramic and Cement Technology, PDA College of Engineering, Gulbarga, India | November 2014 | Akshata G. Patil, S. Anandhan |
| 9 | Influence of Polymeric Binders on Structural, Spectral and Magnetic Properties of NiO Nanofibers Obtained by Sol-Gel Electrospinning (Invited paper). | <i>International Conference on 'Advancements in Polymeric Materials APM-2015'</i> , CIPET- Chennai and IISc, Bangalore, India | February 2015. | G. George, S. Anandhan |
| 10 | Nanoclay-assisted Electrospinning of Poly(ethylene-co-octene)', | <i>International Conference on 'Advancements in Polymeric Materials APM-2015'</i> , CIPET- Chennai and IISc, Bangalore, India | February 2015. | B.Sachin Kumar, A.N.Prakrthi, S.Anandhan , |

Department of Physics

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s) |
|---------|---|--|--|
| 1. | Electrical studies on n-CdSe/p-ZnTe heterojunctions. | International conference on large area and flexible microelectronics, Bengaluru, 18 th -20 th Dec-2014 | Shashidhara , Prof. Kasturi V. Bangera, Prof. G.K.Shivakumar |
| 2. | Effect of Soaking temperature on properties of 50.8wt% BaO-9.3wt% CaO-5.6 wt% Al ₂ O ₃ -7.7 wt% B ₂ O ₃ -26.6 wt% SiO ₂ glass. | The first international Conference on Emerging Materials: Characterization and Application. Dec 4-6, 2014. Kolkata. | Soumalya Bhattacharya, H D Shashikala |
| 3. | Application of Taguchi method for optimization of process parameters of melt-quenching technique for hardness | The first international Conference on Emerging Materials: Characterization and Application. Dec 4-6, 2014. Kolkata. | Manoj Kumar Narayanan, H D Shashikala |
| 4. | Optical absorption and FTIR studies of silver-doped barium phosphate glasses | International Seminar on Glasses and other Functional Materials (isgfm), Dec 11-13, 2014. Guntur. | Manoj Kumar Narayanan, H D Shashikala |
| 5. | The effect of current density on structural, morphological, and optical properties of Porous silicon at the room temperature. | "2nd International Conference on Nanotechnology (ICNT)", February 19-22, 2015. Haldia, West Bengal | Martha Ramesh and H.S. Nagaraja |

NATIONAL CONFERENCES

Department of Applied Mechanics And Hydraulics

| Sl. No. | Title of paper | Journal name. Vol. Issue, Page No.s | Author(s) |
|---------|--|--|---|
| 1. | Solid waste management for the city of Karkala | National Conference on 'New horizons in Civil engineering' (NHCE-2013), MIT, Manipal, 12-13, April, 2013 | Vishwanath M, Arkal Vittal Hegde, and M K Nagaraj |
| 2. | Overview of Research on Semicircular Breakwaters | National Conference on 'New horizons in Civil engineering' (NHCE-2013), MIT, Manipal, 12-13, April 2013 | Binumol. S, Subba Rao and Arkal Vittal Hegde |

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| 3. | Effect of water depth on the performance of computational intelligence models in predicting wave transmission of horizontally interlaced multilayer moored floating pipe breakwater | INCHOE 2014, NIO, Goa, Feb, 2014 | S.G. Patil, S. Mandal, and A.V. Hegde |
| 4. | Transmission Performance of Submerged Semicircular Breakwaters for different Radii and Submergence Ratios | INCHOE 2014, Feb., NIO, Goa | A V Hegde and S M Naseeb |
| 5. | Reliability Studies of ANN and PSO-SVM in Predicting the Wave Transmission Coefficient in Horizontally Interlaced Multi-Layered Moored Floating Pipe Breakwater | NCEEM-2013, 18-19 October 2013 | A V Hegde, Mandal S, Harish N., Vishnu S Das |
| 6. | Hydraulic performance characteristics studies on emerged quarter circle breakwater | Proceedings of the First Annual Conference on Innovations and Developments in Civil Engineering, ACIDIC-2014, NITK Surathkal, India. pp. 995-1001. 2014 | Balakrishna K, Arkal Vittal Hegde and Binumol. S |
| 7. | Vulnerability Assessment of Karnataka Coast | Hydro-2014, MANIT Bhopal, 17-20, December, 2014 | Vittal Hegde A, and Akshaya B J. |
| 8. | Experimental studies on berm breakwater with different armour units | Fifth Indian National Conference on Harbour and Ocean Engineering (INCHOE 2014) held at CSIR-NIO Goa during 5-7 February, 215-219, (ISSN 0974-5904). | Prashanth Janardhan, B. Subba Rao, C. Kiran G. Shirlal and D. Balakrishna Rao K., |
| 9. | Genetic Algorithm Tuned Support Vector Machine for Damage Level Prediction of Non-Reshaped Berm Breakwater | Fifth Indian National Conference on Harbour and Ocean Engineering (INCHOE 2014) held at CSIR-NIO Goa during 5-7 February, 157-162 | Harish, N., Lokesh, Mandal, S., Rao S. and Patil, S.G. |
| 10. | Wave reflection by emerged seaside perforated quarter-circle breakwater | Fifth Indian National Conference on Harbour and Ocean Engineering (INCHOE 2014) held at CSIR-NIO Goa during 5-7 February, 626-631, (ISSN 0974-5904). | V.Hafeeda, S. Binumol, A. V Hegde and Subba Rao |

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| 11. | Study of The Influence of Berm Width on Wave Run-up and Run-Down With Artificial Armour Units | Proceedings of the "First Annual Conference on Innovations and Developments in Civil engineering, ACIDIC-2014" organised by NITK Surathkal, India from 19 th -20 th May 2014 | Sainath Vaidya, Prashanth J, Geetha Kuntoji, Subba Rao |
| 12. | Analysis of the effect of dredging on diaphragm wall type berthing structure | National Conference on Furthering Aspirations in Civil Engineering Techniques (FACET – 14), Department of Civil Engineering, Government College of Engineering Kannur, Kerala, 26-27 June 2014. | Yajneswaran. B, and Subba Rao |
| 13. | Sustainable management of scared groves of Kodagu district of Karnataka using GIS technology | Proceedings Lake 2014, 13th - 15th Nov 2014 | Shushma Shashi.B, Dwarakish G. S., Kiran K.B. |
| 14. | Land Use land Cover Change Detection using RS and GIS: A case study of NMPT Area, Karnataka | Proc. of the First Annual Conference on Innovations and Developments in Civil Engineering, NITK, Surathkal, India, 19-20 May 2014 | Nujuma Nazimudhin, Deepthi I Gopinath , P Sri Ram Kumar, Ganasri B P, A Raju and Dwarakish G S |
| 15. | Artificial Neural Networks for the prediction of waves along Dakshina Kannada coast | Proc. of the First Annual Conference on Innovations and Developments in Civil Engineering, NITK, Surathkal, India, 19-20 May 2014 | Deepthi I Gopinath , P Sri Ram Kumar, Nujuma Nazimudhin and Dwarakish G S |
| 16. | Neural networks for tidal level prediction at Karwar, west coast of India | Proc. <i>Fifth Indian National Conference on Harbour and Ocean Engineering (INCHOE-14)</i> , NIO, Goa, 5-7 February 2014 | G. S. Dwarakish and S. Rakshith |
| 17. | Analysis of Land Use/Land Cover distribution using Remote Sensing and GIS: A Case Study of Mulki River Basin, Karnataka | Proc. <i>Fifth Indian National Conference on Harbour and Ocean Engineering (INCHOE-14)</i> , NIO, Goa, 5-7 February 2014 | Ganasri B. P and Dwarakish G. S |
| 18. | A Comparative Analysis of Histogram Equalization based Contrast Enhancement Techniques for Detection of Shoreline using Satellite Images | Proc. <i>Fifth Indian National Conference on Harbour and Ocean Engineering (INCHOE-14)</i> , NIO, Goa, 5-7 February 2014 | Raju. A, Dwarakish G. S and D. Venkat Reddy |

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|-----|--|---|--|
| 19. | Land use/ Land cover changes around Rameshwaram Island, East coast of India | Proc. <i>Fifth Indian National Conference on Harbour and Ocean Engineering (INCHOE-14)</i> , NIO, Goa, 5-7 February 2014 | R.Gowthaman, G. S. Dwarakish and V.Sanilkumar |
| 20. | Study of Coastal Sediment Dynamics and Sand Spit Morphology Around Netravati – Gurpur Rivermouth Through Integrated Approach | Proc. <i>Fifth Indian National Conference on Harbour and Ocean Engineering (INCHOE-14)</i> , NIO, Goa, 5-7 February 2014 | G. S. Dwarakish |
| 21. | Wind and wave parameters of Indian ocean region using SAR data | Proc. A compendium of research papers prepared during year 2013, Space applications Centre Ahmedabad, January 2014, pp. E12-1 – E12-3 | Jagadeesha Pai B, Rajkumar, G.S. Dwarakish, A.Vittal Hegde |
| 22. | Solute transport modelling of saltwater intrusion in coastal aquifers | Proc. International conference on Emerging trends in Engineering, Department of Civil Engineering, NMAM Institute of Technology, NITTE, Udupi District, Karnataka. ISBN: 978-93-83083-80-0 | Lathashri.U.A and A. Mahesha |
| 23. | Solute transport modeling in tropical, coastal aquifer - A semi-conceptual approach | Int. Conf. Hydrology and Watershed Management. Eds: K. Ramamohan Reddy and B. Venkateswara Rao, Centre for Water Resources, Institute of Science and Technology, J.N.T.U., Hyderabad, India | Lathashri U.A. and A.Mahesha |
| 24. | Comparison of Atmospheric Correction Algorithms on Hyperion Data for Mineral study | Proceedings 27 th Session Kerala Science Congress held in ALAPPUZHA , 27 th -30 th January 2015 | Alina Nero , Amba Shetty and Chandan Kumar |
| 25. | An Integrated Approach For Arecanut Crop Health Monitoring | Proceedings of HYDRO 2014 International Conference on Hydraulics, Water resources & Environmental Engineering. (Dec. 18-20th, 2014) held at Bhopal | Bhojaraja B E, Amba Shetty, Nagaraj M K |
| 26. | Utility of Hyperspectral Data for Disease Detection in Arecanut Palms | National Conference on furthering Aspiration in Civil Engineering Techniques t organized by Dept. of Civil Engineering, Government | Megha V, B.E Bhojaraja Amba Shetty , M.K Nagaraj |

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| | | College of engineering, Kannur, Kerala 26-27 th June 2014. It got the Best Paper Award | |
| 27. | Ground Water Quality Assessment using Multivariate Analysis | Proceedings of the First Annual Conference on Innovations and developments in Civil Engineering held in NITK Surathkal 19-20 May, 2014 | Varada V, Mohammad Shahid and Amba Shetty |
| 28. | Fatigue analysis of fixed offshore platform | 1 st Annual Conference on Innovative and Developments in Civil Engineering, ACIDIC – 2014 held at NITK, Surathkal during 19 th to 20 th May, 2014. Pp 701-706. | Abhilash Reddy, Manu |

Department of Civil Engineering

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s) |
|----------------|--|---|---|
| 1 | Studies on prestressed reinforced foundation beds overlying weak grounds | 1st National Conference on Recent Advancements in Engineering and Technology, conducted by LBS College of Engineering, Kasargod, Kerala, pg. 66 volume of abstracts. | Jayamohan, J. and Shivashankar, R. |
| 2 | Electrical resistivity applications - a versatile testing technique in civil engineering | First Annual Conference on Innovations and Developments in Civil Engineering ACIDIC-2014 held during 19-20 May 2014 at NITK, Surathkal, Paper No. S-016-ACIDIC-2014. | Nimi Ann Vincent, Lokesh, K. N. and Shivashankar, R. |
| 3 | Analytical Modeling of Prestressed Reinforced Granular Beds overlying weak soils | (ID " FACET1403001 "), National Conference on 'Furthering Aspirations in Civil Engineering Techniques' -FACET'14, 26th-27th June 2014 at Govt. College of Engineering Kannur. | Jayamohan, J. and Shivashankar, R |
| 4 | Effect of vegetation on shear strength of shedi soils and slope stability | Indian Geotechnical Conference (IGC), 18-20 December 2014, JNTU, Kakinada, 10 pages, pg. 269 in volume of abstracts | Shivashankar, R., Biji, C.T., Hridya, S. and Venkat Reddy, D. |
| 5 | Behavior of Reinforced Granular Beds overlying weak soil with voids | National Conference on Recent Advances in Engineering and Technology (nCORETech2015), LBS College of Engineering, Povval, | Jayamohan, J., Shivashankar, R. and Nileena Suresh Kumar |

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| | | Muliyar, Kasaragod, Kerala, January 20-21, 2015 | |
| 6 | Organic Contaminant adsorption in soils | <i>Proceedings of the First Annual Conference on Innovations and Developments in Civil Engineering, ACIDIC-2014NITK, Surathkal, India. 19-20 May 2014</i> | Varghese Meera and Sunil B.M., |
| 7 | Utilization of iron ore mine tailings in concrete | Proceedings of the First Annual Conference on Innovations and Developments in Civil Engineering, ACIDIC-2014NITK, Surathkal, India. 19-20 May 2014. | Lolitha R, Sunil B.M. and Manjunath L.S |
| 8 | Impact of Lane Segregation on Delays at Signalized Intersections under Mixed Traffic Conditions | Proceedings of the First Annual Conference on Innovations and Developments in Civil Engineering, ACIDIC-2014, NITK, Surathkal, India. 19-20 May 2014. | Gowri, A. and Sivanandan, R. |
| 9 | Study of Vehicle Following Behaviour under Mixed Traffic Conditions | <i>National Conference on Technological Innovations for Sustainable Infrastructure, March 2015, NIT Calicut, India</i> | Basheer, S. and Gowri, A. |
| 10 | Performance Evaluation on anaerobic digestion of banana waste along with domestic wastewater | National Conference on Technological Innovations for Sustainable infrastructure, NIT Calicut, INDIA (March-2015). | Uma S, Arun Kumar Thalla and Jayanthi S |

Department of Chemical Engineering

| Sl. No. | Title of Paper | Conference Name, Place, Dates, Page Nos. | Author(s) |
|----------------|--|--|---|
| 1 | Effects of liquid swirling on gas to liquid mass transfer in two phase swirled bed reactor | New Approaches in Chemical Sciences & advancement in Renewable energy, New Delhi 2014 | Amit, Keyur Raval, D V R Murthy |
| 2 | Production of fuel by pyrolysis of waste plastic | New Approaches in Chemical Sciences & advancement in Renewable energy, New Delhi 2014 | Ved Tripathi, Gopal Mugeraya, Keyur Raval |
| 3 | Isolation of L-asparaginase producing endophytic microorganisms from the | AMI-55th Annual Conference, Association of Microbiologists of India - Empowering Mankind with Microbial Technologies (AMI-EMMT) -2014, | Prajna Rao K*, Prasanna D. Belur |

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|----|---|--|-------------------------------------|
| | rhizomes of <i>Costus speciosus</i> . | Coimbatore, India. Paper No. MD-6. November 12-14, 2014. | |
| 4 | Isolation of L-asparaginase producing endophytic microorganisms from the rhizomes of <i>Curcuma amada</i> . | National Conference On Recent Trends in Microbial Biotechnology (RTMB-2015), Osmania University, Hyderabad, India. Paper No. BEET-7. February 26-28, 2015. | Prajna Rao K*, Prasanna D. Belur |
| 5 | Studies on the production of oxalate oxidase from endophytes | AMI-55th Annual Conference, Association of Microbiologists of India - Empowering mankind with microbial technologies (AMI-EMMT 2014) by Association of microbiologists of India at TNAU, Coimbatore on Nov 12-14, 2014 | Kunal Kumar, Prasanna B.D |
| 6. | . Production of Fibrinolytic Enzyme from Marine Microorganisms. | 55th Annual Conference. National Conference on Empowering Mankind with Microbial Technologies (AMI-EMMT)-2014 Coimbatore, India, Paper No. MD-08, November 12-14. | Anusha Krishnamurthy*, Prasanna B.D |
| 7. | Marine microorganisms - A Source for the Production of Fibrinolytic Enzymes. | National Conference on Recent Trends in Microbial Biotechnology (RTMB)-2015 Hyderabad, Telangana, India, Paper No. BEET-033, February 26-28. | Anusha Krishnamurthy*, Prasanna B.D |
| 8. | Application of nanotechnology in waste water treatment | 10th Kannada Vignana Sammelana held at Mysore University, Mysore.2014.ISSN 2249 VIJNANA KANNADA(PRINT) | Shankamma K, Vidya Shetty K., |

Department of Chemistry

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s) |
|----------------|--|--|--|
| 1. | D-π-A Novel D-π-A Organic Dyes for Highly Efficient Dye- Sensitized Solar Cells. | National Conference on Advanced Materials for energy and environmental applications", Bharathiar University, Coimbatore-641 046, March 18-20, 2015 | Dickson D. Babu and AirodyVasudevaAdhikari. |
| 2. | Synthesis and catalytic application of Schiff base complexes in cross-coupling reactions | National Conference on Advances and Innovations in Chemical Sciences (NCAICS-2015), University of Mumbai, Vidyanagri, Santacruz (E). Mumbai-400 098, INDIA, February 12-13, 2015 | Rasheeda M. Ansari and BadekaiRamachandra Bhat |

Department of Computer Engineering

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s) |
|---------|---|---|--|
| 1. | An Efficient Methodology To Cluster Homogeneous And Heterogeneous XML Documents with reduced complexity | National Conference on Innovations in Information Technology (NCIIT-2015)" pageno.-38-45. | Aditya Kumar Mishra, K Vinay Kumar |
| 2. | Bi-Wall: A New DoubleGuard IDS for Web Services Security | National Conference on Frontiers in Applied sciences and Computer Technology (FACT'15), NIT Trichy. | Shruti Repally, Priyanka Das, K Chandrasekaran |
| 3. | Parallel Power Iteration Clustering (p-PIC) in Big Data Domain | National Conference on Big Data and Cloud Computing, NIT Trichy. | Piyush Shegokar, K.Chandrasekaran. |

Department of Electronics and Communication Engineering

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s) |
|---------|---|--|--|
| 1. | Implicit segmentation of Kannada characters in offline handwriting recognition using hidden Markov models | Proceedings of DAR 2014, Bangalore | Manasij Venkatesh Vikas Majjagi Deepu Vijayasenana |

Department of Electrical & Electronics Engineering

| Sl. No | Title of the paper | Conference Name., Place, Date, Page No, | Author(s) |
|--------|---|--|--|
| 1 | Stand-alone Integrated Wind and PV Powered Telecommunication Stations | AECT 2015 Manipal, Mangalore | Jnapika Mortha, Eva Pradhan, Dr. R. Kalpana and Saravana Prakash R |
| 2 | Use of charge simulation method in design of high voltage standard capacitor. | 7 th National Conference on Advances in Energy Conversion Technologies (AECT- 2015) , Department of Electrical Engineering, Manipal Institute of Techology, Manipal, paper ID AECT-62, 23-24, January 2015. | Dr G S Puneekar |

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|----|--|---|---|
| 3 | A Single-Stage Active Damped LCL-Filter-Based Grid-Connected Photovoltaic Inverter With Maximum Power Point Tracking | 18 th National Power Systems Conference (NPSC), IIT Guwahati, Assam, India 2014 | N. Sandeep, P.S Kulkarni, Udaykumar R. Y |
| 4 | Fuzzy logic approach for curtailed number of controllers for voltage control in grid connected wind farms | 18th National Power Systems Conference (NPSC 2014), Indian Institute of Technology Guwahati (IIT Guwahati), Assam, India, Dec 2014. | M. Shareeq M.T., M. Tukaram, and D. Thukaram |
| 5 | Simulation of HVDC Transmission System in PSCAD/EMTDC and Protection Scheme under Fault Conditions | Proc. Of National Conference On Power System Protection, Central Power Research Institute (CPRI), Bangalore, Karnataka, India, February, 27-28, 2015, pp.105-112 | Mohan M, K P Vittal |
| 6 | Recloser-Fuse Time Coordinated Operation Modeled in PSCAD/EMTDC | Proc. Of National Conference On Power System Protection, Central Power Research Institute (CPRI), Bangalore, Karnataka, India, February, 27-28, 2015, pp.64-75. | Maheshwar A P, K P Vittal |
| 7 | Control Strategy of Converters in Distributed Generation Systems: Review | 7 th National Conference on Advances in Energy Conversion Technologies (AECT- 2015) Department of Electrical Engineering, Manipal Institute of Technology, Manipal, January 23 – 24, 2015, | Rajarathinamala. P and D. N. Gaonkar |
| 8 | Droop Control Strategies in Microgrid -A Review | 7 th National Conference on Advances in Energy Conversion Technologies (AECT- 2015) Department of Electrical Engineering, Manipal Institute of Technology, Manipal, January 23 – 24, 2015, | Sikha V.S and D. N. Gaonkar |
| 9 | Development of System Identification Tool-Application | 7 th National Conference on Advances in Energy Conversion Technologies (AECT- 2015) Department of Electrical Engineering, Manipal Institute of Technology, Manipal, January 23 – 24, 2015, | Nandhakumar .M and D. N. Gaonkar |
| 10 | Design and Implementation of High Frequency transformer isolated ac-dc converter for switched mode power supplies | 18th National Power Systems Conference (NPSC 2014), Indian Institute of Technology Guwahati (IIT Guwahati), Assam, India, Dec 2014. | Dr. R. Kalpana, Prof. G. Bhuvaneshwari, Prof. Bhim Singh and Saravana Prakash P |

Department of Humanities, Social Sciences and Management

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s) |
|----------------|---|---|--|
| 1. | Role of Indian accrediting bodies in Higher Education" | National conference on Outcome Based Education " ,HSM Dept. NITK, Surathkal, January 16-17 , 2015. | Krishna Kishore and Sequeira A. H.," |
| 2. | " Effectiveness of Government Policies and programs for promoting women entrepreneurship in small enterprises " | National conference on 'MSMEs-Role in propelling economic development of India', R. V. Institute of Mangement , December 6, 2014. | Claret Mendonca and Sequeira A. H. |
| 3. | " Women entrepreneurs in small and medium enterprises and their access to capital" | Women's World Congress on 'Gender in a changing world', organized by University of Hyderabad, August 17-22, 2014. | Claret Mendonca and Sequeira A. H. |
| 4. | A Model for Financial Inclusion and Inclusive Growth- With Special Reference to Vulnerable Section Households | National Conference on Emerging Issues in Banking and Finance in a Technology Driven Economy , HSM Dept. , NITK,Surathkal , February 20th, 2015 | Manohar V. Serrao , Sequeira A.H.and K.V.M. Varambally |
| 5 | "Exiled in the Homeland: Palestinian Experience as in Sahar Khalifeh" | Annual National Conference on Space, Place, Travel, Displacement and Exile, 12-14 February, 2015, BITS Pilani Goa Campus. | Priyanka M. and Shashikantha K |
| 6 | Measuring Financial Inclusion and its Determinants | Two Day National Conference om Financial Inclusion in India: Potential and Gaps organized by Institute of Economic Research (IER), Dharwad During 30- 31 st October, 2014. | Rajesh Acharya H |

Department of Mining Engineering

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s) |
|----------------|---|---|---|
| 1 | Inpit Crushing and Conversing System(IPCCS) | Recent trends in Mechanized Mining in University College, Kottagudem School of Mines, date 27-28 Dece. 2014, Page 46-47 | Ch.S.N.Murthy, Balla Kalyan, A. Hemanth Reddy |

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|---|---|---|---|
| 2 | Automations in Mine-Health and Safety benefits | Mining Healthin National Institute of Mining Health, Kolar Gold Fields, 21-22 Feb 2015. Page-53-59 | Ch.S.N.Murthy, Balla Kalyan, A. Hemanth Reddy |
| 3 | Involvement of Behavioral and System factor in Occupational Injuries in Mines | ENTMS-2014, 14 th Annual Event on new equipment and new Technology Management and safety in mines and mineral based Industry. Date 11-12, May,2014. Bhuvaneshwar, India | Dr. B. M. Kunar |
| 4 | Pellet Plant - A Sustainable Utilization of Fine iron Ore Waste | National Conference on Technology for Sustainable Mining, Jodhpur, 13-14 Feb. 2015, 115-119. | R.P. Choudhary |

Department of Metallurgical & Materials Engineering

| Sl. No | Title of paper | Conference Name, Place, Dates, Page Nos. | Month & Year | Author(s) |
|---------------|---|---|-------------------------|--|
| 1 | Cooling performance of select vegetable Oils and ninerol-vegetable oil blend quench media | NMD ATM 2014, Pune, 12-15 | November 2014 | Pranesh Rao K.M. and K.N.Prabhu |
| 2 | Effect of varying content of Sr addition on dendrite coherency of near eutectic Al-11% Si alloy | NMD ATM 2014, Pune, 12-15 | 12-15 November 2014 | Vijeesh V and K.N.Prabhu |
| 3 | Wettability and Bond Strength of Sn-3.5 Lead-free solder alloy re-flowed on copper substrate, | NMD ATM 2014, Pune, | 12-15 November 2014 | Pranav Nayak, Rakesh Kamath, Mrunali Sona, K.N.Prabhu |
| 4 | Assessment of heat transfer in MWCNT-water nanofluids for quench heat treatment, | NMD ATM 2014, Pune | 12-15 November 2014 | Vignesh Nayak U. and K.N.Prabhu |
| 5 | Assessment of solder joint reliability of Sn-3.8-0.7Cu alloys on copper substrates as a function of reflow time | NMD ATM 2014, Pune | 12-15 November 2014 | Mrunali Sona and K.N.Prabhu |

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|---|--|--|---------------------|--|
| 6 | Wetting kinetics, kinematics and heat transfer characteristics of quench media: State of the Art, Invited Talk | NMD ATM 2014, Pune | 12-15 November 2014 | K. N. Prabhu |
| 7 | Effect of pre-zinc coating on morphology and adhesion strength of electrodeposited copper on aluminum | 17 th National Congress on Corrosion control, CSIR-CERI, Karaikudi. | Aug 2014 | Arun Augustin, Udaya Bhat K., Rajendra Udupa, A.Chitharanjan Hegde |
| 8 | Magnetic field-driven dewetting in thin liquid films on topographically patterned surfaces | International Congress on Computational Mechanics and Simulation (ICCMS) 10 - 13 December 2014, Chennai, Paper ID 396. | December 2014 | Sreeram K. Kalpathy and Navdeep Vyas. |

Department of Physics

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s) |
|----------------|--|---|--|
| 1. | Growth and characterization of cadmium selenide thin films. | National conference on Condensed Matter Physics and Applications, 27 th - 28 th March-2015. | Santhosh T.C.M., Prof. Kasturi V. Bangera, Prof. G.K.Shivakumar |
| 2. | Effective roll of annealing temperature on the structural properties of spray deposited Lead sulfide thin films. | National conference on Condensed Matter Physics and Applications, 27 th - 28 th March-2015. | E. Veena , Prof. Kasturi V. Bangera, Prof. G.K.Shivakumar |
| 3. | The effect of current density on morphological and wettability of Porous silicon at the room temperature. | National Conference on "ADVANCED MATERIALS FOR ENERGY AND ENVIRONMENTAL APPLICATIONS" – (AMEEA), March 18-20 th , 2015. Bharathiar University , Coimbatore | Martha Ramesh and H.S. Nagaraja |

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 | Recent trends in system application as applied to Civil Engineering | 09.01.2015 | TEQIP-II | Dr. M.K.Nagaraj & Dr. Manu |
| International Conference | Water Resources, Coastal and Ocean Engineering (ICWRCOE'15) | 12-14 March 2015 | NITK, TEQIP-II | Dr. G.S.Dwarakish |

Foreign Visitors to Department

| Name of visitor | Designation & Affiliation | Purpose of visit | Dates of visit |
|------------------------|--|---|-----------------------|
| Deepak, Ph.D. | Professor, Malaysia University, Malaysia | Interaction with faculty and students and given a lecture on details about his Institute and academic programme | 02.09.2004 |

Indian Visitors to Department

| Name of visitor | Designation & Affiliation | Purpose of visit | Dates of visit |
|-------------------------------|--------------------------------------|---|-----------------------|
| Baba M, Ph.D. | Director, CESS Tiruvanathapuram | Visited the Dept and expert lecture given on 'Coastal Engineering' | 11.04.2014 |
| D. Nagesh Kumar, Ph.D. | Professir, IISc., Bangalore | Expert for Ph.D viva voce exam | 19.05.2014 |
| Archana Sarkar, Ph.D. | Scientist D, NIH Roorkee | Visited and given a guest lecture 'Runoff modeling in Himalayan basins and impact of climate change on runoff' & ANN applications in hydrological modeling – Case studies | 19 & 20.06.2014 |
| Prasad Kumar Bhaskaran, Ph.D. | Professor, IIT, Kharagpur | Expert for Ph.D viva voce exam | 08.07.2014 |
| M.C.Deo, Ph.D. | Professor, IIT, Bombay | Expert for Ph.D viva voce exam | 10.07.2014 |
| Sanasiraj, Ph.D. | Professor, IIT Madras | Expert for curriculum revision | 12.09.2014 |

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|------------------------|-----------------------------|--------------------------------|------------|
| D. Nagesh Kumar, Ph.D. | Professir, IISc., Bangalore | Expert for curriculum revision | 15.09.2014 |
| B.Venkatesh, Ph.D. | Scientist, NIH, Balgaum | Expert for curriculum revision | 15.09.2014 |
| S.Mandal, Ph.D. | Scientist, NIO, Goa | Expert for curriculum revision | 15.09.2014 |
| K.N.Tiwari, Ph.D. | Professor, IIT, Kharagpur | Expert for Ph.D viva voce exam | 18.12.2014 |
| Sureshkumar, Ph.D. | Scientist, IIRS, Dehradun | Expert for Ph.D viva voce exam | 14.01.2015 |
| Hariprasad, Ph.D. | IIT Roorkee | Expert for Ph.D viva voce exam | 19.02.2015 |

Department of Chemical Engineering

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

Conducted a combined DPGC and DFC meeting on **20th September 2014** to validate the programme outcomes (PO) and progrme educational objectives (PEO) for the three M.Tech. progrmmes offered by the Department. We had invited the following experts from industry and academic institutions from different places.

1. Prof. A.K. Srivastava, IIT, Delhi,
2. Prof. Sandeep Roy, IIT, Bombay,
2. Prof. S.Sundaramoorthy, Pondicherry Engg. College, Pondicherry,
3. Ms. Usha P., Chemtex, Bangalore,
4. Mr.Vijay J.S., G.E., Bangalore

Conducted Conference

| Type of Event | Name of Event (Topic) | Dates & Duration | Sponsorers | Corodinator(s) |
|----------------------|---|--|------------------------|--|
| National Conference | Recent challenges in a atmospherich and earth sciences (RCAES-2014) | 27 th to 31 st Dec. 2014 | DST, MOES, TEQIP, NITK | B. Raj Mohan, Ph.D. P.E. JagadeshBabu, Ph.D. Keyur Raval, Ph.D. T.K.Jagannathan Ph.D. |

Participants: Faculties from other institutes, industry persons, research scholars
 Resource Persons:
 Shri. H S Varadarajan, Chief Fire Officer Mangalore District
 T N Singh, Ph.D. IITB, Mumbai
 Mr. K G Nanjappa, Deputy Director Inspector of Factories, Mangalore
 Balakrishna, Ph.D. Associate Professor, Dept. of Civil Engineering, MIT Manipal
 B C Meikap, Ph.D. Professor, Dept. of Chemical Engineering IIT Kharagpur
 Raj Mohan B, Ph.D. Associate Professor, Dept. of Chemical Engineering, NITK
 Lakshman Nandagiri, Ph.D. Professor Dept. of Applied Mechanics and Hydraulics, NITK
 G. Srinikethan, Ph.D. Professor, Dept. of Chemical Engineering, NITK
 Resource Persons:
 Katta Venkatramana, Ph.D. Professor, Dept. of Civil Engineering, NITK
 Sekar, Ph.D. Associate Professor, Dept. of Botany, Pachaiyappa College

N. Selvaraju, Ph.D. NITC, Assistant Professor, Dept.of.Chemical Engineering, NIT Calicut
 Jagannathan T K, Ph.D. Asst. Professor, Dept. of Chemical Engineering, NITK Dr. Ravikumar, Assistant Professor, Ph.D. Dept. of. Chemical / BioChemical Engg, Catholic, University of Daegu
 R J Krupadam, Ph.D. Sr.Scientist, Environmental Impact & Risk Assessment Division, NEERI Nagpur
 V. R. Sastry, Ph.D. Professor, Dept.of Mining Engineering, NITK
 Sarath Chandra Kar, Ph.D. Scientist – G NCMRWF, MoES, Noida, India
 D Venkat Reddy, Ph.D. Professor, Dept of Civil Engineering, NITK
 Dwarakish G S, Ph.D. Professor, Dept.of.Applied Mechanics and Hydraulics, NITK

Foreign visitors to Department

| Name of Visitor | Designation & affiliation | Purpose of Visit | Dates of Visit |
|------------------------|--|---|---------------------------------|
| Prof. Nitash P.Balsara | Professor of Chemical and Biomolecular Engineering, and Faculty Senior Scientist, Environmental Energy Technologies and Materials Sciences Division, Lawrence Berkeley National Laboratory, University of California, Berkeley | Invited by Indian Academy of Science to deliver lectures in premier institutes in India & deliver a Talk on "Batteries, Biofuels and the Sustainable Energy Landscape". | 18 th November, 2014 |

Special Lectures Delivered by the Industry Personnel:-

| Name of Experts | Topic of lecture | Dates of Visit |
|--|--|---------------------------------|
| Mr.Ramesh S, General Manager, (Quality Control & R&D),MRPL | Refinery Feedstock and products- Properties and Quality (including evaluation)". | 29 th October 2014 |
| Praveen P Senior Manager , MRPL | Expert lecture series on Petroleum Refining | 14 th November, 2014 |

Department of Civil Engineering

STTPs/Schools/Conferences/Seminars/Workshops, etc

| Type of Event | Name of Event | Dates & Duration | Sponsor(s) | Coordinator(s) |
|----------------------|---|-----------------------------|-------------------|--|
| Workshop | "Civil Infrastructure and Structural Materials" | 28-29 July, 2014 | TEQIP-II, NITK | Suresha S. N., Ph.D. & A.S.Balu, Ph.D. |

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|----------|--|------------------|----------------|---|
| Workshop | "Mitigation of Road Disasters" jointly organised by the Centre for Disaster Risk Reduction and the DCE, NITK, Surathkal. | 15-17 Sep., 2014 | TEQIP-II, NITK | Suresha S. N. Ph.D.& A.Gowri, Ph.D. Convener: S.S.Shrihari, Ph.D. |
|----------|--|------------------|----------------|---|

Foreign Visitors to Department

| Name of Visitor | Designation & Affiliation | Purpose of visit | Dates of Visit |
|------------------------|---|---|------------------------------|
| Prof T Asano | Professor, Kagoshima University, Japan | Academic Interaction | December 7-9, 2014 |
| Prof Y Kimura | Associate Professor, Kagoshima University, Japan | Academic Interaction | December 7-10, 2014 |
| Mr Keisuke Ota | Postgraduate student Ritsumeikan University, Japan | Academic Interaction & Internship | January 21-February 11, 2015 |
| Prof. Neeraj Buch | Professor and Head Department of Civil and Environmental Engineering, Michigan State University, USA. | Academic Interaction and to organise joint Workshop | July 27-30, 2014 |
| Prof. Venkatesh Kodur | Professor & Director, SAFE-D Center, Michigan State University, USA | Academic Interaction and to organise joint Workshop | July 27-30, 2014 |

Department of Computer Engineering

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

| Type of Event | Name of Event | Dates & Duration | Sponsor (s) | Coordinator(s) |
|----------------------|---|---|--------------------|--|
| Workshop | Simulation of Wired and Wireless Networks (SWN-2014) | Three day, 03 rd -05 th July 2014 | TEQIP-II | B.R. Chandavarkar, Ph.D. and Mohit P. Tahiliani, Ph.D. |
| Expert Lecture | Compiler Techniques for Efficient Assembly Code Generation", by Dr. Janakiraman V, Research Engineer, IBM Pvt. Ltd. | 02 nd August 2014 | Institute fund | Basavaraj Talawar, Ph.D. |

| Type of Event | Name of Event | Dates & Duration | Sponsor (s) | Coordinator(s) |
|-----------------------------------|--|--|--------------------|--|
| Expert Lecture | "Non-blocking Process Synchronization and Transactional Memory", by Dr. Nabendu Chaki, Department of Computer Science and Engineering, University of Calcutta, India | 13 th August 2014 | Institute fund | Annappa, Ph.D. |
| Workshop | Information Security and Cryptography | Two days, 15-16 th September 2014 | TEQIP-II | P. Santhi Thilagam, Ph.D. Alwyn R. Pais, Ph.D. |
| Expert Lecture | "Multicore Memory Hierarchy and SRAMs", by Mr. Viveka K R, | 20 th September 2014 | Institute fund | Basavaraj Talawa, Ph.D.r |
| Expert Lecture | "Advanced Topics in Memories- eDRAM, PCMs, Flash" by Dr. Balaji Jayaram, Staff Research Engineer, IBM Pvt. Ltd., Bangalore | 20 th September 2014 | Institute fund | Basavaraj Talawar, Ph.D. |
| Workshop | Cloud Computing and Big Data | One day, 30 th September 2014 | | K. Chandrasekaran, Ph.D. |
| Talk | "A Deterministic Measure and an Information Computing Machine", by Dr. Debabrata Saha, from USA | 11 th November 2014 | | K. Chandrasekaran, Ph.D. |
| Webinar | In Memory Databases | 13 th November 2014 | -- | Annappa, Ph.D. |
| Special Lectures | "Number Theory & Cryptography", by Prof. B.B. Amberker, Professor, Dept. of Computer Engineering, NIT Warangal | 13-14 th November 2014 | | Mr. Alwyn R. Pai |
| A Meeting cum Interaction session | Prof. Satish K. Tripathi, President, University at Buffalo, NY, USA | 14 th November 2014 | -- | K. Chandrasekaran, Ph.D. |

| Type of Event | Name of Event | Dates & Duration | Sponsor (s) | Coordinator(s) |
|--------------------------------|---|---|--------------------|---|
| Workshop | Mobile Health | One day, 21 st November 2014 | TEQIP II | Jeny Rajan, Ph.D. |
| Talk | "Open Power and Emerging Areas", by Mr.Dipankar Sarma, Distinguished Engineer, IBM, Bangalore | 28 th November 2014 | -- | K. Chandrasekaran, Ph.D. |
| Third International Conference | Eco-friendly Computing and Communication Systems –ICECCS 2014 | Four days, 18 th – 21 st December, 2014 | Institute fund | K. Chandrasekaran, Ph.D. Mohit P. Tahiliani |
| Workshop | Data Science | Two days 27 th – 28 th February 2015 | TEQIP II | Annappa, Ph.D. Mr. B.R. Chandavarkar |
| Workshop | Microsoft HACKATHON | 07-08 feb 2015 22-22 | -- | K. Chandrasekaran, Ph.D. |
| Expert Lecture | "DNS Security" by Balaji Rejandran, Ph.D. Senior Technical Officer, C-DAC, Bangalore | 27 th -28 th March 2015 | Institute fund | K. Chandrasekaran, Ph.D. |
| Expert Lecture | "Penetration Testing" by Mr. Manish Kumar Assistant Professor and Consultant, MSRIT Bangalore | 27 th -28 th March 2015 | Institute fund | K. Chandrasekaran, Ph.D. |
| Expert Lecture | "Understanding the correctness requirements of software transactional memory systems" by Satya Peri, Ph.D. Assistant Professor, Department of Computer Science and Engineering, IIT Hyderabad | 25 th March 2015 | Institute fund | Annappa, Ph.D. |

Foreign Visitors to Department:

| Name of the Visitor | Designation & Affiliation | Purpose of visit | Date of Visit |
|-------------------------------|---|---|--|
| Prof.Raj Acharya | Dept. of CSE at Penn State University, U.S.A. | Opinion sharing on POs, PEOs, OBEs of NBA PG SAR & Expert Speaker for Workshop Cloud Computing and Big Data | 30 th September 2014 |
| Debabrata Saha, Ph.D. | USA | Gave a talk on "A Deterministic Measure and an Information Computing Machine" | 11 th November 2014 |
| Prof. Satish K.Tripathi | President, University at Buffalo, NY, USA | A meeting cum interaction session with faculty members | 14 th November 2014 |
| Dharma P. Agrawal, Ph.D. | Ohio Board of Regents Distinguished Professor and Director, Center for Distributed and Mobile Computing, EECS Department, University of Cincinnati | ICECCS 2014, delivered a keynote address on Magic of Wireless Sensor Networks | 18 th – 21 st December, 2014 |
| Zoran Stamenkovic, Ph.D. | IHP, GmbH, Frankfurt (Oder), Germany | ICECCS 2014, delivered a keynote address on "Low Power Design for Integrated Circuits" | 18 th – 21 st December, 2014 |
| Prof.. San Murugesan | BRITE Professional Services and University of Western Sydney, Australia and Editor in Chief, IEEE IT Professional | ICECCS 2014, delivered a keynote address on "Green Computing" | 18 th – 21 st December, 2014 |
| Professor Ashok Deshpande PhD | Founding Chair: Berkeley Initiative in Soft Computing (BISC) - UC Berkeley CA; Guest Faculty: University of California Berkeley; Visiting Professor: Indian Institute of Technology, Mumbai India; Adjunct Professor: College of Engineering Pune (COEP) India; Former Deputy Director: | ICECCS 2014, delivered a keynote address on "Fuzzy Relational Calculus on Energy Options?-Towards Decision Making under Risk and Uncertainty" | 18 th – 21 st December, 2014 |

| Name of the Visitor | Designation & Affiliation | Purpose of visit | Date of Visit |
|--|---|--|--|
| | National Environmental Engineering Research Institute (NEERI)/CSIR | | |
| Nirmalya Roy, Ph.D. | Analytics, by Assistant Professor, Department of Information Systems, University of Maryland Baltimore County, Baltimore, USA | ICECCS 2014, delivered a keynote address on "Green Building Energy" | 18 th – 21 st December, 2014 |
| Vinod Namboodiri, Ph.D. | Associate Professor and Graduate Coordinator, Wichita State University | ICECCS 2014, delivered a keynote address on "Smart Grids and Green Mobile Computing: Two Frontiers of Eco-friendly Computing and Communications" | 18 th – 21 st December, 2014 |
| Prof. D.K. Arvind | Professor, University of Edinburg | ICECCS 2014, delivered a keynote address on "Speckled Computing" | 18 th – 21 st December, 2014 |
| Mr. Yann Busnel and Mrs. Esther Lalau Keraly | Delegation from ENSAI (National Graduate School for Statistics and Data Analysis) | Interaction with CSE & IT faculty members and students | 26 th February 2015 |

Department of Chemistry

| Type of Event | Name of Event | Dates & Duration | Sponsor(s) | Coordinator(s) |
|--|-----------------------|--------------------------------|---|-----------------------|
| BARC Outreach program | BARC Outreach program | 10 th February 2015 | BARC & NITK Surathkal | ArunM .Isloor, Ph.D. |
| Plastic waste & E-waste management awareness program | One day workshop | 31 st January 2015 | Small industries & plastic manufacturers association, Mangalore | Arun M. Isloor, Ph.D. |

Foreign Visitors to Department: 01

| Name of Visitor | Designation & Affiliation | Purpose of visit | Dates of Visit |
|------------------------------|---|------------------|----------------|
| Valiyaveettil, Suresh | Associate Professor, National University of Singapore | Guest lecturer | |

Department of Electronics And Communication Engineering

| Type of Event | Name of Event | Dates & Duration | Sponsor | Coordinator(s) |
|------------------|---|-----------------------------------|--------------|---|
| Seminar | Lecture on Micro-fluidic Biochips for Automating Biochemical Protocols – A Walk Through by Dr. Bhargab B. Bhattacharya Professor, Computer Science & Engg, Indian Statistical Institute, Calcutta | 5th March 2014 | Dept. of ECE | Muralidhar Kulkarni, Ph.D. & M S Bhat, Ph.D. |
| Finishing School | Finishing School conducted for PG students | between 12-08-2014 and 06-11-2014 | TEQIP II | U Sriapti, Ph.D. |
| Workshop | FPGA Design - An Industry perspective | August 22-24, 2014 | TEQIP II | U Sriapti, Ph.D. |
| STTP | Photonics, Optical Communication Systems and Networks | September 8-10, 2014 | TEQIP II | Muralidhar Kulkarni, Ph.D. U Sriptati, Ph.D. |
| Seminar | Reversible Computing: Low Power Applications by Dr. Hafizur Rahaman Professor, Dept. of Information Technology, Indian Institute of Engg. Science & Technology (IIST), Kolkata | 28th October 2014 | Dept. of ECE | M S Bhat, Ph.D. |
| Winter School | NITK – CMU Joint Winter School 2014 | December 10-24, 2014 | TEQIP II | Prof Bhiksha Raj, Carnegie Mellon University, Pittsburgh, USA Prof Sumam David S, NITK |
| Conference | ISED 2014 | December 15-17, 2014 | TEQIP II | M S Bhat, Ph.D. Muralidhar Kulkarni, Ph.D. |
| Seminar | Internet of Things (IoT) by Atul Sharma, Gila Services Pvt. Ltd Bangalore | 9th January 2015 | Dept. of ECE | Muralidhar Kulkarni, Ph.D. N S V Shet, Ph.D. |
| Seminar | Cardiology by Mr. Anand Madanagopal, Cardiac Design Labs, Bangalore | 28th January 2015 | Dept. of ECE | M S Bhat, Ph.D. |

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|----------|---|-------------------|--------------|------------------------------------|
| STTP | Introduction to Biomedical Electronics and Biomedical Imaging | March 2-3, 2015 | TEQIP II | M S Bhat, Ph.D. |
| Workshop | Intel Galileo - Hands-on embedded system | March 13-14, 2015 | TEQIP II | Ramesh Kini, Ph.D. Aparna P, Ph.D. |
| Seminar | Optimal Signaling for Multi-Level Amplitude-Shift Keying with Single-Input Multiple-Output and Noncoherent Reception by Ranjan K. Mallik Dept of Electrical Engg. IIT Delhi | 16th March 2015 | Dept. of ECE | M S Bhat, Ph.D. |

Foreign Visitors to Department

| Name of Visitor | Designation & Affiliation | Purpose of visit | Dates of Visit |
|--|---|---|-------------------------------|
| Dr. T Kirubarajan | Professor & Canada Research Chair in Information Fusion Associate Chair | Introduction to Radar Target Tracking Radar Target Tracking - I Radar Target Tracking - II Multiple Target Tracking Entrepreneurship Overview of Graduate Studies at McMaster University, Canada | August 21-23, 2014 |
| Dr. Vijayan K Asari | Professor in Electrical and Computer Engineering Ohio Research Scholars Endowed Chair in Wide Area Surveillance Direction, University of Dayton Vision Lab, Dayton, USA | Advanced Image Analysis for Automatic Object, Detection, Tracking and Recognition in Complex Environment Conditions | 27th August 2014 |
| Prof. Raj Acharya | Professor CSE Dept. Penn State Univ | To meet faculty members | 30th September 2014 |
| Prof. Shiela Hemani Dr. Kaushik Choudhury | North-eastern University, Boston USA | Meeting with faculty and students | 7 th November 2014 |
| Prof Bhiksha Raj | Associate Professor, Carnegie Mellon University, Pittsburgh, USA | NITK – CMU Joint Winter School 2014 | December 10-24, 2014 |
| Prof Rita Singh | Research Faculty, Carnegie Mellon University, Pittsburgh, USA | | |
| Mr Pulkit Agrawal | Research Scholar, University of California @ Berkeley, USA | | |

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|-----------------------|--|---|-------------------------|
| Prof. Rolf Drechsler | Professor, Director, University of Bremen, Bremen, Germany Cyber-Physical Systems Group at the German Research Center for Artificial Intelligence (DFKI) | ISED 2014 Keynote Speech | December 15-17, 2014 |
| Masahiro Fujita | University of Tokyo, Japan, and Shunpei Yamazaki, Semiconductor Energy Laboratory Co., Ltd., Japan | | |
| Dr. Zoran Stamenković | IHP, GmbH, Frankfurt (Oder), Germany | | |
| Prof Bhiksha Raj | Associate Professor, Carnegie Mellon University | | |
| Prof. Mark Niedre | Professor, Dept. of Electrical & Computer Engineering, Northeastern University, Boston, USA | Short course on Introduction to Biomedical Electronics and Biomedical Imaging | March 2-3, 2015 |

Department of Electrical & Electronics Engineering

STTPs/Schools/Conferences/Seminars/Workshops, etc

| Type of Event | Name of Event | Dates & Duration | Sponsor(s) | Coordinator(s) |
|-------------------------|--|---|--------------------------------|--------------------------------------|
| Short Term Course(STTP) | Power Electronics Applications and Technology in Present Energy Scenario | 4 th March 2015-6 th March 2015 | TEQIP –Phase II NITK Surathkal | Vinatha, Ph.D. and R. Kalpana, Ph.D. |
| One day Expert lecture | Expert lecture on Morphological aspects of Image Processing by Prof. B S Dayasagar | 12-04-2014 | TEQIP-II | A Chaturvedi, Ph.D. |
| One day Expert lecture | Expert lecture on Image Processing By Prof. B L Deekshatulu | 8-08-2014 | TEQIP-II | A Chaturvedi, Ph.D. |

Department of Humanities, Social Sciences and Management

STTPs/Schools/Conferences/Seminars/Workshops, etc

| Type of Event | Name of Event | Dates & Duration | Sponsor(s) | Coordinator(s) |
|---------------|--|--|--|--|
| Conference | 1) Two day national conference on outcome based education 2) National Conference on Emerging Issues in Banking and Finance in a Technology Driven Economy | 16 &17 January February 20th, 2015 | NITK SBI , Surathkal, Karnataka Bank, Syndicate Bank | Bijuna C Mohan, Ph.D. Dhishna P, Ph.D. Suprabha K. R., Ph.D. |
| Workshop | 1.Research Methodology 2) Mobile Health | 16th November 2014 21st November 2014 | NITK NITK | Pavan S, Ph.D. A.H. Sequeira, Ph.D. Sreejith A, Ph.D. Jeny Rajan, Ph.D. |
| Seminar | 1. 'Capital Market Awareness Program' By Mr. Sumeet Nayak, Vice President, Lotus Knowlwealth | 15 October 2014 | NITK | Suprabha, Ph.D. A. H. Sequeira, Ph.D. |
| | 2. 'Monetary Economics and Business Cycles' By Dr. Kishore Chandra, EPGP II, Bangalore, | 10 October 2014 | NITK | Prof. A. H. Sequeira, Ph.D. Mr. C. Saho |
| | 3. 'Financial Education'- in collaboration with Securities and Exchange Board of India by Mr. Anil Kumar M, Research Scholar and SEBI Resource Person | 19September 2014 | NITK | A.H.Sequeira, Ph.D. |

Foreign Visitors to Department

| Name of Visitor | Designation & Affiliation | Purpose of visit | Dates of Visit |
|-----------------------|---------------------------|-------------------|----------------|
| Prof. Laurence Larghi | HEIG-VD , Switzerland | Summer university | November 2014 |

Department of Mathematical & Computational Sciences

| Type of Event | Name of Event | Dates & Duration | Sponsor(s) | Coordinator(s) |
|---------------|---|-----------------------|--|---|
| Workshop | Functional Analysis and Operator Algebras | 02-07, June 2014 | NBHM & NITK Surathkal | P. Sam Johnson, Ph.D. and V. Murugan, Ph.D. |
| Conference | 23rd International Conference on Interdisciplinary Mathematical, Statistical and Computational Techniques | 18-20th December 2014 | Forum for Interdisciplinary Mathematics, NITK, TEQIP NITK Surathkal, Karnataka Bank, Epson India, SBI NITK Surathkal Branch. | S.M. Hegde, Ph.D. |

Foreign Visitors to Department:

| Name of Visitor | Designation & Affiliation | Purpose of visit | Dates of Visit |
|--------------------|---|--|-------------------------|
| Prof. Junzo Watada | Professor, Graduate School of Information, Production and Systems, Waseda University, Japan | Delivered a talk entitled "Building Linear Regression Model: Statistical Model to Fuzzy Model" on 16th of December, 2014 at 4 p.m. | 16th of December, 2014. |

Department of Information Technology

STTPs/Schools/Conferences/Seminars/Workshops, etc

| Type of Event | Name of Event | Dates & Duration | Sponsor(s) | Coordinator(s) |
|----------------|--|--|---------------|----------------------------|
| Expert Lecture | IT300-Parallel Computing by Dr. Prakash S R Principal Member of Technical Staff (PMTS) AMD India Pvt. Ltd. Bangalore | 21/08/2014 22/08/2014 23/08/2014 | IT Dept. NITK | Ananthanarayana V S, Ph.D. |
| Expert Lecture | Advances in Web Technologies - An Industry Perspective by Mr. Ashish Agarwal, Group Technology Manager, Infosys Technologies | 1/9/2014 | IT Dept. NITK | Ananthanarayana V S, Ph.D. |

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|----------------|---|-----------|---------------|-----------------------------------|
| Expert Lecture | Internet of Things by Atul Sharma Co-founder of IotaCell Technologies | 9/1/2015 | IT Dept. NITK | Ananthanarayana V S, Ph.D. |
| Workshop | Capacity Planning in Virtualization by Dell Bangalore | 20/3/2015 | TEQIP-II | Mr. Biju R Mohan, Mr. Dinesh Naik |

Foreign Visitors to Department

| Name of Visitor | Designation & Affiliation | Purpose of visit | Dates of Visit |
|-------------------|---|------------------|-----------------|
| Prof. Raj Acharya | Professor & Head, Dept. of CSE, Pennsylvania state University USA | MOU | 30th Sept. 2014 |

Department Of Mechanical Engineering

STTPs/Schools/Conferences/Seminars/Workshops, etc

| Type of Event | Name of Event | Dates & Duration | Sponsor(s) | Coordinator(s) |
|--------------------------|--|--------------------|--------------------------------------|--|
| Expert Lecture | Expert Lecture on Heat Conduction | 2/25/2015, 2 hr | Department of Mechanical Engineering | N. Gnanasekaran, Ph.D. |
| Expert Lecture | Expert Lecture on Mind and its Control | 3/24/2015, 2 hr | TEQIP | N. Gnanasekaran, Ph.D. |
| Expert Lecture | Expert Lecture on Overview of intelligent manufacturing system on qualitative manufacturing of tools in the tooling industries | | | |
| Expert Lecture | Expert Lecture on Publication Ethics and Journal Paper writing | 18th December 2014 | Department of Mechanical Engineering | Mrityunjay Doddamani, Ph.D. |
| International Conference | International Conference on Polymer Composites (ICPC-2014) 19-20 December 2014 | 19-20 DEC 2014 | TEQIP & CSIR | G C MOHAN KUMAR, Ph.D., RAMESH, Ph.D.P JEYRAJ AND MR DODDMANI, Ph.D. |

Foreign visitors to Department

| Name of the visitor | Designation and Affiliation | Purpose of visit | Date of visit |
|----------------------------|--|-------------------------|----------------------|
| Dr. Prasanna Kumar T S | Former Professor, IIT Madras | Guest Lecture | 2/25/2015 |
| Swami Atmashraddanadha | Editor, Vedanta Kesari, Ramakrishna mission, Chennai | Guest Lecture | 3/24/2015 |
| Dr. Nikhil Gupta | Professor, New York University, New York, USA | Guest Lecture | 18th December 2014 |

Department Of Metallurgical & Materials Engineering

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

| Type of Event | Name of Event | Dates & Duration | Sponsor(s) | Coordinator(s) |
|----------------------|--|-----------------------------|--|---|
| Workshop | Workshop on Engineering Failure Analysis (EFA-2014): | Aug 1-2, 2014 | NITK+Society for Failure Analysis+Registration | Udaya Bhat K, Ph.D. + Parameswaran, Ph.D. |
| Workshop | COMSOL Multiphysics modeling workshop | 23 May 2014 | COMSOL India, and MEA- NITK | Sreeram K. Kalpathy |
| Workshop | Seminar series on Mechanical Testing and Characterization of Materials | 31 Oct 2014 | Zwick Roell Testing Machines Pvt. Ltd. | Sreeram K. Kalpathy |
| National Workshop | Non-Ferrous Extractive Metallurgy | 25 - 26 Feb 2015 | TEQIP-II, NITK | Shashi Bhushan Arya, Sreeram K. Kalpathy |

Foreign Visitors to Department:

| Name of Visitor | Designation & Affiliation | Purpose of visit | Date of visit |
|------------------------|---|---|----------------------|
| Mr. Robert Strehle | Zwick, Germany | Speaker, Workshop on Mechanical Testing & Characterization of Materials | October 31, 2014 |
| Dr. Taik Nam Kim | Professor Dept. of Materials Science & Engineering, Paichai Univ., Daejeon, Korea | Special Lecture | 4-12-2015 |

CONSULTANCY PROJECTS

Department of Applied Mechanics And Hydraulics

| Name of consultancy job | Client | Name of investigators (s) | Consultancy amount (Rs. In Lakhs) |
|---|--|---------------------------|------------------------------------|
| Topography survey work of the submergence area | M/s Sahasraligeshwara Power Pvt. Ltd., Bangalore | S.G.Mayya, Ph.D. | 0.88 |
| Towards collection & testing of water sample from NMPT area | NMPT, Panambur | M.K.Nagaraj, Ph.D. | 3.00 |

Department of Chemical Engineering

| Name of Consultancy Job | Client | Name of Investigator(s) | Period | Consultancy Amount (Rs.) |
|---|--|--------------------------|------------------------|--------------------------|
| Conducting of Environmental assessment on AAQ, Noise, DG Stack and Water analysis, | New Mangalore Port Trust | HOD with all faculties | March 2014- April 2015 | 455169/- |
| DG Stack, ETP water , drinking water, Metal etc. | M/s. Petronet, United Corp. Ltd., KPCL, Fisheries, Sequent Baikampady, , AB Shetty Dental College also Private parties | -do- | -do- | 104598/- |
| DG Stack | Manipal Technologies Ltd. | -do- | -do- | 53483/- |
| Design & Suggestions for Two STP's of 1.5 MLD capacity and One STP of 1.8 MLD capacity Sewage treatment plant using MBBR Technology | M/s. Herbert Enviro Care Systems (P) Ltd | Dr.G. Srinikethan, Ph.D. | November 2014 | 11236/- |
| Consultancy | | Keyur Raval, Ph.D. | August 2014 | 11236/- |

Department of Civil Engineering

| Name of Consultancy Job | Client | Name of Investigator(s) | Period | Consultancy Amount (Rs) |
|--|--|---|---------------|--------------------------------|
| Proof checking of Structural drawings for upgradation of Rajaji Medical College, Madurai | HLL Lifecare Limited, Thiruvananthapuram | K Venkataramana, Ph.D. K S Babu Narayan, Ph.D. | 2014-2016 | Rs.7 lakhs |
| Proof checking of Structural drawings for BDA housing project, Bangalore | K Gowda & Co. Bangalore | K Venkataramana, Ph.D. B R Jayakeshmi, Ph.D. | 2015-2016 | Rs 5 lakhs |

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. | 01-07-2013 01-05-2014 | Rs. 9.0 Lakhs |
| Technical Consultancy for Selection of Currency Note Sorting Machines | Corporation Bank | U Sripati, Ph.D. T Laxminidhi, Ph.D. | 15-10-2013 31-04-2014 | Rs. 7.5 Lakhs |

Department of Humanities, Social Sciences & Management

| Name of Consultancy Job | Client | Name of Investigator(s) | Period | Consultancy Amount (Rs) |
|--|-----------------------|---|---------------|--------------------------------|
| Market study to find out distributor and consumer perception | Classic Fusion Metals | Bijuna C Mohan, Ph.D. & K V Gangadharan, Ph.D. | Ongoing | |

Department of Mechanical Engineering

| Name of Consultancy Job | Client | Name of Investigator(s) | Period | Consultancy Amount (Rs) |
|--|-------------------|--------------------------------|---------------|--------------------------------|
| Damping characterization of different material | Different clients | K V Gangadharan, Ph.D. | 2013-2014 | 0.10 Lakhs |
| Vibration analysis of Sinter Plant | SESA Goa | K V Gangadharan, Ph.D. | 2013-2014 | 1.00 Lakhs |

Department of Mining Engineering

| Name of Consultancy Job | Client | Name of Investigator(s) | Period | Consultancy Amount (Rs) |
|--|--|---|------------------------------------|--------------------------------|
| Ground Vibration Monitoring | The Deputy Director Dept. of Mines and Geology Tumkur Karnataka | V.R.Sastry, Ph.D. | From 1/04/2014 to 31/03/2015 | 84,270/- |
| Slope stability study and risk assessment at limestone mines | M/s. Ramco Cements Ltd. Govindapuram, Sendwai Road Ariyalumtaluk, tamilnadu 620713 | M.Aruna, Ph.D. | From 1/04/2014 to 31/03/2015 | 4,49,440/- |
| Rock Dredging of Iron Harbour Chand and TC in VPT | M/s. Dharti Dredging & Infrastructure Ltd., Punjagutta, Hyderabad | V.R.Sastry, Ph.D. | From 1/04/2014 to 31/03/2015 | 7,58,430/- |
| Impact of lasting operating on the stability of water tank of Kerala water Authority | Sri D. Bijulae, Muthathala Post, Kollaam Dist. Kerala | V.R.Sastry, Ph.D. | From 1/04/2014 to 31/03/2015 | 2,24,720/- |
| Controlled Blasting Methodology | Bangalore Metro Railway Corporation LTD. K.H.Road,Shanthi Nagar,Bangalore-560027 | V.R.Sastry, Ph.D.& K Ram Chandar, ph.D. | From 1/04/2014 to 31/03/2015 | 35,00,000/- |
| Scientific study to determine optimum pit slop angle in opencast mines in the state of Karnataka | The Department of Mines &Geology, Govt. of Karnataka | M.Aruna, Ph.D. & Harsha Vardhan, Ph.D. | From 1/04/2014 to 31/03/2015 | 48,95,067/- |
| Ground vibration study | M/s. RNS Infrastructure Ltd.Bangalore | Prof.V.R.Sastry, Ph.D. | From 1/04/2014 to 31/03/2015 | 84,270/- |

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|---|--|--|------------------------------|------------|
| Survey and Demarcation of M.L No. 2394 at Bagalkot | M/s. Doddannavar Brothers Heremagi Ramtal 7 h.S Ihole Iron Ore Mine Baggalkot. | M.Aruna, Ph.D. & Harsha Vardhan, Ph.D. | From 1/04/2014 to 31/03/2015 | 80,000/- |
| Scientific study for usage and optimization of ANFO in OC Mines of SCCL | The General Manager (R&D) M/s. Singareni collieries Company Ltd.Kothegudem - | V.R.Sastry, ph.D. | From 1/04/2014 to 31/03/2015 | 7,25,846/- |
| Slope Stability Studies at C.N.halli Mines | M/s. Mineral Enterprises Ltd. No.49, 3 rd Floor, West Wing Khanija Bhavan Bangalore-560001 | M. Aruna, Ph.D. | From 1/04/2014 to 31/03/2015 | 9,000/- |
| Slope Stability Studies at Ramghad iron ore Mines | M/s. Zeenath Transport Company, Bellary | Aruna, Ph.D. & Harsha Vardhan, Ph.D. | From 1/04/2014 to 31/03/2015 | 1,24,720/- |
| Consultancy work for carrying out sub soil investigation. | M/s. New Mangalore Port Trust Panambur, Mangalore | V.R Sastry, Ph.D. | From 1/04/2014 to 31/03/2015 | 7,72,475/- |
| Slope Stability Study at Jambhunatha Iron Ore & Red oxide Mine | M/s. Goggashanthia &Brothers Mine Owner P.B No.-4 Mehro, Co-operative Colony Hospet-583203 Bellary Dist. | V.R Sastry, Ph.D. | From 1/04/2014 to 31/03/2015 | 1,70,600/- |
| Study of Ground Vibrations in stone quarries Gollarihalli village, Mandya | Department of Mines & Geology Mandya | V.R Sastry, Ph.D. | From 1/04/2014 to 31/03/2015 | 84,270/- |

| | | | | |
|--|--|--------------------------------------|------------------------------|-------------|
| Ground Vibration Study | M/s. New Bharath Stone crusher & hallow Bricks Industries, Kannur, Kerala-670648 | V.R Sastry, Ph.D. | From 1/04/2014 to 31/03/2015 | 84,270/- |
| Counter survey using total station | The Department of Mines &Geology, Govt. of Karnataka | Aruna, Ph.D. & Harsha Vardhan, Ph.D. | From 1/04/2014 to 31/03/2015 | 32,25,210/- |
| Counter survey using total station | The Department of Mines &Geology, Govt. of Karnataka | Aruna, Ph.D. & Harsha Vardhan, Ph.D. | From 1/04/2014 to 31/03/2015 | 7,73,425/- |
| Ground Vibration Study due to Blasting | St.Mary's Stone Quarry Arakkuzha village Kerala | V.R Sastry, Ph.D. | From 1/04/2014 to 31/03/2015 | 1,68,540/- |
| Slope stability Analysis –KIOM, NMDC Ltd. | Dy. Dy.General Manager(Mines) NMDC Ltd.Donimalai | V.R Sastry, Ph.D. | From 1/04/2014 to 31/03/2015 | 2,02,248/- |
| Study for ground vibration due to blasting | Blue Mountain Granites Vellikulangara Post Trichur District Kerala-680693 | V.R Sastry, Ph.D. | From 1/04/2014 to 31/03/2015 | 84,270/- |
| Study of impact of blasting operations.. | Oommen Thomas, Bright House, Pattanapuram Post | V.R Sastry, Ph.D. | From 1/04/2014 to 31/03/2015 | 2,24,720/- |
| Study of the impact of Ground vibrations caused due to Blasting operations | M/s. Unity Stone Industries Miyar Nalkur post Udupi | V.R Sastry, Ph.D. | From 1/04/2014 to 31/03/2015 | 1,68,540/- |
| Ground vibration study at planters Stone Mine. | Planters stone Mine Ezathumugham Post Kerala | V.R Sastry, Ph.D. | From 1/04/2014 to 31/03/2015 | 84,270/- |

| | | | | |
|--|--|-------------------|------------------------------------|------------|
| Study of Ground Vibration due to blasting | Esskay Industries Thayoor P.o. Velur Thrissure- 680601, Kerala | V.R Sastry, Ph.D. | From 1/04/2014 to 31/03/2015 | 84,270/- |
| Study of Impact of Ground Vibrations caused due to blasting in tunnel on Saddle dam, Bhadra Reservoir, Shimoga | M/s. Sri Sai Deepthi Power Pvt.Ltd., Lalbagh Road, Bangalore-27 | V.R Sastry, Ph.D. | From 1/04/2014 to 31/03/2015 | 1,68,540/- |

Department of Metallurgical & Materials Engineering

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs) |
|--|-----------------------|---|---------------|----------------------------|
| Low Temperature Embrittlement (LTE) studies on SS304 LN Material | BARC | K. R. Hebbar, Ph.D. K. L. Bhat, Ph.D. K. R. Udupa, Ph.D. Jagannath Nayak, Ph.D. | 2005 - 2012 | 22.0 Lakhs |

15 HUMAN RESOURCE DEVELOPMENT

15.1 TRAINING STATUS

Department of Chemical Engineering

| Name of faculty & Staff | Title of Training programme | Organisation | Dates & Duration of Training |
|------------------------------------|--|--|---|
| Raj Mohan B, Ph.D. | UNESCO-IHE Training Program on Nanotechnology for Water and Wastewater Treatment | | Two Weeks March to April 2014 |
| M. B. Saidutta, Ph.D. | 9 th Global Alumini meet and take up MOU related research activities | San Fransisco, Michigan State University and Penn State University | 2 nd May to 5 th June 2014 |
| Vidya Shetty K., Ph.D. | Visiting Researcher at Department of Chemical and Materials Engineering collaborated with Prof.Vinay Prasad. | University of Alberta, Canada | 13 th June to 4 th July, 2014 (3 weeks) |
| Gangamma S. Ph.D. | Visiting Researcher | University of Toronto, Canada | 2 nd June to 2 nd July 2014 |

Department of Computer Engineering

| | |
|--|-----------|
| Total number of faculty trained during the period of report | 01 |
|--|-----------|

| Name of the faculty/ staff | Title of the training program | Organization | Dates & Duration of training |
|-----------------------------------|---|---|---|
| P. Santhi Thilagam, Ph.D. | The sexual Harassment of Women at Workplace | Goa, organized by Institute of Public Administration, Bengaluru | May 16 & 17, 2014 |

Department of Electrical & Electronics Engineering

| Name of faculty/staff | Title of training program | Organization | Dates & Duration of training |
|------------------------------|--|---------------------|---|
| Debashisha Jena, Ph.D. | Short course on Estimation Theory for Communications and Signal Processing | IIT Kanpur | 21st – 23rd January, 2015 |

Department of Electronics & Communication Engineering

| | |
|---|----|
| Total number of faculty & staff trained during the period of report | 01 |
|---|----|

| Name of faculty/staff | Title of training program | Organization | Dates & Duration of training |
|------------------------------|--|---------------------------------|---|
| Kalpana G Bhat | Analog Integrated Circuit Design using Cadence | Entuple Technologies, Bangalore | September 1-5, 2014 |

Department of Humanities Social Sciences & Management

| | |
|---|---|
| Total number of faculty & staff trained during the period of report | 3 |
|---|---|

| Name of faculty/staff | Title of training program | Organization | Dates & Duration of training |
|------------------------------|---|---------------------|---|
| A.H. Sequeira, Ph.D. | Good Governance for Enhancing the capabilities of Technical Education Institutions in India | NITK | 13/02/2015 1 day |
| Pavan Kumar, Ph.D. | Good Governance for Enhancing the capabilities of Technical Education Institutions in India | NITK | 13/02/2015 1 day |
| Dhishna P, Ph.D. | Good Governance for Enhancing the capabilities of Technical Education Institutions in India | NITK | 13/02/2015 1 day |

Department of Mechanical Engineering

| | |
|---|---|
| Total no of faculty and staff trained during the period of report | 2 |
|---|---|

| Name of faculty/staff | Title of training program | Organization | Dates & Duration of training |
|------------------------------|--|--|---|
| Ramesh M R | Research, Interaction to Understand the Processes Electrospinning Electro spraying used to Develop Ultra Fine Fibres | Centre of Nanofibers Nanotechnology, National University of Singapore, Singapore | July 1-11, 2014 |
| Ramesh M R | Short Term Training program on "Recent Advances in Composite Materials and Machining | Indian Institute of Technology Madras, Chennai-600 036 | February 2-6, 2015 |

Department of Metallurgical & Materials Engineering

| | |
|---|---|
| Total no of faculty and staff trained during the period of report | 1 |
|---|---|

| Name of Faculty | Title of training program | Organization | Dates & Duration of training |
|------------------------|--|---------------------|---|
| Sreeram K. Kalpathy | Symposium on Teaching Learning in Higher Technical Education | IIT Madras | 28 - 29 May 2014 |

PLACEMENT OF STAFF FOR ACADEMIC EXCELLENCE

Department Of Civil Engineering

| Name of Staff/Faculty | Assignment/Recognition/Award |
|------------------------------|--|
| Varghese George, Ph.D. | Awarded Certificate of Excellence for Outstanding Paper Presentation along with Citation and Gold Medallion, at the International Conference (ICITSEM-2015) held at Hyatt Place, Al-Rigga, Dubai, for the paper titled, "A Demonstration of a Single Variable Genetic Algorithm Optimization for a 2-Phase Traffic Signal" |
| D.Venkat Reddy, Ph.D. | Awarded Research Excellence Award by Planning and Review Engineering Consultancy -Kathmandu ,Nepal-3rd world conference on Applied Sciences and Engineering -27-29 Sept-2014 |

Department of Computer Engineering

| Name of Staff/Faculty | Assignment/Recognition/Award |
|--------------------------------|---|
| K.Chandrasekaran, Ph.D. | <p>Visit to U.S.A. for attending Alumni meet and IEEE IT Pro Conference and visit Michigan State University, U.S.A. during 07th - 25th May 2014.</p> <p>Visit to Warsaw, Poland for presentation of paper "Stormgen – A Domain Specific Language to create Ad-hoc Storm Topologies" during 07th – 10th September 2014.</p> <p>Visited various universities in Japan for research interaction and MOU: Kagoshima University- Komomoto, Osaka University, National Institute of Informatics (NII) - Tokyo Japan, during 04th – 14th March 2015.</p> |
| P. Santhi Thilagam, Ph.D. | <p>Visit to National University of New South Wales, Sydney, Australia during 03rd – 11th October 2014.</p> |
| Annappa, Ph.D. | <ul style="list-style-type: none"> Visit to Penn State University, Carnegie Mellon University, Ohio State University, University of Cincinnati, University of Dayton, Wright State University, Dayton for research interaction during 24th June to 04th July 2014. |
| Shashidhar G. Koolagudi, Ph.D. | <ul style="list-style-type: none"> Visit to National University of Singapore during 09th–18th September 2014 |
| Mohit P. Tahiliani, Ph.D. | <p>15 Dr. Mohit P. Tahiliani received the "EMC Young Achiever Awards 2015" from EMC Corporation on 12th February 2015 at Le-Meridian Chennai</p> |

Department of Chemistry

| Name of faculty | Assignment/Recognition/Award |
|----------------------------|--|
| A. VasudevaAdhikari, Ph.D. | <p>Visited the Dr. YiyngWu research group as a visiting scholar for collaboration on dye-sensitized solar cells, with Dr. Yiyng Wu, Department of Chemistry and Biochemistry, The Ohio State University, Columbus, Ohio, USA, from 07 – 07 – 2014 to 22 - 07 – 2014, sponsored by TEQIP-2.</p> |
| A. VasudevaAdhikari, Ph.D. | <p>Principal Coordinator, DK District Biofuel Information and Demonstration Centre, NITK, Surathkal. This three year project is sponsored by "Karnataka State Biofuel Development Board", GoK, Bangalore.</p> |
| A. VasudevaAdhikari, Ph.D. | <p>First prize for the poster presentation of the research paper titled "D-π-A Novel D-π-A Organic Dyes for Highly Efficient Dye- Sensitized Solar Cells", in the "National Conference on Advanced Materials for Energy and Environmental Applications", (AMEEA-2015) held during March 18-20, 2015 at Bharathiar University, Coimbatore-641046.</p> |

| | |
|----------------------------|---|
| A. VasudevaAdhikari, Ph.D. | Eye-catching artwork of an optical micrograph of the research article titled "New cyanopyridone based luminescent liquid crystalline materials: synthesis and characterization", DOI: 10.1039/C4PP00031E (2014, 13(11), 1496-1508), published in Photochemical & Photobiological Sciences, has appeared on the cover page of the journal. [Link: ISSN 1474-905X CODEN PPSHCB 13(11) 1489-1630 (2014)] |
| A. VasudevaAdhikari, Ph.D. | Research article titled "New D-π-A type indole based chromogens for DSSC: Design, synthesis and performance studies" appeared as 4 th Hottest Article amongst the top 25, in the International Journal, "Dyes and Pigments", during the period July to September, 2014. |
| B.Ramachandra Bhat, Ph.D. | Commonwealth Academic Fellowship at Northumbria University from 19.01.2015 to 18.04.2015 |
| Arun M. Isloor, Ph.D. | Selected for the award of 'Centre of excellence' in membrane research by VGST, Govt. of Karnataka during December 2014 for amount Rs 60.00 Lakhs. |
| Arun M. Isloor, Ph.D. | 'Within Top 5 Researcher in India' (Materials Research) as per the Scopus survey held during March 2014. |
| Arun M. Isloor, Ph.D. | Received 'Certificate of Excellence in Reviewing' (June 2014) from 'European Journal of Medicinal Chemistry' for the year 2013. |

Department of Electronics And Communication Engineering

| Name of Staff/Faculty | Assignment/Recognition/Award |
|------------------------------|---|
| M S Bhat, Ph.D. | Member Board of Studies of Engineering, NMAMIT Nitte, Goa University, MSRSAS, B'lore Delivered Invited Talk on Low Power VLSI Design, Srinivas Institute of Technology, Mukka, October 2014. |
| Sumam David S, Ph.D. | Member Board of Studies of Engineering Manipal University Member, DASA 2015 Implementation & Technical Committee DASA 2015 coordinated by MNIT Jaipur Leveraging Technology for effective teaching, Keynote talk, National Conference on Outcome based Education, NITK Surathkal January 17, 2015 Technology enabled learning, Faculty Development Program, MIT Manipal, December 4, 2014 |
| Muralidhar Kulkarni, Ph.D. | Member, BOS Dept. of E & C, Dr. Ambedkar Institute of Technology, Bangalore. Member of Engineering and Technical Accreditation Evaluation Committee, National Board of Accreditation, AICTE Member, Board of Governors, Malnad College of Engineering, Hassan. Member, Academic Council, NIE Mysore |

| | |
|--------------------------|---|
| | <p>Joint Secretary (Research and Academics), Vice Chair, IET (UK), Bangalore Local Network</p> <p>Member, Board of Studies, Department of Electronics & Communication Engineering, UVCE, Bangalore University</p> <p>Member, Board of Studies, Department of Electronics & Communication Engineering RVCE, Bangalore</p> <p>Member, Board of Studies, Department of Electronics & Communication Engineering, SIT, Tumkur, Karnataka</p> <p>Vice Chairman, IET(UK), Local Network, Joint Secretary Bangalore (Research and Academics)</p> <p>Delivered a technical talk on "How to orient oneself to research Methodologies"</p> <p>after presiding over as Chief Guest, Canara Engineering College, Mangalore, 19th August 2014</p> <p>Inaugurated the National Conference on Advances in Communication and Signal Processing NCACSP-2014 as the Chief Guest, later gave a key note address on "Research Challenges in Free Space Optical Communications", Department of Electronics and Communication Engineering, SJEC, Mangalore, 13th August 2014</p> |
| Ramesh Kini M, Ph.D. | <p>Delivered lecture on Advances in Signal Processing and its implementation using VLSI, PA College of Engg, Mangalore, 23rd Jan 2014</p> |
| Deepu Vijayasanen, Ph.D. | <p>Delivered lecture on Recent Advancements in Machine Learning, Central University of Kerala, Kasaragod December, 2014</p> <p>Delivered lecture on The Art of Data compression, College of Engineering, Vadakara, October, 2014</p> |

Department of Information Technology

| Name of Staff/Faculty | Assignment/Recognition/Award |
|------------------------------|--|
| Geetha V | <p>Best Paper Award</p> <p>"Identification of Parameters for Trust Management in Wireless Sensor Networks" Eighth International Conference on Communication Networks (ICCN 2014), 26th -27th July 2014, pp. 154-161.</p> |
| Sowmya Kamath | <p>Best Paper Award</p> <p>"NLP based Intelligent News Search Engine using Information Extraction from E-Newspapers", at 2014 IEEE International Conference on Computational Intelligence and Computing Research (ICCIC), during 18 -20th of December, 2014, organized by IEEE Podhigai, Madras Section and IEEE Signal Processing / Computational Intelligence / Computer Joint Societies Chapter (SIPCICOM) of Madras Section. (IEEE Proceedings)</p> |

Department of Metallurgical And Materials Engineering

| Name of Staff/Faculty | Assignment/Recognition/Award |
|-------------------------------|--|
| A. O.Surendranathan, Ph.D. | <ol style="list-style-type: none"> 1. INDIRA GANDHI SADBHAWANA AWARD for outstanding achievements and contributions in my field of activities by International Business Council, Delhi 2. BHARAT EXCELLENCE AWARD" AND GOLD MEDAL (Certificate of Excellence & Felicitation) for the year 2014 by FRIENDSHIP FORUM (Regd.), New Delhi 3. RAJIV GANDHI ACHIEVERS'S AWARD FOR EDUCATION EXCELLENCE by the International Business Council, New Delhi 4. RASHTRA RATAN AWARD by the ACHIEVER'S ASSOCIATION FOR ECONOMIC RESEARCH & DEVELOPMENT, Delhi. 5. Glory of India Award by India International Friendship Society, New Delhi |
| Sreeram K. Kalpathy | <u>Marquis Who's Who in the World 2015</u> |

16 STUDENT PLACEMENTS

16.1 PLACEMENT

A Placement and Training Centre under the guidance of a full time Professor functions primarily to help the students in finding suitable placements for Industrial Training and Employment. It also provides information through catalogues about foreign Universities. Various Industries conduct campus interviews to recruit students for employment.

Highlights

The year 2014-15 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 5th, 6th and 7th Semester vacations. The compulsory training for B.Tech. Mining Engg. students is organized during the 5th and 6th Semester vacations.
3. Provide Career Counseling and facilitate development of Soft Skills and Personal Effectiveness to better equip students for their career.
4. Interface with Railways, Airlines and Bus services to provide travel concessions to students.

Performance Overview

1. 218 Companies visited NITK Surathkal for Campus Recruitments.
2. 62 Companies participated in the Placement process for the first time.
3. 767 students were placed – 560 B.Techs, 141 M.Techs, 53 MCAs, and 13 MBAs.

PLACEMENT DETAILS 2014-15 :-

| SL. NO. | NAME OF THE COMPANY | TOTAL PLACED | PAY PACKAGE (Rs. in lakhs p.a.) | |
|---------|------------------------|--------------|---------------------------------|------|
| | | | UG | PG |
| 1 | MICROSOFT, HYD | 3 | 17 | 17 |
| 2 | BAJAJ AUTO, PUNE | 3 | 7 | - |
| 3 | AMAZON, B'LORE | 4 | 23.5 | 24 |
| 4 | CODE NATION, B'LORE | 3 | 24 | 24 |
| 5 | QUALCOMM, B'LORE | 9 | 11.75 | 12.4 |
| 6 | D E SHAW SOFTWARE, HYD | 0 | 18.6 | 18.6 |

| | | | | |
|----|----------------------------|----|-------|-------|
| 7 | MYNTRA DESIGN, B'LORE | 4 | 19 | - |
| 8 | ADOBE SYSTEMS, B'LORE | 3 | 17.61 | - |
| 9 | HINDUSTAN UNILEVER, MUMBAI | 4 | 9.6 | - |
| 10 | TEXAS INSTRUMENTS, B'LORE | 5 | 11.9 | 12.75 |
| 11 | WORKS APPLICATIONS, B'LORE | 1 | 35 | 35 |
| 12 | NVIDIA, B'LORE | 4 | 10 | 11.88 |
| 13 | CITRIX R&D, B'LORE | 4 | 16.23 | - |
| 14 | INTUIT, B'LORE | 11 | 16.2 | - |
| 15 | ARM BMBEDDED, B'LORE | 3 | 11 | - |
| 16 | GOLDMAN SACHES, B'LORE | 7 | 13 | 13 |
| 17 | MORGAN STANLEY, MUMBAI | 5 | 13.4 | 13.98 |
| 18 | COMMVAULT, B'LORE | 2 | 13.5 | 13.5 |
| 19 | DELL R&D, B'LORE | 5 | 6.75 | 10.2 |
| 20 | NETAPP, B'LORE | 2 | 10 | 11 |
| 21 | SANDVINE TECH, B'LORE | 2 | 10.5 | 10.5 |
| 22 | ORACLE, B'LORE | 31 | 12 | 12 |
| 23 | GAURI TECH, MUMBAI | 2 | - | 12 |
| 24 | MARUTI SUZUKI, N DELHI | 0 | 5.6 | - |
| 25 | SERVICE NOW, B'LORE | 2 | 14.52 | 14.52 |
| 26 | FIDELITY, B'LORE | 15 | 10 | - |
| 27 | CITICORP, MUMBAI | 24 | 11.5 | 11.5 |
| 28 | SANDISK, B'LORE | 5 | 11.39 | 12.74 |
| 29 | MCAFEE S.W, B'LORE | 4 | 9.25 | 9.91 |
| 30 | WOOQER S.W, B'LORE | 1 | 17 | 17 |
| 31 | TECHNOVATE, B'LORE | 1 | 7 | - |
| 32 | LINKEDIN, B'LORE | 2 | 19.25 | - |
| 33 | CAVIUM NETWORKS, B'LORE | 1 | 8.5 | 8.5 |
| 34 | RIVERBED TECH, B'LORE | 2 | - | 10 |
| 35 | SCHNEIDER ELECTRIC, B'LORE | 0 | 4.75 | - |
| 36 | ACCOLITE S.W., B'LORE | 2 | 10 | 10 |
| 37 | GOOGLE, B'LORE | 0 | 21.5 | 21.5 |
| 38 | THOROGOOD, B'LORE | 5 | 11 | 11 |
| 39 | CAPITAL ONE, B'LORE | 2 | 11.98 | - |
| 40 | ITTIAM SYSTEMS, B'LORE | 4 | 7.5 | 8 |
| 41 | FUTURES FIRST, B'LORE | 4 | 8.9 | - |
| 42 | L&T CONSTN., CHENNAI | 33 | 5 | 5.13 |
| 43 | CREDIT SUISSE, MUMBAI | 8 | 9.75 | 9.75 |
| 44 | TERADATA, HYD | 0 | 6 | 9 |
| 45 | J P MORGAN, B'LORE | 2 | 12 | - |

| | | | | |
|----|-------------------------------|----|-------|-------|
| 46 | NATIONAL INSTRUMENTS, B'LORE | 1 | 8.1 | 8.9 |
| 47 | C A TECH, B'LORE | 3 | 8 | 8 |
| 48 | ARYAKA NETWORKS, B'LORE | 3 | - | 8 |
| 49 | MAQ SOFTWARE, B'LORE | 2 | 7 | 7 |
| 50 | ERNST & YOUNG, B'LORE | 2 | 3.68 | 3.68 |
| 51 | MU-SIGMA, B'LORE | 38 | 6 | 6 |
| 52 | CERNER, B'LORE (Internship) | * | - | 5 |
| 53 | Z S ASSOCIATES, PUNE | 17 | 6.68 | - |
| 54 | ARISTA NETWORKS, B'LORE | 2 | 12.92 | - |
| 55 | EXL SERVICES, B'LORE | 10 | 6.25 | - |
| 56 | DIEBOLD SYSTEMS, MUMBAI | 5 | 7 | - |
| 57 | AVAYA INDIA, B'LORE | 7 | 8.5 | - |
| 58 | SAPIENT, B'LORE | 4 | 4.5 | 4.5 |
| 59 | SAMSUNG R&D, B'LORE | 21 | 15 | 15 |
| 60 | TEK SYSTEMS, B'LORE | 5 | 6 | - |
| 61 | C-DOT, B'LORE | 3 | 9.4 | 9.4 |
| 62 | TEMENOS INDIA, CHENNAI | 3 | 6.41 | - |
| 63 | HSBC, B'LORE | 11 | 6.5 | - |
| 64 | AMADEUS S.W, B'LORE | 4 | 7.69 | - |
| 65 | VERITY KNOWLEDGE, HYD | 4 | 6.08 | 6.08 |
| 66 | CYPRESS SEMICONDUCTOR, B'LORE | 6 | - | 10.6 |
| 67 | FLIPKART, B'LORE | 4 | 15 | 15 |
| 68 | WALMART LABS, B'LORE | 3 | 19.15 | 19.87 |
| 69 | PEPSICO, B'LORE | 2 | 6 | - |
| 70 | CARGIL BUSINESS, B'LORE | 1 | 4.8 | - |
| 71 | SABRE, B'LORE | 4 | 8 | 8 |
| 72 | FRACTAL ANALYTICS, MUMBAI | 3 | 6 | - |
| 73 | ZOHO CORPORATION, B'LORE | 2 | 6.6 | 6.6 |
| 74 | ANZ OPERATION, B'LORE | 1 | 6 | - |
| 75 | TCS, B'LORE | 75 | 3.17 | 3.3 |
| 76 | OPEN SYSTEMS, B'LORE | 0 | - | 3 |
| 77 | XEROX INIDIA, B'LORE | 0 | 17 | - |
| 78 | THINK & LEARN, B'LORE | 4 | 7 | 7 |
| 79 | IBM, B'LORE | 21 | 3.15 | 3.47 |
| 80 | POLARIS, CHENNAI | 2 | 4.5 | - |
| 81 | SAP LAB, B'LORE | 4 | 8.5 | 8.5 |
| 82 | TESCO, B'LORE | 3 | 4.86 | - |
| 83 | ROBERT BOSCH, B'LORE | 14 | 4.5 | 4.75 |
| 84 | SUCCESS FACTORS, B'LORE | 2 | 8 | 8 |

| | | | | |
|-----|-------------------------------------|----|-------|------|
| 85 | 3D PLM SOFTWARE, B'LORE | 2 | 4.75 | 4.85 |
| 86 | INDIAN NAVY, MUMBAI | * | 7.92 | - |
| 87 | CRIMSON LOGIC, B'LORE | 2 | 5.5 | - |
| 88 | ONE CONVERGENCE, HYD | 6 | - | 5 |
| 89 | G E INDIA, B'LORE | 1 | - | 8.8 |
| 90 | LATENT VIEW, HYD | 10 | 4.5 | 4.5 |
| 91 | ALTISOURCE, B'LORE | 3 | 11 | - |
| 92 | MAHINDRA & MAHINDRA, MUMBAI | 3 | 5.3 | - |
| 93 | COMPROTECH, B'LORE | 0 | 5.5 | - |
| 94 | NESTLE INDIA, GURGAON | 3 | 6 | - |
| 95 | SIEMENS TECH, B'LORE | 3 | 4.25 | 4.75 |
| 96 | TCE, B'LORE | 8 | - | 5 |
| 97 | L&T, MUMBAI | 4 | 4.87 | - |
| 98 | HARMAN INTERNATIONAL, B'LORE | 5 | 6 | - |
| 99 | HERO MOTOCORP, N DELHI | 5 | 6.5 | - |
| 100 | WIPRO TECH, B'LORE | 6 | 7 | - |
| 101 | TEACH FOR INDIA, B'LORE | * | 3.1 | 3.1 |
| 102 | AVERY DENNISON, B'LORE | 0 | 7 | - |
| 103 | HEXAGON, HYD | 2 | 4.3 | 4.6 |
| 104 | SIGMOID ANALYTICS, B'LORE | 0 | 5 | 5 |
| 105 | ALCATEL-LUCENT, B'LORE | 7 | 6.5 | - |
| 106 | BROWSER STACK, B'LORE | 0 | 15 | - |
| 107 | BHARAT FORGE, PUNE | 4 | 4.5 | - |
| 108 | AFFINE ANALYTICS, B'LORE | 4 | 6 | 6 |
| 109 | GEP SOLUTIONS, MUMBAI | 1 | 7 | - |
| 110 | AKS SOFTWARE, NOIDA | 2 | 7.23 | - |
| 111 | UHDE INDIA, MUMBAI | 4 | 4.1 | - |
| 112 | MURUGAPPA GROUP, CHENNAI | 2 | 4.25 | - |
| 113 | HP R&D, B'LORE | 0 | 10.05 | - |
| 114 | L&T HYDROBARBON, MUMBAI | 2 | - | 5.03 |
| 115 | ESSENTIAL ENERGY, B'LORE | 3 | 5.5 | 10 |
| 116 | V E COMMERCIAL VEHICLES, CHENNAI | 4 | 5 | - |
| 117 | TATA TECH, PUNE | 7 | 4 | 5 |
| 118 | AVANTI LEARNING. B'LORE | 1 | 6 | - |
| 119 | RETAILON, B'LORE | 4 | 5.5 | 5.5 |
| 120 | TOTAL ENVIRONMENT, B'LORE | 5 | 4.5 | 4.5 |
| 121 | ORANGE COUNTY, B'LORE | 1 | - | 3 |
| 122 | DAIMLER INDIA, CHENNAI | 0 | 4.5 | - |

| | | | | |
|-----|--|----|-------|------|
| 123 | LUPIN LTD, MUMBAI | 5 | 5.5 | - |
| 124 | CENTURY LINK, B'LORE | 1 | 6 | - |
| 125 | VA TECH WABAG, CHENNAI | 2 | 4.1 | 4.4 |
| 126 | MERCEDES BENZ, B'LORE | 6 | - | 6.5 |
| 127 | TATA MOTORS, MUMBAI | 14 | 6.16 | 8.06 |
| 128 | HIL LTD, MUMBAI | 2 | 4.5 | - |
| 129 | SIDVIN CORETECH, B'LORE | 5 | - | 4.7 |
| 130 | SAIPEM INDIA, CHENNAI | 5 | 3 | - |
| 131 | HONDA MOTORCYCLE, DELHI | 3 | 6.71 | - |
| 132 | IBM-ISL, B'LORE | 3 | - | 11 |
| 133 | RELIANCE INDS., MUMBAI | 18 | 5.5 | - |
| 134 | GRAIL RESEARCH, NOIDA | 3 | 6.5 | - |
| 135 | PANDIT DEENDAYAL PETROLEUM UNIVERSITY, GUJARAT | 2 | - | 6 |
| 136 | INFORMATICA, B'LORE | 1 | 10.4 | 10.4 |
| 137 | EXXONMOBIL, GURGAON | 2 | 8.78 | - |
| 138 | TATA POWER, MUMBAI | 3 | 5.1 | - |
| 139 | HOSPIRA HEALTHCARE, CHENNAI | 4 | - | 7.5 |
| 140 | i-CREATE SOFTWARE, B'LORE | 8 | 4 | - |
| 141 | ROBOSOFT, UDUPI | 1 | - | 4.5 |
| 142 | TOYOTA KIRLOSKAR, B'LORE | 0 | 6 | - |
| 143 | PHILIPS LTD., CHENNAI | 1 | - | 6 |
| 144 | PURPLLE.COM, MUMBAI | 1 | 7 | - |
| 145 | HEALTHIFYME, | 0 | 6 | 6 |
| 146 | CONVERGYTICS, B'LORE | 2 | 6 | 6 |
| 147 | AMDOCS, PUNE | 4 | 4.2 | 4.2 |
| 148 | INFINEON TECH, B'LORE | 2 | 10.43 | - |
| 149 | BOSCH LTD, B'LORE | 3 | 4.7 | - |
| 150 | NOKIA SOLUTIOS, B'LORE | 3 | 6.5 | 7 |
| 151 | ODESSA TECH, B'LORE | 1 | - | 6 |
| 152 | L&T RAMBOLL, CHENNAI | 4 | - | 3.4 |
| 153 | GODREJ & BOYCE MFG, MUMBAI | 0 | 5 | - |
| 154 | SAINT GOBASIN, CHENNAI | 0 | 5 | - |
| 155 | INFINITI RESEARCH, B'LORE | 2 | - | 4 |
| 156 | DRDO, N. DELHI | 2 | 6.8 | - |
| 157 | 09 SOLUTIONS, B'LORE | 5 | 6.1 | - |
| 158 | IDEA CELLULAR, MUMBAI | 1 | 5 | 5 |
| 159 | MISYS S.W, B'LORE | 3 | 5.22 | 5.22 |
| 160 | CYIENT LTD, HYD | 2 | 2.75 | 3.5 |

| | | | | |
|-----|----------------------------------|---|------|------|
| 161 | HIKAL LTD, MUMBAI | 2 | 6 | - |
| 162 | COCA-COLA, B'LORE | 2 | 7 | - |
| 163 | URBAN ONLINE SERVICES, B'LORE | 0 | 4.5 | 4 |
| 164 | VIRTUSA CORPN., B'LORE | 4 | 5 | 3.3 |
| 165 | HINDALCO, MUMBAI | 0 | 4.5 | - |
| 166 | ACG PHARMA, PUNE | 2 | 4.5 | - |
| 167 | METRIC STREAM, B'LORE | 2 | 5.5 | 5.5 |
| 168 | PIDILITE INDS., MUMBAI | 4 | 4 | - |
| 169 | SNAPDEAL, B'LORE | 5 | 18 | - |
| 170 | PRACTO TECH, B'LORE | 2 | 15 | 15 |
| 171 | TITAN CO., HOSUR | 0 | 4.7 | - |
| 172 | ZIVAME.COM, B'LORE | 1 | 6 | 6 |
| 173 | AAKASH INSTITUTE, N. DELHI | 3 | 7.2 | 7.2 |
| 174 | RAMCO SYSTEMS, CHENNAI | 3 | 5 | - |
| 175 | EXPICIENT S.W., B'LORE | 2 | 5 | 5 |
| 176 | AXIS BANK, MUMBAI | 3 | - | 3.5 |
| 177 | PHOENIX, NAGPUR | 0 | | - |
| 178 | ATKINS, B'LORE | 3 | 5.34 | 5.34 |
| 179 | TATA HITACHI, JAMSHEDPUR | 1 | 6.9 | - |
| 180 | LINDE INDIA, KOLKATA | 0 | 5.5 | - |
| 181 | TEJAS NETWORKS, B'LORE | 2 | 6.8 | 7.2 |
| 182 | JOHNSON CONTRLS, B'LORE | 2 | 3.25 | - |
| 183 | JSW STEEL, BELLARY | 3 | 4.25 | - |
| 184 | HOUSING.COM, B'LORE | 0 | 16 | - |
| 185 | VISA, MUMBAI | 9 | 13 | 16 |
| 186 | ARICENT, NOIDA | 0 | 3.5 | 3.5 |
| 187 | URBAN LADER, B'LORE | 1 | 18 | - |
| 188 | MERU CAB, HYD | 2 | 3.5 | 3.5 |
| 189 | COUP DUNIA, MUMBAI | 0 | 10 | 10 |
| 190 | U B LTD., B'LORE | 2 | 4.5 | - |
| 191 | AMADA, B'LORE | 0 | 4 | - |
| 192 | TECHNIP INDIA, CHENNAI | 1 | - | 6 |
| 193 | NAUVATA ENGG., B'LORE | 0 | - | 3.5 |
| 194 | BPCL, MUMBAI | 4 | 11 | - |
| 195 | RESONANCE ADVENTURES, KOTA | 1 | 4.8 | 4.8 |
| 196 | FUTURE SUPPLY CHAIN, MUMBAI | 2 | 3.5 | - |
| 197 | THE SANDUR MANGANESE, BELLARY | 1 | 3.6 | 3.6 |
| 198 | CSC, B'LORE | 3 | 7.55 | 7.55 |

| | | | | |
|-----|-------------------------------|---|-------|------|
| 199 | SYNERGY PROPERTY, B'LORE | 4 | 4.5 | 4.5 |
| 200 | EVIVE SOFTWARE, B'LORE | 2 | 4.5 | 4.5 |
| 201 | SONATA SOFTWARE, B'LORE | 4 | 4 | 4 |
| 202 | STAYZILLA, CHENNAI | 3 | 10 | - |
| 203 | CARTESIAN CONSULTING, MUMBAI | 0 | 4.18 | - |
| 204 | JUST UNFOLLOW, B'LORE | 2 | 21 | - |
| 205 | KALKI COMMUNICATION, B'LORE | 0 | 4.5 | - |
| 206 | L&W CONSTRUCTION, B'LORE | 3 | 6 | 6 |
| 207 | COCUBES.COM, GURGAON | * | 7.5 | - |
| 208 | CAPITALVIA, GURGAON | 3 | - | 4.07 |
| 209 | SUN ROUTE ASSOCIATES, GURGAON | 0 | 3.5 | - |
| 210 | VIGNAN UNIVERSITY, HYD | * | - | 6 |
| 211 | SIEMENS LTD, MUMBAI | 1 | 5.5 | - |
| 212 | MAGNETI MARELLI, GURGAON | * | 4.5 | 4.5 |
| 213 | AL FARA'A GROUP, UAE | * | 6 | - |
| 214 | ALSHAYA SOFTWARE, B'LORE | 0 | 5 | - |
| 215 | 159 SOLUTIONS, CHENNAI | * | 5 | - |
| 216 | ABOVE SOLUTIONS, B'LORE | * | 4 | 4 |
| 217 | METTL-PRODUCT, NOIDA | * | 6 | 6 |
| 218 | SYMANTEC SOFTWARE, B'LORE | * | 11.45 | 11.9 |

| | |
|---|-------------------------|
| COMPANIES : 218 | TOTAL JOBS : 863 |
| NEW ORGANIZATIONS VISITED NITK IN 2014-15 : 62 | |
| <i>* Final Results awaited</i> | |

BRANCHWISE PLACEMENTS 2014-15 :

| UNDERGRADUATES | | |
|-----------------------|--------------------------------|---------------|
| BRANCH | TOTAL ELIGIBLE STUDENTS | PLACED |
| CIVIL | 77 | 57 |
| CHEMICAL | 35 | 26 |
| COMPUTER | 93 | 87 |
| E & C | 94 | 80 |
| E & E | 95 | 86 |
| IT | 83 | 78 |
| MECHANICAL | 120 | 106 |
| METALLURGY | 33 | 25 |

| | | |
|------------------------------|-------------|------------|
| MINING | 28 | 15 |
| TOTAL (B.TECH) | 658 | 560 |
| POSTGRADUATES | | |
| STRUCTURAL ENGG. | 27 | 17 |
| GEO TECH. | 13 | 2 |
| ENVIRONMENTAL | 23 | 3 |
| TRANSPORTATION SYSTEM | 24 | 2 |
| CONSTRUCTION TECH & MGMT | 22 | 4 |
| MARINE STRUCTURES | 21 | 7 |
| WATER RESOURCE ENGG & MGMT | 10 | 0 |
| REMOTE SENSING & GIS | 18 | 2 |
| INDUSTRIAL POLLUTION CONTROL | 17 | 2 |
| CHEMICAL PLANT DESIGN | 5 | 0 |
| INDUSTRIAL BIOTECHNOLOGY | 14 | 2 |
| COMPUTER SCIENCE & ENGG | 27 | 24 |
| INFORMATION SECURITY | 21 | 13 |
| VLSI | 22 | 7 |
| COMMUNICATION ENGG | 23 | 2 |
| POWER & ENERGY SYSTEM | 23 | 8 |
| INFORMATION TECHNOLOGY | 23 | 20 |
| THERMAL ENGG | 14 | 1 |
| MANUFACTURING ENGG | 11 | 3 |
| MECHATRONICS | 22 | 6 |
| DESIGN & PRECISION ENGG | 12 | 3 |
| PROCESS MET. | 8 | 1 |
| MATERIALS ENGG. | 22 | 1 |
| NANOTECHNOLOGY | 7 | 0 |
| S A C A | 20 | 10 |
| TOTAL (M.TECH) | 449 | 140 |
| MCA | 81 | 53 |
| MBA | 26 | 13 |
| M.Sc(Chemistry) | 19 | 0 |
| M.Sc(Physics) | 21 | 0 |
| TOTAL | 1254 | 766 |

***TOTAL NO. OF PLACEMENTS - 863**

(with 97 students getting placed in two companies)

| PLACEMENT BREAKUP 2014-15 | | | | | |
|----------------------------------|------------------|---------------|------------------------|--------------------|-----------|
| Sl. No. | Name of Company | Date of visit | No. of Students Placed | Branchwise breakup | |
| | | | | UG | PG |
| 1 | MICROSOFT, HYD | Aug. 01, 2014 | 3 | CS 02, I.T 01 | - |
| 2 | BAJAJ AUTO, PUNE | Aug. 01, 2014 | 3 | MECH | - |

| | | | | | |
|----|----------------------------|---------------|----|--|--|
| 3 | AMAZON, B'LORE | Aug. 01, 2014 | 4 | CS 03 | CS 01 |
| 4 | CODE NATION, B'LORE | Aug. 02, 2014 | 3 | CS 03 | - |
| 5 | QUALCOMM, B'LORE | Aug. 02, 2014 | 9 | CS 01, ECE 05, EEE 02 | ECE 01 |
| 6 | D E SHAW SOFTWARE, HYD | Aug. 03, 2014 | 0 | - | - |
| 7 | MYNTRA DESIGN, B'LORE | Aug. 03, 2014 | 4 | CS 02, ECE 02 | - |
| 8 | ADOBE SYSTEMS, B'LORE | Aug. 03, 2014 | 3 | CS 01, I.T 02 | - |
| 9 | HINDUSTAN UNILEVER, MUMBAI | Aug. 04, 2014 | 4 | CHEM 02, MECH 02 | - |
| 10 | TEXAS INSTRUMENTS, B'LORE | Aug. 04, 2014 | 5 | ECE 04, EEE 01 | - |
| 11 | WORKS APPLICATIONS, B'LORE | Aug. 04, 2014 | 1 | I.T 01 | - |
| 12 | NVIDIA, B'LORE | Aug. 05, 2014 | 4 | ECE 02 | CS 01, MCA 01 |
| 13 | CITRIX R&D, B'LORE | Aug. 05, 2014 | 4 | CS 03, I.T 01 | - |
| 14 | INTUIT, B'LORE | Aug. 05, 2014 | 11 | CS 08, I.T 03 | - |
| 15 | ARM EMBEDDED, B'LORE | Aug. 05, 2014 | 3 | ECE 03 | - |
| 16 | GOLDMAN SACHES, B'LORE | Aug. 06, 2014 | 7 | CS 02, ECE 02, MECH 01 | MCA 02 |
| 17 | MORGAN STANLEY, MUMBAI | Aug. 06, 2014 | 5 | CS 01, EEE 01, I.T 01 | I.T 01, MCA 01 |
| 18 | COMMVAULT, B'LORE | Aug. 06, 2014 | 2 | CS 01 | CS 01 |
| 19 | DELL R&D, B'LORE | Aug. 07, 2014 | 5 | I.T 01 | CS 04 |
| 20 | NETAPP, B'LORE | Aug. 07, 2014 | 2 | CS 01, ECE 01 | - |
| 21 | SANDVINE TECH, B'LORE | Aug. 08, 2014 | 2 | I.T 02 | - |
| 22 | ORACLE, B'LORE | Aug. 09, 2014 | 31 | CIVIL 02, CHEM 01, CS 03, ECE 03, EEE 03, I.T 05 | CS 07, ECE 01, I.T 04, MCA 01, SACA 01 |
| 23 | GAURI TECH, MUMBAI | Aug. 09, 2014 | 2 | - | MCA 02 |
| 24 | MARUTI SUZUKI, N DELHI | Aug. 09, 2014 | 0 | - | - |
| 25 | SERVICE NOW, B'LORE | Aug. 11, 2014 | 2 | CS 01, I.T 01 | - |
| 26 | FIDELITY, B'LORE | Aug. 10, 2014 | 15 | CS 06, ECE 04, EEE 03, I.T 02 | - |
| 27 | CITICORP, MUMBAI | Aug. 11, 2014 | 24 | CS 03, ECE 02, EEE 09, I.T 05, MIN 01 | CS 01, SACA 01, MCA 02 |
| 28 | SANDISK, B'LORE | Aug. 12, 2014 | 5 | ECE 03, EEE02 | - |
| 29 | MCAFFEE S.W, B'LORE | Aug. 13, 2014 | 4 | CS 01, I.T 01 | MCA 02 |
| 30 | WOOQER S.W, B'LORE | Aug. 14, 2014 | 1 | - | I.T 01 |
| 31 | TECHNOVATE, B'LORE | Aug. 14, 2014 | 1 | I.T 01 | - |
| 32 | LINKEDIN, B'LORE | Aug. 14, 2014 | 2 | CS 02 | - |
| 33 | CAVIUM NETWORKS, B'LORE | Aug. 15, 2014 | 1 | - | CS 01 |
| 34 | RIVERBED TECH, B'LORE | Aug. 15, 2014 | 2 | - | CS 01, I.T 01 |
| 35 | SCHNEIDER ELECTRIC, B'LORE | Aug. 17, 2014 | 0 | - | - |
| 36 | ACCOLITE S.W., B'LORE | Aug. 18, 2014 | 2 | CS 01, I.T 01 | - |
| 37 | GOOGLE, B'LORE | Aug. 18, 2014 | 0 | - | - |

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|----|------------------------------|----------------|----|---|-----------------|
| 38 | THOROGOOD, B'LORE | Aug. 19, 2014 | 5 | CIVIL 01, ECE 01, EEE 01, MECH 01 | MCA 01 |
| 39 | CAPITAL ONE, B'LORE | Aug. 19, 2014 | 2 | EEE 01, MIN 01 | - |
| 40 | ITTIAM SYSTEMS, B'LORE | Aug. 20, 2014 | 4 | ECE 02, EEE 01 | CS 01 |
| 41 | FUTURES FIRST, B'LORE | Aug. 20, 2014 | 4 | CIVIL 01, CS 01, MECH 01, MIN 01 | - |
| 42 | L&T CONST., CHENNAI | Aug. 20, 2014 | 33 | CIVIL 14, EEE 02, MECH 05 | CIVIL 12 |
| 43 | CREDIT SUISSE, MUMBAI | Aug. 21, 2014 | 8 | CS 02, ECE 01, EEE 02, I.T 03 | - |
| 44 | TERADATA, HYD | Aug. 21, 2014 | 0 | - | - |
| 45 | J P MORGAN, B'LORE | Aug. 22, 2014 | 2 | CS 02 | - |
| 46 | NATIONAL INSTRUMENTS, B'LORE | Aug. 22, 2014 | 1 | CO 01 | - |
| 47 | C A TECH, B'LORE | Aug. 22, 2014 | 3 | EEE01, I.T 01 | MCA 01 |
| 48 | ARYAKA NETWORKS, B'LORE | Aug. 23, 2014 | 3 | - | CS 02, I.T 01 |
| 49 | MAQ SOFTWARE, B'LORE | Aug. 23, 2014 | 2 | CS 01, I.T 01 | - |
| 50 | ERNST & YOUNG, B'LORE | Aug. 25, 2014 | 2 | - | MCA 02 |
| 51 | MU-SIGMA, B'LORE | Aug. 25, 2014 | 38 | CIVIL 03, CHEM 03, CS 04, ECE 02, EEE 09, I.T 05, MECH 06, MET 02, MIN 02 | R.S 01, SACA 01 |
| 52 | CERNER, B'LORE (Internship) | Aug. 26, 2014 | 7 | - | MCA 07 |
| 53 | Z S ASSOCIATES, B'LORE | Aug. 26, 2014 | 17 | CIVIL 03, CHEM 01, ECE 02, EEE 05, I.T 01, MECH 02, MET 02, MIN 01 | - |
| 54 | ARISTA NETWORKS, B'LORE | Aug. 26, 2014 | 2 | CS 02 | - |
| 55 | EXL SERVICES, B'LORE | Aug. 27, 2014 | 10 | CIVIL 01, ECE 02, EEE 01, MECH 04, MET 01, MIN 01 | - |
| 56 | DIEBOLD SYSTEMS, MUMBAI | Aug. 27, 2014 | 5 | CS 01, ECE 02, I.T 02 | - |
| 57 | AVAYA INDIA, B'LORE | Aug. 28, 2014 | 7 | ECE 01, I.T 02 | MCA 04 |
| 58 | SAPIENT, B'LORE | Aug. 30, 2014 | 4 | - | MCA 04 |
| 59 | SAMSUNG R&D, B'LORE | Aug. 30, 2014 | 21 | CS 11, ECE 02, I.T 06 | MCA 02 |
| 60 | TEK SYSTEMS, B'LORE | Sept. 01, 2014 | 5 | CS 01, ECE 01, I.T 03 | - |
| 61 | C-DOT, B'LORE | Sept. 01, 2014 | 3 | CS 02 | CS 01 |
| 62 | TEMENOS INDIA, CHENNAI | Sept. 02, 2014 | 3 | ECE 01, EEE 01, I.T 01 | - |

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|----|----------------------------------|----------------|----|---|---|
| 63 | HSBC, B'LORE | Sept. 02, 2014 | 11 | CIVIL 03, CHEM 01, CS 01, EEE 04, MECH 01, MIN 01 | - |
| 64 | AMADEUS S.W, B'LORE | Sept. 04, 2014 | 4 | CS 02, ECE 01, I.T 01 | - |
| 65 | VERITY KNOWLEDGE, HYD | Sept. 05, 2014 | 4 | MECH 02, MET 01 | CHEM 01 |
| 66 | CYPRESS SEMICONDUCTOR, B'LORE | Sept. 11, 2014 | 6 | - | CS 01, ECE 03, MECH 02 |
| 67 | FLIPKART, B'LORE | Sept. 13, 2014 | 4 | CS 03, I.T 01 | - |
| 68 | WALMART LABS, B'LORE | Sept. 15, 2014 | 3 | CS 03 | - |
| 69 | PEPSICO, B'LORE | Sept. 15, 2014 | 2 | CHEM 01, MECH 01 | - |
| 70 | CARGIL BUSINESS, B'LORE | Sept. 15, 2014 | 1 | I.T 01 | - |
| 71 | SABRE, B'LORE | Sept. 16, 2014 | 4 | I.T 01 | MCA 03 |
| 72 | FRACTAL ANALYTICS, MUMBAI | Sept. 17, 2014 | 3 | CIVIL 01, CHEM 01, EEE 01 | - |
| 73 | ZOHO CORPORATION, B'LORE | Sept. 18, 2014 | 2 | - | MCA 02 |
| 74 | ANZ OPERATION, B'LORE | Sept. 18, 2014 | 1 | I.T 01 | - |
| 75 | TCS, B'LORE | Sept. 19, 2014 | 75 | CIVIL 03, CS 01, ECE 09, EEE 12, I.T 05, MECH 05, MET 06, MIN 03 | CS 06, ECE 01, EEE 03, I.T 02, SACA 04, MCA 15 |
| 76 | OPEN SYSTEMS, B'LORE | Sept. 20, 2014 | 0 | - | - |
| 77 | XEROX INDIA, B'LORE | Sept. 20, 2014 | 0 | - | - |
| 78 | THINK & LEARN, B'LORE | Sept. 20, 2014 | 4 | CHEM 01, I.T 01, MECH 01, MET 01 | - |
| 79 | IBM, B'LORE | Sept. 21, 2014 | 21 | CS 1, ECE 01, EEE 03, I.T 01, MECH 02, MET 02 | CIVIL 01, CHEM 01, CS 01, ECE 01, MECH 02, SACA 02, MCA 03 |
| 80 | POLARIS, CHENNAI | Sept. 23, 2014 | 2 | ECE 02 | - |
| 81 | SAP LAB, B'LORE | Sept. 23, 2014 | 4 | ECE 01, EEE 01, MECH 01 | CS 01 |
| 82 | TESCO, B'LORE | Sept. 24, 2014 | 3 | CS 02, I.T 01 | - |
| 83 | ROBERT BOSCH, B'LORE | Sept. 25, 2014 | 14 | ECE 03, EEE 05, MECH 03 | MBA 03 |
| 84 | SUCCESS FACTORS, B'LORE | Sept. 25, 2014 | 2 | I.T 01 | I.T 01 |
| 85 | 3D PLM SOFTWARE, B'LORE | Sept. 26, 2014 | 2 | CS 01, MET 01 | - |
| 86 | INDIAN NAVY, MUMBAI | Sept. 26, 2014 | * | | |
| 87 | CRIMSON LOGIC, B'LORE | Sept. 27, 2014 | 2 | ECE 01, EEE 01 | - |
| 88 | ONE CONVERGENCE, HYD | Sept. 27, 2014 | 6 | - | CS 01, I.T 01, SACA 02, MCA 02 |

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|-----|-------------------------------------|----------------|----|---|--------------------|
| 89 | G E INDIA, B'LORE | Sept. 29, 2014 | 1 | - | ECE 01 |
| 90 | LATENT VIEW, HYD | Sept. 29, 2014 | 10 | CIVIL 04, CHEM 01, EEE 01, MET 01, MIN 01 | MCA 01 |
| 91 | ALTISOURCE, B'LORE | Sept. 30, 2014 | 3 | EEE 01, I.T 02 | - |
| 92 | MAHINDRA & MAHINDRA, MUMBAI | Sept. 30, 2014 | 3 | MECH 03 | - |
| 93 | COMPROTECH, B'LORE | Sept. 30, 2014 | 0 | - | - |
| 94 | NESTLE INDIA, GURGAON | Oct 01, 2014 | 3 | EEE 01, MECH 02 | - |
| 95 | SIEMENS TECH, B'LORE | Oct 06, 2014 | 3 | ECE 01, EEE 02 | - |
| 96 | TCE, B'LORE | Oct 06, 2014 | 8 | - | CIVIL 7, EEE 01 |
| 97 | L&T, MUMBAI | Oct 06, 2014 | 4 | MECH 04 | - |
| 98 | HARMAN INTERNATIONAL, B'LORE | Oct 07, 2014 | 5 | CO 02, ECE 02, I.T 01 | - |
| 99 | HERO MOTOCORP, N DELHI | Oct 08, 2014 | 5 | ECE 01, MECH 04 | - |
| 100 | WIPRO TECH, B'LORE | Oct 09, 2014 | 6 | ECE 02, EEE 01, I.T 02, MECH 01 | - |
| 101 | TEACH FOR INDIA, B'LORE | Oct 09, 2014 | * | | |
| 102 | AVERY DENNISON, B'LORE | Oct 10, 2014 | 0 | - | - |
| 103 | HEXAGON, HYD | Oct 10, 2014 | 2 | CIVIL 01, MECH 01 | - |
| 104 | SIGMOID ANALYTICS, B'LORE | Oct 10, 2014 | 0 | - | - |
| 105 | ALCATEL-LUCENT, B'LORE | Oct 10, 2014 | 7 | CS 02, ECE 01, I.T 1 | CS 01, I.T 02 |
| 106 | BROWSER STACK, B'LORE | Oct 10, 2014 | 0 | - | - |
| 107 | BHARAT FORGE, PUNE | Oct 11, 2014 | 4 | MET 04 | - |
| 108 | AFFINE ANALYTICS, B'LORE | Oct 13, 2014 | 4 | CIVIL 01, MET 02 | CIVIL 01 |
| 109 | GEP SOLUTIONS, MUMBAI | Oct 13, 2014 | 1 | ECE 01 | - |
| 110 | AKS SOFTWARE, NOIDA | Oct 13, 2014 | 2 | CS 02 | - |
| 111 | UHDE INDIA, MUMBAI | Oct 13, 2014 | 4 | CIVIL 04 | - |
| 112 | MURUGAPPA GROUP, CHENNAI | Oct 14, 2014 | 2 | CHE 01, MECH 01 | - |
| 113 | HP R&D, B'LORE | Oct 14, 2014 | 0 | - | - |
| 114 | L&T HYDROCARBON, MUMBAI | Oct 14, 2014 | 2 | - | CIVIL 02 |
| 115 | ESSENTIAL ENERGY, B'LORE | Oct 16, 2014 | 3 | EEE 01 | EEE 02 |
| 116 | V E COMMERCIAL VEHICLES, CHENNAI | Oct 16, 2014 | 4 | MECH 04 | - |
| 117 | TATA TECH, PUNE | Oct 20, 2014 | 7 | MECH 05 | MECH 02 |
| 118 | AVANTI LEARNING. B'LORE | Oct 21, 2014 | 1 | EEE 01 | - |
| 119 | RETAILON, B'LORE | Oct 27, 2014 | 4 | - | I.T 03, MCA 01 |
| 120 | TOTAL ENVIRONMENT, B'LORE | Oct 27, 2014 | 5 | CIVIL 03 | CIVIL 02 |
| 121 | ORANGE COUNTY, B'LORE | Oct 27, 2014 | 1 | - | MBA 01 |
| 122 | DAIMLER INDIA, CHENNAI | Oct 29, 2014 | 0 | | - |
| 123 | LUPIN LTD, MUMBAI | Oct 30, 2014 | 5 | CHEM 02, MECH 03 | - |
| 124 | CENTURY LINK, B'LORE | Oct 31, 2014 | 1 | ECE 01 | - |

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|-----|--|--------------|----|---|--------------------------|
| 125 | VA TECH WABAG, CHENNAI | Oct 31, 2014 | 2 | CIVIL 01, MECH 01 | - |
| 126 | MERCEDES BENZ, B'LORE | Oct 31, 2014 | 6 | - | MECH 04, MET 01, MECH 01 |
| 127 | TATA MOTORS, MUMBAI | NOV 03, 2014 | 14 | EEE 02, MECH 08, MET 03 | CIVIL 01 |
| 128 | HIL LTD, MUMBAI | NOV 05, 2014 | 2 | CHEM 01, EEE 01 | - |
| 129 | SIDVIN CORETECH, B'LORE | NOV 07, 2014 | 5 | - | CIVIL 05 |
| 130 | SAIPEM INDIA, CHENNAI | NOV 12, 2014 | 5 | CIVIL 01, EEE 02, MECH 02 | - |
| 131 | HONDA MOTORCYCLE, DELHI | NOV 13, 2014 | 3 | MECH 03 | - |
| 132 | IBM-ISL, B'LORE | NOV 13, 2014 | 3 | - | CS 02, I.T 01 |
| 133 | RELIANCE INDS., MUMBAI | NOV 13, 2014 | 18 | CHEM 06, EEE 03, MECH 06, MET 03 | - |
| 134 | GRAIL RESEARCH, NOIDA | NOV 14, 2014 | 3 | CIVIL 01, ECE 01, MECH 01 | - |
| 135 | PANDIT DEENDAYAL PETROLEUM UNIVERSITY, GUJARAT | NOV 17, 2014 | 2 | - | MECH 02 |
| 136 | INFORMATICA, B'LORE | NOV 17, 2014 | 1 | - | MCA 01 |
| 137 | EXXONMOBIL, GURGAON | NOV 18, 2014 | 2 | CHEM 01, MECH 01 | - |
| 138 | TATA POWER, MUMBAI | NOV 19, 2014 | 3 | EEE 02, MECH 01 | - |
| 139 | HOSPIRA HEALTHCARE, CHENNAI | NOV 20, 2014 | 4 | - | CHEM 01, MECH 03 |
| 140 | i-CREATE SOFTWARE, B'LORE | NOV 20, 2014 | 8 | CIVIL 01, CS 01, ECE 02, EEE 01, I.T 01, MIN 02 | - |
| 141 | ROBOSOFT, UDUPI | NOV 21, 2014 | 1 | - | MBA 01 |
| 142 | TOYOTA KIRLOSAR, B'LORE | NOV 22, 2014 | 0 | - | - |
| 143 | PHILIPS LTD., CHENNAI | NOV 24, 2014 | 1 | - | EEE 01 |
| 144 | PURPLLE.COM, MUMBAI | NOV 29, 2014 | 1 | I.T 01 | - |
| 145 | HEALTHIFYME, | NOV 29, 2014 | 0 | - | - |
| 146 | CONVERGYTICS, B'LORE | NOV 30, 2014 | 2 | ECE 01, EEE 01 | - |
| 147 | AMDOCS, PUNE | DEC 03, 2014 | 4 | CS 01, I.T 01 | CS 02 |
| 148 | INFINEON TECH, B'LORE | DEC 04, 2014 | 2 | ECE 02 | - |
| 149 | BOSCH LTD, B'LORE | DEC 05, 2014 | 3 | M3DH 03 | - |
| 150 | NOKIA SOLUTIONS, B'LORE | DEC 05, 2014 | 3 | ECE 01, I.T 01 | CS 01 |
| 151 | ODESSA TECH, B'LORE | DEC 12, 2014 | 1 | - | I.T 01 |
| 152 | L&T RAMBOLL, CHENNAI | DEC 15, 2014 | 4 | - | CIVIL 04 |
| 153 | GODREJ & BOYCE MFG, MUMBAI | DEC 17, 2014 | 0 | - | - |
| 154 | SAINT GOBAIN, CHENNAI | DEC 22, 2014 | 0 | - | - |
| 155 | INFINITI RESEARCH, B'LORE | DEC 22, 2014 | 2 | - | MBA 02 |
| 156 | DRDO, N. DELHI | JAN 04, 2015 | 2 | MECH 02 | - |

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|-----|----------------------------------|--------------|---|--------------------------------------|---------------|
| 157 | 09 SOLUTIONS, B'LORE | JAN 05, 2015 | 5 | CIVIL 01, CHEM 01, ECE 02, MIN 01 | - |
| 158 | IDEA CELLULAR, MUMBAI | JAN 06, 2015 | 1 | - | ECE 01 |
| 159 | MISYS S.W, B'LORE | JAN 06, 2015 | 3 | ECE 01, MECH 01, MIN 01 | - |
| 160 | CYIENT LTD, HYD | JAN 07, 2015 | 2 | EEE 01 | EEE 01 |
| 161 | HIKAL LTD, MUMBAI | JAN 08, 2015 | 2 | CHEM 02 | - |
| 162 | COCA-COLA, B'LORE | JAN 08, 2015 | 2 | MECH 02 | - |
| 163 | URBAN ONLINE SERVICES, B'LORE | JAN 08, 2015 | 0 | - | - |
| 164 | VIRTUSA CORPN, CHENNAI | JAN 09, 2015 | 4 | ECE 01, EEE 01 | MCA 02 |
| 165 | HINDALCO, MUMBAI | JAN 10, 2015 | 0 | - | - |
| 166 | ACG PHARMA, PUNE | JAN 12, 2015 | 2 | MECH 02 | - |
| 167 | METRIC STREAM, B'LORE | JAN 12, 2015 | 2 | - | CS 01, I.T 01 |
| 168 | PIDILITE INDS., MUMBAI | JAN 13, 2015 | 4 | MECH 04 | - |
| 169 | SNAPDEAL, B'LORE | JAN 15, 2015 | 5 | CS 03, I.T 02 | - |
| 170 | PRACTO TECH, B'LORE | JAN 17, 2015 | 2 | CS 01, EEE 01 | - |
| 171 | TITAN CO., B'LORE | JAN 17, 2015 | 0 | - | - |
| 172 | ZIVAME.COM, B'LORE | JAN 18, 2015 | 1 | - | I.T 01 |
| 173 | AAKASH INSTITUTE, N. DELHI | JAN 19, 2015 | 3 | CIVIL 01, EEE 01 | CHEM 01 |
| 174 | RAMCO SYSTEMS, CHENNAI | JAN 20, 2015 | 3 | ECE 02, EEE 01 | - |
| 175 | EXPICIENT S.W., B'LORE | JAN 22, 2015 | 2 | - | CS 01, MCA 01 |
| 176 | AXIS BANK, MUMBAI | JAN 23, 2015 | 3 | - | MBA 03 |
| 177 | RELIANCE JIO, MUMBAI | JAN 27, 2015 | 0 | - | - |
| 178 | ATKINS, B'LORE | JAN 27, 2015 | 3 | - | CIVIL 03 |
| 179 | TATA HITACHI, JAMSHEDPUR | JAN 28, 2015 | 1 | MECH 01 | - |
| 180 | LINDE INDIA, KOLKATA | JAN 30, 2015 | 0 | - | - |
| 181 | TEJAS NETWORKS, B'LORE | JAN 30, 2015 | 2 | CS 01, I.T 01 | - |
| 182 | JOHNSON CONTRLS, B'LORE | FEB 03, 2015 | 2 | EEE 02 | - |
| 183 | JSW STEEL, BELLARY | FEB 04, 2015 | 3 | MET 03 | - |
| 184 | HOUSING.COM, MUMBAI | FEB 05, 2015 | 0 | - | - |
| 185 | VISA, MUMBAI | FEB 05, 2015 | 9 | CS 04, ECE 01 | CS 04 |
| 186 | ARICENT, NOIDA | FEB 05, 2015 | 0 | - | - |
| 187 | URBAN LADER, B'LORE | FEB 06, 2015 | 1 | I.T 01 | - |
| 188 | MERU CAB, HYD | FEB 10, 2015 | 2 | CS 01, I.T 01 | - |
| 189 | COUPON DUNIA, MUMBAI | FEB 11, 2015 | 0 | - | - |
| 190 | UB LTD, B'LORE | FEB 13, 2015 | 2 | MECH 02 | - |
| 191 | AMADA, B'LORE | FEB 17, 2015 | 0 | - | - |
| 192 | TECHNIP INDIA, CHENNAI | FEB 19, 2015 | 1 | - | CIVIL 01 |
| 193 | NAUVATA ENGG., B'LORE | FEB 19, 2015 | 0 | - | - |
| 194 | BPCL, MUMBAI | FEB 22, 2015 | 4 | CHEM 01, MECH 03 | - |
| 195 | RESONANCE ADVENTURES, KOTA | FEB 23, 2015 | 1 | EEE 01 | - |

| | | | | | |
|-----|-------------------------------|----------------|---|-----------------------|--------|
| 196 | FUTURE SUPPLY CHAIN, MUMBAI | FEB 25, 2015 | 2 | MECH 02 | - |
| 197 | SANDUR GROUP, BELLARY | FEB 26, 2015 | 1 | - | MET 01 |
| 198 | CSC, B'LORE | FEB 27, 2015 | 3 | - | MCA 03 |
| 199 | SYNERGY PROPERTY, B'LORE | FEB 27, 2015 | 4 | CIVIL 04 | - |
| 200 | EVIVE SOFTWARE, B'LORE | MAR 02, 2015 | 2 | - | CS 02 |
| 201 | SONATA SOFTWARE, B'LORE | MAR 02, 2015 | 4 | CS 01, ECE 01, I.T 02 | - |
| 202 | STAYZILLA, CHENNAI | MAR 02, 2015 | 3 | CS 02, I.T 01 | - |
| 203 | CARTESIAN CONSULTING, MUMBAI | MAR 04, 2015 | 0 | - | - |
| 204 | JUST UNFOLLOW, B'LORE | MAR 09, 2015 | 2 | CS 02 | - |
| 205 | KALKI COMMUNICAITON, B'LORE | MAR 11, 2015 | 0 | - | - |
| 206 | L&W CONSTRUCTION, B'LORE | MAR 12, 2015 | 3 | CIVIL 02, MECH 01 | - |
| 207 | COCUBES.COM, GURGAON | MAR 14, 2015 | * | | |
| 208 | CAPITALVIA, GURGAON | MAR 17, 2015 | 3 | - | MBA 03 |
| 209 | SUN ROUTE ASSOCIATES, GURGAON | MAR 19, 2015 | 0 | - | - |
| 210 | VIGNAN UNIVERSITY, HYD | MAR 24, 2015 | * | - | |
| 211 | SIEMENS LTD, MUMBAI | APRIL 01, 2015 | 1 | EEE 01 | - |
| 212 | MAGNETI MARELLI, GURGAON | APRIL 04, 2015 | * | | |
| 213 | AL FARA'A GROUP | APRIL 04, 2015 | * | | - |
| 214 | ALSHAYA SOFTWARE, B'LORE | APRIL 07, 2015 | 0 | | - |
| 215 | 159 SOLUTIONS, CHENNAI | APRIL 07, 2015 | * | | |
| 216 | ABOVE SOLUTIONS, B'LORE | APRIL 10, 2015 | * | | |
| 217 | METTL-PRODUCT, NOIDA | APRIL 11, 2015 | * | | |
| 218 | SYMANTEC SOFTWARE, B'LORE | APRIL 13, 2015 | * | | |

*Results awaited

Training Slots for the Academic Year 2014-15

| Sl. No. | Branch | No. of Slots |
|----------------|---|---------------------|
| 01 | Chemical Engineering | 98 |
| 02 | Civil Engineering | 60 |
| 03 | Computer Engineering | 66 |
| 04 | Electronics & Communication Engineering | 43 |
| 05 | Electrical & Electronics Engineering | 85 |
| 06 | Information Technology | 50 |
| 07 | Mechanical Engineering | 133 |
| 08 | Metallurgical & Material Engineering | 71 |
| 09 | Mining Engineering | 83 |
| | Total Number of Students | 689 |

| | |
|----------------------------------|---------------------------------------|
| Number of Companies : 211 | Number of Training Slots : 689 |
|----------------------------------|---------------------------------------|

17 SPECIAL INITIATIVES

17.1 Direct Admission of Students Abroad (DASA)

The admission of Foreign Nationals / Persons of Indian Origin/ Non-Resident Indians to undergraduate programs in Centrally Funded Institutions (CFIs) is being offered under DASA (Direct Admission of Students Abroad) scheme from the academic session 2001-02 onwards. The Ministry of Human Resource Development, Government of India has entrusted the coordination of the admission process under DASA scheme to NITK, Surathkal from academic year 2010-11 to 2013-14 vide an order No. F-22-12/2007-TSIII dated 04 March 2010.

The academic eligibility criteria for students seeking admission under DASA scheme for the academic year 2012-13, has been modified. In addition to passing the qualifying examination, candidates should have a valid **SAT-II** (Subject Test) score, minimum of 1440 conducted by College Board, USA (in Physics, Chemistry and Mathematics level –II) to be eligible for admission.

The admission process has been modified and those seeking admission under DASA scheme have to apply online, filling an online application form and making payment of fee through demand draft/Swift transfer/e-transfer.

Salient features that have been incorporated in the DASA admissions are:

- Number of seats for 2013-14, UG – 2180, M.Tech. – 709 MBA - 89
- On line admission process
- On line fee payment process
- On line seat allotment process
- SAT subjectwised Test for Merit list preparation
- Processing fee 250 USD

17.2 MEMORANDA OF UNDERSTANDING (MOUs)

| Date of signing MOU Duration | Organization/Institute |
|---|--|
| 9th March 2015 5 years | Kagoshima University, Japan |
| 28th February 2015 5 years | Faculty of Engineering and Graduate School of Science and Technology, Kumamoto University, Japan |
| 10th February 2015 5 years | Father Muller Medical College |
| 1st December 2014 5 years | National Institute of Technology Agartala, Tripura |
| 26th September 2014 5 years | Kompetenzzentrum Holz GmbH |
| 24th September 2014 5 years | Indian Institute of Technology Madras, Chennai |
| 18th June 2014 5 years | The Indian Navy, New Delhi |

| | |
|--|--|
| 15th May 2014 3 yeras | Management Development Institute, Gurgaon, India (MDI) |
| 14th May 2014 Renewed for further period of 5 years | Michigan State University, U. S. A. |
| 8th April 2014 5 years | CSIR-National Institute Of Oceanography, Goa |

17.3 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.8,000/- as P.G. stipend per month. M.Tech. (Q.I.P.) Regular and (Q.I.P.) Poly are paid Rs.4,000/- per month and a contingent grant of Rs.3,000/- per year.

Full-Time Ph.D. Research Scholars are paid institute scholarship @ Rs.18,000/- per month (for Ph.D. in Engg.) and Rs.16,000/- per month (for Ph.D. in Science/Humanities & Social Sciences) and contingent grant of Rs.30,000/- per annum. Ph.D. (QIP) 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 Chemistry

| Details of Innovations/patent | Name of faculty/Staff/ students involved |
|---|---|
| Indian patent filed on June 2014 'Novel synthesis of D-persomine' | Arun M. Isloor, Ph.D. |

Department Of Electronics & Communication Engineering

| Details of Innovation/Patent | Names of faculty/staff/students involved |
|---|---|
| "Switched Capacitor Integrator based Successive Approximation Register Analog to Digital Converter Circuit and Conversion method thereof", applied at Indian Patent Office, Chennai – No. 3549/CHE/2014 dated 18/06/2014. | M Shankaranarayana Bhat, T Laxminidhi Jagadish D. N |

17.5 Concessions For SCs, STs, Handicapped Students

Concessions Provided For Students (Karnataka State Students Only) (Tuition Fee Concession) – Nil

Concessions Provided For Staff - Nil

17.6 SC/ST CELL

In order to ensure prompt disposal of the grievances of the SC/ST employees, scrutinize and consolidate the statistical data to conduct annual inspection of the rosters, SC-ST Cell was established in 2006.

The Cell also coordinates Scholarship Schemes for the benefit of the students belonging to SCs/STs category.

- Under the Central Sector Scholarship Scheme for 12 SC students (Ministry of Social Justice and Empowerment) and 5 ST students (Ministry of Tribal Affairs) are providing full financial support for pursuing studies. During academic year 2014-2015, 48 SC students and 19 ST students got benefited.
- To cater the need of academic weaker students and support, Cell arranged the Special Coaching Classes for all theory subjects and Computer Programming Lab for first year B.Tech students belonging to SC/ST/OBCs, Minorities and PWDs.
- Coordinated Ambedkar Jayanthi celebration in the institute.
- To promote qualitative education in Engineering, following schemes drawn under financial assistance to the SC/ST students of the Institute to all academic programs whose family income from all sources doesn't exceed Rs.4.5 lakhs per annum.
 - a) Book allowance- Rs.6000/- (Rs.3000/- per semester).
 - b) Waiver of Hostel Fee (except caution deposit).
 - c) Latest computer with full accessories limited to Rs.45000/- per student as one time assistance.
 - d) Students Academic Performance Incentives (Rs.12,000-00 if CGPA is more than 6.5 and Rs.18,000-00 if CGPA is more than 8.0 in previous year).
- For Employability Enhancement and Entrepreneurship, Professional Skill Enhancement Programme conducted from 30th June to 16th July 2014 for pre final year B.Tech SC/ST students. Around 50 students participated in the programme and Personal Empowerment Programme conducted from 22nd to 29th December 2014 for PG students belonging to SC/ST category. Around 35 students actively participated in the programme and got benefited.
- Institute staff are deputed for various Training programme conducted by The Institute of Public Administration, Bangalore and The National Council for Training & Social Research, New Delhi.

17.7 NSS (National Service Scheme)

The NSS unit of the NITK Surathkal (formerly KREC Surathkal) has been actively rendering its services to the backward areas and villagers of Dakshina Kannada district since its inception in this institute in 1964. The NSS unit organizes regular activities like, tree plantation, clean up of the hostels and NIT K Beach, organizes blood donation, medical, dental and eye camp for the villagers. It also involves in promoting literacy to villagers

irrespective of their age, and enhances educational tools and, motivates primary school children of the schools located in various villages. The NSS unit of the institute was initially part of the Mysore University, Mangalore University and Vishvesvaraya Technological University. For the year 2010, the institute has already obtained permission from the Karnataka state NSS unit to have NSS unit which is independent to NIT K Surathkal.

17.8 RIGHT TO INFORMATION ACT (RTI 2005)

The Right to Information Act, 2005 empowers citizens to get information from any 'public authority'. The Central Public Information Officer (CPIO) of a public authority plays pivotal role in making the right of a citizen to information a reality. The Act casts specific duties on him and makes him liable for penalty in case of default.

Right to Information under the Act

A citizen has a right to seek such information from a public authority which is held by the public authority or which is held under its control. This right includes inspection of work, documents and records; taking notes, extracts or certified copies of documents or records; and taking certified samples of material held by the public authority or held under the control of the public authority.

The Act gives the citizens a right to information at par with the Members of Parliament and the Members of State Legislatures.

Right to Information Cell was established as per the MHRD letter No. F.19-31/2005-TS-III dated 20.09.2005.

Suo-Moto disclosures are uploaded on the NITK website under RTI section. These disclosures are mandatory and are crucial to ensure transparency and accountability. This would reduce the load of RTI Applications which are freely available to citizens. 177 RTI Applications were received during the year 2014-15 (from 01.04.2014 to 31.03.2015).

17.9 YOGA CENTRE HISTORY

Yoga club is a club which organizes all sorts of meditation methods like different yam or self discipline, niyam or discipline, Asanas or position, Bandha or Mudra, Pranayama or control of breath, pratyahar or determination, dharana or dedication, dhayan or meditation and Samadhi or deep meditation which help in concentration in study, helping in attaining happiness by removing all sorts of diseases, for the purity of external life and for internal purity by following regulation of purity of thoughts. It has been organizing yoga events from the last 15 years in NITK.

RECENT INITIATIVES

- We have planned to organize 6 batches in this year which is much more than last year in which only 3 batches were conducted in one year and previous years.
- We are also planning to conduct some special yoga practices for faculty members who are willing to join in large number. A large number of faculty members have enquired and wanted to join the yoga practices.

- We are planning to attract more number of B.TECH students by increasing the size of organizing members and also inducting 1st years into organizing committee.
- We are trying to make people aware of yoga programs more and more by notices as well through personal and group contacts.

MAJOR ACHIEVEMENTS

- 180 people have been enrolled in this semester in different batches which is very large as compared to previous year enrolments and about same number of students are likely to enroll in the next semester yoga practices.
- More than 60 girl students have enrolled for yoga practices this year and are actively participating in almost all batches.
- Postgraduate students and Ph.D scholars have shown much more interest in practicing and learning yoga asanas and pranayams than undergraduate people.

17.10 TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME (TEQIP)

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) 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. This was launched in March 2011 with NITK entering into MOU with MHRD for successful implementation of the project. 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. This will enable 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 ₹ 125 million under TEQIP-II programme, a sum of ₹ 20.00 million was received on 21-06-2011, ₹ 41.70 million was received on 06-10-2012, ₹ 10.00 million was received on 28-03-2014, ₹ 25.00 million was received in 09-07- 2014 and again ₹ 25.00 million was received on 23-12-2014. Hence

a total of ₹ 121.70 million has been received up to the end of 31-03-2015. With the above fund flow the targets achieved and those under progress up to the end of March 2015 are as under:

| | | |
|----|---|-------------------------|
| 1. | Procurement of Assets (including Books, LRs, software, Equipments and Furniture | ₹ 52.403 million. |
| 2 | Providing Teaching and Research Assistantship | ₹ 10.426 million |
| 3 | Enhancement of R & D activities | ₹ 1.135 million |
| 4 | Faculty and Staff Development | ₹ 9.131 million |
| 5 | Enhanced interaction with Industry | ₹ 1.866 million |
| 6 | Academic support to weak students | ₹ 1.133 million |
| 7 | Incremental Operating Cost | ₹ 14.924 million |
| 8 | Institutional Management Capacity Enhancement | ₹ 0.428 million |
| 9 | Implementation of Institutional Academic Reforms | ₹ 9.355 million |
| | Total spent up to 31-03-2015 | ₹100.801 million |

Procurement of various items of equipment and software made during the current year is up to ₹ 127.439 lakhs and up to 31-03-2015 is ₹ 524.038 lakh.

Twelve Workshops/Seminars involving financial outlay of ₹ 43.20 lakhs were conducted in various Engineering departments. Eight Expert Lecture programmes, Five National Conferences, Five International Conferences and One Finishing School programme were conducted under Industry Institute Interaction, Faculty and Staff Development and under Enhancement of Research and Development activities. Three meetings i.e. one with VOLVO and two advisory committee meeting were held during this year. A two day conclave of all NIT Directors was held during this year. A one day event entitled VOLVO Day was held in the Institute with participation from the top executives of VOLVO India and all students of NITK. This has led to several National and international Internships offered by VOLVO to students of NITK, Surathkal

(i) Two Peer mentoring programmes for academically weak students of B. Tech. & M. Tech have been conducted in E & C Engineering Department.

(ii) A finishing School for Post Graduate students of E&C Engineering, E&E Engineering and Mechatronics Engineering was held in NITK. A number of eminent resource persons from Industry and one Senior Professor from McMaster University, Canada shared their expertise and knowledge with the students. Courses on Personality Development and Enhancement of Language and Presentation skills were also conducted as part of Finishing School.

(iii) Eight Faculty members from Chemical, Mechanical and Civil Engg. Departments and Dept. of Chemistry have participated and presented research papers in International conferences held in various places in India.

(iv) A total 32 Faculty members have undertaken foreign visits for Research Interaction (Top 200 Universities in the World as per QS ranking). An expenditure of ₹ 64.70 lakh was incurred to support this programme.

(v) A total 31 Non-Teaching Staff (including officers) have participated in various training programmes/workshops, personality development programmes held in various Institutes and Professional bodies within India.

In addition, 16 Half Time Teaching Assistants (HTTAs) and 4 Post Graduate Research Assistants (PGRAs) were admitted to the Institution under the TEQIP-II project. Each HTTA is paid an assistantship of Rs. 15,000/- per month up to a period of three years. Each PGRA is paid Rs. 25,000/- as Research Assistantship for the first 24 months and @ Rs. 28,000/- per month for the next 36 months.

The NPIU nominated Mentor visited this Institution twice during December 2012 and December 2014 and interacted with all the concerned Nodal Officers, Departments, faculty members Non-Teaching Staff and students. He has submitted a comprehensive report to NPIU. The Performance Auditor appointed by NPIU also visited this Institute and has 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. Six-monthly Internal Audit has been done by the Senior Internal Auditor of the Institute in accordance with the guidelines stipulated in Financial Management Manual and reports have been sent to NPIU.

TEQIP-II *Co-Coordinator* and Nodal Officer (Finance and MIS) have attended the 4th JRM meeting during April 2014 in New Delhi. The progress achieved under the project was presented to the authorities and plans for accelerated implementation of various goals under the TEQIP-II project were presented in this meeting.

Nodal Officer (Finance) together with Accounts Officer of TEQIP-II attended one day training programme held in Mumbai on filing of e-FMR by TEQIP-II unit conducted by NPIU.

All the updated MIS information have been uploaded. This has enabled NITK to obtain 100% points earmarked for various elements. Additionally we would like to place on record that NITK and NIT Nagpur are the only two Institutions to have bagged twelve out of twelve points earmarked for various performance indicators under TEQIP-II 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 2014-15 is Rs. 2.15 crores. 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 |
|--------------------------------------|--|-----------------|
| Kirloskar Ferrous Industries, Koppal | R & D | 2014 - 2016 |
| L&T Construction, Chennai | Academic, research and training | 2014-2019 |

Department of Computer Engineering

| Name of Industry | Nature of Collaboration (academic, research, training, etc.) | Period/ Duration |
|---------------------|---|------------------|
| C-DAC Bangalore | Academic and Training | 2014-15 |
| Microsoft | Academic and Training | 2014-15 |
| IBM | Academic and Training | 2014-15 |
| SAP Labs, Bangalore | Academic and Training | 2013-2015 |
| DELL, Bangalore | Academic and Training | 2013-2015 |

Father Muller Medical College and National Institute of Technology-Karnataka, Surathkal has signed a Memorandum of Understanding (MoU) on 10-02-2015. The first project would aim at developing devices for early identification of autism and would be collaboration between the Department of Computer Science and the Department of Pediatrics, Father Muller Medical College.

Department of Chemical Engineering

| Name of Industry | Nature of Collaboration (Academic, Research, Training. Etc.) | Period / Duration |
|--|---|------------------------------------|
| Viraj Alcohols and Allied Industries Ltd., Sangli | Training/Internship to B.Tech.& M.Tech. students. | Two months during May to July2014 |
| Mangalore Chemicals & Fertilizers Ltd, Panambur, Mangalore | Training/Internship to B.Tech.& M.Tech. students. | One month during June to July 2014 |
| Akshaya Patra Foundation, Bangalore | Training/Internship to B.Tech.& M.Tech. students. | Two months during May to July2014 |
| Chemical Process Engineers, Bangalore | Training/Internship to B.Tech.& M.Tech. students. | Two months during May to July2014 |
| The Travancore – Cochin Chemicals Ltd., Udyogmandal, Kochi . | Training/Internship to B.Tech.& M.Tech. students. | Two months during May to July2014 |
| MSN Laboratories Pvt.Ltd., Hyderabad, A.P. | Training/Internship to B.Tech.& M.Tech. students. | Two months during May to July2014 |
| The Fertilizers and Cbchemicals Travancore Ltd., | Training/Internship to B.Tech.& M.Tech. students. | Two months during May to July2014 |
| Centre for Learning and Development, Bharat Electronics, Bangalore | Training/Internship to B.Tech.& M.Tech. students. | Two months during May to July2014 |
| Tumkur Co-operative Milk Producers' Societies Union Ltd., | Training/Internship to B.Tech.& M.Tech. students. | Two months during May to July2014 |
| Neyveli lignite corporation limited, Neyveli, Tamilnadu | Training/Internship to B.Tech.& M.Tech. students. | Two months during May to July2014 |
| Bengaluru Urban, Begaluru Rural & Ramnagar District Co-operativeMilk Producers' Societies Union Ltd.,Bengaluru | Training/Internship to B.Tech.& M.Tech. students. | Two months during May to July 2014 |
| Nagarjuna Fertilizers and Chemicals Ltd.,Kakinada, | Training/Internship to B.Tech.& M.Tech. students. | Two months during May to July 2014 |
| CIPLA Ltd., Banglore | Training/Internship to B.Tech.& M.Tech. students. | Two months during May to July 2014 |
| WIPRO Enterprises :Limited, Tumkur | Training/Internship to B.Tech.& M.Tech. students. | One month during June to July 2014 |
| The Kerala Minerals and Metals Ltd., Kollam, Kerala | Training/Internship to B.Tech.& M.Tech. students. | Two months during May to July 2014 |
| Amara Raja Batteries Limited, Tirupathi | Training/Internship to B.Tech.& M.Tech. students. | Two months during May to July 2014 |
| Delhi Pollution control Committee, Delhi | Training/Internship to B.Tech.& M.Tech. students. | Two months during May to July 2014 |
| Kudremukh Iron Ore Company, | Training/Internship to | One month during June to July |

| | | |
|--|---|------------------------------------|
| Mangalore | B.Tech.& M.Tech. students. | 2014 |
| NOCIL, Mumbai | Training/Internship to B.Tech.& M.Tech. students. | One month during December 2014 |
| BPCL, Kochi | Training/Internship to B.Tech.& M.Tech. students. | Two months during May to July 2014 |
| Yokogawa IA Technologies India | Training/Internship to B.Tech.& M.Tech. students. | Two months during May to July 2014 |
| Herdilia Chemicals, SI Group India Ltd, Turbine, Navi Mumbai | Training/Internship to B.Tech.& M.Tech. students. | Two months during May to July 2014 |
| BPCL Refinery Mahul Mumbai | Training/Internship to B.Tech.& M.Tech. students. | Two months during May to July 2014 |
| Hiyoshi Corporation, Jpan | Training/Internship to B.Tech.& M.Tech. students. | One month during June to July 2014 |
| Nanyang Technological University (NTU, Singapore) | Research interaction to B.Tech. Students | Two months during May to July 2014 |
| ICT, Mumbai | Research interaction to B.Tech./M.Tech. Students | Two months during May to July 2014 |
| IISc., Bangalore | Research interaction to B.Tech./M.Tech. Students | Two months during May to July 2014 |
| National Instt. Of Immunology, New Delhi under Summer Research Fellowship Programme jointly sponsored by IASc, INSA and NASI | Research interaction to B.Tech./M.Tech. Students | Two months during May to July 2014 |
| Rajiv Gandhi Center for Biotechnology, Thiruvanthapuram | Research interaction to B.Tech./M.Tech. Students | Two months during May to July 2014 |
| Indian Instt. Of Science Education and Research, Mohali | Research interaction to B.Tech./M.Tech. Students | Two months during May to July 2014 |
| Indian Instt. Of Science Education and Research, Mohali | Research interaction to B.Tech./M.Tech. Students | Two months during May to July 2014 |
| Indian Instt. Of Science Education and Research, Mohali | Research interaction to B.Tech./M.Tech. Students | Two months during May to July 2014 |
| Dept. of Bioscience & Bioengg., IIT, Mumbai | Research interaction to B.Tech./M.Tech. Students | One month during June to July 2014 |
| Central Leather Research Institute, Chennai | Research interaction to B.Tech./M.Tech. Students | Two months during May to July 2014 |
| Dept. of Biochemistry and Medical Biotechnology, Calcutta school of Tropical Medicine, Kolkata | Research interaction to B.Tech./M.Tech. Students | One month during June to July 2014 |
| Dept. of Chemical Engg., IIT, Mumbai | Research interaction to B.Tech./M.Tech. Students | One month during June to July 2014 |
| Central tuber crops research Institute, Thiruvananthapuram | Research interaction to B.Tech./M.Tech. Students | Two months during May to July 2014 |

Department of Electrical & Electronics Engineering

| Name of Industry | Nature of Collaboration (academic, research, training, etc) | Period/Duration |
|-------------------------------------|--|-----------------|
| New Mangalore Port Trust | Academic (for staff selection process; question paper preparation, conduction of test and selection of electrical engineers for NMPT by Dr G S Puneekar) | June- July 2014 |
| Mangalore Chemical and Fertilizers. | 10.5 MW motor failure analysis, (Technical expert opinion and discussion by Dr G S Puneekar) | One day |
| IE(I) Mangalore chapter | Safety day lecture on 5 th March on account of National Safety day celebration delivered by Dr G S Puneekar. | One day |

Department of Electronics & Communication Engineering

| Name of Industry | Nature of Collaboration (academic, research, training, etc) | Period/Duration |
|--|---|---------------------------------------|
| Light and Electro Optics Laboratory (LEOS), ISRO | Design of Free Space Optical link from satellite to ground station (Research) | 2012-2014 |
| Texas Instruments | BTech Major Project | 2014-2015 |
| TIFR, Bombay | | |
| Dr. Sreeram Vajapeyam | | |
| RRI, Bangalore | | |
| Ittiam, Bangalore | | |
| Intuvision Labs, Bangalore | | |
| FluxgenTech, Bangalore | | |
| Rockwell Automation | BTech Internship | Summer Dec 2014 |
| TEXAS INSTRUMENTS INDIA Pvt Ltd. | | 5th December 2014 to 5th January 2015 |
| Technophilia Systems, Bangalore | | Winter 2014 |
| Toyota Kirloskar Motors | | June 10, 2014 to July 18, 2014 |
| Robert Bosch | | May15, 2014 to July 15, 2014 |
| Zurepro Online Services Pvt. Ltd. | | May 17, 2014 to July 1, 2014 |
| Schlumberger | | May 10, 2014 to June 10, 2014 |
| Tata Elxsi | | June 15, 2014 to July 15, 2014 |

| | | |
|--|--|-----------------------------------|
| Tejas Networks | | June 12, 2014 to July 19, 2014 |
| Oman Cables Industries | | June 1, 2014 to June 13, 2014 |
| Sushma Industries | | June 2, 2014 to July 2, 2014 |
| Rothschild India Pvt. Ltd. | | May 12, 2014 to June 27, 2014 |
| Electronic Corporation of India Limited, Hyderabad | | May 19, 2014 to June 18, 2014 |
| Ananya Technology Pvt Ltd | | Dec 4, 2014 to Dec 31, 2014 |
| SimpleWealth | | 2 December 2014 to 2 January 2015 |
| PLX Technology | | MTech Major Project |
| Intel India | | |
| Broadcom | | |
| Infineon | | |
| Emulex | | |
| Cardiac Design Labs | | |
| Calligo Technologies | | |
| Robert Bosch | | |

Department of Mechanical Engineering

| Name of Industry | Nature of Collaboration (academic, research, training, etc) | Period/Duration |
|---|--|---|
| AVL | MoU with AVL with Licensed Software of AVL FIRE and BOOST. | Every One year (From 2011) |
| Seasa Goa | Research and consultancy | 1 year |
| Thermax Ltd | Research and consultancy | 3 years |
| Central Manufacturing Technology Institute, Bangalore | Academic and research in Manufacturing Sciences | Started M.Tech Programme in collaboration |
| Mercedes-Benz, Bangalore | Academic and research in automobile Engineering | |
| Robert Bosch Engineering and Business Solutions | Academic and research in automobile Engineering | 3 years |
| ISRO satellite Centre, Bangalore | Research | |
| Summer institute, Switzerland | Academic and Research | 3 years |
| Volvo India | Academic and Research | 3 years |

Department of Mining Engineering

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

Department of Metallurgical & Materials Engineering

| Name of Industry | Nature of Collaboration (academic, research, training, etc) | Period/Duration |
|---|--|-------------------------|
| Kennametal India Limited, Bangalore | M.Tech. Project | August 2014 to May 2015 |
| Bharat Heavy Electricals Limited, Bangalore | M.Tech. Project | August 2014 to May 2015 |
| Central Electrochemical Research Institute, Karaikudi | M.Tech. Project | August 2014 to May 2015 |
| Indian Rubber Manufacturers Research Association, Thane | M.Tech. Project | August 2014 to May 2015 |

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 | 14 th –15 th December, 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' | 21 st October 2013 | 112 |
| 5 | Workshop | Recent trends in system application as applied to Civil Engineering | 09.01.2015 | 100 |
| 6 | International Conference | Water Resources, Coastal and Ocean Engineering (ICWRCOE'15) | 12-14 March 2015 | 350 |

Visits abroad by Faculty members

| Name of the Faculty | University/ Institute/ Organisation | Place | Purpose | Duration |
|--------------------------|-------------------------------------|-------------------|--|----------------------|
| A. Vittal Hegde, Ph.D. | | Zurich Swizerland | For attending International conf. ICCOE-2013 | |
| Kiran G. Shiralal, Ph.D. | University of Hamburg | Germany | 11 th International Conference on Hydrosience and Engineering, Hamburg, Germany | 28 Sep to 2 Oct 2014 |
| Manu, Ph.D. | University of Hamburg | Germany | 11 th International Conference on Hydrosience and Engineering, Hamburg, Germany | 28 Sep to 2 Oct 2014 |

| | | | | |
|-------------------------|--------------------------|------------------------------|---|-------------------------|
| Pruthviraj U. Ph.D. | University of Hamburg | Germany | 11 th International Conference on Hydrosience and Engineering, Hamburg, Germany | 28 Sep to 2 Oct 2014 |
| G.S.Dwarakish, Ph.D. | Malaysian University | Kuala Lumpur, Malaysia | To attend and present paper in the International Conference 2014 IEEE Region 10 | 14 to 17 April 2014 |

Projects faculty members applied

| Date Applied | Name of the Faculty | Funding Agency | Amount asked for (in Lakhs) | Research Scholar/ Project Fellow Included (YES/NO) | % Overhead Charges | Remarks Got it (Letter No.)/ Rejected/ Pending |
|--------------|-------------------------|------------------------|-----------------------------|--|--------------------|--|
| 12.12.2013 | G.S.Dwarakish, Ph.D. | MOEF | 250.60 | Yes | 20 % | Pending |
| 17.03.2014 | G.S.Dwarakish, Ph.D. | ISRO- RESPOND | 17.65 | No | 20 % | Pending |
| | Manu, Ph.D. | MoES, GoI New-Delhi | 120.635 | Yes | 20 % | Pending |

Other details if any

Awards / Distinction

Prof. Satish Dhawan State Award 2012- The Department of Science & Technology, Govt. of Karnataka had conferred Prof. Amai Mahesh with Prof. Satish Dhawan Young Engineer State Award 2012. The award carries a citation, plaque and cheque for Rs. 50,000/-

Department of Chemical Engg

Ms. Anusha Krishnamurthy pursuing PhD under Dr. Prasanna B.D of Chemical Engg. Department, won the "**Best Poster**" award in "National Conference on Recent Trends in Microbial Biotechnology" held at Osmania University, Hyderabad held during 25-28 February 2015

Notable Achievements during the year

Guest Lectures Delivered By Faculty Members

| Sl.No. | Subject / Topic of the Guest Lecture | Lecture Delivered by (Name & Address) | Place & Event of Lecture Delivered | Dates of Lecture |
|--------|---|---------------------------------------|---|-----------------------------|
| 1 | Modelling and Simulation of Crystallization Reactor | Dr. B. Ashraf Ali | Two-day National Workshop on "Advanced Mathematical Approaches In Chemical and Environmental Engineering Using Matlab And Simulink" at NIT ,Calicut. During period of 1 st JANUARY 2015 To MARCH 2015, | February 28 & March 1, 2015 |

Department Of Civil Engineering

| Achievements up to 31 st March 2014 | Achievements during 1 st April 2014 to 31 st March 2015 |
|--|--|
| ➤ | American Society of Civil Engineers has issued the charter for National Institute of Technology Karnataka Student Chapter. |
| ➤ | 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. |

Department of Computer Engineering

| Achievements up to 31 st March 2014 | Achievements during 1 st April 2014 to 31 st March 2015 |
|--|--|
| <p>Faculty achievements:</p> <ul style="list-style-type: none"> ➤ Prof. Swapan Bhattacharya, the esteemed Director of NITK Surathkal was honoured with The ET NOW National Education Leadership Award. ➤ Dr.K.Chandrasekaran is nominated as a member in the Editorial board of IEEE transactions on Cloud Computing. ➤ Dr.K.Chandrasekaran is selected as one of the members of the "IEEE Cloud Computing STC's conference Executive TCS Committee", USA. | <p>Faculty achievements:</p> <ul style="list-style-type: none"> ➤ Dr. Mohit P. Tahiliani received the "EMC Young Achiever Awards 2015" from EMC Corporation on 12th February 2015 at Le-Meridian Chennai. <p>Students achievements:</p> <ul style="list-style-type: none"> ➤ 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. |

| Achievements up to 31 st March 2014 | Achievements during 1 st April 2014 to 31 st March 2015 |
|---|---|
| <ul style="list-style-type: none"> ➤ A six day International Summer School on "Leading Edge Software Engineering (ISS-LESE 2014)", 3rd – 8th March 2014. Organizing Chair: Dr. K. Chandrasekaran ➤ Second International Conference on Advanced Computing, Networking and Security - ADCONS '13, 15th–17th December 2013. Organizing Chairs : Dr.Annappa & Dr. Anathanaraya V.S ➤ Three days workshop on "Cloud Computing and Internet of Things", 23th-25th July 2012, Co-ordinator:Dr.K. Chandrasekaran. ➤ Three days International Symposium on "Cloud and Services Computing 2012 (ISCOS 2012)", 16-18 December 2012, Co-ordinator: Dr.K.Chandrasekaran. ➤ Arun V. Hegde Memorial Cash Prize for Karthik C (11CO47), VI semester B.Tech.(CSE) and Chetan Dugar (10CO106),VIII B.Tech.(CSE) securing more than 7.5(S.G.P.A.). ➤ Mahila Samithi KIOCL "Kudremukh" scholarship to Abhishek Maheshwari (12CO108), IV semester B.Tech.(CSE). ➤ Prof. V. Rajaraman's cash Award to Chetan Dugar (10CO106), VIII B.Tech.(CSE) for highest CGPA from I to VII semester for the year 2013-14. ➤ Ananthatejas R., Suhas G.P, Yashwanth K.P, Sujay M, Lokananda D.M., won second prize on Ethical Hacking competition workshop, securIT 2012 at Amrita Vishwa Vidya Peetham, Coimbatore under the guidance of Dr. P. Santhi Thilagam. | <ul style="list-style-type: none"> ➤ Ms. Shruthi Puranik, 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. ➤ 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.). ➤ Prof. V. Rajaraman's Cash award to Pranav Bhat T (11CO66) for highest CGPA from I to VII semester for the year 2014-15. ➤ Aditya kumar 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". ➤ Sumanta Chatterjee, I year MTech CSE-IS) 2014-2016 won Infosys In-Step Business Plan Competition July 2014 |

| Achievements up to 31 st March 2014 | Achievements during 1 st April 2014 to 31 st March 2015 |
|---|---|
| <ul style="list-style-type: none"> ➤ Harsha Vardhana (2009-13), Guinness world record, participated in largest mobile phone gaming party involved 343 participants on 15th March 2013. ➤ 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). ➤ Ananthatejas Raghavan and Madhuri Shanbhogue (2009-13 B.Tech.) received the Richard E Merwin scholarship from IEEE Computer Society. ➤ Team comprising of Chandramouli Sharma(10CO21) VIII semester B.Tech., Vivek Yadav, 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. ➤ Prof. V. Rajaraman's Cash award to Abhinit Modi (2009-13 B.Tech.) for highest CGPA from I to VII semester for the year 2012-13. ➤ 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.). ➤ International Conference on "Advanced Computing, Networking and Security" during 16th - 18th December 2011. Co-ordinator: Dr. P. Santhi Thilagam. | |

| Achievements up to 31st March 2014 | Achievements during 1st April 2014 to 31st March 2015 |
|--|--|
| <ul style="list-style-type: none"> ➤ One day workshop for school teachers on "Information Security" on 04th February 2012, Co-ordinator: Mr.Alwyn Roshan Pais and Mr. K.Vinay Kumar. ➤ Dr. K. C. Shet and Dr. K. Chandrasekaran received: "SHIKSHA RATTAN" award. | |

Department of Chemistry

| Achievements up to 31st March 2014 | Achievements during 1st April 2014 to 31st March, 2015 |
|--|---|
| 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. | Commonwealth Academic Fellowship to Prof. B.Ramachandra Bhat |

Department of Electrical & Electronics Engineering

| Achievements up to 31st March 2014 | Achievements during 1st April 2014 to 31st march 2015 |
|---|--|
| Mr. Tukram Moger received Best Paper Award in Power and Energy track for the paper title "An Improved Approach for Evaluation of Reactive Power Sources Contribution to Reactive Load and Loss", in 2013 Annual IEEE India Conference (INDICON) held during 13 th to 15 th December 2013 at Department of Electrical Engineering, Indian Institute of Technology Bombay (IIT Bombay), India. | <ul style="list-style-type: none"> ➤ Mr. Tukram 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. ➤ 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," IEEE Transaction on Power Systems, Vol.29, No.3, pp 1023-1032, May., 2014. |
| Following M-Tech students Conferred with POSOCO power system award (PPSA)-2014 by Power System Operation Corporation Ltd | Following M-Tech students Conferred with POSOCO power system award (PPSA)-2015 by Power System Operation Corporation Ltd |

| | |
|---|--|
| <p>(POSOCO) and Foundation for Innovation and Technology Transfer (FITT) at IIT Delhi. The award includes cash prize of Rs. 30,000/- and a citation</p> <ul style="list-style-type: none"> ➤ Mr Shakthi Prasad D (worked under G.S. Puneekar, Ph.D.) ➤ Miss Arthi Sahaya Rones V(worked under K. P. Vittal, Ph.D.) ➤ Mr. Vinod. M. P (worked under K. P. Vittal, Ph.D.) | <p>(POSOCO) and Foundation for Innovation and Technology Transfer (FITT) at IIT Delhi. The award includes cash prize of Rs. 30,000/- and a citation</p> <ul style="list-style-type: none"> ➤ Ms. A.G Priyanka and Ms. Ritty raju (who worked under the guidance of Dr. K.N. Shubhanga) A G. Priyanka bagged 8th position and Ritty Raju secured 14th place out of 25 awards.) ➤ Ms Megahana R, (student of Dr G S Puneekar) ➤ Miss Geethi krishnan, M-Tech (by Research) (worked under the guidance of Dr. Dattatraya N. Gaonkar) ➤ Mr. Vanjari Venkata Ramana- M-Tech (by research worked under the guidance of Dr. D. Jena) |
|---|--|

Department of Electronics And Communication Engineering

| Achievements up to 31st March 2014 | Achievements during 1st April 2014 to 31st march 2015 |
|---|--|
| <p>Ajin Jiji Tom (13EC202), obtained WORLD RANK 14 in WORLD ROBOT OLYMPIAD, (WRO)Malaysia (http://www.wroboto.org), participated in the same competition in 2013 when it was held in Qatar and won the GOLD medal.</p> | <ul style="list-style-type: none"> ➤ Our students have won the IEEE student Enterprise award 2014 (Asia Pacific Region) ➤ Title of the project: Mapping of Greenhouse gases using wireless sensor networks. Team members: Nithin Kamath, Arjun A, Arjun Raghunath, Pratik Gujjar, Shah Ankit Parag, M. Ranga Sai Shreyas, Sree Gautham J, A. Bejesh, Pranav Channakeshava, Chethan V, Abhishek Kumar, Pradyumna Suresh, Anup R, Vishnuvardhan, Vinith Kishore. ➤ Mr.Prajwal M V (11EC66) and Srinivas B S (11EC97) have bagged the first prize in Texas Instruments analog design contest, judged by Prof. K Radhakrishna Rao of IIT Madras, for the interns selected at TI. ➤ Aatish Chandak (11EC04), Arjun A (11EC14) and Nithin Kamath (11EC59) were presented with the 'Top 30 Designer' Awards for their project 'Autobot - Autonomous Surveyor Robot ' by the EFY Design Contest 2013-14 held at the EFY-Expo, New Delhi. |

- Mr. Karthik Hegde (11EC39), 8th sem BTech (E&C) student, awarded best paper award for his technical paper titled "High Speed FFT for low end GPGPUs"
- Mr. Karthik Hegde (11EC39), Published a paper at Intl. conf. on High performance computing, International symposium on parallel & distributed processing.
- Arjun A (11EC14), Arjun Raghunath (11EC16) presented a paper at International Conference on NCGL for Multi-Core Processors at HiPC SRS 2014.
- Arjun Raghunath (11EC16) presented a paper in International Conference on NCGL for Multi-Core Processors at HiPC SRS 2014.
- Harshavardhan R (11EC35) published a paper at IEEE IPDPS 2015.
- Raghavendra S H (11EC75) published a paper at IEEE International Humanitarian Technology Conference, Montreal, Canada. Won the first place for the Best Lighting Project conducted by the EFY (Electronics For You Magazine) Design Contest 2013-14 held at the EFY-Expo, New Delhi for his work on Remote Controlled Efficient Lighting. He was also given additional grant for further development of his work. All IEEE R10 Young Humanitarian Engineering Challenge (Top 25) in Asia Pacific Region,
Selected to represent NITK in Festival of Innovations at Rashtrapati Bhavan, Runners Up of E-Pitch B-plan competition (Rs 35,000 Cash Prize)
- Supreeth Prajwal S (11EC101) "Improved Vowel Onset and Offset Points Detection using Bessel Features", presented at SPCOM 2014, IISc, India.
- Naveen John - Selected as the Google student ambassador representing NITK for the 2014-15 academic year. Only the top 177 from over 2000 applicants were selected as GSA.
- Pranav Chennakeshava: IET India Scholarship 2015- Selected for Regional Presentation Round for South India Region Entered the finals of Anveshana-2015 competition held by Synopsys. Team Members: Pranav Channakeshava,

Abhishek Rathan Kumar

➤ Abhinav Roy Burman (12EC01) – won 2nd place in Justice Tarkunde National parliamentary debating tournament, ILS, Pune 2) 3rd place in RV debating tournament, Bangalore 3) Gold medal, freestyle relay, swimming, Inter-NIT, Surathkal.

➤ Lakshmana Kumar and Alok Babu were part of the inter-NIT team which came first in Kabaddi competition

16. Kevin D'souza, Winner of the E-Yantra Robotics competition held at IIT Bombay Conducted by Nex robotics in collaboration with IIT Bombay.

Task: To traverse the given arena and to align blocks in the least time possible. It involved line and wall following.

The Darrel Chong Student Activity Award –for the project Interactive Environment Education Platform (IEEP): 2014

Admissions to Universities abroad:

➤ Ajaykrishnan N (11EC09) Got admission in University of Maryland, College Park for PhD for Fall 2015.

➤ Supreeth Prajwal S (11EC101) Got admission in Georgia Institute of Technology as well as in University of Maryland, College Park for PhD for Fall 2015.

➤ Raghavendra S H (11EC75) Got admission in Ohio State University, Columbus for PhD in 2015.

➤ Akshar Jain (11EC11) got admission in UC, Santa Barbara for MS in Fall 2015.

➤ Amir Raj (11EC13) got admission in Georgia Institute of Technology for MS in Fall 2015.

➤ Arjun A (11EC14) Got admission in Univ. of Southern California, Univ. of Michigan Ann Arbor, Univ. of Maryland College Park, University of Minnesota and Arizona State University for M.S. admissions in Fall 2015.

➤ Arjun Jagdish (11EC15) got admission in North Carolina state university for MS in Fall 2015.

| | |
|--|---|
| | <ul style="list-style-type: none"> ➤ David Joshy Manjaly (11EC28) got admission in North Carolina state university for MS in Fall 2015. ➤ Dishit Dak (11EC31) got admission in New York University for MS in Fall 2015. <p>10. Nithin Kamath (11EC59) got admission in North Carolina state university for MS in Fall 2015.</p> |
|--|---|

Department of Humanities, Social Sciences and Management

| Achievements up to 31st March 2014 | Achievements during 1st April 2014 to 31st March 2015 |
|--|---|
| <ul style="list-style-type: none"> ➤ Sreejith Alathur: Received the Highly Commended Outstanding Doctoral Research Award in the Management and Governance category from Emerald in 2013 | <ul style="list-style-type: none"> ➤ Dr. Sreejith Alathur received the 2014 National Internet Exchange of India (NIXI) Fellowship, Govt. of India. |
| | <ul style="list-style-type: none"> ➤ Awarded Charles Wallace Short Research Grant to Dr. Shashikantha K. during the year 2014-15 to work in the British Library, London for 4 weeks' duration. |
| | <ul style="list-style-type: none"> ➤ Received the "Best Paper Award" certificate and memento in the category of Social Initiatives Study (empirical study) at the International Consortium for Innovation and Entrepreneurship research and IIM, Bangalore held at IIM, Bangalore from 29th to 31st January, 2015. |

Department of Information Technology

| Achievements up to 31st March 2014 | Achievements during 1st April 2014 to 31st March 2015 |
|--|--|
| <p>Best Paper Awards</p> <ul style="list-style-type: none"> ➤ Dere Kundan S. and G. Ram Mohana Reddy, "Projection and Interaction with Ad-hoc Interfaces on Non-planar Surfaces", IEEE 2nd Int. Conf. on Adv. Computing, Nw. and Security (ADCONS 2013), December 15-17, 2013, pp. 1-6, NITK Surathkal, Mangalore, India. | <p>Twelve batches of UG (B.Tech) and Three 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 87% placements in M.Tech during 2014-15.</p> |
| | <ul style="list-style-type: none"> ➤ Prof. Ananthanarayana V S Visited Carnegie Mellon University, USA and Penn State University, USA during 23rd June - 6th July |

| | |
|--|--|
| <ul style="list-style-type: none"> ➤ Karthik R, Raghavendra Karthik, Pramod S and Sowmya Kamath S, "W3-Scrape – A Windows based Reconnaissance Tool for Web Application Fingerprinting", at International Conference on Emerging Trends in Electrical, Communication and Information Technologies (ICECIT 2012), organized by SRIT, Anantpur, AndhraPradesh, December 22 -23, 2012 (Awarded the Best Paper Award for CSIT Track) ➤ Melwyn D' Souza and Ananthanarayana V.S., Delivering LBA with LBS using Service Oriented Architecture", International Symposium for Cloud and Services Computing (ISCOS) 2012, Dec 17 – 18, 2012, NITK, Surathkal | <p>2014 for research interaction.</p> <ul style="list-style-type: none"> ➤ Mr. Biju R Mohan visited Qatar Foundation for Education, Science and Community Development. ➤ Mr. Biju R Mohan visited Korea Institute of Information Scientists and Engineers (KIISE). |
| | <p>Best Paper Awards</p> <ul style="list-style-type: none"> ➤ Monisha Kanakaraj and Sowmya S Kamath , "NLP based Intelligent News Search Engine using Information Extraction from E-Newspapers", at 2014 IEEE International Conference on Computational Intelligence and Computing Research (ICCIC), during 18 - 20th of December, 2014, organized by IEEE Podhigai, Madras Section and IEEE Signal Processing / Computational Intelligence / Computer Joint Societies Chapter (SIPCICOM) of Madras Section. ➤ Geetha V and K Chandrasekaran, "Identification of parameters for trust management in wireless sensor networks" at Eighth International Conference on Communication Networks (ICCN 2014) organised by University Vishveshwariah Engineering College (UVCE), Bangalore, July 25th – 27th, 2014 |
| | <ul style="list-style-type: none"> ➤ Mr. Shridhar Domanal (Research Scholar of Prof G Ram Mohana Reddy, IT Dept, NITK) has visited the University of Melbourne, Australia during January 26-February 10, 2015. In particular, he visited CLOUDS Lab in the Department of Computing and Information Systems and interacted with Professor Rajkumar Buyya and his research team members and explored possible collaboration areas in the area of Cloud computing environments. |

| | |
|--|--|
| | <p>➤ IT Student Admissions to Top Universities</p> <p>Divya Venugopalan 11IT105</p> <p>Susmitha P 11IT96</p> <p>Vikas Mohandoss 11IT102</p> <p>Ruchika Shivaswamy 11IT73</p> <p>Carnegie Mellon University, USA</p> <p>Carnegie Mellon University, USA</p> <p>Columbia University, USA</p> <p>University of California San Diego, USA</p> <p>M.S in Computer Science</p> <p>M.S in Computer Science</p> <p>M.S in Computer Science</p> <p>M.S in Computer Science</p> |
|--|--|

| Achievements up to 31st March 2015 | Achievements during 1st April 2014 to 31st March 2015 |
|------------------------------------|---|
| | <p>➤ Dr. Harsha Vardhan and Dr. M. Aruna are working with Govt. of Karnataka in connection with Lease Boundary mine survey.</p> <p>➤ Dr.K.Ram Chandar appointed as Technical Committee member for procurement of ANFO for M/s. Mysore Minerals Limited under KTPP Act, 1999 under sec-4(b).</p> |

Department of Mathematical & Computational Sciences

Achievements during the period of report - Prof. Santhosh George and

Dr. P. Jidesh, in collaboration with others organized the International Conference on Mathematical and Computational Sciences, at Don Bosco College, Kannur, Kerala, during 22nd to 24th of January, 2015, (sponsored by NBHM).

Department Of Mechanical Engineering

| Achievements up to 31 st March 2014 | Achievements during 1 st April 2014 to 31 st March 2015 |
|--|---|
| <p>➤ The department had started M.Tech Program in Design and Precision in collaboration with Central Manufacturing Technology Institute, Bangalore</p> | <p>➤ The department has Awarded 6 PhD degree</p> |

| | |
|---|---|
| ➤ The department has got to its credit the research projects granted by AICTE, DST and ARDB | ➤ The department has Published 57 papers in international Journals, 39 papers in international conferences. |
| ➤ The department has conducted workshop and training for teachers in technical institute | ➤ The Department has MoU with Volvo for academic and research purpose |
| ➤ The department engaged in consultancy work | ➤ The department is granted with external funded projects worth Rs. 1124.65 Lakhs |
| ➤ The department has collaborated with industries to aid research, training and academic | ➤ The department conducted one international conference. |
| ➤ Deputed 7 faculties to pursue PhD at various IIT's. | ➤ One new faculty members joined in the department |

Department of Metallurgical And Materials Engineering

| Achievements up to 31st March 2014 | Achievements during 1st April 2014 to 31st March 2015 |
|--|--|
| Total no. of Ph.Ds = 25 | 10 |
| Total No. of Paper Published = 387 | Total No. of Paper Published = 76 |

Department of Physics

| Achievements up to 31st March 2014 | Achievements during 1st April 2014 to 31st March 2015 |
|--|--|
| <ul style="list-style-type: none"> ➤ Aparna Bisht , M.Sc.(Physics) student of Batch 2012-14 has joined as Ph.D student at the International Max Plank Research School (IMPRS), Albert Einstein Institute of Gravitational Physics, Hannover, Germany. ➤ Vaishali B. Adya , M.Sc.(Physics) student of Batch 2011-13 has joined as Ph.D student at the International Max Plank Research School (IMPRS), Albert Einstein Institute of Gravitational Physics, Hannover, Germany. ➤ Kartheek Hegde V, M.Sc.(Physics) student of Batch 2011-13 cleared CSIR-UGC NET(JRF) examination. ➤ Yogananda D, M.Sc.(Physics) student of Batch 2011-13 cleared CSIR-UGC NET (JRF) examination. | |

Addition(s) to Building Infrastructure

Department Civil Engineering

- Addition of one floor space after vertical extension of annexe building of the Department.
- New building for the department is being constructed Addition of one floor space after vertical extension of industrial structure laboratory.

Department Of Computer Engineering

- New building for the department is being constructed

Department Of Mechanical Engineering

- Got approval for constructing three additional floors to the department building
- New Labs Setup
 - Remote Triggered Lab on Mechanical vibrations
 - Virtual Instrumentation Lab
 - Virtual lab in Mechanisms of Machines
 - Virtual Lab in Machine dynamics & Vibration
- Annual maintenance contract for all computing facilities (Facility Management Institute level)
- Annual maintenance contract for UPS and Air-conditioning equipments of laboratories

Department Of Metallurgical & Materias Engineering

Special talk from Industries/R&D

| Sl. No. | Name of the Guest | Topic | Date |
|----------------|--|---|----------------|
| 1. | Dr. Sheela Berchmans Chief Scientist & Head Electrodes & Electrolysis Division CSIR, Karaikudi | Functional Materials for Electro-Catalysis, Sensors & Fuels Cells | 17 – 07 – 2014 |
| 2. | Dr. Sukumar Roy, BHEL, Bangalore | Industrial nanotechnology – Activities in BHEL | 25 – 07 – 2014 |
| 3. | Dr. Taik Nam Kim, Professor Dept. of Materials Science & Engineering, Paichai Univ., Daejeon, Korea | Synthesis of Hydroxyapatite from biowaste | 04 – 12 – 2014 |
| 4. | Dr. A. M. Shanmugaraj, Assistant Professor Kyung Hee University, Korea | Nanomaterials Energy Conversion and Storage | 12 – 01 – 2015 |

CHEMICAL ENGINEERING

Details of Book written by Full time faculty members

Books published during the year

| Sl.No. | Name of the Faculty members | Name of the Book | Publication name | Year of Publication |
|---------------|---|--|-------------------------|----------------------------|
| 1 | Ritu Raval, Keyur Raval , Satinder Brar Kaur, Mausam Verma | Book chapter published in Enzymes in Value addition of wastes | Nova Publishers, USA | 2014 |

Department of Metallurgical & Materials Engineering

Books Published :

- 1. A. O. Surendranathan**, "Introduction to Ceramics and Refractories", CRC Press, Boca Raton, London, New York, 2015
- 2. S. K. Kalpathy** "Polymer Coatings and Patterning techniques" In "Advances in Polymer Materials and Technology, 1st Edition" edited by S. Anandhan Boca Raton: CRC Press/Taylor & Francis. ISBN: 9781498718813.
- 3. Prabhu K N**, Nanofluids as Quenchants in Industrial Heat Treatment, in ASM Handbook, Volume 4B: Steel Heat Treating Technologies, ASM International, OH, 324 -336, 2014.

Department of Physical Education & Sports

| Achievements up to 31 st March 2014 | Achievements during 1 st April 2014 to 31 st March 2015 |
|--|---|
| | <p>Physical Education and Sports: Institute teams formed, trained and coached were allowed to participate in different Taluk, District, State and National level tournaments/ Competitions.</p> <ul style="list-style-type: none"> ➤ Dasara Tournaments: Basketball(Men) District: Runners-up, Badminton(Men) District Runners-up, Table Tennis (Men) District: runners-up. ➤ DK District Basketball Association conducted James Neismith Intercollegiate Basketball Tournament: Institute Men Basketball team was Winners. B S A Kumar Inter Collegiate Basketball Tournament Conducted by Yenepoya University: Institute Men Basketball Team were Winners. Zest All India Inter Collegiate Basketball Tournament conducted by Gove College of Engineering, Poona: Winners. Slam Dunk South zone inter collegiate Basketball Tournament conducted during 4th to 08th March, 2015- Institute Men and Women Basketball teams were Runner-Ups. Ragam Cup inter Collegiate Basketball Tournament held at NIT Calicut: Men- Winners, Women-Runners-Up. ➤ All India Inter NIT Sports in Aquatics Men & Women have been organized by our Institute: Our Institute Aquatics (Men): Winners of Team Championships, Aquatics (Women): Winners of Team Championship. Other results of All India Inter NIT Tournaments held at other NITs: Badminton(Men)-Winners, Badminton Women: Runners-Up, Basketball(Men) – Runner-up, Basketball Women : Runners-Up Hockey (Men) : Winners, Kabaddi (Men) Winners, Table Tennis (Men): Runners-up, Tennis (Men): Winners, Weight Lifting, Power Lifting and Best Physique competitions: Team won 8 medals including 4 gold medals. Due to excellent performance of all teams we won Overall Championship this time. ➤ Spike Fest, Invitational Inter Engineering collegiate Volleyball Tournament: Women team: Runners. |

| | |
|--|---|
| | <ul style="list-style-type: none">➤ D K District T-20 Cricket tournament for Professional colleges, conducted by DKCA: Winners, DKCA Inter Club Cricket tournament: Won IV place and KSCA Mangalore Zone Third Division League tournament 2014: Third Place.➤ Karavali Staff Intercollegiate Tennis ball Cricket tournament : Staff Team are Winners. <p>Intra-Mural Competitions in Aquatics and Athletics conducted during the month of January, 2015 attracted large number of student participants. Prize money, Medals and Certificates were distributed to 3 place winners of each event. Institute Aquatics and Athletics teams were selected on the basis of these results. Phoenix, a gala of sports (An Inter year competitions for students) has been conducted in the even semester and by enthusiastic huge participation, students responded overwhelmingly and spontaneously.</p> |
|--|---|

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 of the vast complex of NITK. STEP has been formed as an independent registered society in the year 1994 by the erstwhile KREC. It became functional in 1998 by setting up its administrative & entrepreneurs' block along with other required infrastructure. Since 2005 it is a self-sustaining entity.

Vision:

Entrepreneurship development through Business Incubation, by promoting innovation and skill enhancement in a value-driven and service-focused environment; thus targeting benefits to all the participating agencies.

Goals:

- To create healthy startup technology ventures through Business Incubation
- To capitalize on the intellectual base at the academia to develop competitive business units
- To nurture & grow the spirit of Techno Entrepreneurship & entrepreneurial thinking through promotion of appropriate training programs and capacity building
- To create a healthy collaboration amongst Technologists, Entrepreneurs & Financiers for mutual benefits
- To reach out to young, unemployed youth in the region & improve employability by imparting Technology-based skill development programs
- To gear up as an " Outreach Center" that acts an interface with innovators & Government bodies by supporting innovators through different programs to nurture and capitalize on the potential for innovation in the region
- To constantly improve the quality of value adding services to our clients/stakeholders in order to sustain competitiveness and the need to evolve as a self-sustaining body

Status of occupancy by Incubate units in 2014-15:

| S No | Unit Size | Name of the unit | Technology Domain |
|------|-----------|--|--|
| 1 | 500 sq.ft | Expert Vision Labs Pvt Ltd | Imaging Technology Products |
| 2 | 250 sq.ft | Recherche Technologies | Web Design and Development |
| 3 | 300 sq.ft | Mindstack Technologies | Web Design and Development |
| 4 | 500 sq.ft | NGCN Infosolutions Pvt Ltd. | Networking and Cloud Computing Applications |
| 5 | 500 sq.ft | Pixelabz | Multi Media applications |
| 6 | 650 sq.ft | Automation Apps LLP | Web Design and Mobile Applications |
| 7 | 500 sq.ft | Skill Soft Technologies | Skill Development, IT Infrastructure Management Services |
| 8 | 500 sq.ft | Boredbees Techsolutions India Pvt. Ltd | Optimizing Research and Emphasis Development |

| | | | |
|----|------------|------------------------------|--|
| 9 | 650 sq.ft | Chaos Labs | Reasearch & Development, Manufacturing of Electronic items. |
| 10 | 250 sq.ft | Qreatin Technologies Pvt Ltd | Mobile Web |
| 11 | 1200 sq.ft | Innate Enterprises Pvt. Ltd | Software Development |

Faculty Development Programs held in the region:

Every year STEP conducts this program at different locations of the region in order to influence faculty awareness about the growing importance of nurturing entrepreneurial talents and capacity for innovation among students. Moreover, it also creates awareness on the need to equip the faculty with the required qualities/attitudes to productively realize the benefits of projects that demand collaborative work culture. Consequently, it helps in the effective realization of the goals of interdisciplinary technology domains work culture. It also analyzes the capacity to formulate and frame technology-dependent project proposals of commercial/industry significance. This helps in capitalizing on the potential for the acquisition of IPRs at the academia.

STEP organized a nine-day program at WPT Bondel in September 2014. Resource persons included expert professionals/practitioners from the industry, academia, alumni, government and financial institutions. In addition, it also included industrial visits to well-known industries of the region.

Activities:

'One Time Technology Incubation Fund' to implement Student Startup projects to commercialize Startup Projects at NITK-STEP

Objectives:

- To provide a methodology to commercialize the students projects in general
- To develop a strategy that can motivate students to incorporate some newness in their respective projects
- To increase effectiveness of functioning of our NITK-STEP
- To create healthy competition in the Institute so that each department will be driven to maintain targets for their performance, specifically with regard to patents that the concerned department will generate for the institute.

The following 9 student-startup were incubated at NITK-STEP:

| SI No | Name of the Startup | Team members | Name of the project |
|-------|--------------------------|---------------|--------------------------------|
| 1 | CybrSys (cybrsys.com) | Shubham Badal | Cyberhome www.cyberhome.com |
| | | Ashish Gupta | |
| | | Ajeet Lakhani | |
| 2 | Cosine Solution | Ananthu V | Foldschools App |
| | | Anshej Habin | |
| | | Arul prakash | |
| | | Brazil Ishak | |

| | | | |
|---|---|---|---|
| | | Jerin Mathew | |
| | | Rohit Varkey | |
| | | Athish R das | |
| | | Vivek B Krishnan | |
| 3 | Funday Sports | Gaurav Oswal | Funday Sports |
| | | Anand Oswal | |
| 4 | Purple | Abhinav Pathak | Purple |
| | | Vikas Mohandoss | |
| 5 | Waverr | Takur Rahul Sing | Waverr App |
| | | Abhishek Rathan Kumar | |
| | | Nikhil Kumar | |
| | | Abishek Shantkumar | |
| | | Nikhita Hegde | |
| | | Nathan Pereira | |
| | | Pratham pramod | |
| | | Prasanna Muthukumar | |
| 6 | SchoolEngg | Nikhil Sinha Mukesh Jaiswal Manish Kumar Harsh Kumar | SchoolEngg App |
| 7 | Memories Event Management | Akshith Shetty Shashank Rai | Memories Event Management |
| 8 | Ubiscon Consultancy Services LLP | Sibu Sahadevan k | Ubiscon Consultancy Services LLP |
| 9 | Filanza Security Services and Solutions | Beryl Thomas | Filanza Security Services and Solutions |

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

Details of Activities during the year 2014-15

| Sl. No. | Title of the Course | Duration | Organized by | Name of the Course Coordinators | No. of Participants attended | Course Intended for |
|----------------|---|--------------------------|---------------------------------|---|-------------------------------------|---|
| 1 | Design, Construction & Maintenance of all Weather Roads | 01-09-2014 to 05-09-2014 | Department of Civil Engineering | Prof. A.U.Ravishankar & Prof. Sitaram Nayak | 14 | The Practicing Engineers deputed from various |

| | | | | | | |
|---|--|--------------------------|------|--|----|--|
| | | | | | | Karnataka Government Departments sponsored by Engineering Staff College, K.R.Sagara. |
| 2 | R.C.C. Detailing, Mix Design & Quality Control | 24-11-2014 to 28-11-2014 | -do- | Prof. S.C. Yaragal & Dr. C. Rajasekaran | 07 | - do - |
| 3 | Soil Mechanics & Testing for Road Engineers | 19-01-2015 to 23-01-2015 | -do- | Prof. Sitaram Nayak & Prof. A.U. Ravishankar | 10 | - do - |

20.3 Research & Development Centre For Clay Roofing Tiles, Bricks And Other Ceramic Products.

1. ACTIVITIES:

- Received many enquiries for renting the machinery for interlocking pavement and wall blocks. Attempts are on to sign MOU for the same.
- Talks are underway to strike understanding with granite quarry owners to transfer technology of making masonry soil blocks with quarry dust.
- The M.O.U. with M/s Integrated Blocks & Bricks, Mangalore for "Utilization of the production facility of R & D Centre for the manufacture of various cement based / concrete building products" completed successfully.
- One Ph.D work on "Strength of concrete subjected to high temperature" which is a part of BRNS Project is completed successfully using the furnace available.

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

| Sl. No. | Product Details | Technology Status |
|----------------|------------------------|--------------------------|
| 1. | Bricks | Ready |
| 2. | Hollow Blocks | Ready |
| 3. | Cavity Bricks | Ready |
| 4. | Hollow Roof Block | Ready |
| 5. | Roof Tiles | Ready |
| 6. | Decorative Tiles | Ready |

| | | |
|----|----------------------|-------|
| 7. | Pavement Block | Ready |
| 8. | Interlock Wall Block | Ready |

3. Facilities at R & D Centre:

| | |
|---------------------------------|---|
| 1. Muffle Furnace | 16. Planetary Mixers |
| 2. Pot Mill Racks | 17. Hydraulic Press |
| 3. Jaw Crusher | 18. Mixing Tank with Scrap Blunger |
| 4. Electronic Balance | 19. Roto Pump |
| 5. Moisture Meter | 20. Pilot Level Kiln |
| 6. Sieve Shaker | 21. Hydraulically Operated Concrete Block Making machine with Triple Vibrator |
| 7. Weighing Balance | 22. Ram and Mould |
| 8. Ball Mills | 23. 10/7 CFT Concrete Mixer |
| 9. Discharge Tank with Agitator | 24. Wheel Borrows |
| 10. Pilot Level Kiln | 25. Hand Operated Concrete Block Making Machine With Moulds |
| 11. Ferro Filter | 26. Hydraulic Block Cutting Machine |
| 12. Filter Press | 27. Vibrating Earth Rammer |
| 13. Diaphragm Pump | 28. Soil Block Interlock wall Block making Machine |
| 14. De-Airing Pug Mill | 29. Screener |
| 15. Granulator / Pulveriser | 30. Pulveriser |

4. Services Offered:

1. Technology development and transfer
2. Hands on training for entrepreneurs.
3. Providing processing facilities on rental basis to existing industrialists and new entrepreneurs.
4. Research and consultancy in establishing similar kind of facilities using different kinds of waste.
5. Undertake manufacture and supply of Bulk orders on custom designed corporate gifts, made from eco-friendly materials.
6. Manufacture & Sale of building products made from industrial wastes and conventional materials.

21.0 FINANCE AND ACCOUNTS

The Financial Status

Source of Funds

Minister of Human Resource Development, New Delhi.

| | Rs. in lakhs |
|-----------------|---------------------|
| Plan grants | 4300.00 |
| Non-plan grants | 6000.48 |
| Project grants | 892.93 |

Expenditure position for the last 3 years

| | Rs. in lakhs | | |
|--------------|---------------------|-----------------|-----------------|
| Year | Plan | Non-plan | Total |
| 2012-13 | 7031.75 | 6475.97 | 13507.72 |
| 2013-14 | 4671.77 | 7319.30 | 11991.07 |
| 2014-15 | 7790.51 | 8536.88 | 16327.39 |
| Total | 19494.03 | 22332.15 | 41826.18 |

FINANCE AND ACCOUNTS DETAILS**BALANCE SHEET AS AT 31.03.2015**

| (Amount - Rs.) | | |
|---|----------------------|----------------------|
| PARTICULARS | CURRENT YEAR | PREVIOUS YEAR |
| <u>SOURCE OF FUNDS:</u> | | |
| Corpus/Capital Fund | 3,027,881,111 | 3,070,304,564 |
| Designated / Earmarked / Endowment Fund | 1,438,552,695 | 1,165,165,900 |
| Current Liabilities and Provisions | 513,667,191 | 373,776,371 |
| TEQIP PROJECT - PHASE I | 184,237,765 | 184,237,765 |
| TEQIP PROJECT - PHASE II | 78,525,242 | 47,602,933 |
| TOTAL | 5,242,864,004 | 4,841,087,533 |
| <u>APPLICATION OF FUNDS:</u> | | |
| FIXED ASSETS | | |
| Tangible Assets | 2,032,195,241 | 2,167,598,458 |
| Intangible Assets | 7,321,351 | - |
| Capital work - in - progress | 520,439,419 | 77,111,988 |
| INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS | | |
| Long Term | 1,081,054,278 | 819,517,246 |
| Short Term | - | - |
| INVESTMENT - OTHERS | | |
| Current Assets | 426,673,276 | 401,700,243 |
| Loans, Advances & Deposits | 912,417,431 | 1,143,318,900 |
| TEQIP PROJECT - PHASE I | 184,237,765 | 184,237,765 |
| TEQIP PROJECT - PHASE II | 78,525,242 | 47,602,933 |
| TOTAL | 5,242,864,004 | 4,841,087,533 |

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2015

(Amount - Rs.)

| PARTICULARS | CURRENT YEAR | PREVIOUS YEAR |
|---|-------------------------|--------------------------|
| INCOME | | |
| Academic Receipts | 282,461,218 | 216,067,859 |
| Grants / Subsidies | 814,326,101 | 641,379,820 |
| Income from Investments | 19,204,532 | 16,427,470 |
| Interest Earned | 4,835,981 | 2,395,472 |
| Other Income | 53,249,824 | 53,359,793 |
| Other Research Projects | 21,744,293 | 18,405,702 |
| Prior Period Income | - | - |
| TOTAL (A) | 1,195,821,949 | 948,036,116 |
| EXPENDITURE | | |
| Staff Payments and Benefits | 615,878,193 | 523,472,008 |
| Academic Expenses | 247,682,402 | 177,265,155 |
| Administrative and General Expenses | 112,698,155 | 102,257,533 |
| Transportation Expenses | 1,054,035 | 961,627 |
| Repairs and Maintenance | 99,690,421 | 49,156,337 |
| Finance Cost | - | - |
| Depreciation | 246,219,797 | 238,996,569 |
| Other Expenses | 124,123,773 | 86,819,068 |
| Prior Period Expenses | 36,786,151 | - |
| TOTAL (B) | 1,484,132,927 | 1,178,928,297 |
| BALANCE | | |
| Excess of Expenditure over Income (A - B) | 288,310,977 | 230,892,181 |

RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 31.03.2015

| RECEIPTS | CURRENT YEAR | PREVIOUS YEAR | PAYMENTS | CURRENT YEAR | PREVIOUS YEAR |
|---|----------------------|----------------------|--|----------------------|----------------------|
| Opening Balances: | | | EXPENSES: | | |
| (a) Cash in hand | 32,738 | 80,336 | (a) Establishment expenses | 530,579,273 | 473,001,259 |
| (b) Bank Balances: | | | (b) Administrative expenses | 935,739,689 | 338,260,096 |
| (i) In Current Accounts | 73,674,809 | 14,715,776 | Payments against ear- | | |
| (ii) Savings Accounts | 105,713,168 | 50,784,655 | marked/endowment funds | 26,865,939 | 51,043,743 |
| Grants received: | | | Payments against sponsored project & schemes | 81,599,273 | 65,521,313 |
| (a) From Govt. of India | | | Investments made out of earmarked/endowment fund out of own fund | 763,054,602 | 859,125,601 |
| Plan Grant - General | 386,934,000 | | Expenditure on fixed asset and capital work-in-progress | 734,285,158 | 249,738,121 |
| Non Plan Grant | 450,000,000 | 1,044,921,181 | Deposits and Advances | 698,306,060 | 810,406,272 |
| (b) From State Govt. | ---- | ----- | Payments made against Funds for various projects | 963,753,825 | 1,304,439,694 |
| Academic Receipts | 340,523,835 | 408,488,416 | Any other payments: | 67,007,522 | 546,445,574 |
| Receipts against ear-marked/endowment funds | 91,588,894 | 342,205,635 | Closing balances: | | |
| Receipts against sponsored Projects / Schemes | 97,264,482 | 66,431,786 | (a) Cash in hand | 182,639 | 32,738 |
| Income on Investments | 14,784,348 | 13,450,051 | (b) Bank balances: | | |
| Interest Received | 4,358,055 | 2,395,472 | (i) In Current Accounts | 31,367,042 | 73,674,809 |
| Deposits & Advances | 977,527,652 | 395,943,287 | (ii) Savings Accounts | 11,742,297 | 105,713,168 |
| Investments encashed | 707,560,149 | 908,890,866 | TOTAL | 4,413,904,046 | 4,877,402,388 |
| Any other receipts | 1,163,941,917 | 1,629,094,927 | | | |
| TOTAL | 4,413,904,046 | 4,877,402,388 | | | |



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