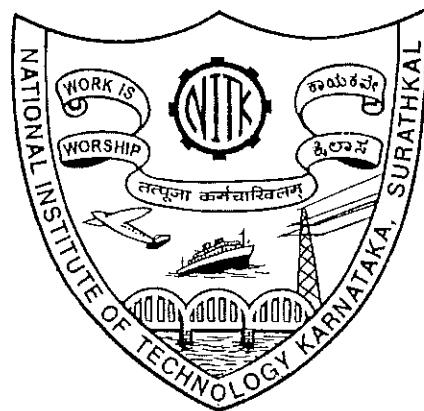


National Institute of Technology Karnataka Surathkal
Mangalore - 575 025, INDIA



**ANNUAL REPORT
2013 - 2014**

Email: director@nitk.ac.in

Website: www.nitk.ac.in

Tel : 0824-2474000 (24 Lines)
Fax : 0824-2474033

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

231 highly qualified and dedicated faculty

205 committed supporting staff

5172 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, National Technology Manpower Information Systems (NTMS): NODAL Centre, 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 Progaramme (SIP).

BUDGET (2013-14)

Total Financial Outlay Rs. 139.88 Crores
Internal Revenue Generated Rs. 28.32 Crores
Consultancy & Testing Earnings Rs. 1.64 Crores
Corpus Fund of more than Rs. 56.93 Crores

PUBLICATIONS (2013-14)

| | | |
|--------------------------|---|-----|
| International Journals | - | 344 |
| National Journals | - | 28 |
| International Conference | - | 215 |
| National Conference | - | 73 |

DOCTORAL OUTPUT

2011-12 – 16 Candidates
2012-13 – 33 Candidates
2013-14 - 62 candidates
Doctoral students on rolls – 523

MoUs between NITK, Surathkal and other Universities/Organizations.

Moog India Technology Center Pvt. Ltd., 3rd March 2014, 5 Years
Indian Naval Academy, Ezhimala., 26th February 2014, 5 Years
M/s. Insmart Systems, Hyderabad, 24th January 2014, 3 years
Larsen & Toubro Limited (L&T Construction), 4th November 2013, 5 Years
ProSIM R&D Pvt. Ltd., 4th October 2013, 3 Years
Robert Bosch Engineering and Business Solutions Limited (RBEI), Bangalore, 31st August 2013, 5 Years
Indian Institute of Science, Bangalore, 10th June 2013, 5 Years
Mercedes-Benz Research and Development India Private Limited (MBRDI), Bangalore, 10th June 2013, 5 Years

MOUs between Foreign Countries

hepia-University of Applied Sciences Western Switzerland technology, architecture and landscape, 17th December 2013, 3 Years
University of Seville (UoS), Spain, 21st October 2013, 3 Years
AB Volvo Group Sweden, 25th September 2013, 5 Years

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

Mercedes-Benz Research and Development India

Private Limited (MBRDI), Bangalore and NITK to enable MBRDI employees to enroll for Master and Ph.D. studies under the External Registration Program at NITK- 10th June 2013.

Indian Institute of Science, Bangalore and NITK to engage in academic and research collaboration. – 10th June 2013

Council of Scientific and Industrial Research (CSIR) represented by its National Aerospace Laboratories (NAL) – CSIR-NAL and NITK- 18th January 2013.

Extension of the MOU between NITK and Bhabha Atomic Research Centre (BARC), Mumbai- 30th January 2013

TEQIP

One of the best performing lead institutions with a total financial support of Rs. 1250.00 lakhs in TEQIP II.

DASA

Direct Admission of Students Abroad, a Govt. of India scheme is coordinated by NITK, Surathkal, offering admission to NRIs/PIOs/Foreign Students in more than 40 centrally funded institutions for UG and PG programmes. A completely online process developed and implemented by NITK since the last five years.

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.

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.

TRAINING AND PLACEMENT

NITK is ranked among the top institutions for student placements. During 2013-14 about 203 companies visited. UG placements 91%, PG placement 39% Internships provided within India and Abroad.

Annual Report 2013-2014

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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 | Member |

BOARD OF GOVERNORS

| | |
|--|----------|
| 1 Sushil Chandra Tripathi, Former Secretary, Ministry of HRD, House No: 27, Sector 15- A, Noida – 201301(Uttar Pradesh) | Chairman |
| 2 Mudda Kedarnath, Advisor – Aditya Birla Group, #17, Shankar Nilaya, 8th Main , 18th Cross, Upper Palace Orchard, Sadashivnagar, Bangalore – 560080 | Member |

| | | |
|----|---|--------------------------|
| 3 | P.Dayanand Pai, Managing Director, Century Building Industries Private Limited, Palace Road, Bangalore -560 052. | Member |
| 4 | Amita Sharma, Additional Secretary, Ministry of Human Resource Development, Dept. of Higher Education, Technical Education Bureau Shastri Bhavan, New Delhi – 110 001 | Member |
| 5 | Yogendra Tripathi, 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 | 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 |
| 7 | Padma Bhushan Prof. (Dr.) B.M.Hegde, Former Vice- Chancellor, Manipal University, Manjunath, Pais Hills, Bejai- Mangalore- 575004. | Member |
| 8 | K.N.Lokesh, Professor, Dept. of Civil Engineering, NITK, Surathkal. | Member till 15.8.2013 |
| 9 | Gopal Mugeraya, Professor,Dept. of Chemical Engineering, NITK, Surathkal. | Member from 22.8.2013 |
| 10 | Suresh Kumar Y., Associate Professor, Dept. of Mechanical Engineering, NITK, Surathkal. | Member till 15.8.2013 |
| 11 | Vinay Kumar, Associate Professor, Dept. of Computer Science & Engineering, NITK, Surathkal. | Member from 22.8.2013 |
| 12 | Swapan Bhattacharya, Director,N.I.T.K. SURATHKAL. | Member |
| 13 | K.Ravindranath Registrar i/c N.I.T.K., SURATHKAL | Secretary |

FINANCE COMMITTEE

| | | |
|---|---|--------------------------|
| 1 | Sushil Chandra Tripathi, Former Secretary, Ministry of HRD, House No: 27, Sector 15- A, Noida – 201301(Uttar Pradesh) | Chairman |
| 2 | Mudda Kedarnath, Advisor – Aditya Birla Group, #17, Shankar Nilaya, 8th Main , 18th Cross, Upper Palace Orchard, Sadashivnagar, Bangalore-560080. | Member |
| 3 | Amita Sharma, Additional Secretary, Ministry of Human Resource Development, Dept. of Higher Education, Technical Education Bureau Shastri Bhavan, New Delhi – 110 001 | Member |
| 4 | Yogendra Tripathi, Joint Secretary and Financial Advisor, Ministry of Human Resource Development, Dept. of Higher Education, Technical Education Bureau Shastri Bhavan, New Delhi – 110 001 | Member |
| 5 | K.N.Lokesh, Professor, Dept. of Civil Engineering, NITK, Surathkal. | Member till 15.8.2013 |
| 6 | Gopal Mugeraya, Professor, Dept. of Chemical Engineering, NITK, Surathkal. | Member from 22.8.2013 |
| 7 | Swapan Bhattacharya, Director, N.I.T.K. SURATHKAL. | Member |
| 8 | K.Ravindranath Registrar i/c N.I.T.K., Surathkal | Member Secretary |

BUILDING AND WORKS COMMITTEE

1. Swapan Bhattacharya
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. | Lakshman Nandagiri/ M C Narasimhan from 01.02.2014 Dean (P&D), NITK, Surathkal, Mangalore – 575 025 | Member |
| 4. | Vellaichamy V Superintending Engineer (Civil), CPWD, Mysore Central Circle, T Narasipura Road, Siddartha Nagar, Mysore – 570 011 | Member |
| 5. | Kedar Ram Superintending Engineer (Ele), CPWD Bangalore Central Electrical Circle, Kendriya Sadana, Koramangala, Bangalore – 560 034 | Member |
| 6. | K Ravindranath Registrar, i/c NITK, Surathkal, Post Srinivasa Nagar, Mangalore-575 025 | Member Secretary |

OTHER COMMITTEES

SENATE

Swapan Bhattacharya, Ph.D. ... Chairman
K Ravindranath ... Secretary

External Members

1. S. Parasuraman, Ph.D.
Director, Tata Institute of Social Sciences
P.O. Box 8313,
Deonar,
Mumbai - 400 088.
2. Prahlada, Ph.D.
Vice Chancellor
Defence Institute of Advanced Technology
Girinagar, Pune – 411 025.
3. V.Shubha, Ph.D.
Scientist, Materials Science Division,
National Aerospace Labs,
PB 1779, Bangalore – 560017.

Internal Members

| | |
|-------------------------|----------------------|
| M.C. Narasimhan | A. Kandaswamy |
| K. Chandrasekaran | S. Sumam David |
| Udayakumar R.Y. | M.B. Saidutta |
| N. Lakshman | Subba Rao |
| S. G. Mayya | M.K. Nagaraj |
| A.Mahesha | A. Vittal Hegde |
| Kiran G.Shirlal | Dwarakish G.S. |
| A.U. Ravi Shankar | Katta Venkataramana |
| K.N. Lokesh | R. Shivashankar |
| K.Swaminathan | D. Venkat Reddy |
| S. Shrihari | Varghese George |
| Subhas C.Yaragal | Sitaram Nayak |
| Vidya Shetty | K.S. Babu Narayan |
| G. Srinikethan | D.V.R. Murthy |
| A.Chitharanjan Hegde | Gopal Mugeraya |
| A.V. Adhikari | A. Nityananda Shetty |
| B.Ramachandra Bhat | D.Krishna Bhat |
| M.S. Bhat | Annappa |
| U.Sripati | Muralidhar Kulkarni |
| Jora M Gonda | John D'Souza |
| Shashikantha K | K. Panduranga Vittal |
| K.B.Kiran | A.H. Sequeira |
| G. Ram Mohana Reddy | Ananthanarayana V.S. |
| Keshava Prasad Halemane | Muralidhar N.N. |
| S.M. Hegde | Robert John D'Souza |
| Prasad Krishna | Santosh George |
| P. Mohanan | G.C. Mohan Kumar |
| H. Suresh Hebbar | T.P. Ashok Babu |
| Gangadharan K.V. | S.M. Kulkarni |

| | |
|--------------------------------|-------------------|
| Vijay Desai | Ravikiran Kadoli |
| K.K.Appu Kuttan | Narendranath S |
| K. N. Prabhu | Jagannath Nayak |
| A.O. Surendranathan | K. Rajendra Udupa |
| V. Rama Sastry | Arun M |
| M. Govinda Raj | Ch.S.N. Murthy |
| Kasturi V. Bangera | N.K.Udayashankar |
| H.D. Shashikala | G. K. Shiva Kumar |
| G.Umesh | P.G. Mohanan |
| Akshay B Pattabi- Spl. Invitee | Anusuya Chakari |
| Sivarajanji J-- Spl. Invitee | |

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

Constitution:

| | | |
|-----|--|-----------|
| 1. | Dean (Academic) | Chairman |
| 2. | Dean (Faculty Welfare) | Member |
| 3. | Dean (Planning & Development) | Member |
| 4. | Dean (Students' Welfare) | Member |
| 5. | Dean (Research & Consultancy) | Member |
| 6. | Dean (Alumni Affairs & Institutional Affairs) | Member |
| 7. | H.O.D. of each Department/his nominee | Members |
| 8. | BOG member representing the faculty | Member |
| 9. | Three member representatives from the premier a) Academic Institutions such as IIT, NIT, IISc. b) IIM, others belonging to Southern region | Member |
| 10. | Associate Deans | Members |
| 11. | Registrar i/c | Member |
| 12. | Dy. Registrar (Academic) | Secretary |
| 13. | 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. | Suresh Kumar Y BOG Member till 19.9.2013 | Member |
| 4. | Gopal Mugeraya, BOG Member from 25.11.2013 | Member |
| 5. | Vinay Kumar, BOG Member from 25.11.2013 | Member |
| 6. | Shashidhar Shetty, RE | Member |
| 7. | K Ravindranath, Registrar i/c from 12.11.2012 | Member |
| 8. | Laxminidhi T | Member |
| 9. | K.Ravindranath, Dy. Registrar (Academic) | Member |
| 10. | C.Vairavanathan, Programmer | Member |
| 11. | H.D. Shashikala, Ph.D. | Member |
| 12. | Sunil B M, Ph.D. | Member |

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 |
| | N.S.V. Shet, Ph.D., Dept. of E&C Engg. | Member |
| | Pushpalatha, Foreman, Dept. of E&C Engg. | Member |
| | 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. | Watch & Ward Officer | Member / Secretary |

LIBRARY ADVISORY COMMITTEE

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

SPORTS ADVISORY COMMITTEE

| | | |
|----|--------------------------|----------|
| 1. | Dean (Students' Welfare) | Chairman |
| 2. | Dean (P & D) | Member |
| 3. | Dean (F.W.) | Member |
| 4. | Dean (Alumni & IA) | 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. | K Varija, Ph.D. till 15.5.2013 Shanthi Thilagam from 16.5.2013 | Chairperson |
| 2. | Pushpalatha | Member |
| 3. | Shashikala D.K. | Member |
| 4. | Secretary/President, Ladies Club, NITK, Surathkal | Member |
| 5. | P Mohanan, Ph.D. | Member |
| 6. | V.R. Sastry, Ph.D. | Member |
| 7. | Hilda Rayappan | 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 (earlier it was Systems Analysis & Computer Applications)
- 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. | 2013-14 | B.Tech. | 15.7.2013 | 28.8.2013 |
| 2. | 2013-14 | M.Tech./M.Tech. by Research | 08.7.2013 | 10.09.2013 |
| 3. | 2013-14 | MCA | 15.7.2013 | 31.7.2013 |
| 4. | 2013-14 | M.B.A. | 3.5.2013 | 3.8.2013 |
| 5. | 2013-14 | M.Sc. (Physics & Chemistry) | 14.06.2013 | 2.7.2013 |
| 6. | 2013-14 (July Session) January Session | Ph.D. Ph.D. | 12.7.2013 23.12.2013 | 8.8.2013 13.1.2014 |

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 30.07.13 at NITK, Surathkal for the GATE candidates on merit basis.

M.Tech. (Non Scholarship) Seats:

After allotment of the vacant seats to GATE candidates during the spot admissions, then the remaining GATE (Scholarship) vacant seats were allotted to Non-GATE candidates during the spot round admission held on 30.07.13 on the basis of academic performance in qualifying examination/written aptitude test/interview etc. as decided by the DPGC of the concerned department offering the M.Tech., programme.

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 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 2013-2014

6.1 The number of candidates admitted are as follows:

I B. Tech.:

| | | |
|---|--|------------|
| 1 | Admission through JEE (Main) Rank | 720 |
| 2 | G.O.I. Nominee- through Ministry of External Affairs (Education & Welfare) | 06 |
| 3 | DASA Scheme | 101 |
| | Total | 827 |

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 | 499 |
| 2 | Non-GATE candidates and sponsored candidates | 21 |
| 3 | Admissions of foreign nationals through ICCR | 01 |
| 4 | Admission under DASA Scheme | 02 |
| 5 | QIP candidates | 04 |
| | Total | 527 |

ii) M.Tech. (By Research)

| | | |
|---|---------------------------------|-----------|
| 1 | GATE qualified with Scholarship | 12 |
| 2 | Non Scholarship | 14 |
| | Total | 26 |

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. Warangal. A Total 91 candidates admitted were as follows:-

| | |
|--------------|-------------|
| OP | 45 + 1 OPPD |
| OBC | 23+1 OBPD |
| SC | 14 |
| ST | 07 |
| Total | 91 |

IV M.B.A.:

Selection of candidates were made on the basis of CAT 2012 among candidates applied to NITK Surathkal, Group Discussion and Interview. A Total 34 candidates were admitted as follows:-

| | |
|--------------|-----------|
| OP | 28 |
| OBC | 03 |
| SC | 02 |
| ST | 01 |
| Total | 34 |

V M.Sc (Chemistry & Physics):

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

i) M.Sc (Chemistry)

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

ii) M.Sc (Physics)

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

VI Ph.D. Programme:

| | |
|---------------------|-----------|
| OP | 50 |
| OBC | 27 |
| SC | 12 |
| ST | 02 |
| QIP | 02 |
| Sponsored | 01 |
| Internal Registrant | 02 |
| Ethiopian Govt | 02 |
| Sponsored | |
| Total | 98 |

Part Time

| | |
|--------------|-----------|
| OP | 15 |
| OBC | 02 |
| Total | 17 |

A total number of 827 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

6.2 B.Tech. Students Strength for the year 2013-14

| Branch (I Year) | 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. | 14 | 1 | 15 | 6 | 1 | 7 | 18 | 5 | 23 | 8 | 6 | 14 | 1 | 0 | 1 | 36 | 7 | 43 | 83 | 20 | 103 |
| Mechanical Engg. | 19 | 1 | 20 | 9 | 0 | 9 | 37 | 1 | 38 | 19 | 0 | 19 | 1 | 0 | 1 | 66 | 2 | 68 | 151 | 4 | 155 |
| Electrical & Electronics Engg. | 14 | 0 | 14 | 4 | 2 | 6 | 22 | 3 | 25 | 9 | 4 | 13 | 0 | 1 | 1 | 31 | 13 | 44 | 80 | 23 | 103 |
| Electronics & Communication Engg. | 12 | 2 | 14 | 5 | 2 | 7 | 20 | 5 | 25 | 12 | 3 | 15 | 1 | 1 | 2 | 35 | 9 | 44 | 85 | 22 | 107 |
| Chemical Engg. | 6 | 1 | 7 | 3 | 0 | 3 | 9 | 3 | 12 | 4 | 4 | 8 | 0 | 0 | 0 | 18 | 4 | 22 | 40 | 12 | 52 |
| Metallurgical & Materials Engg. | 6 | 0 | 6 | 3 | 1 | 4 | 7 | 5 | 12 | 0 | 1 | 0 | 0 | 0 | 0 | 19 | 3 | 22 | 35 | 10 | 45 |
| Mining Engg. | 7 | 0 | 7 | 4 | 0 | 4 | 11 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 1 | 21 | 42 | 1 | 43 |
| Computer Engg. | 11 | 2 | 13 | 7 | 0 | 7 | 20 | 4 | 24 | 10 | 5 | 15 | 0 | 1 | 1 | 32 | 13 | 45 | 80 | 25 | 105 |
| Information Technology | 5 | 9 | 14 | 5 | 1 | 6 | 21 | 6 | 27 | 6 | 5 | 11 | 0 | 0 | 0 | 27 | 15 | 42 | 64 | 36 | 100 |
| TOTAL | 94 | 16 | 110 | 46 | 7 | 53 | 165 | 32 | 197 | 68 | 28 | 96 | 3 | 3 | 6 | 284 | 67 | 351 | 660 | 153 | 813 |

| Branch (II Year) | 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 | 37 | 1 | 38 | 13 | 1 | 14 | 2 | 0 | 2 | 70 | 3 | 73 | 146 | 7 | 153 |
| 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 | 43 | 3 | 46 | 96 | 11 | 107 |
| 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 | 18 | 1 | 19 | 38 | 3 | 41 |
| Computer Engg. | 11 | 3 | 14 | 6 | 1 | 7 | 19 | 6 | 25 | 10 | 3 | 13 | 0 | 2 | 2 | 39 | 6 | 45 | 85 | 21 | 106 |
| Information Technology | 13 | 1 | 14 | 6 | 1 | 7 | 24 | 3 | 27 | 5 | 4 | 9 | 0 | 0 | 0 | 34 | 12 | 46 | 82 | 21 | 103 |
| TOTAL | 88 | 17 | 105 | 45 | 9 | 54 | 183 | 18 | 201 | 65 | 16 | 81 | 4 | 4 | 8 | 308 | 52 | 360 | 693 | 116 | 809 |

| Branch (II Year) | 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 | 6 | 1 | 7 | 22 | 1 | 23 | 11 | 0 | 11 | 1 | 0 | 1 | 0 | 1 | 43 | 5 | 48 | 96 | 9 | 105 | |
| Mechanical Engg. | 17 | 1 | 18 | 10 | 1 | 11 | 36 | 0 | 36 | 14 | 0 | 14 | 2 | 0 | 2 | 0 | 0 | 0 | 70 | 1 | 71 | 149 | 3 | 152 |
| Electrical & Electronics Engg. | 12 | 2 | 14 | 6 | 0 | 6 | 20 | 4 | 24 | 7 | 6 | 13 | 1 | 0 | 1 | 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 | 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 | 34 | 12 | 46 | 79 | 25 | 104 | |
| TOTAL | 98 | 14 | 112 | 52 | 6 | 58 | 165 | 27 | 192 | 70 | 13 | 83 | 5 | 3 | 8 | 1 | 0 | 1 | 326 | 37 | 363 | 717 | 100 | 817 |

| Branch (IV Year) | 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 | 0 | 12 | 6 | 0 | 6 | 21 | 2 | 23 | 9 | 5 | 14 | 0 | 1 | 1 | 0 | 1 | 0 | 37 | 4 | 41 | 86 | 12 | 98 |
| Mechanical Engg. | 18 | 1 | 19 | 9 | 0 | 9 | 37 | 0 | 37 | 13 | 1 | 14 | 1 | 0 | 1 | 0 | 0 | 0 | 66 | 2 | 68 | 144 | 4 | 148 |
| Electrical & Electronics Engg. | 10 | 4 | 14 | 4 | 2 | 6 | 22 | 4 | 26 | 9 | 5 | 14 | 1 | 0 | 1 | 3 | 0 | 3 | 42 | 6 | 48 | 91 | 21 | 112 |
| Communication Engg. | 12 | 0 | 12 | 6 | 0 | 6 | 21 | 4 | 25 | 8 | 6 | 14 | 0 | 1 | 1 | 0 | 0 | 0 | 39 | 8 | 47 | 86 | 19 | 105 |
| Chemical Engg. | 3 | 1 | 4 | 4 | 0 | 4 | 11 | 1 | 12 | 6 | 1 | 7 | 1 | 0 | 1 | 0 | 0 | 0 | 16 | 4 | 20 | 41 | 7 | 48 |
| Metallurgical & Materials Engg. | 4 | 3 | 7 | 3 | 0 | 3 | 11 | 0 | 11 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 3 | 20 | 37 | 6 | 43 |
| Mining Engg. | 6 | 0 | 6 | 5 | 1 | 6 | 8 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 2 | 14 | 31 | 3 | 34 |
| Computer Engg. | 10 | 4 | 14 | 2 | 5 | 7 | 22 | 1 | 23 | 8 | 6 | 14 | 0 | 0 | 0 | 0 | 0 | 43 | 5 | 48 | 85 | 21 | 106 | |
| Information Technology | 9 | 4 | 13 | 4 | 2 | 6 | 23 | 4 | 27 | 4 | 8 | 12 | 0 | 0 | 0 | 0 | 0 | 37 | 6 | 43 | 77 | 24 | 101 | |
| TOTAL | 84 | 17 | 101 | 43 | 10 | 53 | 176 | 16 | 192 | 59 | 32 | 91 | 3 | 2 | 5 | 4 | 0 | 4 | 309 | 40 | 349 | 678 | 117 | 795 |

M.Tech. Students Strength for the year 2013-14

| Branch (1 Year) | SC | | | ST | | | OBC | | | ICCR | | | QIP | | | DASA | | | Sponsored | | | GENERAL | | | TOTAL | | | | | |
|--|-----------|-----------|----------------|-----------|----------|----------------|------------|-----------|----------------|----------|----------|----------------|----------|----------|----------------|----------|----------|----------------|-----------|----------|----------------|-----------|------------|----------------|------------|------------|----|----|----|----|
| | M | F | T _o | M | F | T _o | M | F | T _o | M | F | T _o | M | F | T _o | M | F | T _o | M | F | T _o | M | F | T _o | | | | | | |
| Structural Engg. | 4 | 0 | 4 | 2 | 0 | 2 | 5 | 2 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 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 | 0 | 0 | 0 | 1 | 1 | 12 | 22 | 4 | 26 | | | |
| Environmental Engg. | 2 | 2 | 4 | 1 | 0 | 1 | 4 | 3 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 4 | 6 | 7 | 7 | 14 |
| Transportation Systems Engg. | 3 | 0 | 3 | 1 | 1 | 2 | 3 | 4 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 3 | 13 | 17 | 8 | 25 | | | |
| Construction Tech.& Mgt. | 4 | 0 | 4 | 1 | 0 | 1 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 5 | 13 | 15 | 10 | 25 | | | |
| Marine Structures | 4 | 0 | 4 | 1 | 0 | 1 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 12 | 1 | 13 | 25 | 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 | 1 | 11 | 1 | 12 | 24 | 1 | 25 | | |
| Remote Sensing & GIS | 1 | 0 | 1 | 0 | 0 | 0 | 4 | 3 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 3 | 6 | 6 | 6 | 12 | | |
| Thermal Engg. | 2 | 0 | 2 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 5 | 12 | 12 | 8 | 20 | | | |
| Mechatronics Engg. | 3 | 0 | 3 | 1 | 0 | 1 | 6 | 0 | 6 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 7 | 0 | 7 | 15 | 1 | 16 | | | |
| Manufacturing Engg. | 2 | 0 | 2 | 1 | 0 | 1 | 3 | 1 | 4 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 12 | 1 | 13 | 23 | 2 | 25 | | | |
| Design and Precision Engg. | 1 | 0 | 1 | 0 | 1 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 7 | 0 | 7 | 14 | 1 | 15 | |
| Power & Energy Systems | 2 | 2 | 4 | 1 | 0 | 1 | 6 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 | 13 | 0 | 13 | | | |
| VLSI Design | 4 | 0 | 4 | 2 | 0 | 2 | 5 | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 2 | 13 | 20 | 4 | 24 | | | |
| Communication Engg. | 3 | 1 | 4 | 2 | 0 | 2 | 5 | 2 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 1 | 10 | 20 | 2 | 22 | | | |
| Chemical Plant Design | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 10 | 1 | 11 | 20 | 5 | 25 | | | |
| Industrial Pollution Control | 1 | 0 | 1 | 0 | 0 | 0 | 3 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 4 | 4 | 3 | 7 | | | |
| Industrial Biotechnology | 0 | 1 | 1 | 0 | 0 | 0 | 3 | 4 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 11 | 14 | 7 | 12 | 19 | | | |
| Process Metallurgy | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 10 | 12 | 5 | 15 | 20 | | | |
| Materials Engg. | 4 | 1 | 5 | 1 | 0 | 1 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 | 9 | 0 | 9 | | | |
| Nanoscience & Nanotechnology | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 1 | 14 | 23 | 2 | 25 | | | |
| Computer Science & Engg. | 4 | 0 | 4 | 2 | 0 | 2 | 5 | 1 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 8 | 10 | 0 | 10 | | | |
| Computer Science & Engg. - | 3 | 0 | 3 | 2 | 0 | 2 | 6 | 1 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 4 | 14 | 19 | 6 | 25 | | | |
| Information Security | 3 | 1 | 4 | 1 | 0 | 1 | 5 | 2 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 3 | 11 | 19 | 4 | 23 | | | |
| Comp. Sciences (earlier it was Systems Analysis & Computer Applications) | 4 | 0 | 4 | 1 | 1 | 2 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 7 | 5 | 12 | 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 | 10 | 4 | 14 | 19 | 6 | 25 | | | |
| TOTAL | 58 | 10 | 68 | 23 | 2 | 25 | 100 | 30 | 130 | 1 | 0 | 1 | 3 | 1 | 4 | 1 | 2 | 4 | 3 | 7 | 193 | 67 | 260 | 383 | 114 | 497 | | | | |

| M.Tech. Branch (II Year) | SC | ST | | | OBC | | | ICCR | | | HLLA-TEQIP | | | QIP | | | DASA | | | Sponsored | | | GENERAL | | | TOTAL | | | | |
|--|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|------------|----------|------------|----------|-----------|----------|-----------|----------|----------|----------|----------|-----------|----------|----------|----------|----------|------------|-----------|------------|------------|------------|------------|
| | | M | F | To | M | F | To | M | F | To | M | F | T | M | F | To | M | F | T | M | F | To | M | F | To | M | F | To | | |
| Structural Engg. | 4 | 0 | 4 | 2 | 0 | 0 | 2 | 6 | 1 | 7 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 2 | 12 | 24 | 3 | 27 | | |
| Geo-Technical Engg. | 0 | 2 | 2 | 0 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 3 | 7 | 5 | 7 | 12 | | |
| Environmental Engg. | 2 | 2 | 4 | 1 | 1 | 2 | 3 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 6 | 11 | 11 | 10 | 21 | | |
| Transportation Systems | 3 | 0 | 3 | 1 | 0 | 1 | 1 | 4 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 12 | 12 | 10 | 22 | | |
| Construction Technology & Mgt. | 4 | 0 | 4 | 1 | 0 | 1 | 5 | 2 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 10 | 2 | 12 | 21 | 4 | 25 | | |
| Marine Structures | 3 | 1 | 4 | 0 | 0 | 0 | 3 | 3 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 3 | 9 | 12 | 7 | 19 | | |
| Water Resources Engg. & Management | 2 | 0 | 2 | 0 | 0 | 0 | 2 | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 6 | 7 | 6 | 13 | |
| Remote Sensing & GIS | 1 | 0 | 1 | 0 | 1 | 2 | 4 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 5 | 8 | 5 | 13 | | |
| Thermal Engg. | 2 | 0 | 2 | 1 | 0 | 1 | 3 | 0 | 3 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 | 14 | 0 | 14 | |
| Mechatronics Engg. | 3 | 0 | 3 | 1 | 1 | 2 | 5 | 2 | 7 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 10 | 0 | 10 | 0 | 10 | 21 | | |
| Manufacturing Engg. | 1 | 1 | 2 | 1 | 0 | 1 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 | 13 | 1 | 14 | | |
| Power & Energy Systems | 3 | 1 | 4 | 2 | 0 | 2 | 4 | 0 | 4 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 5 | 12 | 17 | 7 | 24 | | |
| VLSI Design | 4 | 0 | 4 | 2 | 0 | 2 | 6 | 0 | 6 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 1 | 13 | 26 | 1 | 27 | | |
| Communication Engg. | 3 | 1 | 4 | 1 | 1 | 2 | 6 | 0 | 6 | 0 | 0 | 0 | 1 | 2 | 3 | 1 | 1 | 2 | 1 | 0 | 1 | 1 | 9 | 3 | 12 | 23 | 8 | 31 | | |
| Chemical Plant Design | 1 | 1 | 2 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 5 | 3 | 8 | | |
| Industrial Pollution Control | 2 | 1 | 3 | 0 | 0 | 0 | 6 | 1 | 7 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 12 | 14 | 9 | 23 | | |
| Industrial Biotechnology | 2 | 1 | 3 | 0 | 0 | 0 | 4 | 3 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 8 | 12 | 10 | 13 | 23 | | |
| Process Metallurgy | 2 | 0 | 2 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 1 | 7 | 11 | 1 | 12 | | |
| Materials Engg. | 4 | 0 | 4 | 0 | 0 | 0 | 7 | 0 | 7 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 12 | 24 | 0 | 24 | | |
| Nanoscience & Nanotechnology | 1 | 0 | 1 | 1 | 0 | 1 | 3 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 5 | 9 | 2 | 11 | | |
| Computer Science & Engg. | 4 | 0 | 4 | 1 | 1 | 2 | 3 | 2 | 5 | 0 | 0 | 0 | 2 | 0 | 2 | 2 | 0 | 2 | 1 | 0 | 1 | 0 | 0 | 11 | 2 | 13 | 24 | 5 | 29 | |
| Comp. Science & Engg- Information Security | 3 | 1 | 4 | 1 | 1 | 2 | 6 | 1 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 3 | 14 | 21 | 6 | 27 | | |
| Comp.Science (earlier it was Systems Analysis & Computer Applications) | 2 | 1 | 3 | 1 | 0 | 1 | 5 | 1 | 6 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 2 | 12 | 18 | 5 | 23 | | |
| Information Technology | 2 | 2 | 4 | 2 | 0 | 2 | 5 | 2 | 7 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 2 | 12 | 20 | 7 | 27 | | |
| TOTAL | 58 | 15 | 73 | 20 | 5 | 25 | 94 | 35 | 129 | 1 | 0 | 1 | 10 | 5 | 15 | 6 | 3 | 9 | 2 | 0 | 2 | 3 | 0 | 3 | 176 | 60 | 236 | 370 | 123 | 493 |

M.Tech. By Research

| Branch | SC | | | ST | | | OBC | | | GENERAL | | | TOTAL | | |
|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To |
| Structural Engg. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| Transportation Systems Engg. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 |
| Marine Structures | 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 | 1 | 1 | 2 | 1 | 1 | 2 |
| Remote Sensing & GIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 |
| Thermal Engg. | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 4 | 0 | 4 |
| Mechatronics Engg. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 6 | 4 | 2 | 6 |
| Manufacturing Engg. | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 3 | 0 | 3 | 4 | 0 | 4 |
| Design and Precision Engg. | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 2 | 0 | 2 |
| Power & Energy Systems | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 4 | 3 | 1 | 4 |
| VLSI Design | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 4 | 0 | 4 |
| Communication Engg. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 4 | 2 | 2 | 4 |
| Chemical Plant Design | 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 | 1 | 1 | 0 | 1 | 1 |
| Industrial Biotechnology | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 5 | 5 | 1 | 7 | 8 |
| Materials Engg. | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 |
| Nanoscience & Nanotechnology | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 1 | 2 |
| Rock Excavation Technology & Mgt. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 1 | 2 |
| Computer Science & Engg | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 4 | 4 |
| Computer Science & Engg. - Information Security | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | 2 | 1 | 3 |
| Information Technology | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 2 | 0 | 2 |
| TOTAL | 1 | 2 | 3 | 0 | 1 | 1 | 4 | 1 | 5 | 32 | 21 | 53 | 37 | 25 | 62 |

MCA

| | SC | | | ST | | | OBC | | | GENERAL | | | TOTAL | | |
|----------|----|----|----|----|---|----|-----|---|----|---------|----|-----|-------|----|-----|
| | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To |
| I Year | 11 | 3 | 14 | 4 | 3 | 7 | 22 | 1 | 23 | 38 | 8 | 46 | 75 | 15 | 90 |
| II YEAR | 10 | 4 | 14 | 4 | 1 | 5 | 21 | 5 | 26 | 26 | 14 | 40 | 61 | 24 | 85 |
| III YEAR | 9 | 4 | 13 | 4 | 3 | 7 | 19 | 2 | 21 | 35 | 14 | 49 | 67 | 23 | 90 |
| TOTAL | 30 | 11 | 41 | 12 | 7 | 19 | 62 | 8 | 70 | 99 | 36 | 135 | 203 | 62 | 265 |

MBA

| | SC | | | ST | | | OBC | | | GENERAL | | | TOTAL | | |
|---------|----|---|----|----|---|----|-----|---|----|---------|----|----|-------|----|----|
| | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To |
| I YEAR | 3 | 1 | 4 | 1 | 0 | 1 | 5 | 2 | 7 | 13 | 6 | 19 | 22 | 9 | 31 |
| II YEAR | 6 | 2 | 8 | 1 | 1 | 2 | 5 | 0 | 5 | 23 | 5 | 28 | 35 | 8 | 43 |
| TOTAL | 9 | 3 | 12 | 2 | 1 | 3 | 10 | 2 | 12 | 36 | 11 | 47 | 57 | 17 | 74 |

M.Sc. (Chemistry)

| | 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 | 1 | 1 | 2 | 0 | 5 | 5 | 2 | 10 | 12 | 3 | 16 | 19 |
| II YEAR | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 3 | 7 | 5 | 7 | 12 | 9 | 10 | 19 |
| TOTAL | 0 | 0 | 0 | 1 | 1 | 2 | 4 | 8 | 12 | 7 | 17 | 24 | 12 | 26 | 38 |

M.Sc. (Physics)

| | SC | | | ST | | | OBC | | | GENERAL | | | TOTAL | | |
|---------|----|---|----|----|---|----|-----|---|----|---------|----|----|-------|----|----|
| | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To |
| I YEAR | 2 | 0 | 2 | 0 | 0 | 0 | 4 | 3 | 7 | 4 | 8 | 12 | 10 | 11 | 21 |
| II YEAR | 2 | 1 | 3 | 0 | 2 | 2 | 1 | 5 | 6 | 5 | 7 | 12 | 8 | 15 | 23 |
| TOTAL | 4 | 1 | 5 | 0 | 2 | 2 | 5 | 8 | 13 | 9 | 15 | 24 | 18 | 26 | 44 |

Ph.D. Students Strength for the year 2013-14

| Branch | SC | | | ST | | | OBC | | | QIP | | | ICCR | | | TEQIP | | | Sponsored | | | GENERAL | | | TOTAL | | | |
|------------------------|----|---|----|----|---|---|-----|---|----|-----|---|----|------|---|---|-------|---|---|-----------|---|----|---------|----|-----|-------|-----|-----|----|
| | M | F | T | M | F | T | M | F | T | M | F | T | M | F | T | M | F | T | M | F | T | M | F | T | M | F | T | |
| Civil | 2 | 0 | 2 | 1 | 0 | 1 | 2 | 1 | 3 | 4 | 0 | 4 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 17 | 15 | 32 | 26 | 17 | 43 | |
| APP. Mechanics | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 31 | 10 | 41 | 37 | 11 | 48 |
| Mechanical | 8 | 0 | 8 | 1 | 0 | 1 | 7 | 2 | 9 | 4 | 0 | 4 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 59 | 3 | 62 | 81 | 5 | 86 | |
| E&E | 5 | 0 | 5 | 1 | 0 | 1 | 3 | 0 | 3 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 2 | 20 | 28 | 2 | 30 | |
| E&C | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 2 | 1 | 1 | 2 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Chemical | 1 | 3 | 4 | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 6 | 19 | 19 | 7 | 26 | |
| Metallurgy | 2 | 0 | 2 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 15 | 25 | 14 | 20 | 34 | |
| Mining | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 5 | 28 | 28 | 5 | 33 | |
| Computer | 1 | 1 | 2 | 0 | 1 | 1 | 0 | 1 | 2 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 14 | 14 | 0 | 14 | |
| Information Technology | 2 | 0 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 3 | 14 | 14 | 7 | 21 | |
| Physics | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 5 | 11 | 9 | 5 | 14 | |
| Chemistry | 1 | 0 | 1 | 2 | 0 | 2 | 3 | 4 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 8 | 30 | 26 | 8 | 34 | |
| MACS | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 9 | 27 | 24 | 13 | 37 | |
| Humanities | 0 | 3 | 3 | 1 | 0 | 1 | 2 | 0 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 10 | 20 | 12 | 11 | 11 | 23 | | |
| Total | 28 | 7 | 35 | 8 | 1 | 9 | 28 | 9 | 37 | 17 | 3 | 20 | 3 | 0 | 3 | 2 | 2 | 4 | 1 | 1 | 2 | 258 | 97 | 355 | 345 | 120 | 465 | |

6.3 ADMISSION STATISTICS

Undergraduate Programmes – B.Tech.

Particulars of sanctioned intake and admissions made during 2013-14

| Sl. No. | Courses offered | Sanctioned intake | | | | Admissions made to Undergraduate Programmes | | | | | | Total Admis- sion | |
|--------------|-----------------------------------|-------------------|---------------------|--|------------|---|-----------|------------|--|---------------------|----------|-------------------------|------------|
| | | Normal Intake | G.O.I. Nominees* | D.A.S.A. (Direct Admission of Students Abroad) | | Normal Intake | | | D.A.S.A. (Direct Admission of Students Abroad) | | | | |
| | | | | Total | SC | ST | OBC | PWD | OP | G.O.I. Nominees* | | | |
| 1 | Civil Engineering | 92 | 3 | 16 | 111 | 14 | 7 | 22 | 3OP IOBC | 41 | 1 | 14 | |
| 2 | Mechanical Engineering | 139 | 3 | 22 | 164 | 18 | 9 | 38 | 2OP 2SC | 67 | 1 | 21 | |
| 3 | Electrical & Electronics Engg. | 93 | 4 | 14 | 111 | 14 | 6 | 26 | 1OP | 43 | 1 | 14 | |
| 4 | Electronics & Communication Engg. | 93 | 3 | 16 | 112 | 14 | 7 | 24 | 1OBC | 45 | 2 | 16 | |
| 5 | Chemical Engg. | 46 | 2 | 8 | 56 | 7 | 4 | 11 | 1OBC | 23 | - | 8 | |
| 6 | Metallurgical & Materials Engg | 46 | - | 3 | 49 | 7 | 4 | 12 | - | 22 | - | 1 | |
| 7 | Mining Engg. | 46 | - | 3 | 49 | 7 | 4 | 11 | - | 22 | - | - | |
| 8 | Computer Engg. | 92 | 2 | 16 | 110 | 13 | 7 | 23 | 2OP IOBC | 43 | 1 | 16 | |
| 9 | Information Technology | 93 | - | 13 | 106 | 13 | 6 | 26 | 2OP IOBC ISC | 42 | - | 11 | |
| TOTAL | | 740 | 17 | 111 | 868 | 107 | 54 | 193 | 18 | 348 | 6 | 101 | 827 |

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

ADMISSION STATISTICS – B.Tech. 2013-14
Details of Male & Female admissions – coursewise and categorywise

| Sl. No. | Programme | OP | | OBC | | SC | | ST | | GOI Nominee | DASA (Direct Admission of Students Abroad) | M | F | M | F | M | F | M | F | M | F | Total |
|------------|---------------------------------------|----------------|---------------|----------------|---------------|---------------|-----------|-----------|----------|----------------|---|-----------|------------|------------|------------|-----|---|---|---|---|---|-------|
| | | M | F | M | F | M | F | M | F | | | | | | | | | | | | | |
| 1 | Civil Engg. | 34+3PD | 7 | 17+1PD | 5 | 13 | 1 | 6 | 1 | - | 08 | 06 | 83 | 20 | 103 | | | | | | | |
| 2 | Mechanical Engg. | 65+2PD | 2 | 37 | 1 | 17+2PD | 1 | 9 | - | 1 | - | 21 | - | 154 | 04 | 158 | | | | | | |
| 3 | Electrical & Electronics Engg. | 31 | 12+1PD | 23 | 3 | 14 | - | 4 | 2 | - | 1 | 09 | 05 | 81 | 24 | 105 | | | | | | |
| 4 | Electronics & Communications Engg. | 36 | 9 | 20 | 4+1PD | 12 | 2 | 5 | 2 | 1 | 1 | 13 | 03 | 87 | 22 | 109 | | | | | | |
| 5 | Chemical Engg. | 19 | 4 | 9 | 2+1PD | 6 | 1 | 4 | - | - | 04 | 04 | 42 | 12 | 54 | | | | | | | |
| 6 | Metallurgical & Materials Engg. | 19 | 3 | 7 | 5 | 7 | -- | 3 | 1 | - | - | 01 | 36 | 10 | 46 | | | | | | | |
| 7 | Mining Engg. | 21 | 1 | 11 | - | 7 | -- | 4 | - | - | - | - | 43 | 01 | 44 | | | | | | | |
| 8 | Computer Engg. | 31+1PD | 12+1PD | 19+1PD | 4 | 11 | 2 | 7 | - | 1 | 11 | 05 | 81 | 25 | 106 | | | | | | | |
| 9 | Information Technology | 26+2PD | 16 | 20+1PD | 6 | 4+1PD | 9 | 5 | 1 | - | 06 | 05 | 65 | 37 | 102 | | | | | | | |
| | Total | 282+8PD | 66+2PD | 163+3PD | 30+2PD | 91+3PD | 16 | 47 | 7 | 3 | 72 | 29 | 672 | 155 | 827 | | | | | | | |

PD: Persons with disability

ADMISSION STATISTICS - POST GRADUATE PROGRAMMES

M.Tech. Programme - Particulars of Intake and Admissions during 2013-14

| Sl. No. | Name of the Programme | Intake | Gate (scholar- ship seats) | Admitted | | | | Out of the total admissions - candidates belonging to | | | | | | | | |
|------------|---|-----------|----------------------------------|---|----|-------|----|---|---|---------|----------|-------|----|--------|---|--------|
| | | | | Non-Gate & sponsored + QIP seats + DASA + ICCR | | Total | | SC | | | ST | | | OBC | | |
| | | | | M | F | Total | M | F | M | F | M | F | M | F | M | F |
| 1. | Structural Engg. | 27+1* | 25 | 1 (Sponsored) | 22 | 4 | 26 | 4 | - | 2 | - | 5 | 2+ | 1 (SP) | - | - |
| 2. | Geotechnical Engg. | 15+1**+1* | 13 | 1 (Sponsored) | 7 | 7 | 14 | 1 | 1 | - | 2+1 (Sp) | 2 | - | - | - | - |
| 3. | Environmental Engg. | 27+1* | 26 | - | 18 | 8 | 26 | 2 | 2 | - | 4 | 3 | - | - | - | - |
| 4. | Transportation Engg. | 27+1* | 25 | - | 15 | 10 | 25 | 3 | - | 1 | 1 | 3 | 4 | - | - | - |
| 5. | Construction Technology & Management | 27+1* | 25 | 1 (Sponsored) | 25 | 1 | 26 | 4 | - | 1 | - | 7 | - | - | - | - |
| 6. | Marine Structures | 27+1**+1* | 24 | 1 (Sponsored) | 24 | 1 | 25 | 4 | - | 1 | - | 7+1SP | - | - | - | - |
| 7. | Water Resources Engineering & Management | 15+1* | 13 | - | 6 | 7 | 13 | 1 | 1 | - | 1 | 2 | - | - | - | - |
| 8. | Remote Sensing & Geographic Information Systems | 27+1**+1* | 18 | 2 (Non-Gate) | 12 | 8 | 20 | 1 | - | - | 4 | 3 | - | - | - | - |
| 9. | Design and Precision Engg. | 15+1* | 14 | 1 (Sponsored) | 15 | - | 15 | 2+1 (Sp) | - | 1 | - | 4 | - | - | - | - |
| 10. | Manufacturing Engg. | 15+1* | 14 | 1 (Sponsored) | 14 | 1 | 15 | 2 | - | 1 | - | 3 | 1 | - | - | - |
| 11. | Mechatronics Engg. | 27+1* | 23 | 1 Sponsored + 1 QIP (Regular) | 23 | 2 | 25 | 3 | - | 1 | - | 6 | - | - | - | 1 (OC) |
| 12. | Thermal Engineering | 15+1**+1* | 14 | 1 (Sponsored) + 1 (DASA) + 1 (QIP Poly) | 16 | 1 | 17 | 2 | - | 1+1 QIP | - | 4 | - | - | - | - |
| 13. | Power & Energy Systems | 27+1* | 26 | - | 21 | 5 | 26 | 2 | 2 | 1 | 1 | 6 | - | 1 (OB) | - | - |
| 14. | VLSI Design | 27+1**+1* | 24 | - | 21 | 3 | 24 | 4 | - | 2 | - | 5 | 1 | - | - | - |
| 15. | Communication Engg. | 27+1**+1* | 26 | 1 DASA | 22 | 5 | 27 | 3 | 1 | 2 | - | 5 | 2 | 1 (OC) | - | - |
| 16. | Chemical Plant Design | 15+1* | 8 | 1 (Non-Gate) | 6 | 3 | 9 | 1 | - | - | - | 1 | 1 | - | - | - |
| 17. | Industrial Pollution Control Engg. | 27+1* | 18 | 1 (Non-Gate) | 7 | 12 | 19 | 1 | - | - | - | 3 | 1 | - | - | - |
| 18. | Industrial Biotechnology | 27+1* | 21 | - | 5 | 16 | 21 | - | 2 | - | - | 3 | 4 | - | - | - |

| Sl. No. | Name of the Programme | Intake | Gate (scholar- ship seats) | Admitted | | | | Out of the total admissions - candidates belonging to | | | | | | | | | |
|------------|--|---------------|----------------------------------|---|-----|---|-----|---|-----|----|----|-----|---|-------|-------|---|---|
| | | | | Non-Gate & sponsored + QIP seats + DASA + ICCR | | Total | | SC | | ST | | OBC | | PWD | | | |
| M | F | Total | M | F | M | F | M | F | M | F | M | F | M | F | | | |
| 19. | Computational Mathematics (earlier it was Systems Analysis & Computer Applications)) | 27+1* | 23 | 3 (Non-Gate) + 2 QIP (Regular) | 22 | 6 | 28 | 4 | - | 1 | 1 | 4 | - | I(OC) | - | | |
| 20. | Materials Engg. | 27+1* | 23 | 3 (Non-Gate) | 24 | 2 | 26 | 4 | 1 | 1 | 1 | - | 5 | - | - | | |
| 21. | Process Metallurgy | 15+1** +1* | 8 | 1 (Non-Gate) | 9 | - | 9 | - | - | - | - | 2 | - | - | - | | |
| 22. | Nanotechnology | 15+1* | 11 | 1 (Non-Gate) | 11 | 1 | 12 | 1 | - | - | - | 1 | - | - | - | | |
| 23. | Computer Science & Engg. | 27+1** +1* | 26 | 1 (ICCR) | 21 | 6 | 27 | 4 | - | 2 | - | 5 | 1 | I(OB) | - | | |
| 24. | Computer Science & Engg. - Information Security | 27+1* | 25 | 1 (Non-Gate) | 21 | 5 | 26 | 4 | - | 2 | - | 6 | 1 | I(OC) | - | | |
| 25. | Information Technology | 27+1* | 26 | - | 20 | 6 | 26 | 3 | 1 | 2 | - | 5 | 2 | - | I(OC) | | |
| | | | | 579+8** +25*= | 499 | 13 (Non-Gate) + 8 Sponsored +1 GOI (ICCR) + 4 QIP +2 DASA = 28 | 407 | 120 | 527 | 61 | 11 | 27 | 3 | 103 | 31 | 5 | 3 |
| | | TOTAL | 612 | | | | | | | | | | | | | | |

** Sanctioned seats for DASA candidates.

The above intake of M.Tech. excluding the intake of QIP allotted by AICTE

PWD: Persons With Disabilities.

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

M.TECH. PROGRAMME (BY RESEARCH) 2013-14

| 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. | - | 1OC(IR-Project) | - | 1 | 1 |
| 2 | Transportation Engg. | 1 (OC) | - | 1 | - | 1 |
| 3 | Marine Structures | - | 1(OC) | - | 1 | 1 |
| 4 | Remote Sensing & Geographics Information Systems | - | 1(OC) | 1 | - | 1 |
| 5 | Thermal Engg. | 1(OC) | 1SC(IR) | 2 | - | 2 |
| 6 | Manufacturing Engg. | - | 2(1OBC+1OC- ER) | 2 | - | 2 |
| 7 | Mechatronics Engg. | 1(OC) | 1 OC(ER) | 1 | 1 | 2 |
| 8 | Design & Precision Engg. | 1 (OBC) | 1(OC) | 2 | - | 2 |
| 9 | VLSI Design | 1(OC) | 1(OC(ER) | 2 | - | 2 |
| 10 | Communication Engg. | 1(OC) | - | - | 1 | 1 |
| 11 | Chemical Plant Design | 1(OC) | 1(OC) | - | 2 | 2 |
| 12 | Industrial Pollution Control Engg. | - | 1 OC(IR) | - | 1 | 1 |
| 13 | Industrial Biotechnology | 1(OBC) | - | 1 | - | 1 |
| 14 | Materials Engg. | - | 1(OBC) | 1 | - | 1 |
| 15 | Nanotechnology | - | 1(OC) | - | 1 | 1 |
| 16 | Power & Energy Systems | 1(OC) | - | 1 | - | 1 |
| 17 | Computer Science & Engg. | 2 (1OC+1OBC) | - | - | 2 | 2 |
| 18 | Computer Science & Engg. – Information Security | 1 (OCPD) | - | 1 | - | 1 |
| 19 | Rock Excavation Technology and Management | (-) | 1(OC) | - | 1 | 1 |
| | Total | 12 8OC+1OCPD +3OBC=12 | 14 11OC+2OBC+ 1SC=14 | 15 | 11 | 26 |

PD – Persons with Disabilities

ER – External Registrant

IR – Internal Research Fellow

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

Particulars of Admissions during 2013-14

| Sl. No. | Programme | Intake | Total admitted | | | Out of the total admissions -candidates belonging to category | | | | | | | |
|------------|---|-----------------|----------------|-------|-------|---|---|----|---|-----|----|-------------|---|
| | | | Boys | Girls | Total | SC | | ST | | OBC | | PWD | |
| | | | | | | M | F | M | F | M | F | M | F |
| 1 | Master of Computer Applications (MCA) | 92+1** | 76 | 15 | 91 | 11 | 3 | 4 | 3 | 22 | 1 | 10P 10BC | - |
| 2 | Master of Business Administration (MBA) | 64+5*+1** | 24 | 10 | 34 | 1 | 1 | 1 | - | 1 | 2 | - | - |
| 3 | M.Sc. (Chemistry) | 27+1** | 4 | 18 | 22 | - | - | 1 | 1 | - | 7 | - | - |
| 4 | M.Sc. (Physics) | 27+1** | 11 | 11 | 22 | 2 | - | - | - | 4 | 3 | - | - |
| | Total | 210+5*+4** =219 | 115 | 54 | 169 | 14 | 4 | 6 | 4 | 27 | 13 | 2 | - |

* Seats reserved for DASA candidates

** Additional seats for the international students under ICCR Scheme
PWD – Persons With Disabilities

Ph.D. PROGRAMME

Particulars of Admissions made during 2013-14

| Sl. No. | Name of the Department | Full Time | | | | | | Part time | | | | | | Total | | | Out of the total admissions - Candidates belongs to the category | | |
|------------|--|-------------------------|---------------|-----------|----------|-----------------------|-----------|-------------|-------------|-----------|----------|------------------|-------------|-------|----|---|--|---|--|
| | | Full Time | | Part Time | | Full Time + Part Time | | SC | | ST | | M | | F | | M | | F | |
| | | M | F | M | F | M | F | M | F | M | F | M | F | OBC | | | | | |
| 1 | Civil Engg. | 2+2* | 1+1* | - | - | 4 | 2 | 1 | - | - | - | 1+1* | - | - | - | - | - | - | |
| 2 | Applied Mech. & Hydraulics | 1+2(ESP)+3* | 1 | 2 | 1 | 8 | 2 | 1* | - | - | - | - | - | - | - | - | - | - | |
| 3 | Mechanical Engg. | 9+1 QIP (Regular)+6* | 1 | 3 | 1 | 19 | 2 | 2+1* | - | 1* | - | 2+1PT+ | 1 | - | 4* | - | - | - | |
| 4 | Electrical & Electronics Engg. | 1+6* | - | - | 7 | - | - | 1+1* | - | - | - | - | - | 2* | - | - | - | - | |
| 5 | Electronics & Communication Engg. | 5+1* | 1* | 1 | - | 7 | 1 | - | - | - | - | - | - | 1+1* | - | - | - | - | |
| 6 | Chemical Engg. | 1+1 QIP (Regular)+1* | * | 1+1(IR)+3 | - | - | 3 | 5 | - | 1* | - | - | - | 1 | 1* | - | - | - | |
| 7 | Metallurgical & Materials Engg. | 3+3* | - | - | - | 6 | - | - | - | - | - | - | - | 2* | - | - | - | - | |
| 8 | Mining Engg. | 1(IR) | - | 1 | - | 2 | - | 1(IR) | - | - | - | - | - | - | - | - | - | - | |
| 9 | Computer Science & Engg. | 2+2* | 1+1* | 1 | - | 5 | 2 | 1* | - | - | - | - | - | - | - | - | - | - | |
| 10 | Information Technology | 3+1* | - | - | 4 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | |
| 11 | Physics | 1+2* | 3 | 3 | 1 | 6 | 4 | - | - | - | - | 1(PT)+2* | - | - | - | - | - | - | |
| 12 | Chemistry | 1+2* | 3+2* | 1 | - | 4 | 5 | - | - | 1* | - | 1* | - | 3+1* | - | - | - | - | |
| 13 | Mathematical & Computational | 1+3* | 2+1(SP) | - | 4 | 3 | - | - | - | - | - | - | - | 1 | - | - | - | - | |
| 14 | Humanities, Social Sciences & Management | 2+3* | 1+2* | 1 | 1 | 6 | 4 | - | 1+1* | - | - | 2* | - | - | - | - | - | - | |
| | Total | 37+35* | 16+10* | 13 | 4 | 85 | 30 | 6+4* | 1+2* | 2* | - | 6+2PT+15* | 4+2* | | | | | | |

* admissions made during December session 2013.

PT = PART TIME, SP = Sponsored, ESP = Ethiopian Govt. Sponsored, IR = Internal Registran

Student's Total Strength

| <u>Programme</u> | <u>Strength</u> |
|--|-----------------|
| 1. Undergraduate | 3234 |
| 2. Post Graduate (Including MCA/M.Tech./M.Tech – by research MBA/M.Sc.) | 1473 |
| 3. Ph.D. Programme | 465 |
| Total | 5172 |

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 2012-2013

Examination Details

| Sl. No. | Branch | Total No. Appeared | No. of students passed in | | | | Total Pass | Percentage of passes | No. of SC/ST candidate passed |
|------------|---|-----------------------|-------------------------------------|------------------------------------|------------------------------------|------------------------|---------------|----------------------------|--|
| | | | CGPA above 7 & below 10 | CGPA above 6 & below 7 | CGPA above 5 & below 6 | CGP A below 5 | | | |
| 1. | Civil Engineering | 101+2* | 72 | 21 | 8 | - | 99+2* | 98.06 | 21+1* |
| 2. | Mechanical Engineering | 152+2* | 114 | 26 | 7 | 1 | 146+2* | 96.10 | 26 |
| 3. | Electrical And Electronics Engineering | 103+1* | 71 | 22 | 8 | 1 | 101+1* | 98.08 | 19+1* |
| 4. | Electronics And Communication Engineering | 106+3* | 73 | 23 | 5 | 2 | 100+3* | 94.50 | 16+1* |
| 5. | Chemical Engineering | 51 | 24 | 16 | 10 | - | 50 | 98.04 | 12 |
| 6. | Metallurgical And Materials Engineering | 35+2* | 25 | 6 | 4 | - | 33+2* | 94.59 | 5+1* |
| 7. | Mining Engineering | 28 | 21 | 5 | 1 | - | 27 | 96.43 | 12 |
| 8. | Computer Engineering | 107+1* | 69 | 22 | 11 | 1 | 102+1* | 95.37 | 21 |
| 9. | Information Technology | 104+1* | 61 | 28 | 11 | 2 | 101+1* | 97.14 | 20 |

*- Repeaters

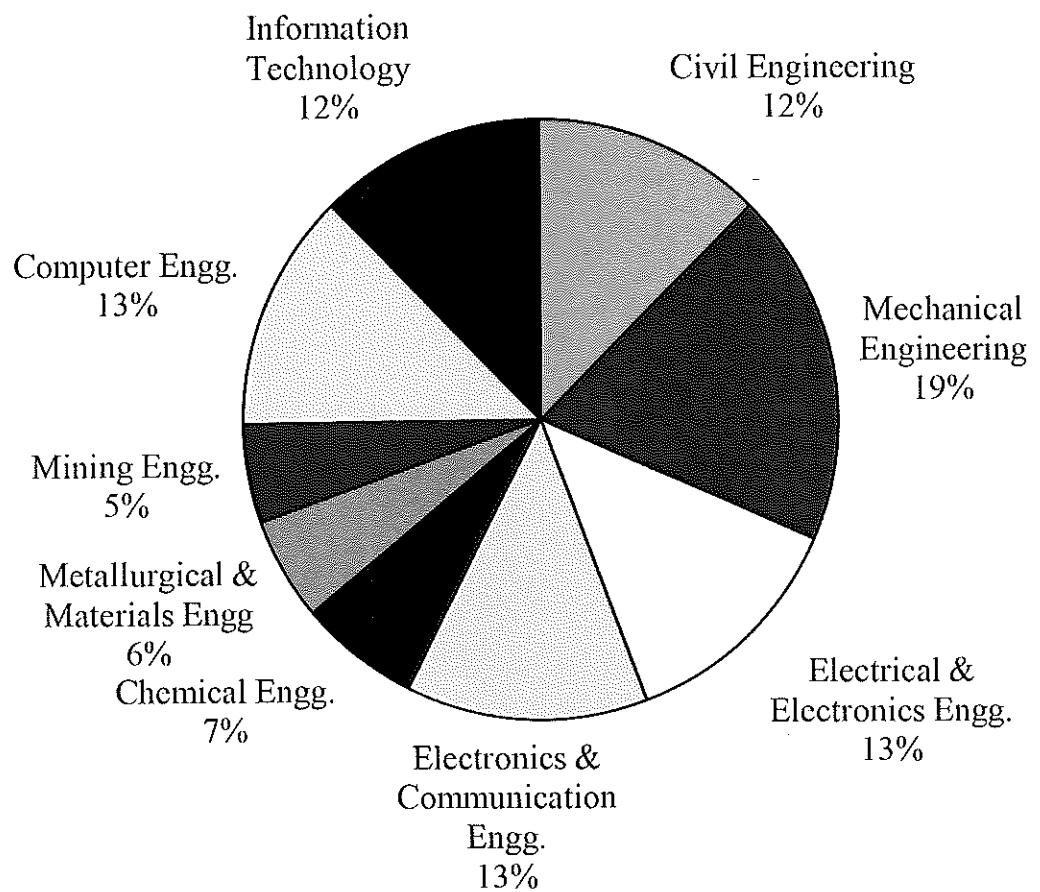
M.Tech./MBA/M.Sc. (Chemistry & Physics)

| 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 | 27+1** | 27+1** | - | - | 27+1** | 100.00 | 7 |
| 2. | Structural Engineering | 25 | 22 | 3 | - | 25 | 100.00 | 6 |
| 3. | Geotechnical Engineering | 15 | 15 | | - | 15 | 100.00 | 3 |
| 4. | Environmental Engineering | 25 | 24 | 1 | - | 25 | 100.00 | 6 |
| 5. | Transportation Systems Engineering | 29 | 25 | 3 | - | 28 | 96.55 | 6 |
| 6. | Marine Structures | 21 | 15 | 4 | 2 | 21 | 100.00 | 3 |
| 7. | Remote Sensing & Geographic Information System | 19 | 15 | 4 | - | 19 | 100.00 | 2 |
| 8. | Water Resources Engineering & Management | 13 | 7 | 4 | 1 | 12 | 92.31 | 2 |
| 9. | Manufacturing Engineering | 14 | 10 | 2 | - | 12 | 85.71 | 3 |
| 10. | Mechatronics Engineering | 24 | 20 | 1 | - | 21 | 87.50 | 3 |
| 11. | Thermal Engineering | 13 | 8 | 3 | - | 11 | 84.62 | 2 |
| 12. | Power & Energy Systems | 25 | 15 | 8 | 2 | 25 | 100.00 | 5 |
| 13. | VLSI Design | 28+1* | 14 | 8 | 4 | 25+1* | 89.66 | 5 |
| 14. | Communication Engineering | 30+2* | 18 | 7 | 4 | 27+2* | 90.63 | 4+1* |
| 15. | Chemical Plant Design | 14 | 5 | 4 | 4 | 13 | 92.86 | 2 |
| 16. | Industrial Biotechnology | 25 | 14 | 6 | 4 | 24 | 96.00 | 5 |
| 17. | Industrial Pollution Control | 19 | 13 | 5 | 1 | 19 | 100.00 | 1 |
| 18. | Process Metallurgy | 10 | 8 | 2 | - | 10 | 100.00 | 1 |
| 19. | Materials Engineering | 19 | 13 | 4 | 1 | 18 | 94.74 | 2 |
| 20. | Nanotechnology | 8 | 6 | 1 | 1 | 8 | 100.00 | 2 |
| 21. | Systems Analysis & Computer Applications | 23 | 14 | 9 | - | 23 | 100.00 | 3 |

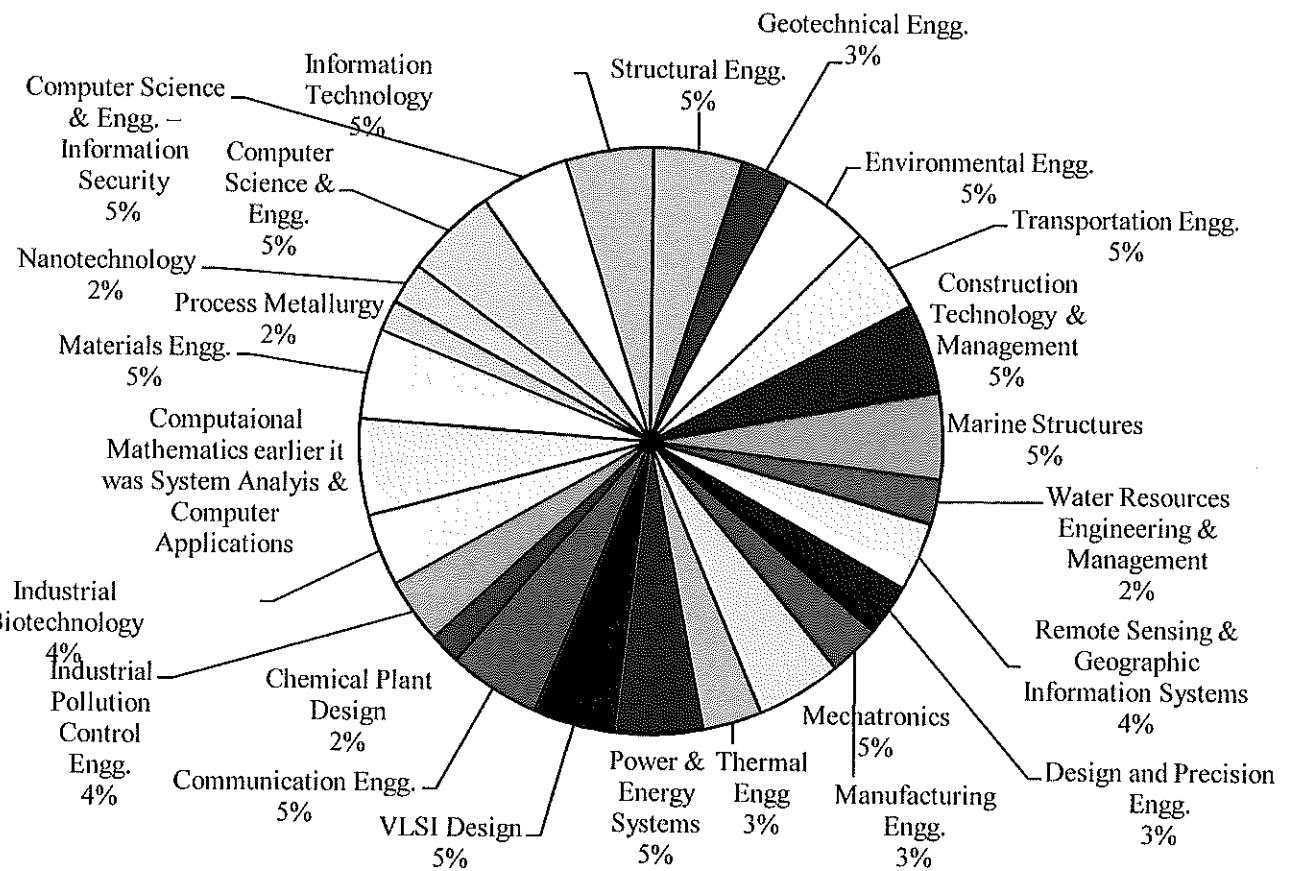
| | | | | | | | | |
|-----|---|-------|----|----|---|-------|--------|------|
| 22. | Computer Science and Engineering | 27 | 22 | 4 | 1 | 27 | 100.00 | 4+1* |
| 23. | Computer Science and Engineering - Information Security | 23+3* | 14 | 7 | 1 | 19+3* | 84.62 | 5 |
| 24. | Information Technology | 26+1* | 18 | 7 | 2 | 26+1* | 100.00 | 6 |
| 25. | Master of Computer Applications | 88 | 67 | 20 | 1 | 88 | 100.00 | 19 |
| 26. | Master of Business Administration | 31+1* | 29 | 2 | 1 | 31+1* | 100.00 | 3+1* |
| 27. | Master of Science (Chemistry) | 19 | 17 | 1 | 1 | 19 | 100.00 | - |
| 28. | Master of Science (Physics) | 20 | 15 | 2 | 3 | 20 | 100.00 | 2 |

*- Repeaters **-

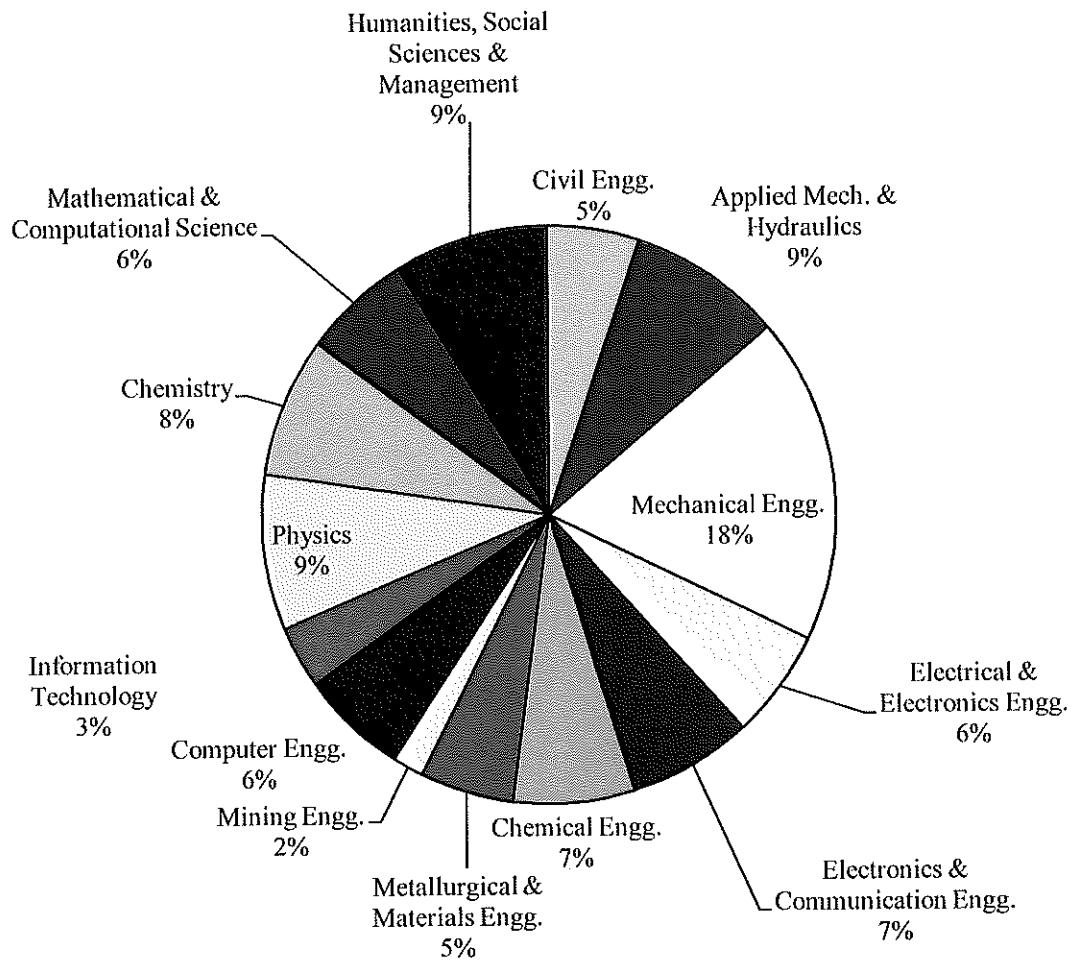
Parttime



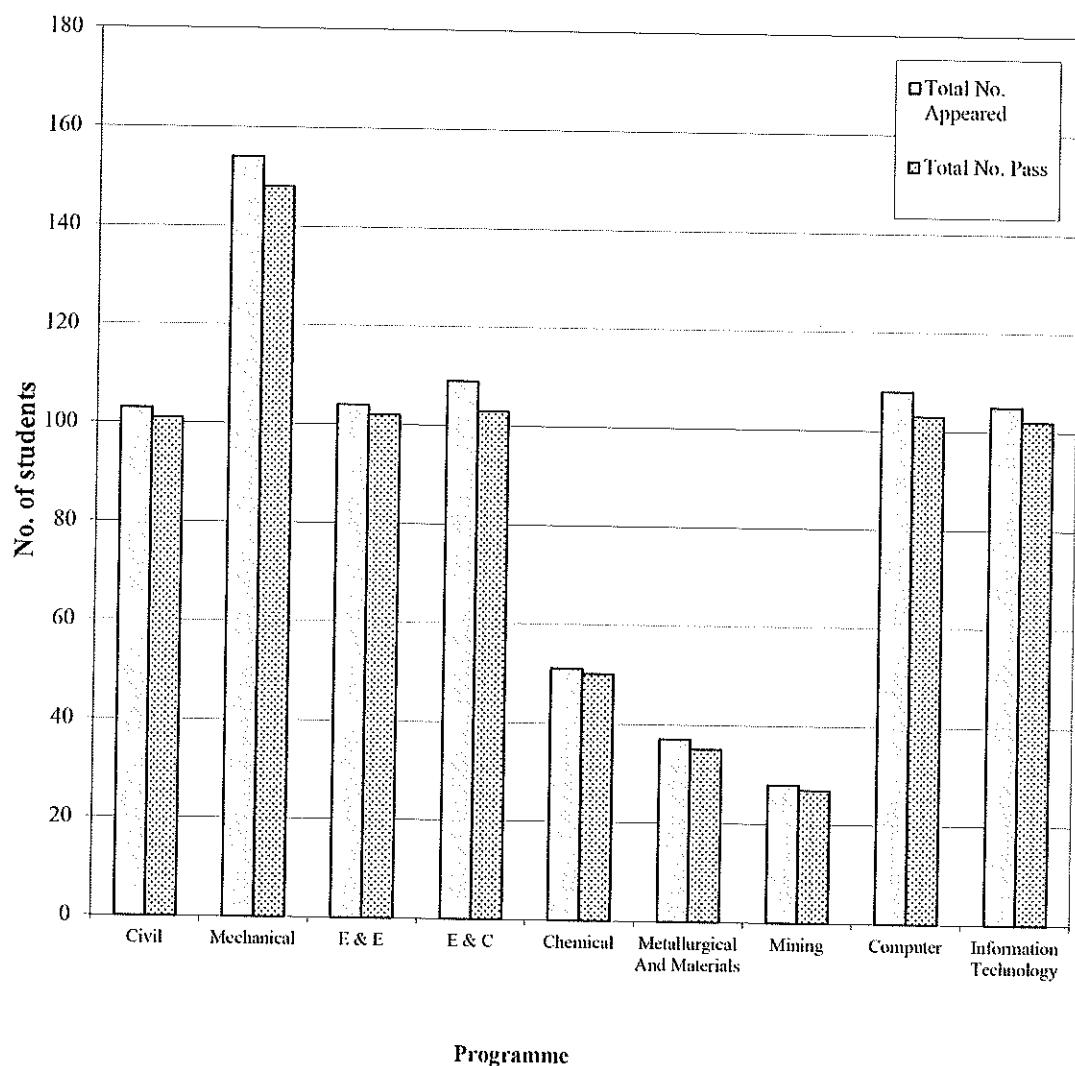
Pie – chart showing discipline wise B.Tech. admissions 2013-14



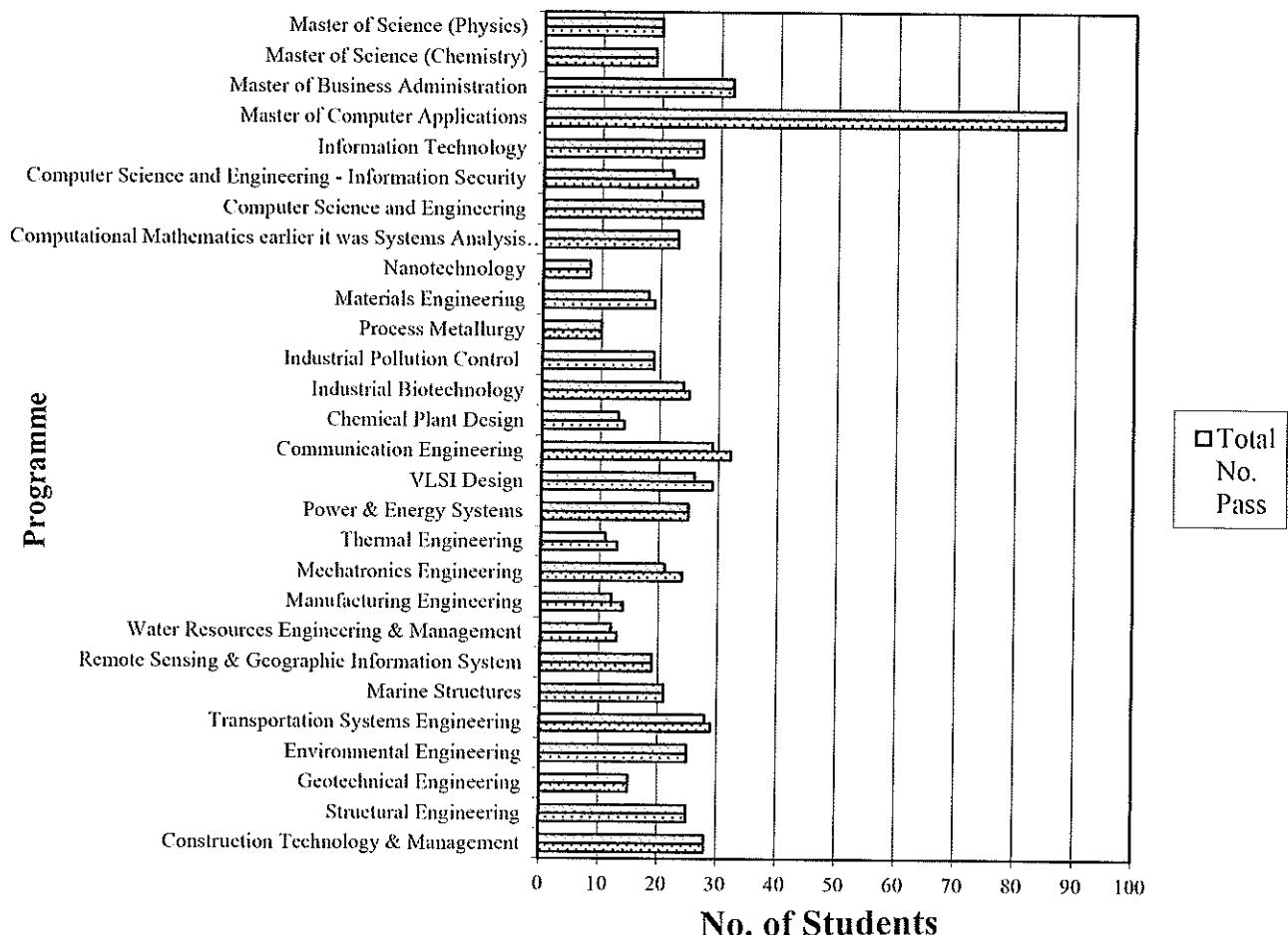
Pie – chart showing discipline wise M.Tech. admissions 2013-14



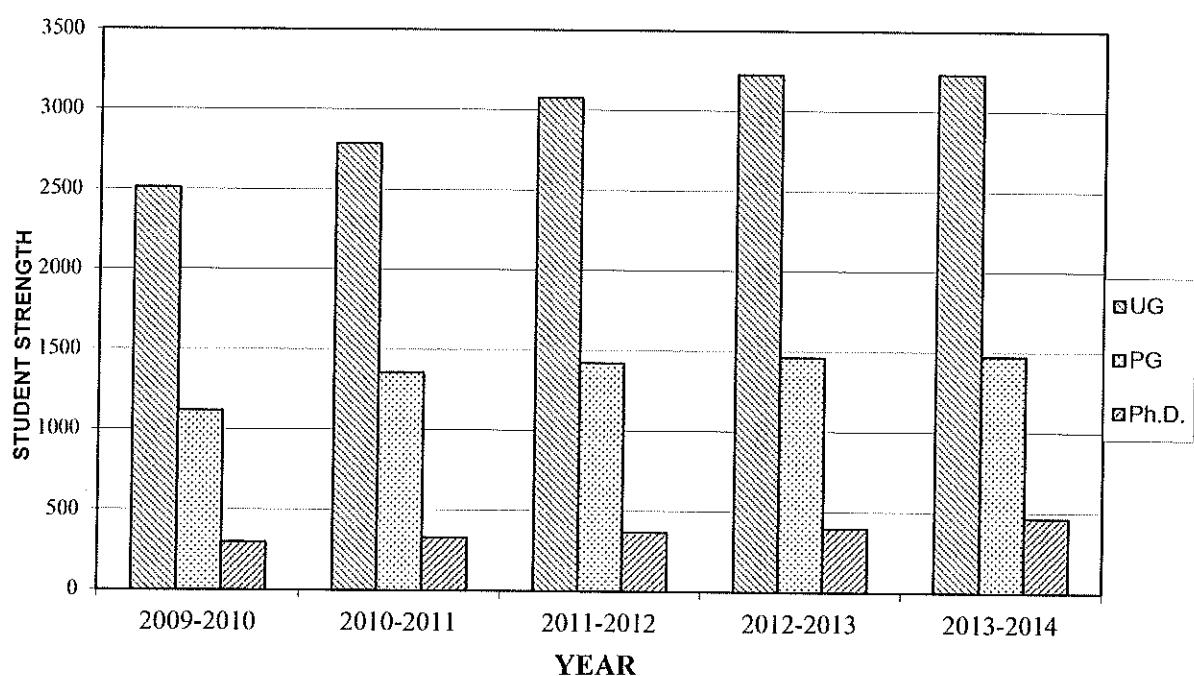
Pie – chart showing discipline wise Ph.D. admissions 2013-14



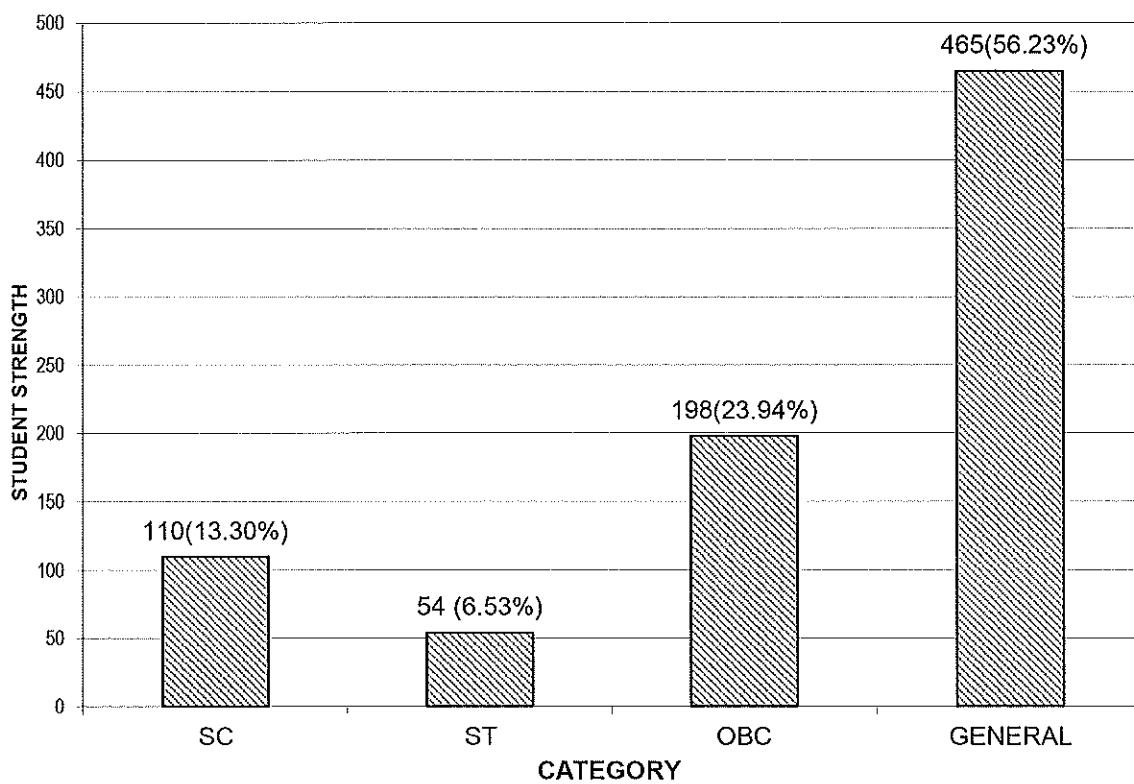
Examination Results (UG)



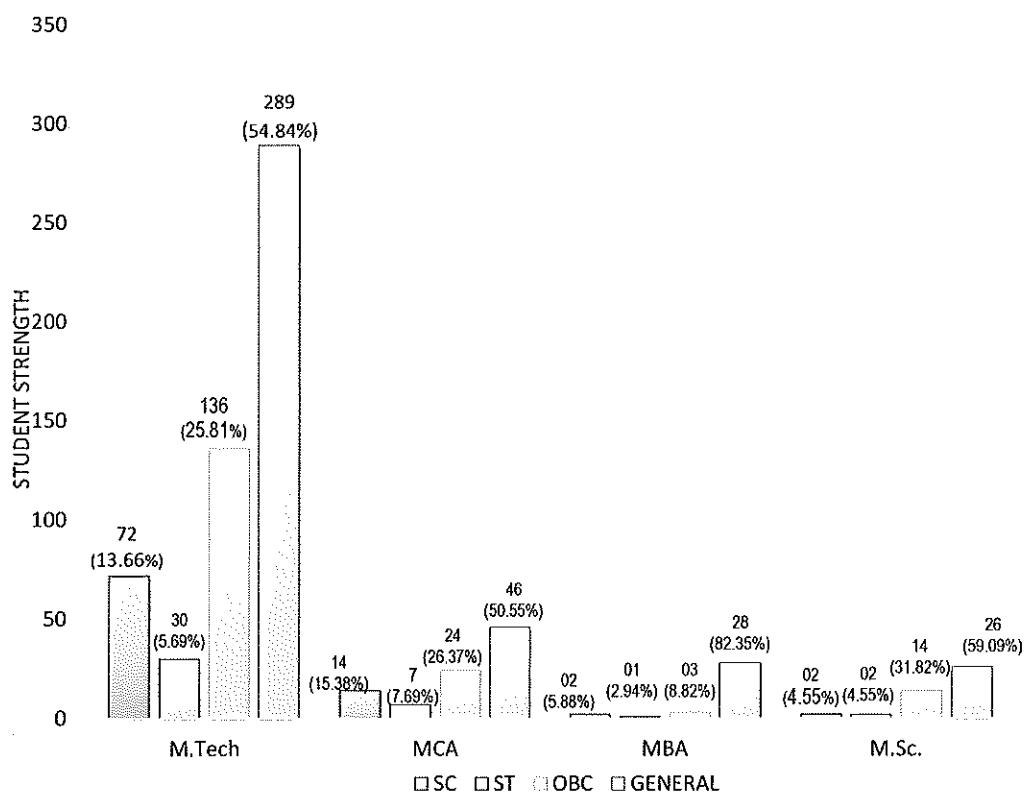
Examination Results (PG)



Growth in Enrolment of UG/PG/Ph.D. students during the Last Five years 2009-2013



Category wise details of UG admissions 2013-14



Category wise details of PG admissions 2013-14

**Ranks secured by the UG students of the Institute in the
Examination held in April/May, 2013**

| Sl.No. | Name of the Branch | Name of the Rank Holder |
|--------|--------------------------------------|-------------------------|
| 1. | Civil Engineering | Shweta P Pai |
| 2. | Mechanical Engineering | Bevin Mathew |
| 3. | Electrical & Electronics Engineering | Pragyan Pratim Hazarika |
| 4. | Electronics & Communication Engg. | Sneha S Kudli |
| 5. | Chemical Engg. | Dhruba Jyoti Deka |
| 6. | Metallurgical Engg. | Manoj Kumar Yadav |
| 7. | Mining Engg. | Vinay Kumar Thakur |
| 8. | Computer Engineering | Kanhaiya Kumar |
| 9. | Information Technology | Abhinit Modi |
| | | Sharath Rao |

**Ranks secured by the M.Tech. Students of the Institute in the
Examination held in April-May, 2013**

| Sl.No. | Name of the Branch | Name of the Rank Holder |
|--------|--|---------------------------|
| 1. | Structural Engineering | Jessiya Thasneem |
| 2. | Geo-Technical Engg. | Srinivasa H N |
| 3. | Environmental Engineering | Vinutha K |
| 4. | Transportation Systems Engineering. | Sumayya Naznin P H |
| 5. | Construction Tech. And Management | Vysakh A |
| 6. | Marine Structures | Parvathy M M |
| 7. | Water Resources Engg. & Management | Chythanky Krishnan |
| 8. | Remote Sensing And Gis | Megha V |
| 9. | Manufacturing Engineering | Umesh Babu V |
| 10. | Thermal Engineering | Pramod K |
| 11. | Mechatronics Engineering | Gaurav Pradip Laghate |
| 12. | Power & Energy Systems | Adharapurapu Hema Latha |
| 13. | VLSI Design | Piyush Joseph Philip |
| 14. | Communication Engineering | Rakesh R T |
| 15. | Chemical Plant Design | Alphy Thomas |
| 16. | Industrial Pollution Control | Karishma Gururajan |
| 17. | Process Metallurgy | Swaroop Robin Lewis |
| 18. | Materials Engineering | Prakrthi A N |
| 19. | Nanotechnology | Ankitha Eleanora Bangera |
| 20. | Systems Analysis & Computer Applications | Sudip Das |
| 21. | Computer Science & Engineering | Valluri Subbanna Chowdary |
| 22. | Industrial Bio Technology | Aarrthi Manoharan |
| 23. | Computer Science And Engg. – Information Security | Midhun P G |
| 24. | Information Technology | Dere Kundan Shivajirao |

**Ranks secured by the MCA/MBA/M.Sc. (Chemistry) students of the Institute in the
Examination held in April/May, 2013**

| | Name of the Branch | Name of the Rank Holder |
|----|-----------------------------------|-------------------------|
| 1. | Master Of Computer Applications | Aayushi Budhia |
| 2. | Master Of Business Administration | Nanda Choudhury |
| 3. | M.Sc. (Chemistry) | Josvita Sequeira |
| 4. | M.Sc. (Physics) | Vaishali B Adya |

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 |
| Proposed | Nil |

Department of Chemical Engineering

| | Specialisation |
|----------|---|
| Existing | Process Development, Particulate system, Biotechnology, Environmental Engg., Transfer Operation, Industrial Biotechnology |
| Proposed | Nil |

Department of Civil Engineering

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

Department of Computer Engineering

| | Specialization |
|----------|--|
| Existing | Software Engineering, Computer Networks, Data Management, Data Mining, Distributed Computing, Information Security, Image Processing, Cloud Computing, Wireless Networks, High Performance Computing, Computer Vision, Speech Processing, Mobile computing and Next generation Computing |
| Proposed | Network-on-chips, DNA computing |

Department of Chemistry

| | Specialization |
|----------|--|
| Existing | I Inorganic Chemistry 1) Corrosion inhibitors 2) Nano fluids 3) Spectrophotometry and complexometry 4) Organometallic chemistry 5) Coordination chemistry 6) Hydrogen storage materials-nanocarbons 7) Liquid crystal |

| | |
|----------|---|
| | <p>II Physical Chemistry</p> <ol style="list-style-type: none"> 1) Nano materials 2) Solution chemistry 3) Polymer composites 4) Biodegradable polymers 5) Nano multilayer coatings 6) Corrosion study 7) Supercapacitor materials <p>III Organic Chemistry</p> <ol style="list-style-type: none"> 1) Synthetic organic chemistry 2) Polymer chemistry-Conducting polymers 3) Medicinal chemistry 4) Liquid crystal polymers 5) Membrane technology 6) Polymer nanocomposites 7) Supramolecular chemistry 8) Green Chemistry 9) Organic solar cells, Dye Sensitized Solar Cells |
| Proposed | <ol style="list-style-type: none"> 1) Crystallographic studies of new single crystals 2) Solar cells 3) OLED materials 4) NLO Materials 5) New catalysts for biodiesel 6) Gas sensors 7) Bio sensors |

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. |
| Proposed | Medical Imaging |

Department of Electrical And Electronics Engineering

| Specialization | |
|-----------------------|--|
| Existing | Power Systems, Distributed Generation, Energy systems, Power Electronics and Drives, Renewable energy, High Voltage, FACTs, Control Systems, Smart grid & Sensor Networks. |
| Proposed | Power Systems, Distributed Generation, Power Electronics and Drives, Renewable energy, High Voltage, FACTs, Control Systems, System sciences and Automation systems. |

Department of Humanities, Social Sciences and Management

| Specialization | |
|-----------------------|--|
| Existing | <p>4 Research Scholars are working for Ph.D Degree under the guidance of Dr. A.H. Sequeira</p> <p>Areas of Specialization</p> <ul style="list-style-type: none"> - Productivity Management - Organisational Behaviour - Service Marketing - Brand Management - Strategic Management - Retail Marketing <p>5 Research Scholars are working for Ph.D Degree under the guidance of Dr. K. B. Kiran</p> <p>Areas of Specialization</p> <ul style="list-style-type: none"> - Economics of Technological Change - Indian Coffee - Indian Textile and Clothing Industry - Micro Health Insurance - Sustainability of Competitive Advantage - Behavioural Finance - Micro Finance <p>3 Research Scholars are working for Ph.D Degree under the guidance of Dr. Shashikantha K.</p> <p>Areas of Specialization</p> <ul style="list-style-type: none"> - Modern Indian Fiction - Diasporic Studies <p>1 Research Scholar is working for Ph.D Degree under the guidance of Dr. Rashmi Uchil</p> <p>Areas of Specialization</p> <ul style="list-style-type: none"> - International Financial Management - Accounting - Mergers and Acquisitions - Organizational Behavior <p>1 Research Scholar is working for Ph.D Degree under the guidance of Dr. Sunil C. D'Souza</p> <p>Areas of Specialization</p> <ul style="list-style-type: none"> - Marketing & Services Management - Consumer Behaviour - Healthcare Management - Organizational behavior - Research Methods - Strategic Management - Total Quality Management <p>1 Research Scholar is working for Ph.D Degree under the guidance of Dr. Suprabha K.R.</p> <p>Areas of Specialization</p> <ul style="list-style-type: none"> - Marketing & Services Management - Financial Management - Microfinance and Rural Development - Project Management - Banking and Insurance Practices. <p>1 Research Scholar is working for Ph.D Degree under the guidance of Dr. Rajesh Acharya H.</p> |

| | |
|----------|---|
| | <p>Areas of Specialization</p> <ul style="list-style-type: none"> - Financial Economics - Market Microstructure of Indian Capital Markets - Derivatives and Risk Management - Applied Financial Econometrics - Credit Risk Modeling and Co-operative Credit <p>1 Research Scholar is working for Ph.D Degree under the guidance of Dr. Gopalakrishna B.V.</p> <p>Areas of Specialization</p> <ul style="list-style-type: none"> - Human Development - Managerial Economics - International Business - Entrepreneurship development - Market research and consumer behavior - Hospital Management <p>1 Research Scholar is working for Ph.D Degree under the guidance of Dr. S. Pavan Kumar</p> <p>Areas of Specialization</p> <ul style="list-style-type: none"> - Organisational Behaviour & Human Resource Management - Information systems - Change management - Research Methodologies <p>1 Research Scholar is working for Ph.D Degree under the guidance of Dr. Sheena</p> <p>Areas of Specialization</p> <ul style="list-style-type: none"> - Brand Management, Brand Equity - Rural Marketing - Retail Marketing - Consumer Behaviour - Advertising Research - Customer Relationship Management <p>1 Research Scholar is working for Ph.D Degree under the guidance of Dr. Savita Bhat</p> <p>Areas of Specialization</p> <ul style="list-style-type: none"> - Industrial Economics - Business Analytics Information Systems. |
| Proposed | Nil |

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 |
| Proposed | Nil |

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 |
| Proposed | Nil |

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 | Nil |

Department of Metallurgical And Materials Engineering

| Specialization | |
|-----------------------|---|
| Existing | Process Metallurgy, Physical Metallurgy, Mechanical Metallurgy, Materials Engineering, Nanotechnology |
| Proposed | -- |

Department of Physics

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

DOCTORATES AWARDED

Department of Applied Mechanics and Hydraulics:-

| No. Awarded | |
|---|----|
| Upto 31 st March 2013 | 37 |
| During period 1 st April 2013 to 31 st March 2014 | 4 |

| Name of the candidate | Title of the thesis | Year of Award | Guide (s) |
|------------------------|---|---------------|-----------------------------------|
| Diwakar P.G. | Participatory geomatics in profess based watershed development | 2013 | S.G Mayya |
| Gumageri Nagaraj | Study of Geomorphology and dynamics of shoreline associated with Mulky-Pavanje rivermouth, Dakshina Kannada Coast, Karnataka, India | 2013 | G. S Dwarakish |
| Anirudha Gopal Banhati | Effects of Data Preprocessing on the Prediction Accuracy of Artificial, Neural Network Model in Hydrologic Time Series | 2013 | Paresh Chandra Deka |
| Shanthala B. | Response Analysis of Berthing Structures for Wave and Earthquake Induced Forces including Soil – Structure Interaction | 2013 | Subba Rao and Katta Venkataramana |

Department of Chemical Engineering

| No. awarded (including those for which viva has been successfully completed) | |
|--|----|
| Upto 31 st March 2013 | 16 |
| During period 1 st April 2013 to 31 st March 2014 | 04 |

During period 1st April 2013 to 31st March 2014 (for period of report only)
Ph.D. Degree awarded:-

| Name of Candidate | Title of Thesis | Year of Award | Guide(s) |
|-----------------------------|--|---------------------------------|--------------------------------|
| Brahmani Priyadarshini S.R. | Asymmetric Synthesis Of Drug Intermediates Using Microorganisms | 5 th April 2013 | Gopal Mugeraya |
| Harisha Poojary | Studies On The Production, Purification & Characterization Of Laccases By The Novel Isolates Of Basidiomycetes | 19 th August 2013 | Gopal Mugeraya |
| Pooja Shivanand | Utilization Of Renewable Agricultural Resources For Ectoine, Xylanase And Cellulase Production From Newly Isolated Halophilic Bacteria | 27 TH September 2013 | Gopal Mugeraya |
| Ranjani Chitrapur | Studies On Microbial Degradation Of Chlorinated Organic Compound | 31 st October 2013. | M.B. Saidutta & G. Srinikethan |

Department of Civil Engineering

| | No. awarded (including those for which viva has been successfully completed) |
|---|--|
| Up to 31 st March 2014 | 32 |
| During period 1 st April 2013 to 31 st March 2014 | 10 |

For period of report only

| Name of Candidate | Title of Thesis | Year of Award | Guide(s) |
|-------------------|--|---------------|------------------------------------|
| B Raja Gopal | Studies On Land Use/Land Cover Changes And Water Quality Due To Urbanization Along the coastal Areas Of Dakshina Kannada District, Karnataka, India | 2013 | S Shrirahi G S Dwarakish |
| Mahamood | Fenton And Photo-Fenton Oxidation Of Selected Pharmaceutical Compounds In Water | 2013 | Basavaraju Manu |
| Ramakrishna Hegde | Investigations On Accelerated Consolidation Of Coir Reinforced Laterite, Lithomargic Clay And Blended Soils With Vertical Sand Drains For Pavement Foundations | 2013 | A U Ravishankar Varghese George |
| Srinath Shetty K | Experimental Investigations And Artificial Neural Network Modeling Of Bearing Capacity Of Strip Footing On Reinforced Granular Bed Overlying Weak Soil | 2013 | R Shivashankar |

| | | | |
|----------------------|--|------|---|
| Sujatha Unnikrishnan | Seismic Response of Laterite Masonry Structures | 2013 | M C Narasimhan Katta Venkataramana |
| Chandrashekhar A | Studies On Potential Usage Of Fly Ash In Steel Fiber Reinforced Concrete For Rigid Pavements | 2013 | A U Ravi Shankar |
| Radhakrishnan K | Geohydrological Studies Of Mulki River Basin, Karnataka, India | 2013 | K N Lokesh |
| Sowmya N J | Design Consistency Evaluation Of Rural Highways | 2013 | A U Ravi Shanka |
| Srujana Nandam | Seismic Response Of Substation Equipment With Porcelain Components | 2013 | Katta Venkataramana & Ramesh Babu |
| Kulkarni Kishor S B | Analytical tools for strength prediction of thermally deteriorated HPC | 2014 | K.S.Babu Narayan & Subhash C. Yargal |

Department of Computer Engineering

| | No. awarded (including those for which viva has been successfully completed) |
|---|--|
| Up to 31 st March 2013 | 15 |
| During period 1 st April 2013 to 31 st March 2014 | 00 |

Department of Chemistry

| | No. awarded (including those for which viva has been successfully completed) |
|---|--|
| Upto 31 st March 2013 | 42 |
| During period 1 st April 2012 to 31 st March 2013 | 10 |

(For period of report only)

| Name of Candidate | Title of Thesis | Year of Award | Guide(s) |
|--------------------|---|----------------|----------------------------------|
| Pavithra G.P. | Electrochemical development and characterization of mutual alloys of Fe-group elemen | June 2012 | A. Chitharanjan Hegde |
| Sanath Kumar | Studies on corrosion inhibition of 18% Ni M 250 grade maraging steel under weld aged condition in acidic media. | 2012 | A. N. Shetty And Jagannath Nayak |
| Shrikant | Synthetic and anticonvulsant studies of some new pyridine derivatives | June 2013 | A. Vasudeva Adhikari |
| Ravindra R | Synthesis of one dimensional carbon nanostructures and its applications | July, 2012 | B. RamachandraBhat |
| Rudresh. B.J. | Synthesis Characterization and study of nonlinear optical properties of some transition metal complexes | December, 2012 | B. RamachandraBhat |
| Sampath Kumar H.C. | Synthesis and characterization of some transition metal complexes and their NLO activity | December, 2013 | B. RamachandraBhat |

| | | | |
|-----------------------------|--|---------------|-------------------------------------|
| CY08F06 Murali M G | Synthesis and Characterization of Thiophene Based Conjugated Polymers for Optoelectronic Applications | April 2013 | Udaya Kumar D |
| Rajesha Kumar A. | Preparation and characterization of chitosan based polymer membranes for water purification application | October 2013 | Arun M. Isloor & Darshak R Trivedi |
| Garudachari B. | SYNTHESIS, BIOLOGICAL STUDIES OF SOME NEW TRIFLUOROMETHYL AND HALOGEN SUBSTITUTED QUINOLINE DERIVATIVES | January 2014 | Arun M. Isloor & M.N. Satyanarayana |
| Subrahmanyam Ishwar bhat | Development of synthetic routes for Carbon-Carbon and Carbon-Heteroatom bond formation Under solvent- and Catalyst Free conditions | December 2013 | Darshak R. Trivedi |

Department of Electrical And Electronics Engineering

| | No. awarded (including those for which viva has been successfully completed) |
|---|--|
| Up to 31 st March 2013 | 03 |
| During period 1 st April 2013 to 31 st March 2014 | 08 |

(For period of report only)

| Name of Candidate | Title of Thesis | Year of Award | Guide(s) |
|---|--|---------------|-----------------------------|
| K. M. Sharma, Assoc. Prof., NITK | Electrical Power Distribution System Management Under DE-regulation Regime | 2013 | K. P. Vittal |
| R. L. Itagi, Asst. Prof., K.L.E.I. T., Hubli | Application of error correction codes for enhancing data integrity in power line channels | 2013 | K. P. Vittal U. Sripathi |
| Vinuatha.U., Assoc. Prof., NITK. | Design and evaluation of controllers for wave energy based electricity generation system | 2013 | K. P. Vittal |
| Rajalakshmi Samaga, Full Time NITK funding | Investigations on noninvasive fault diagnostic techniques for three phase induction motor with mixed eccentricity | 2013 | K. P. Vittal |
| Sham M V, Sponsored under QIP (Poly) | Adaptive Distance Relay for STATCOM Connected Transmission Lines – Development of DSP Based Relay Hardware, Relaying Schemes and Hardware in Loop Testing Procedures | 2013 | K. P. Vittal |
| Kamalapur Gopalkrishna Dhruvaraj | Rural Electrification In Deep Areas Of India And Feasibility Study Of Solar Home Systems | 2013 | Uday Kumar R Y |
| Abdul Ahad Shaik | A Novel Controller For Switched Reluctance Motor | 2013 | Uday Kumar R Y |
| R Shivarudra Swamy | Voltage Regulation Of Power Distribution System With Interconnected Distributed Generators | 2013 | D N Gaonkar |

Department of Electronics And Communication Engineering

| | No. awarded (including those for which viva has been successfully completed) |
|---|--|
| Up to 31 st March 2013 | <p>1. Rajendra Acharya U., has completed the Ph.D. entitled ‘Analysis & Handling of HRV Data’ Area: Bio-medical Signal Processing under the Guidance of Prof. P. Subbanna Bhat, Professor, Dept. of E&C in December 2001.</p> <p>2. Sathish Kumar, Dept. of E&C, MIT, Manipal has completed the Ph.D. thesis entitled ‘Performance enhancement of Optical CDMA Networks and Hybrid Multiplexed Optical Communication Systems’, under the guidance of Prof. K. N. Hari Bhat, Professor, Dept. of E&C and Dr. G. Umesh, Professor, Dept. of Physics in August, 2004.</p> <p>3. Jagadish Nayak, Dept. of E&C, MIT, Manipal has completed the Ph. D. thesis entitled ‘Automated detection of eye abnormalities and patient data handling’, under the guidance of Prof. P. Subbanna Bhat and Prof. M S Bhat, Dept. of E&C in February 2009.</p> <p>4. Ganesh, Dept of CS Engg, PA College of Engg, Mangalore has completed Ph.D thesis entitled ‘Algebraic structure based on mixed radix system and Chinese remainder theorem for the generation of key sequences and their application in stream cipher system’ under the guidance of Prof. Sripathi U, Dept. of E&C and Prof. K N Hari Bhat, in February 2011.</p> <p>5. Om Prakash Verma, University of Delhi has completed PhD thesis entitled “Image Processing using soft computing and evolutionary algorithms” under the guidance of Prof. Muralidhar Kulkarni of E&C in 2011.</p> <p>6. Aparna P, Dept. of E&C Engg, NITK Surathkal has completed Ph.D thesis entitled ‘A development of an efficient video coding based on distributed source coding’ under the guidance of Prof. Sumam David S, Dept. of E&C in March 2012.</p> <p>7. Ramesh Kini M, Dept. of E&C Engg, NITK Surathkal completed Ph.D thesis entitled ‘Development of a dynamically reconfigurable processor core architecture for DSP Kernels’ under the guidance of Prof. Sumam David S, Dept. of E&C in September 2012.</p> <p>8. Prashanth Kumar, completed Ph.D thesis entitled ‘Decoding algorithms for linear block codes adapting tree structure and their applicability to wireless communication and data storage systems under the guidance of Prof. U Sripathi, Dept. of E&C and Prof. B Shankarananda, in November 2012.</p> |
| During period 1 st April 2013 to 31 st March 2014 | <p>1. Rajesh Shetty, Dept. of E&C Engg, NMAMIT, Nitte has completed Ph.D thesis entitled ‘Design and construction of algebraic codes for enhancing information integrity in data storage systems’ under the guidance of Prof. U Sripathi of E&C in May 2013.</p> <p>2. Sooryakrishna, Dept. of E&C Engg, SJEC Mangalore completed Ph.D thesis entitled ‘Modeling, analysis and optimization of interconnects in deep submicron regime’ under the guidance of Prof. M S Bhat of E&C in August 2013.</p> <p>3. Savitha H M Dept. of SJEC Mangalore has completed Ph.D thesis entitled “Energy Efficient Error Control Techniques for OFDM Systems with their Applicability to Power Line and Wireless Communication Channels” under the guidance of Prof. M. Kulkarni of E&C Dept in April 2014.</p> |

| | |
|--|---|
| | <p>Thesis Submitted:</p> <ol style="list-style-type: none"> 1. K S Shivaprakash submitted thesis entitled "Energy Efficient Data Communication over Resource Constrained Wireless Sensor Networks" under the guidance of Prof. M Kulkarni of E&C Dept in 2013. 2. Lwaa Faisal Abdulameer supported by SAARC Scholarship, Lecturer, Information and Communication Engg. Dept., Al-Khwarizmi Engg. College, University of Baghdad, Iraq submitted thesis entitled "Analysis and Design of Reliable and Secure Chaotic Communication System for Optical and Wireless Linkers" under the guidance of Prof. U Sripathi and Dr. M Kulkarni in December 2013. 3. Vasantha M.H of NITK Surathkal (Assistance Professor Dept. of E&C Engg. NIT Goa) has Submitted Ph.D thesis entitled 'Low Power Integrated Continuous-Time Transconductance-Capacitor Filters targeted to operate on 0.5v Supply Voltage' under the guidance of Prof. Laxminidhi T. of E&C in Jan 2014. 4. Rekha S, Dept. of E&C Engg. NITK Surathkal submitted thesis entitled "Integrated Active-RC Continuous Time Filters for Low Voltage and Low Power Applications" under the guidance of Prof. T Laxminidhi of E&C Dept. in February 2014. 5. Geetha Prakash, PES Institute of Technology, Bangalore submitted thesis entitled "Rateless Codes for Transmission over Free Space Optics using Stochastic Models based on Scintillation Theory and their Application to Optical Wireless Sensor Networks" under the guidance of Prof. Muralidhar Kulkarni and Prof. U Sripathi of E&C Dept. in April 2014. |
|--|---|

Department of Humanities, Social Sciences and Management

| | No. awarded (including those for which viva has been successfully completed) |
|---|--|
| Up to 31 st March 2013 | 5 |
| During period 1 st April 2013 to 31 st March 2014 | 3 |

(For period of report only)

| Name of Candidate | Title of Thesis | Year of Award | Guide(s) |
|-------------------|---|---------------|----------------|
| Bijuna Mohan | Brand Equity for Leveraging Business Performance of Fast Moving Consumer Goods (FMCG) Companies | 2013 | Sequeira A. H. |
| Rashmi Uchil | Assessment of the Relationship between Organizational Culture, Identification and Commitment in the context of Mergers, | 2013 | Sequeira A. H. |
| Savitha | Impact of Micro Health Insurance - Case Study of Sampoorna Suraksha Programme in Karnataka | 2013 | Kiran K.B. |

Department of Information Technology

| | No. awarded (including those for which viva has been successfully completed) |
|---|--|
| Up to 31 st March 2013 | 4 |
| During period 1 st April 2013 to 31 st March 2014 | 3 |

(For period of report only)

| Name of Candidate | Title of Thesis | Year of Award | Guide(s) |
|-------------------|---|---------------|-------------------------------|
| Poornalatha G | Web UR:Effective Techniques for Web Usage Mining and Recommender System | October 2013 | Ananthanarayana V S Prakash S |
| Megha P Arakeri | Development of CAD System for Detection, Classification, Retrieval and 3D Reconstruction of Brain and Liver Tumors on MRI and CT Images | December 2013 | G. Ram Mohana Reddy |
| Kiran M | Bio-Inspired Quality of Service Aware Routing in Mobile ADHoc Networks | January 2014 | G. Ram Mohana Reddy |

Department of Mathematical And Computational Sciences

| | No. awarded (including those for which viva has been successfully completed) |
|---|--|
| Up to 31 st March 2014 | 24 |
| During period 1 st April 2013 to 31 st March 2014 | 4 |

(For period of report only)

| Name of Candidate | Title of Thesis | Year of Award | Guide(s) |
|-------------------|--|---------------|-----------------|
| Sureshan Pareth | Newton Type method for Lavrentiev Regularization of nonlinear ill-posed operator equations | 2013 | Santhosh.George |
| P.Jidesh | Image reconstruction using PDE, Variational and Regularization methods | 2013 | Santhosh.George |
| S. Balaji | A Study on Semi-Closed Operators in Hilbert Spaces | 2014 | Sam Johnson |
| M.E.Shobha | Regularization methods for nonlinear ill-posed Hammerstein Type operator equations | 2014 | Santhosh.George |

Department of Mechanical Engineering

| | No. awarded (including those for which viva has been successfully completed) |
|---|--|
| Upto 31st March 2014 | 46 |
| During period 1st April 2013 to 31st March 2014 | 6 |

(For period of report only)

| Name of the candidate | Title of thesis | Year of award | Guide(s) |
|-----------------------|---|---------------|--|
| Saravanabavan D | Experimental investigation and analysis of Maize Natural fiber composites | 2014 | G C Mohan Kumar |
| Shankar K S | Studies on the performance, combustion and emission characteristics of multi-cylinder SI engine fuelled with LPG along with varying steam induction rates | 2013 | Prof. P. Mohanan |
| Kiran Aithal | Development and characterization of functionally graded Al-Si alloy system and Al-Si/SiCp composites using centrifuge casting | 2013 | Narendranath S and Vijay Desai |
| Dayananda Pai K | Performance evaluation and optimization of surface grinding process for grinding of aluminium based metal matrix composites using Response Surface Methodology and a novel genetic algorithm approach | 2013 | Shrikantha S Rao |
| Selvaraj M | Performance evaluation of power transmission line tower made of polymer matrix composite | 2013 | S M Kulkarni R Ramesh Babu |
| Nigalye Akshay Vithal | Modeling and validation of behavior of mushy state rolled Al _{4.5} Cu ₅ TiB ₂ composite using neural network techniques | 2013 | Mervin A. Herbert Shrikantha S. Rao |

Department of Mining Engineering

| | No. awarded (including those for which viva has been successfully completed) |
|--|--|
| Up to 31 st March 2014 (During period 1 st April 2013 to 31 st March 2014) | 03 |

(For period of report only)

| Name of Candidate | Title of Thesis | Year of Award | Guide(s) |
|--------------------|--|---------------|--------------------------------------|
| Shanth A Thimmaiah | Socio Economics and Environmental Impact Studies due to Mining at Bellary- Hospet Sector | 2013 | Y.VRao and Ch.S.N Murthy |
| SangshettyKivade | Experimental Investigation on Estimation and Prediction of Sound in Percussive drilling. | 2013 | Ch.S.N Murthy and HarshaVardhan |
| Mallikappa | Experimental Investigation on Performance and Emission Characteristics of Non- Road CI Engines with Cardanol Bio Fuel Blends | 2014 | Ch.S.N Murthy and N.RanaPratap Reddy |

Department of Metallurgical and Materials Engineering

| | | No. awarded (including those for which viva has been successfully completed) |
|---|--|--|
| Up to 31 st March 2013 | | 23 |
| During period 1 st April 2013 to 31 st March 2014 | | 2 |

(For period of report only)

| Name of Candidates | Title of Thesis | Year of Award | Guide(s) |
|--------------------|--|---------------|-------------------------------------|
| Padmayya S. Naik | Preparation Of Preformed Yarn To Synthesize Carbon-Carbon Composites | 2014 | A. O. Surendranathan |
| Sanat Kumar | Studies on Corrosion Behaviour of 18% Ni M250 grade maraging steel welds in acid medium and its inhibition | 2013 | Jagannath Nayak & Nityananda Shetty |

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 2013 to 31 st March 2014 | | 3 |

(For period of report only)

| Name of Candidate | Title of Thesis | Year of Award | Guide(s) |
|-------------------|--|---------------|---------------------------------------|
| Sowmya Palimar | Doping of Vacuum Deposited Zinc Oxide Thin Films | 2013 | G. K. Shivakumar, (Mrs.) Kasturi V.B. |
| Nagaraja K K | Studies on growth, optical & electrical properties of Doped & Undoped Zinc Oxide Thin Films | 2013 | H.S. Nagaraja |
| Manjunatha K.B. | Investigation of Third-order Nonlinear optical and all optical switching properties of some metal organic materials. | 2014 | G. Umesh |

10.0 HUMAN RESOURCES

10.1 STAFF POSITION

| <i>a) Teaching Staff</i> | <i>Number</i> |
|---------------------------------------|---------------|
| Professors | 70 |
| Associate Professors | 36 |
| Assistant Professors | 123 |
| Other staff, A.P.D. & System Manager} | 02 |
| | ----- |
| | <u>231</u> |
| <i>b) Non-Teaching Staff</i> | |
| Administrative Officers | 12 |
| Technical supporting staff | 69 |
| Non-technical supporting staff | 124 |
| | ----- |
| | <u>205</u> |

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.

Dean (Planning and Development)

Lakshman Nandagiri, Ph.D. till 31.1.2014

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)

Gopal Mugeraya, Ph.D. till 7.10.2013

Uday Kumar R Y, Ph.D. from 8.10.2013

Dean (Research & Consultancy)

G Umesh, Ph.D. till 27.8.2013

K Chandra Sekaran, Ph.D. from 1.9.2013

Associate Deans

Jagannath Nayak, Ph.D. (PG) till the ending ODD Sem 2013-14

Varghese George, Ph.D. (R&C) till 30.4.2013

Subhas C Yaragal, Ph.D. (UG)

ACADEMIC STAFF (TEACHING)

Department of Applied Mechanics And Hydraulics

Professors:

S. Ganapathi Mayya, Ph.D. (I.I.Sc. Bangalore)
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. Subrahmanyam, M.Tech. (Mangalore University)
Manu, (Ph.D. NITK)
Pruthviraj U., M.Tech. (NITK)
H.Ramesh, Ph.D. (NITK)
K. Vadivuchezhian, 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, B.E. (Bangalore University)
Jitendra Pal S., M.Tech. (VTU Belgaum)
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)
M.C. Narasimhan, Ph.D. (IIT Madras)
Katta Venkataramana, Dr. Eng. (Kyoto University, Japan), HOD
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)

Department of Computer Engineering

Professors:

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

Associate Professor

K. Vinayakumar, Ph.D.
Shanthy Thilagam, Ph.D. (NITK)
Vani M., M.Tech. (NITK, Surathkal)
Annappa, Ph.D (NITK, Surathkal) HOD

Assistant Professor:

Alwyn Roshan Pais, M.Tech. (IIT., Bombay)
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)
Ravindranath Chowdhary, Ph.D. (IIT, Madras)

National Institute of Technology Karnataka, Surathkal

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
- B. Ramachandra Bhat, Ph.D. (Mangalore Univ.)
- Krishna Bhat, Ph.D. (Mangalore Univ.)

Associate Professors:

- Arun Mohan Islloor, 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), HOD till 31.3.2014
- M. Shankarnarayan Bhat, Ph.D. (I.I.Sc., Bangalore), HOD from 1.4.2014
- John D'Souza, Ph.D. (I.I.T Kharagpur)
- U. Sripathi, 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)

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)
- Deepu Vijayasanen, Ph.D. (EPFT, Switzerland)
- Prashantha Kumar H, Ph.D. (NITK)
- M R Arulalan, Ph.D. (IISc, Bangalore)
- Raghavendra B S, Ph.D. (IISc, Bangalore)
- A V Narasimhadhan, Ph.D. (IISc), Bangalore
- Pattipatisrihari, Ph.D. (Andhra University)
- Shyam Lal, Ph.D. (BIT Ranchi)

Department of Electrical And Electronics Engineering

Professors:

- Udayakumar R.Y., Ph.D. (IIT Bombay)
- K. Panduranga Vittal, Ph.D. (Mangalore Univ.) HOD till 31.8.2013

National Institute of Technology Karnataka, Surathkal

Associate Professors:

Jora M. Gonda, M.E. (I.I.Sc. Bangalore) HOD 1.9.2013
Shubhangi K.N., Ph.D. (IIT, Bombay)
K. Rajagopal, M.Tech. (I.I.T. Kharagpur)
Vinatha U., Ph.D. (NITK, Surathkal)
Gururaj S. Punekar, Ph.D. (IIT, Kharagpur)
K. Manjunatha Sharma, Ph.D. (NITK)
Ashwini Chaturvedi, Ph.D. (MUM Malaysia)

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)
Debashish 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)
K.B. Kiran, Ph.D. (Mangalore Univ.)

Associate Professor:

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

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 Pandicherry)
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. (UNIE, 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)
Jaidhav 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)
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, M.E.
Vivek Sinha, Ph.D (IIT, Bombay)
V. Murugan, Ph.D. (IIT, Madras)
P. Sam Johnson, Ph.D. (Alagappa University)
Jidesh P., M.Tech. (University of Kerala)
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
Satyabodh M Kulkarni, Ph.D. (I.I.Sc., Bangalore)
Gangadharan K.V., Ph.D. (I.I.T., Madras)
Ravi Kiran Kadoli, Ph.D. (IIT, Madras)
Vijay Desai, M.E. (Ph.D. NITK)
Narendranath S., Ph.D. (IIT, Kharagpur)

National Institute of Technology Karnataka, Surathkal

Associate professors

Y. Suresh Kumar, M.E. (Mysore Univ.)
Srikantha M., Ph.D. (NITK)
S.M. Murigendrappa, Ph.D. (I.I.T., Bombay)

Assistant Professors

Mohiyuddin Masood, M.Tech. (I.I.T. Madras), expired on 12.11.2013
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., M.Tech. (Mangalore University)
Veersetty Gumtapure, M.Tech. (I.I.T., Madras)
Navin Karanth P., Ph.D. (NITK)
Subhaschandra Kattimani, M.Tech., (QIP at IIT Kharagpur)
Sudhakar Jambagi, M.Tech. (QIP at IIT Kharagpur)
Vijay Kumar H, M.Tech. (QIP 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. (Wright State)
Arun M, Ph.D. (University of Greenwich, London, UK)
Anish S, Ph.D. (IIT, Madras)
Mrityunjay R. Doddamani, Ph.D. (NITK, Surathkal)
N. Gnanasekaran, Ph.D. (IIT, Madras)

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

Associate Professor:

P. Laxshminarayana Reddy, Ph.D. (I.I.T. Bombay)
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)
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)

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:

Shashidhar Shetty, on deputation from KPW

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:

Udaya Kumar R Y, Ph.D. till 31.3.2014

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:

Manohar Karanth

Chief Vigilance Officer:

M C Narasimhan, Ph.D. till 28.1.2014

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:

R Shivashankar, Ph.D. till 31.3.2014

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 Raj Mohan, Ph.D. till 15.5.2013

B M Doddamani, Ph.D. from 16.5.2013

National Institute of Technology Karnataka, Surathkal

Physical Education

Physical Director:

Vacant

Assistant Physical Director Sr. Scale:

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

SAS Officer

Hem Prasad Nath, Ph.D.(Nagpur University) from 11.3.2014

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.

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.

Research Associate:

Vacant

Computer Programmer Cum Operator:

Arun Kumar Shetty B., B.C.A., M.CA, A.D.C.A, D.C.Sc.

National Institute of Technology Karnataka, Surathkal

*Centre for Continuing Education
Chairman*

K.S. Babunarayan, Ph.D. till 31.3.2014

S M Hegde, Ph.D., from 1.4.2014

Dakshina Kannada Nirmithi Kendra

Coordinator:

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 | Dy.Registrar(Academic) | 1 |
| 2 | Dy. Registrar (A/C's) | 1 |
| 3 | Medical Officer | 2 |
| 4 | Scientific Officer | 1 |
| 5 | Assistant Librarian | 2 |
| 6 | SAS Officer | 1 |
| 7 | Asst. Registrar | 4 |
| 8 | Asst.Selection Grade-II | 7 |
| 9 | Junior Assistant | 39 |
| 10 | Senior Assistant | 1 |
| 11 | Senior Stenographer | 4 |
| 12 | Superintendent | 7 |
| 13 | Executive Engineer | 3 |
| 14 | Assistant Engineer/Sr Technical Asst/Sr. SAS Asst. | 22 |
| 15 | Junior Engineer/Technical Assistant/SAS Asst | 20 |
| 16 | Sr.Technician/Sr.Works Asst/Sr Laboratory Asst. | 16 |
| 17 | Works Asst/Technician/Laboratory Assistant | 6 |
| 18 | Works Asst.(SG II) Tech Asst SG-II/Lab Asst SG-II) | 2 |
| 19 | Senior Attendant | 26 |
| 20 | Attendant/Mali/Security Guard(Higher Scale) | 40 |
| Total | | 205 |

11.0 FACILITIES/AMENITIES

11.1 Hostels

The Institute reopened on 23/07/2013 for Under-graduate and Post-graduate studies as per Academic Calendar for the year 2013-14. All the students including foreign students are accommodated in the hostels as follows:

| Course | Male | Female | Total No.of Hostellers |
|----------------------------------|-------------|------------|------------------------|
| Undergraduate Programmes | 2665 | 473 | 3138 |
| Postgraduate Programmes (M.Tech) | 647 | 217 | 864 |
| Ph.D. | 144 | 42 | 186 |
| M.B.A | 57 | 12 | 69 |
| M.Sc. | 28 | 42 | 70 |
| MCA | 205 | 59 | 264 |
| Total | 3746 | 845 | 4591 |

Male students are accommodated in Eleven Hostel Blocks. First year UG students have been accommodated in I Block, II Block and VII Block Hostels. Second year UG students have been accommodated in III Block, IV Block and V Block Hostels. Third and Fourth UG students have been accommodated in Mega Hostels. PG students have been accommodated in PG Block, V Block, VII block, VIII Block and Mega Hostel Blocks and PhD students have been accommodated in VII Block Hostel and Mega Hostel block. There are four hostels for Lady Students with total accommodation capacity is 794 Nos.

Nine messes of different types are provided in the boys hostels with necessary infrastructure to cater to the different food habits of the students drawn from all parts of the country. The girls hostel has a separate mess. The messes are run with active participation of the elected Mess Managers in preparation of the menu and management of the messes. The average mess bill rate per day for the month of March 2014 is as follows:

- | | |
|-------------------------------------|------------|
| 1. I Block Mess | Rs.1728.00 |
| 2. II Block Mess | Rs.1728.00 |
| 3. III Block Mess | Rs.1728.00 |
| 4. IV Block Mess | Rs.2035.00 |
| 5. V Block Mess | Rs.1728.00 |
| 6. VII Block Mess | Rs.1728.00 |
| 7. VIII Block Mess | Rs.1728.00 |
| 8. PG Block Mess | Rs.1728.00 |
| 9. Mega Hostel Mess | Rs.1728.00 |
| 10. GH Mess | Rs.1643.00 |
| 11. IH Mess (New Girls Hostel Mess) | Rs.1643.00 |

Reading room in the Hostel is provided with books and periodicals of different languages. This section is managed by a separate elected students Committee. The Recreation Committee constituted by election, looks after the sports activities of the residents of the hostels and provides indoor game facilities. Reading Room and Recreation committee have done their job in a commendable manner. A separate section of the reading Room has been functioning in the IV Block. The Cable TV facility existing in the campus has been extended to all the hostels. Ladies hostel has been provided with 10 terminals connected to Central Computer Centre with Internet Facility and all the Hostel Rooms (Boys and Girls) have connected with Internet facilities.

During the year under report, Medical Relief to the tune of Rs.23,095/- 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 constituted block-wise to encourage interaction between the Wardens and students. To improve the accounting process, computerization of accounts have already been initiated. The accounts of the hostels are audited by a Chartered Accountant.

Prof. Narendranath S. is working as a Professor in-charge Hostel Affairs NITK Hostels.

Presently, the following faculty members their services as wardens in different Hostel Blocks as mentioned against their names:

| | |
|-------------------|--------------------------------------|
| Narendranath S. | - Professor in-charge Hostel Affairs |
| Vasudeva M. | - Warden (Finance) |
| Basavaraju Manu | - Warden, I Hostel Block |
| I. Raghupathi | - Warden, II Hostel Block |
| Arun M. Islloor | - Warden, III Hostel Block |
| Merwin A. Herbert | - Warden, IV Hostel Block |
| Kumar G. N. | - Warden, V Hostel Block |
| Biju R. Mohan | - Warden, PG Hostel Block |
| Nagaraja H. S. | - Warden, VII Hostel Block |
| B. M. Dodamani | - Warden, VIII Hostel Block |
| Debashisha Jena | - Warden, Mega Hostel Tower II |
| Ajith K. M. | - Warden, Mega Hostel Tower I |
| Sunil B.M. | - Warden, Mega Hostel Tower III |
| Aruna M. | - Warden, Mega Hostel Tower III |
| K. Ram Chandar | - Warden, Mega Hostel Tower I |
| Bijuna C. Mohan | - Warden, Girls Hostel Block |

Prof. Swapan Bhattacharya, NITK, Director is Ex-officio President of NITKS Hostels. Being the President for hostels guidance is given to the Council of Wardens 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

NITK has a campus wide Network spanning the entire campus – academic buildings guest houses, student hostels and campus residences. Each department has its own LANs connected to this network. These LANs have adequate number of computers to cater to the needs of the department. In addition, two LANs are provided in the CCC which are accessible after the office hours and on weekends. The campus network uses 12 crore optical fiber cabling for inter building connectivity with 1 GBPS speed depending on the no. of computers in the end-point LAN. Intra departmental and Hostel LANs are fast Ethernet (100 Mbps). Residences are as a DSL (broad band) network with ADSL2 technology is expanded to include more residences. The Institute has 24x7 Internet connectivity. The journals subscribed through INDEST consortium are available throughout the campus LAN. The Institute's network operations and data centre are in CCC. These are kept functioning round the clock. The server capacity of the date centre is expanded to support the additional demands. The Institute is part of National Knowledge Network (NKN). The Institute hosts the NPTEL video and text lessons in its service for the Campus Network. The present bandwidth is 1 GBPS to NKN and 155 Mbps to BSNL, both shared by the entire campus LAN.

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 1,29,531 including Book-Bank books, subscribes 411 journals for all the disciplines. We have access to 2000 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.

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 1,28,888 books besides subscribing to around 411 National and International Journals.

Infrastructure:

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:

- a. For fresher of U.G. and P.G. courses, Library conducted orientation classes in the beginning of the academic year.
- b. The Library is publishing list of "New Arrivals" Bimonthly & sending the same to all Faculty members through e-mail.
- c. 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.
- d. 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.
- e. Services to Industries, Educational Institutions, Government Establishments, the neighboring Govt. Departments, Educational Institutions and Industries are using this Library services quite often.

- f. 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.
- g. The Library has an Inter Library Loan facility with leading Institutions and G.O.I. Establishment.
- h. Member of National Information Center for Machine Tools and Production Engineering (NICMAP), CMTI, Bangalore.

11.4 National Technical Manpower Information System Nodal Centre For Karnataka State

The National Technical Manpower Information System (NTMIS) is a scheme under the Ministry of Human Resources Development (MHRD) set-up in the Year 1983 with a view to generate and maintain an up-to-date data bank for the purposes of providing reliable information for better planning and management of technical education. The Nodal Centre for Karnataka State was set-up at NITK, Surathkal and has been functioning since 1986. At present, the NTMIS functions under the control of AICTE with a separate budget. The Lead Centre of the NTMIS located at Institute of Applied Manpower Research (IAMR), New Delhi provides guidance to all the 20 Nodal Centres spread all over the country including four Regional Board of Apprenticeship Training (BOATs).

The Nodal Centre for Karnataka state collects vital information from two important segments. The first segment is from all Engg. (PG, Degree & Diploma), MCA, Management (PG), HMCT (Degree) and Pharmacy (PG, Degree & Diploma) institutes covering AICTE approved colleges of Karnataka state. The other is from the passed-out students from aforesaid institutions through a prescribed survey questionnaire. The data collected from the above sources are compiled, validated, processed, analyzed and the information is published each year in the form of Annual Technical Manpower Review (ATMR) report.

Nodal Centre supports the NTMIS to publish 'Technical Manpower Profiles' on all India basis by Institute of Applied Manpower Research (IAMR).

The system has been serving various stakeholders like education planners, ministry of human Resources Development, Planning Commission, State Governments, Industries, Parents and Students for nearly 3 decades.

The Nodal Centre is functioning with the able direction of Director, NITK as Head of the Nodal Centre, Project Officer, Research Associate, Computer Operator cum Programmer, Personal Assistant and Field Investigators. The sponsors of the scheme have provided necessary computing and communication facilities for an effective functioning of the centre.

11.5 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 : ENVI, ERDAS- Imagine, PC ARCINFO Master Lab. Kit , Geomedia Professional. |
| 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 hig tempreature gas liquid phase reactor |
| Heat Transfer Lab | Air compressor - TS07120HN / 220lit & 500 ltr., 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 insulalting 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 Anaylser, 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, H2, He & N2, 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, CO2 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 Refrigerated LE, Microwave Oven, Laboratory Centrifuge, Infra-red TN Turbidity Meter, Autoclave (vertical), Micro controlled Spectrophotometer, 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, Refrigerated Centrifuge, High volume sampler, Micro plate reader, Meteorological Station, mini autoclave, Eppendorf Centrifuge, Trinocular inverted microscope, |
| Project/Research lab. | RTC Basic Magnetic Stirrer, Eppendorf Centrifuge, Refrigerated Centrifuge, Refrigerated Heating Bath Circulator, Homogenizer, Digital Refractometer, Surface Tension analyser, Temperature Controlled digital density meter, High Speed Refrigerated Centrifuge, Muffle furnace, Static Mixer, Bacterial incubator. Horizontal laminar flow work station, Dry Bath with Heating Block, Membrane Testing system, Rotatory 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 Software 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 with data acquisition system, Miniature form of Soil-Structure Interaction Study system. |
| Environmental Engineering Laboratory | Photometer, Voltameter-Spectro UV HPCL, 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, Gyratory 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, Mini ROMDAS, Asphalt Mixers of Capacity 5 litre and 20 litre capacity, Asphalt Theoretical Density 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 |

Department of Computer Engineering

| Name of Laboratory | Major Equipment/Facilities |
|--|--|
| Core Computing Lab | Brand: Lenovo, Lenovo Thinkcentre, Intel Dual Core 3GHZ, 1GB RAM, 140 GB HDD, 17" TFT Monitor. OS: Windows XP/Ubuntu Linux, Number of Systems: 45, 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: 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. |
| 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: 10, Ph.D./ Research Work |
| 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: 13 (10+3), Used for Ph.D./ Research Work. |
| Distributed Computing Lab | 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: 10, Used for PG/M.Tech.(Research) students for 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 LenovоТhinkcentre 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: 56(30+26). 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: 30, Used for second year M.Tech.(IS) Project students. |
| PG Project 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: 27. Used for second year M.Tech. (CSE) Project Work. |

| Name of Laboratory | Major Equipment/Facilities |
|---------------------------------|---|
| High Performance Computing Lab | Brand: Dell Optiplex 9020MT, 4 th Generation Intel Core i7-4770 quad-core, 16GB DDR3 RAM , 1 TB SATA HDD, DVD RW, NVIDIA Getforce GTX 645, 1 GB Graphics card, 21" wide TFT monitor with Windows 8 Professional, Number of Systems: 13. 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 Lab | <p>1 IBM P-Series Model 9131/52A Open Power Server with HMC Firmware (for Managing Power cycling, Maintenance and other related Administrative activities) installed with various Linux OS. 5 High End IBM Xeon Series Servers with Windows 2000, Windows 2003, Linux, Netware Operating Systems. DELL Power Edge T710 - 1 No.(s) 6 Core Intel Xeon E5645 2.40 Ghz x 2, 12 MB L3 cache, 24 GB DDR3 RAM, 3.0 TB hot swap SAS HDDs, Integrated RAID, DVD RW with Windows Red-Hat Enterprise Server Version 6.0 AE 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>No. of Servers = 09</p> <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 |
|------------------------------|--|
| Sophisticated Instrument Lab | UV-VIS-NIR- S600- Analytikjena Gel Permeation Chromatography CHNS Analyzeer Spectroflourimeter Differential scanning calorimeter |
| Single Crystal XRD Lab | Single Crystal XRD Machine, Bruker |
| Research Labs | Potentiostat/Galvanostat-3 |

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, IGMT, 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. |
| 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. |
| 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) | HP VA206AV Z200 Workstations Dell Optiplex 755 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 Fibre Optic Power Source Optical Fibre Trainer LD Modulator (Transmitter) FORX-200m(Receiver) Fiber Optics Kits Wireless Sensor Network Professional Kit with Tools Qualnet Network Simulator Qualnet Network Simulator Tools Wireless digital communication training system (Wi-Communication-T), Outdoor free space optic (FSO) link. |
| RF Communication Lab | 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 Software: Genesis Core Bundle License Agilent VEE 8.5 , ADS 10 User Licence, Optsim 5 User Licence |

| | |
|--|---|
| VLSI Lab | Dell Precision T1500 & T1600 with Intel core I7-870 Workstations File Server Cadence Design suite, Synopsys EDA Tools Mentor Graphics Tools Xilinx Tools Tanner Tools |
| DSP Lab | Dell Precision T1500 with Intel core I7-870 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 |
| 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) | Workstations Access to all design tools in the other labs |
| Centre for Excellence for Wireless Sensor Networks | 6 Work stations, WSN Design kits, Qualnet SW, NETSIM SW, Sensors |

Department of Humanities, Social Sciences and Management

| Name of Laboratory | Major Equipment/Facilities |
|--------------------|--|
| Computer Lab | It has the capacity of 26 terminals and provides access to a host of essential software like SPSS, Palisade Decision Tools, Prowess, SAP, Open-office, Clarity Language Teaching Modules, etc. |

Department of Information Technology

| Name of Laboratory | Major Equipment/Facilities |
|--------------------------------|--|
| Digital Design Lab – I | Dell Power Edge R420 Server-2 nos |
| Digital Design Lab – II | N-Computing L-300 Clients, Monitor Dell 18.5" LED, Microsoft Keyboard & Mouse -20 each |
| Research Laboratory | Digital I C Tester - 1 No. |
| Internet Technology Laboratory | IBM P Series P270 8202 4EC Server - 1 No. |
| Virtualization Lab | |
| Post Graduate Lab – 1 | |
| Post Graduate Lab – 2 | |
| Project Laboratory | |
| Undergraduate Lab -1 | |

Department of Mathematical And Computational Sciences

| Name of Laboratory | Major Equipment/Facilities |
|--------------------|----------------------------|
| SACA & MACS Labs | 200 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 Modified lathe machine for rock cutting |
| 3. Mine Environmental Engineering Laboratory | 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 Magnetic separator Sieve shaker Hot air oven Wilfley's table Jigging apparatus Froath flotation apparatus |
| 5. Mine Surveying Laboratory | Prismatic Compass, Surveyor Compass, Vernier Theodolite, Micro-Optic Theodolite, Dumpy level, Auto level, Digital level, Total station, Handheld GPS, DGPS. |
| 6. Mine Planning and Design Laboratory | HP Compaq Presario Computer LCD Projector D-link manageable switch HP 3200 A4 scanner, HP 1010/1015 Laser printer, HP plotter SurpacMine Planning Software Reliability software Sirovision software JK Sim blast software |
| 7. Mine Pollution Laboratory | Merc SQ118 water quality analyzer High volume air sampler Respirable dust sampler Sound level meter Opacity meter Point sampler Beta attenuation meter Weather monitoring station |

Department of Metallurgical 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 Microscope Lab | Scanning Electron Microscope with EDAX |
| Casting Research Lab | Data logger, Hot stage microscope, Contact Angle Analyser, Image analyzer, Instron tensile tester, Quenchometer, Stereo microscope, 2D Surface Profiler, Solid Cast Software, Ultrasonicicator, 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 |
| Metal Processing Lab | Rolling mill, Precision cutting machines, 250 ton Hydraulic press |
| Corrosion Lab | Potentiostat and Impedance analyser |

Department of Physics

| Name of Laboratory | Major Equipment/Facilities |
|----------------------------|--|
| UG Laboratory | Experimental Kits (8 expts of 5 sets each) |
| PG Laboratory I | Experimental Kits (7 expts of 2 sets each) |
| PG Laboratory II | Experimental Kits (7 expts) Vacuum Coating Unit (2 no.s) |
| Research Laboratories: | |
| Thin Film Laboratory | Physical vapor Deposition unit Planar Magnetron RF- DC Sputtering Unit Spray Pyrolysis Unit Keithley Source meter |
| optoelectronics Laboratory | Linear Translation Stage RF Probe Station Nd: YAG Laser, Stabilizer, Power Supply Spin Coater with controlling unit and vacuum pump Optical Absorption Spectrometer Optical Chopper LCZ Meter Z-Scan Setup ISO Meter Precision Cutting Machine Jobin Spectrometer |

| | |
|--|---|
| Crystal Growth Lab & Material Processing Lab | 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 |
| Material Processing Laboratory | CLEMEX Microhardness Tester Physical vapour deposition Polishing Machine Muffle furnace (Max Temp 1000°C) Low speed Diamond saw cutting Blade Abbe refractometer Analytical balance and Density kit |

11.6 WORKSHOPS

Department of Applied Mechanics and Hydraulics

| Name of workshop | Major equipments/facilities |
|----------------------------|---|
| 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 | Lathe, A Shearing Machine, Electrically operated Power Saw, and Welding Transformer. |

Department of Chemistry

| Name of Workshop | Major Equipment/Facilities |
|---|----------------------------|
| Organized TEQIP-II sponsored Lecture Series during Sept. 6-7, 2013 Convener: Dr. Udaya Kumar D | |

Department of Electrical and Electronics Engineering

| Name of Workshop | Major Equipment/Facilities |
|---|--|
| Selected Topics of Research in Electrical Power (STREP-2013) | Expert lecture by resource persons from CPRI Bangalore, and in-house faculty. |
| Principles of analog / digital measurements and hardware debugging techniques | An exhibition cum demonstrative workshop by Agilent technologies. |
| Short term course on Power Electronics in Distributed Generations | Expert lecture by resource persons from IIT Delhi, NIT Trichy, NIT Calicut, Ambedkar Institute of Technology, and ABB, and in-house faculty. |

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 |

Department of Mining Engineering

| Name of Workshop | Major Equipment/Facilities |
|---|----------------------------|
| “National Workshop on Recent Development in Rock Mechanics and Ground Control “. Dates: 01/10/2013 to 03/10/2013 (TEQIP-II) Co-ordinator: Ch.S.N.Murthy, Professor, Dept. of Mining Engineering,NITK. | NA |

11.7 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.

11.8 PHYSICAL EDUCATION FACILITIES

Dept. of Physical Education and Games

FACILITIES/AMENITIES:

Department of Physical Education and Sports of this Institute has got excellent Sports infrastructures and facilities provided here is considered as one of the best among all NITs as well as among other Institutions and Universities of this State. Separate, Standard, well maintained play fields for all major games like 400Mts. Track for Athletics, 75 Yards Boundary Cricket field with 3 playing pitches, 70 yards boundary Cricket field with a matting wicket, 2 standard size Football fields, 2 Hockey fields with 2 pairs of goalposts with boards, 2 concrete Basketball courts with FG boards and Flood Light facilities, 1 Basketball concrete court at Girls Hostel with flood lights, 3 Volleyball courts with flood light facility, 2 Ball Badminton, 2 Throwball, 2 Kho-Kho, 2 Kabaddi, 2 Tennikoit courts are available for use. Provision is also there to put one Handball court with goal posts and one Baseball field with all Bases and other required amenities. An indoor hall with 3 Badminton courts and 4 TT tables with proper Lighting system, kept open for 15 hours 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, 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 Bath room and Toilets, started. Fitness equipments worth of Rs.1000000-00 has been purchased and a new Gym has been set up near mega towers Hostel block building. A pair of new mobile Basketball posts with transparent acrylic boards has been purchased and put for use. Badminton Hall has been renovated with corrugated sheets, advanced lighting system for Badminton, carom and Table Tennis.

11.9 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

12.1 STUDENTS UNION

Election to the Students' Union of the Institute was held on 13.4.2013 and the following office bearers were elected:

1. Mr. Vijeth S
2. Mr. Shubham Agarwal
3. Mr. Shubham Bhutada
4. Ms. Vaibhavee Tiwari

- President
- Secretary
- Joint Secretary
- Girls representative

12.2 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 and Power Lifting, 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 are insisted to become member of the Swimming pool and attain the knowledge of water survival skill or swimming. "Learn to swim" as well as advanced swimming coaching camps are conducted to cater the needs of all students and campus people. Competitions are being conducted from the lowest level starting from, 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 Football and Table Tennis were being organized at our Institute during 09th to 12th January, 2014.

More than 350 students from other NITs (16 Football teams & 18 Table Tennis 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 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.) |
|--|----------------|---------------------------|---------------------|---------------------------|
| Hydrogeological Studies of Coastal Wetlands – A Case Study | INCGW | A.Mahesha Subrahmanyam K. | 2013-16 (Tentative) | 39.4 |

Projects On-going

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Lakh Rs.) |
|---|----------------|--|----------|---------------------------|
| Laboratory Investigation on Berm Breakwater | INCH | Subba Rao (PI & Co ordinator) Kiran G Shirlal K. Balakrishna Rao (Investigators) | 2010 -13 | 14.88 |
| Simulation and development of flapping mechanism | DRDO | Pruthviraj U. (PI) Srikantha S. Rao S.Srihari | 2010-13 | 17.803 |
| Virtual laboratory (SOM & FM Lab.) – Simulation/ Remote trigger | MHRD | Pruthviraj U. (LC) K.V.Gangadharan (IC) | 2011-13 | 120 (Total 450) |
| Virtual laboratory (SOM Lab.) – Remote trigger | MHRD | Pruthviraj U. (LC) K.V.Gangadharan (IC) | 2011-13 | 50 (Total 100) |

Department of Chemical Engineering

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs.) |
|---|----------------|-------------------------|---|--|
| FIST Programme - Center for Environmental Management and Cleaner Production | DST, FIST | Gopal Mugeraya | 2007-2012 | Rs. 53.50 lakhs. |
| Synthesis of Thermosensitive hydrogels for drug delivery system | DST-Fast Track | P.E. Jagadeesh Babu | Nov.2009 to 2012 | Rs. 18 lakhs |
| Virtual lab-Process Control Reaction Engg. & Unit Operations lab. | MHRD-NMIEICT | Vidya Shetty K. | 2010 to 2012 Extended upto September 2014 | Instt. level Grant Rs. 100 lakhs &Dept. share Rs. 16 lakhs |

| | | | | |
|--|---|--|---|-------------------------------|
| Development of Polyethylene Glycol (PEG) Based Effective Aqueous Two Phase Systems (ATP's) for the Extraction of Value Added Compounds in Large Scale from the Effluent Streams of Fish Processing Industry | Council for Scientific and Industrial Research (CSIR), Govt. of India | PI –I.Regupathi Co PI- Gopal Mugeraya | Jan 2010 to Jan 2013 | Rs. 14 lakhs |
| Studies on Removal of VOC's and NO by Activated Carbon from <i>Anacardium occidentale</i> seed husk in Packed Bed Column | SERC –DST-Fast Track for Young Scientists scheme under Govt. of India | B. Raj Mohan | April 2010 to 2013 | Rs. 25 lakhs |
| Development of Aqueous Two Phase Systems (ATP's) for the Separation of α - Lactalbumin (α - La) and β - Lactoglobulin (β - Lg) from Whey for Large Scale Commercial Applications | Department of Biotechnology (DBT), Govt. of India. | PI –I.Regupathi Co PI- Gopal Mugeraya | Sep 2010 to Sept. 2013 | Rs.26 lakhs |
| Batch and Continuous Photocatalytic Degradation of Azodyes using Ag core-TiO ₂ Shell Structured Nanoparticles in Free and Immobilized Form | DST, Govt. of India, | Vidya Shetty K. | 2011 to 2013(comp leted in November 2013) | Rs. 20.39 lakhs |
| Development of Probiotics for enhanced anti-oxidant availability | The state agency on Science, Innovations and Informatization of Ukraine and Department of Science and Technology (DST), Govt. of India. | PI (India) : Prasanna B.D PI (Ukraine): O. M. Dugan | Oct 2012- Sep 2015 | Rs. 4.5 lakhs |
| Production of n-3 Polyunsaturated Fatty acids concentrate from Sardine Oil | Science and Engineering Research Board (SERB), Ministry of Food Processing Industries (MOFPI). | PI: Prasanna B.D Co-PI: I. Regupathi | Nov 2012- Oct 2014. | Rs. 46.75 lakhs |
| Reverse Micellar Extraction Of Lactoferrin From Whey: Continuous Process | MOFPI Ministry of Food processing Industries, Govt. of India” through DST | PI: I.Regupathi; Co-PI: Prasanna BD | 2013 to 2015 | Rs. 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: Gangamma S. Co-PI: I.Regupathi | March 2013 to March 2016 | Rs. 53 lakhs |
| FIST Level II | DST_FIST | Vidya Shetty K (HOD) Project | Five years (Project to start | Rs.2.2 crores for equipments. |

| | | | | |
|---|--|---|--------------|--------------|
| | | Implementation committee M.B.Saidutta Vidya Shetty K Prasanna B D I Regupati, P.E. JagadeeshBabu | In 2014-2015 | |
| "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: Gangamma S. | 2013 to 2015 | Rs. 51. lakh |

Department of Civil Engineering

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs) |
|---|----------------|--|-------------------------|---------------------|
| Effect of corrosion on residual capacity prediction of RCC beams and beam column joints in coastal environment | BRNS | K Venkataramana K S Babu Narayan M H Prashanth I Gogoi | April 2010 – March 2013 | Rs. 35.35 lakhs |
| Research Collaboration in Structural Engineering | BARC | K Venkataramana K S Babu Narayan | Dec 2012 - Nov 2017 | Rs. 38.18 lakhs |
| Hydrogen Loaded Concrete as Integrated α , β , and γ Radiation Shield | BRNS | M.C.Narasimhan (PI), Katta Venkataramana Satyabodh Kulkarni, N.Satyanarayana K.S.Ravishankar | 2012-15 | Rs.24.1375 lakhs |
| Experimental Investigations on Rutting and Flexural Behaviour of Structural Asphalt Mixes with Warm Mix Asphalt Additives | SERB-DST | Suresha S. N. | Sep. 2013 – Aug. – 2016 | 18.58 lakhs. |

Department of Computer Engineering

Ongoing:

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs.) |
|--|----------------|-------------------------|----------------|----------------------|
| SPFM-Development of Service, Process, Flow Monitor | DST | K.Chandrasekaran | 2 years (2013) | Rs.1,04,71,120 |
| Development of tool for detection of XML based Injection Vulnerabilities in web applications | DIT, MCIT | P. Santhi Thilagam | 2 years | Rs.38,16,000 |

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 | A.V Adhikari, Coordinator and Darshak R. T. as co-coordinator Chemistry Dept. | 2010-2014 5 Years Ongoing | 128 Lakhs |
| Efficiency enhancement in organic photovoltaic devices using donor-acceptor conjugated polymers and plasmonic structures | SERB, DST | Udaya Kumar D | Dec. 2013-Dec.2016 | 25 Lakhs |
| Synthesis of novel nanoporous polymer membranes for desalination | BRNS | Arun M Isloor | 2009-2013 | 35 Lakhs |
| Design and Synthesis of colorimetric chemosensors for Environment Pollutant Cations | DST, New Delhi | Darshak R. Trivedi | Feb – 2014 – Jan -2017 | 25.00 Lakhs |
| Novel nanoporous polymer membranes for controlled release of fertilizer | DRDO | Arun M Isloor & D.R Trivedi | 2009-2013 | 28 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 Joint with IIT Bombay TIFR Bombay NIT Durgapur | 01-01-2014 31-12-2017 | 21.25 Lakhs |
| Secure Turbulence Resistant Free Space Optical (FSO) links for Broadband Wireless Access Networks | DIT, MCIT, Govt. of India | Muralidhar Kulkarni U Sripati | 3 Year (from July 2010) Completed on 31-01-2014 | 116.76 lakhs |

| | | | | |
|---|------------------------------|----------------------------|--|----------------------------------|
| RF MEMS switches for Wideband reconfigurable RF Microsystems | DIT, MCIT, Govt. of India | M.S. Bhat T Laxminidhi | 3 Years (from March 2010) Completed on 31-12-2013 | 175.49 lakhs |
| Special Man Power Development Programme for VLSI Design and Related Software (Phase II) | DIT, MCIT, Govt. of India | Ramesh Kini M. M S Bhat | 2005 - 2012 | 28.3 lakhs (for 3 years only) |

Department of Humanities, Social Sciences & Management

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs) |
|--|----------------|-------------------------|------------------|---------------------|
| Women Entrepreneurship And Tourism Development | ICSSR | Sheena | 2013 - (ongoing) | Rs. 6,00,000/- |
| Mitigation Of Tribal Suicides Through Economic Empowerment | UGC | Sheena | 2014 - (ongoing) | Rs. 6,02,500/- |

Department of Information Technology

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs) |
|--|--|---------------------------------------|--------|---------------------|
| “Content Based Video Copy Detection and Prevention of In-Theater Piracy” | DST Project under Women Scientist Scheme A | G. Ram Mohana Reddy R Roopalakshmi | 3 year | 18,20,000/- |

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 | Three years | 3 lakhs |
| A study on Moore-Penrose in Krein Spaces | NBHM, DAE, Govt. of India | P. Sam Johnson | Three years | 1.89 lakhs |

Department of Mechanical Engg.

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs) |
|---|---|---|------------------------------|-------------------------------|
| Virtual Lab | NMEICT | K V Gangadharan Panduranga Vittal Vidhya Shetty Pruthviraj | 2010-2014 | 450 Lakhs |
| Remote triggered Lab | NMEICT | K V Gangadharan Ravikiran Kadoli Pruthviraj | 2012-2014 | 100 Lakhs |
| Centre for System Design | NI and MHRD/NITK | K V Gangadharan | 2010-2015 | 500 Lakhs |
| Design, Fabrication and Characterization of Magneto-Rheological (MR) Dampers for Industrial Applications | DST | Hemantha kumar | 3 years | 23 Lakhs (Awaiting for Funds) |
| Investigation of machining characteristics of TiNi based Shape Memory alloy using Wire-EDM | SERB | Narendranath S | March 2014-March 2016 | 16.32Lakhs |
| Investigation on Passive Damping Capability of Natural Fiber Reinforced Composite and Visco-elastic Sandwich Structure | DST - SERB | P. Jeyaraj | January 2013 to January 2016 | 11.39 Lakhs |
| Development of HVOF sprayed cermets coatings in improving resistance to hot corrosion and erosion of gas turbine alloys | All India Council for Technical Education | Ramesh M.R. | 2013-2016 | 18,10,000 |
| Vibration based structural health monitoring and progressive failure analysis of a rotating tapered composite plate | Central Govt. Body | P. Jeyaraj | March 2013-'16 | 8 Lakhs |

Department Of Mining Engineering

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs) |
|--|---|-----------------------------|----------------------|---------------------|
| Assessment of Performance of Explosives/Blast results based on Explosive Energy Utilization. | Coal India Ltd. | V.R. Sastry& K. Ram Chandar | 2010-2013 | Rs.1.234 Crore |
| Modeling of Airborne Dust In Opencast Coal Mines | Ministry of Coal, Govt.of India. | V.R Sastry & K Ram Chandar | 2011-2014 | Rs.81.07 Lakhs |
| Study For Utilization Of Fine Material Of Mine Waste | M/S. Sandur Manganese And Iron Ore Limited, | M.Aruna And HarshaVardhan | 2 Years (2013-2015). | 14.3 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 K. L. Bhat K. R. Udupa Jagannath Nayak | 2005 - 2012 | 22.0 Lakhs |
| Preparation of Preformed Yarn to Synthesize C-C composite | DRDO | A. O. Surendranathan, Ravishankar K.S. & Padmayya Naik | 2010-14 | 21.78 lakhs |

Department of Physics

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs) |
|---|----------------|-------------------------|---------|---------------------|
| Mechanical & Thermal properties of B_4C | UGC-DAE CRS | Ajith K.M | 3 years | 10 Lakhs |

13.2 PROPOSED PLAN FOR RESEARCH

Department of Chemical Engineering

| New Labs / Equipment | Target for Sponsored R&D projects | New Areas of Research | Institutions/Organisations for future collaborations |
|--|-----------------------------------|---|--|
| Environmental Immunology | 2-3 numbers | Environmental Health | NIV Bangalore, IIT Kanpur, SDS-TRC & RGICD Bangalore, IISER Bhopal |
| Advanced instruments sanctioned under DST – FIST-2013 ICP-OES, LC-MS FPLC, Nanoparticle size analyzer with zeta potential, BET-surface area analyzer, Bioreactor, French Press, High Speed refrigerated Centrifuge | | The instruments to be procured under FIST will support the research areas such as Industrial Biotechnology, Downstream processing, Environmental Biotechnology, nanoparticle synthesis and applications | |
| | | New area: Heterogeneous catalysis for energy production- proposer: Dr. Vidya Shetty K, Associate Professor | Plan for collaborations with Department of Chemical and Materials Engineering, University of Alberta, Edmonton, Canada |
| | MOEF-BRNS- | Semiconductor Quantum Particles | North-West University, Johannesburg, South Africa. |

Department of Civil Engineering

| New Labs/Equipment | Target for Sponsored R&D projects | New Areas of Research | Institutions/or ganizations for future collaborations |
|--|-----------------------------------|---|---|
| Modular Rheometer Pressure Aging Vessel Rotational Thin Film Oven CAD Laboratory Gas Chromatograph | | Rheological properties of asphalt and cement materials. Bio-methane Potential from Anaerobic Co-digestion of Solid waste | Trinity College, Dublin, Ireland.National University of Singapore, Singapore. Nanyang Technological University, Singapore. INRA-LBE, France Biomass conversion research laboratory (Department of Chemical Engineering & Material Sciences), MSU, USA. Department of Civil and Environmental Engineering, Michigan State University, USA. |

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 | 10T systems Architecture | Some foreign universities and/or IITs/IISc. |
| Cyber-Physical Systems | CSIR | Resource Management | Some foreign universities and/or IITs/IISc. |
| Cyber Security | DIT | Multimodel visual Security | Some foreign universities and/or IITs/IISc |

Department of Chemistry

| New Labs/ Equipment | Target for sponsored R&D Projects | New Areas of Research | Institutes/Organizations for future collaborations |
|---|---|---|--|
| Solar Stimulator with facilities for PV studies | New Organic Materials for Solar Cell applications | Solar Cells | - |
| Catalysis and Materials Lab | DIT | Carbon nanostructures for electrochemical supercapacitors, biosensors | SENS, IISc-Bangalore IISER, Trivandrum |
| 500 MHz NMR Instrument | DST FIST Second phase | 500 MHz NMR Instrument | DST FIST Second phase |

Department of Electrical And Electronics Engineering

| New Labs/Equipment | Target for Sponsored R&D projects | New Areas of Research | Institutions/organizations for future collaboration |
|--|---|------------------------------|--|
| Procurement of 16channel simultaneous ADC and DAC cards, | In the area of Power Systems, renewable energy sources, smart grids, sensing and control. | System sciences and control: | CPRI Bangalore, PRDC Bangalore, MRPL Mangalore, Indian Naval Academy (INA) Payyanur |
| Procurement of FPGA boards and Three-phase Inverters | | | |

Department of Electronics And Communication Engineering

| New Labs/Equipment | Target for Sponsored R&D projects | New Areas of Research | Institutions/organizations for future collaborations |
|---|---|--|---|
| Microwave CAD Lab Optical Communications Lab Audio Visual and Analytics Lab | Each faculty to have atleast one Sponsored R&D projects | MIMO Systems Free Space Optics Medical Imaging | USC, Los Angeles, USA IIT Bombay, India Michigan State University, USA University of Colorado, Colorado Springs, USA Chicago University, USA Mcmaster University, Canada |

Department of Humanities, Social Sciences and Management

| Name of the Lab/Equipment | Target for sponsored R&D Projects | New Areas of Research | Institutes/Organizations for future collaborations |
|---------------------------|-----------------------------------|-----------------------|---|
| Language Lab | Two | Manuscript Studies | Columbia University University of Texas at Austin, USA University of Nebraska |

Department of Information Technology

| New Labs/Equipment | Target for Sponsored R&D projects | New Areas of Research | Institutions/organizations for future collaborations |
|---|-----------------------------------|-----------------------|--|
| Cluster Computing (HPC) Social Networks VR Lab / Computer Vision Data Mining / Warehouse HCI Network Design | IBM, HP India Innovation Lab | HPC HCI MMVR | MICT, DST, BRNS, ISRO, HP Research Lab |

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 | Aero-elasticity | 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 | 19.70 Lakhs | Slope stability | CIL |
| Development of Mine Safety & Health | 14.00 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 |
|---|--|---|--|
| Surface Engineering Laboratory | To get at least one sponsored R&D project per year | Nano Technology Composites Surface Engg. Smart Materials Data base on liquid Quenchants Wetting/ dewetting of liquids Hydrodynamic stability Shape Memory Alloys | Indira Gandhi Centre for atomic Research, Kalpakkam Indian Institute of Science, Bangalore National Aeronautics Ltd., Bangalore Hindustan Aeronautics Ltd., Bangalore Jindal South West, Vijayanagar International Federation of Heat Treatment and Surface Engineering (IFHTSE), UK Kennametal Ltd., Bangalore Thermet Solutions (P) Ltd., Bangalore Tata Institute of Fundamental Research, Hyderabad IIT Hyderabad |
| Facility for assessment of health of quenchants | | | |
| High performance workstation | DST Start up grant | | |
| Intel Fortran compilers | BARC Young scientist start-up grant | | |

TECHNICAL PAPERS PUBLISHED IN REFEREED JOURNALS

Table: List of publications during the period under report

| Sl. No. | DEPARTMENT | PUBLICATIONS | | | | | |
|--------------------|--|-----------------------------|---------------------|-----------------------------|------------------------|------------|--|
| | | International al Journal | National Journal | International Conference | National Conference | Total | |
| 1 | Applied Mechanics & Hydraulics | 20 | 3 | 20 | 38 | 81 | |
| 2. | Chemical Engineering | 42 | 1 | 5 | 1 | 49 | |
| 3. | Chemistry | 52 | -- | 13 | 3 | 68 | |
| 4. | Civil Engineering | 40 | 10 | 24 | 15 | 89 | |
| 5. | Computer Engineering | 6 | -- | 19 | -- | 25 | |
| 6. | Electrical and Electronics Engineering | 9 | 1 | 18 | 2 | 30 | |
| 7. | Electronics & Communication Engineering | 11 | 1 | 16 | 2 | 30 | |
| 8. | Humanities, Social Sciences and Management | 14 | 7 | 13 | 3 | 37 | |
| 9. | Information Technology | 9 | -- | 16 | -- | 25 | |
| 10. | Mathematical and Computational Sciences | 28 | -- | 6 | -- | 34 | |
| 11. | Mechanical Engineering | 52 | -- | 44 | 4 | 100 | |
| 12. | Metallurgical And Materials Engineering | 49 | 2 | 12 | -- | 63 | |
| 13. | Mining Engineering | 7 | 3 | 4 | 5 | 19 | |
| 14. | Physics | 5 | -- | 5 | -- | 10 | |
| Grand Total | | 344 | 28 | 215 | 73 | 660 | |

INTERNATIONAL JOURNAL :-

Department of Applied Mechanics And Hydraulics

| Sl. No. | Title of paper | Journal name, Vol. Issue, Page No.s | Author(s)* |
|---------|--|---|--|
| 1. | Software for analysis and design of concrete sheet pile quay wall with relieving platform—RELPT6.0 | International Journal of Innovative Research in Science, Engineering and Technology, Vol. 2, Issue 3, March 2013 | Binumol H, Subba Rao and Arkal Vittal Hegde |
| 2. | Artificial neural network simulation of ground water levels in uplands of a coastal tropical riparian wetland | International Journal of Water Resources and Environmental Engineering, Vol. 5(9), pp. 499-505, September, 2013 | Shivakumar. J Nyamathi, Bharath. R, and A Vittal Hegde |
| 3. | Overview of Regional Flood Frequency Analysis | <i>International Journal of Earth Sciences & Engineering</i> , 06- 5(1), October 2013 | Manoj Mujumdar and L. Nandagiri |
| 4. | Vegetation dynamics in a tropical river basin inferred from MODIS satellite data | <i>International Journal of Earth Sciences & Engineering</i> , 06(6), Dec. 2013 | Keerthi Laxmi, L. Nandagiri |
| 5. | Performance of Submerged Reef of Concrete Cubes | International Journal of Chemical, Environmental & Biological Sciences (IJCEBS), Volume 1, Issue 4, 651-654. | Manu, Subba Rao and Kiran G. Shirlal |
| 6. | Geomorphology and Hydrogeology of coastal tracts of the central west coast of India | Int. J. Earth Sciences & Engineering, 6(5), 964-971 | Honnaganoudar, S.S., D. Venkat Reddy and A.Mahesha |
| 7. | Saltwater intrusion in coastal aquifers subjected to freshwater pumping | J. Hydraulic Engg., ASCE, 19(2), 448-456. | A.Mahesha & P. Lakshmikanth. |
| 8. | Wave transmission of submerged inclined serrated plate breakwater | International Journal of Chemical environmental and Biological Sciences (IJCEBS), Vol 1, Issue 4 (2013) ISSN 2320-4079; EISSN2320-4087, pp 665 –668 | Kiran G. Shirlal |
| 9. | Review on Applications on Neural Networks in Coastal Engineering | International Journal of Artificial Intelligence Systems and Machine Learning, Vol. 5, No. 7, pp. 324-331. | Rakshith, S. and Dwarakish, G. S. |
| 10. | Prediction of Tides using Neural Networks at Karwar, West Coast of India | Development and Applications of Oceanic Engineering, Vol. 2, No. 3, pp. 77-85 | Rakshith, S. and Dwarakish, G. S. |
| 11. | Different Approaches for Land Use Land Cover Change Detection: A Review, Research and Reviews | Journal of Engineering and Technology, Vol. 2, No. 3, pp. 44-48. | Ganasri BP, Raju A, and G S Dwarakish |
| 12. | A Comparative Analysis of Histogram Equalization based Techniques for Contrast Enhancement and Brightness Preserving | International Journal of Signal Processing, Image Processing and Pattern Recognition, Vol. 6, No. 5, pp 353-366. | Raju.A., Dwarakish G.S. and D Venkat Reddy |

| | | | |
|-----|--|---|---|
| 13. | A state-of-the-art and comparative analysis of mean brightness preserving histogram equalization based contrast enhancement techniques | <i>Intl. Journal of Remote Sensing and GIS</i> , Vol.2, No.1, pp. 41-51. | Raju.A., Dwarakish G.S. and D Venkat Reddy |
| 14. | Multistep leadtime forecasting of hydrologic time series using Daubechies wavelet-Neural network hybrid model | International journal of Scientific and Engineering Research (IJSER), ISSN No.2229-5518(October), vol.4, no.10, Impact Factor =1.4 pp.115-124 | Khandekar Sachin Dadu and Paresh Chandra Deka |
| 15. | Fuzzy system modeling for forecasting water quality index in Municipal Distribution system | Urban Water Journal , Published online 20 th August-2013,pp.1-22.ISSN-1573-062X(Print),1744-9006(online)vol.10(6) Taylor and Francis group-Impact factor-1.19 | Vinayak k Patki, S Srihari, B Manu, Paresh Chandra Deka |
| 16. | Modeling of weekly mean air temperature using fuzzy system in Mangalore city | International journal of Environmental Research and Development(IJERD),ISSN No.2249-3131(special issue),vol.3,no.7,pp.60-63 | Suresh Sharanappa Dodamani and Paresh Chandra Deka |
| 17. | Support Vector Applications In The Field Of Hydrology-A Review | Applied Soft Computing (ELSEVIER),19(2014),pp.372-386 | Sujay Raghavendra and Paresh Chandra Deka |
| 18. | Analysis of southwest monsoon rainfall trend analysis using statistical techniques over Nethravathi basin | International Journal of Advanced Technology in Civil Engineering, ISSN: 2231 –5721, Volume-2, Issue-1, pp 130-136 | Santosh Babar and Ramesh H. |
| 19. | Analysis of monsoon onset trend and extreme rainfall events over Nethravathi river basin | ISH Journal of Hydraulic Engineering, PP-1-10. (Taylor and Francis), 2014 | Santosh Babar and H. Ramesh |
| 20. | Comparative analysis of ET _o using AWS data | International Journal of Earth Science & Engineering, Vol.05 No 4(02) 2012, pp 1015-1019 | B.M.Dodamani and Shweta |

Department of Chemical Engineering

| Sl. No. | Title of Paper | Journal Name, Vol., Issue, Page Nos. | Author(s)* |
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| 1 | Conceptual Framework to Investigate Accessibility and Impact of Financial Inclusion | Indian Journal of Research, Vol.2, Issue 2 , 47-49. | Manohar V. Serrao, Sequeira A. H. and Varambally K.V.M |
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| 2 | Effect of Berm Width on Stability of Slopes- A case Study. | Minetech Journal, Vol. 34, No. 2, June- 2013, 3-12. | V.R. Sastry& Dr. K. Ram Chandar |
| 3. | A study of penetration rate using Jack hammer | Institution of Engineers(India) Oct,2013, 25-26 | Ch.S.N. Murthy, Co-author Vijay Raghavan |

Department of Metallurgical And Materials Engineering

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| 2 | Effect of Centrifugal Force and Addition of Modifier on Morphology and Distribution of Eutectic/Primary Silicon in Hypereutectic Aluminium-Silicon Alloy A390 | Indian Foundry Journal 59(7) 2013 31-35 | Mahesan V.P., K. N. Prabhu and T.P.D. Rajan |

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| 2. | Application Oil Spill Trajectory Analysis for East Coast of India using GNOME | International Short Conference on Extreme Value Analysis and Application to Natural Hazards (EVAN2013), University of Siegen, Germany, 2013. | Hegde, A.V., and Labeeb C K |
| 3. | Wave Structure Interaction for Submerged Quarter Circle Breakwaters of Different Radii Reflection Characteristics | WASET, Issue 79, pp 1334-1338 held in Zurich, Switzerland, 2013 | Arkal Vittal Hegde and L. Ravikiran |
| 4. | Performance of Submerged Reef of Concrete Cubes | International Journal Conference on Transport and Civil Engineering – 2013, Dubai (UAE), Oct. 4-5, 2013 | Manu, Subba Rao and Kiran G. Shirral |
| 5. | Investigation On Berm Breakwaters Using Concrete Cubes As Armour Units | XVIII International Conference on "Hydraulics, Water Resources, Coastal and Environmental Engineering- HYDRO 2013" organized by IIT Madras, Chennai from December 4-6, 2013, 212-219 | Geetha Kuntoji, Subba Rao and Prashanth J |
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| 7. | Planning and design of a new fishery harbour along Dakshina Kannada coast | HYDRO INTERNATIONAL, Dec 4-6, 2013, IIT Madras, pp 71-79. | Dilba R. K and Kiran G. Shirral |
| 8 | 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 |
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| 16 | Wetland mapping and change detection using remote sensing and GIS | Int. conf. & exhibition on water, wastewater and isotope hydrology (ICE-WWISH 13), 25-27, July 2013. UVCE, Bangalore, India. Pp 187-191. | Kavyasee and Ramesh H. |
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| 18 | Generation of intensity duration frequency curve for Mangalore and Udupi District of Karnataka by using hourly rainfall data | International Conference & Exhibition on Water, Wastewater & Isotope Hydrology (ICE-WWISH 2013), 25-27 th July 2103, pp 148-153 | Ashish Saxena & B.M. Dodamani |
| 19 | Synthesis and characterization novel PVDF/ Nanofibre membrane and its possible applications for heavy metal rejection | 11 th International Conference on Membrane Science and Technology 2013, Kuala Lumpur 27 th -29 th August 2013 | Avin J Kajekar, B.M. Dodamani, Arun Isloor, & Rajesh A |
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| 2 | Selenium and Lead Tolerance in Marine Aspergillus Terreus for Biosynthesis of Nano Particles- Quantum Dots/Rods | International Conference on Civil, Biological and Environmental Engineering, November 2013, Bangkok, Thailand | Jaya Mary Jacob, Raj Mohan B, Soubhik Kumar Bardan, P E JagdeeshBabu, M Aruna |
| 3 | Oxygen uptake rate of <i>Heterorhabditis bacteriophora</i> culture in bioreactor | 13th workshop of the IOBC global working group on mass rearing and quality assurance (IOBC-MRQA)-2013 Bangalore, India, Paper No. S2.08, November 6-8. | Prasanna D. Belur, Floyd Inmann III, Len Holmes. |
| 4 | Chitosan Synthesis through Enzymatic route. EEMR- 2013, August 11-13, Bhubaneshwar | EEMR, August 11-13, Bhubaneshwar | Ritu Raval, Keyur Raval, Bruno Moerschbacher |
| 5 | Characterization and Application of Novel Disposable Shaking Bioreactors | Asian Congress on Biotechnology 2013. New Delhi, December 15-19, 2013 | Keyur Raval, Jochen Buechs |

Department of Civil Engineering

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| 1 | Production of biogas from Co-digestion of Food Waste and Wasted Sewage Sludge from NITK Campus- A Case Study | International Conference on Harnessing Technologies, Caledoniean College of engineering, Oman (Dec. 2-3, 2013) | Arun Kumar Thalla and Rahul Gautham |
| 2 | Geo-Spatial Ground Water Quality Mapping and Assessment of Mining Region – A Case Study | 18th International Conference on Hydraulics and Water Resources (HYDRO -2013), IIT-MADRAS, INDIA (Dec 4-6, 2013) | Sudhakar singha, Sowmya, Devatha Chella and Arun Kumar Thalla |
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| 4 | The Influence of a Grounded Ship on Shoreline Changes Off Goa Coast | 34th International Coastal Engineering Conference, June 15-20, 2014, Seoul, South Korea | C.Rajasekaran, S. Jayakumar, R.Manimurali and R. Gowthaman |
| 5 | Geotechnical Properties of Mine Tailings - A laboratory Study | Minamata Int. Symposium on Environment and Energy Technology, Dec. 4-6,2013, (MISSION 2013), Kumamoto University Japan. | Manjunath L.S and Sunil B.M |

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| 7 | Alkali-activated binder systems for pavement quality concrete | VIII CUTSE International Conference, Miri, Sarawak, Malaysia, 3-4, Dec 2013 | Manjunath S.B., Ravishankar A.U and Narasimhan M.C |
| 8 | Alkali-activated binder systems for pavement quality concrete using Dredged marine sand as fine aggregate | Minomata International SympoSiUm on Environment and Energy Technology (Mission 2013), Kumamoto, Japan, 4-6 Dec 2013 | Manjunatha S.B., Ravishankar A.U., and Narasimhan M.C |
| 9 | River Morphological Changes With Emphasis On Depth And Flow Interactions | 18th International Conference on Hydraulics and Water Resources (HYDRO -2013), IIT-MADRAS, INDIA (Dec 4-6, 2013) | Ashay Shende, A.D. Vasudeo and C. P. Devatha |
| 10 | Soil moisture uptake under different salinity levels for paddy crop | 2nd International Conference on Agricultural & Horticultural Sciences February 03-05, 2014, Hyderabad, India (OMICS Group) | Devatha, C. P. |
| 11 | Sma mixtures with modified asphalt and treated aggregates | 2nd T&DI Congress, ASCE, 2014 June 8-11, Orlando, Florida | Goutham Sarang, Lekha B M, Monisha M and Ravi Shankar A U |
| 12 | Evaluation of the effect of soil-structure interaction on the raft of tall reinforced concrete chimneys under across wind load | Proc. of the 8th Asia-Pacific conf. on wind engineering (APCWE-VIII), Chennai | S. V. Jisha, B. R. Jayalekshmi and R. Shivashankar |
| 13 | Seismic analysis of chimneys on pile raft foundations considering the flexibility of soil | Proc. of the fourth Intl. Joint conference on advances in engineering and technology, AET 2013 | S. V. Jisha, B. R. Jayalekshmi, R. Shivashankar and S. Soorya Narayana |
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| 18 | Modeling Unique Merging Behavior under Mixed Traffic Conditions | 93rd Transportation Research Board Annual Meeting 2014, Washington D.C, USA | Venkatesan Kanagaraj, Karthik K. Srinivasan, Sivanandan, R. and Gowri Asaithambi . |

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| 20 | Carbon Footprinting of Cement Industry | Proceedings of the International Conference on Impact of Climate change on Food, Energy and Environment | J Sunil Kumar and S. Shrihari |
| 21 | Studies on utilization of quarry dust to improve the geotechnical properties of lithomargic clay | International Symposium on Environment and energy technology, Kumamoto University, Japan, 4-5 Dec., 2013. | Purushotam G Sarvade and Sitaram Nayak |
| 22 | Applications of dampers for vibration control of structures: An overview | Proc. of International Conference on Recent Innovations in Civil Engineering, held at Gulbarga, India during Oct 25-27, 2013 | Umachagi V, Venkataramana K, Reddy G R and Verma R |
| 23 | Free Vibration Analysis of Single and Multilayered Sandwich FGM Plates - Assessment of Higher Order Refined Theories | Proc. 2013 International Conference on Material Science and Mechanical Engineering (ICMSME 2013), Kuala Lumpur, MALAYSIA, Oct. 27-28 | Swaminathan K. and Naveenkumar D. T |
| 24 | Performance of Aerobic Hybrid Reactors (connected in-series) in treating Molasses based wastewater | 6th IWA International Specialized Conference on Sustainable Viticulture (WINERY, 2013), May 26-30, 2013, Narbonne, FRANCE. | Arun Kumar Thalla and Devatha C P |

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| 1. | Effectiveness of SIP messages on SIP server | IEEE conference on Information and Communication Technology (ICT-2013) on 11 April 2013 | Prashant Kulkarni, Mr. Alwyn Pais, Abhishek Bansal |
| 2. | Mitigation of Flooding Based Denial of Service Attack against Session Initiation Protocol Based VoIP System | Communicated | Abhishek Bansal, Alwyn R. Pais |
| 3. | Load Balancing of virtual Machine Resources in Cloud Using Genetic Algorithm | 7 th Int. Conf. on Communication Networks, August 9-11, 2013, Bengaluru | Chandrasekaran K., Usha Divakarla |
| 4. | Scalable Group Key Distribution Scheme Based on Chinese Remainder Theorem | 3 rd International Conference on Security, Privacy, and Applied Cryptography Engineering (SPACE-2013) IIT Kharagpur, Oct 19-23, 2013 | Aakash Dhorajiya, Alwyn R. Pais |
| 5. | Data reduction by removal of lurkers in OSN | TENCON 2013 – 2013, IEEE Region 10 Conference, Xian China, October 22-25, 2013 | Sumit Nireshwalya, Annappa B., Swapan Bhattacharya |
| 6. | Key Update Mechanism in PKI: Study and a New Approach | 2 nd International Conference on Advanced Computing, Networking and Security (ADCONS 2013), 15-17 Dec. 2013 | Spoorthi, V., Balaji R., Chandrasekaran K. |

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| 7. | Performance Comparison of Executing Fast Transactions In Bitcoin Network Using Verifiable Code Execution | 2 nd International Conference on Advanced Computing, Networking and Security December 15 - 17, 2013 | Prabhjot Singh, B.R. Chandavarkar |
| 8. | SIP Security Analysis on IPv4 - IPv6 based VoIP Network and It's Security Impact on SIP | 2 nd International Conference on Advanced Computing, Networking and Security December 15 - 17, 2013, | Ganesh Sonwane, B.R. Chandavarkar |
| 9. | Emulating a High Interaction Honeypot to Monitor Intrusion Activity | International Symposium on Security in Computing and Communications, SJCE Mysore, SSCC - 2013 | Anil Gopalakrishna, Alwyn R. Pais |
| 10. | Analysis of Cautious Adaptive RED (CARED) | Second International Conference on Advances in Computing, Communications and Informatics (ICACCI 2013) | Mohit P. Tahiliani, K. C. Shet |
| 11. | A Hybrid model for Rician noise reduction in MRI | Second International Conference on Advanced Computing, Networking and Security (ADCONS 2013, IEEE), pp: 58-61, 2013 | Sudeep P.V, Palanisamy P, Jeny Rajan |
| 12. | A new non local maximum likelihood estimation method for denoising Magnetic Resonance images | In: P. Maji et al. (Eds.): PReMI 2013 (ISI Calcutta), LNCS 8251, pp. 451–458, 2013, Springer, Heidelberg (2013) | Jeny Rajan, Arnold J. den Dekker, Jaber Juntu and Jan Sijbers |
| 13. | Agent-Based Cloud Broker Architecture for Distributed Access Control | Seventh International Conference on Communication Networks (ICCN-2013), Bengaluru | Manoj V. Thomas, K. Chandrasekaran |
| 14. | Agent-Based Approach for Distributed Access Control in Cloud Environments | Second IEEE International Conference on Advances in Computing, Communications and Informatics (ICACCI-2013), Mysore, India. | Manoj V. Thomas, K. Chandrasekaran |
| 15. | Wokflow Model for Distributed Access Control | Third IEEE International Conference on Advances in Computing and Communications (ACC-2013), Cochin, India. | Manoj V. Thomas, K. Chandrasekaran |
| 16. | An Access Control Model for Cloud Computing Environments | Second IEEE International Conference on Advanced Computing, Networking and Security (ADCONS-2013), Surathkal, India. | Manoj V. Thomas, K. Chandrasekaran |
| 17. | Performance Evaluation of CoDel for Active Queue Management in Wired-Cum-Wireless Network | Fourth International Conference on Advanced Computing and Communication Technologies (ACCT 2014) | Tarun Jain, Annappa B, Mohit P. Tahiliani |
| 18. | 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 |

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| 19. | 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 |

Department of Chemistry

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| 1. | Effect of organic additives on deposit characters of Zn-Ni alloy, | National Conference on 'Emerging trends in chemical research (NCETCR-2012)' held at Gitam University, Visakhapatnam during 7-8 th September, 2012. | Vaishaka R. Rao and A. Chitharanjan Hegde, |
| 2. | Synthesis, characterization and liquid crystalline behavior of new methoxy pyridines carrying terminal alkoxy pendent and polar nitrile group. | International Conference on Recent Advances in Material Science and Technology - 2013 (ICRAMST - 13), National Institute of Technology Karnataka, Surathkal, January 17-19, 2013 | Ahipa. T. N., Vijith Kumar, Doddamane S. Shankar Rao, Subbarao Krishna Prasad and Airody Vasudeva Adhikari. |
| 3. | New imidazo[1,2-a]pyridine derivatives: Synthesis and antiepileptic studies." International Conference on Recent Advances in Material Science and Technology | International Conference on Recent Advances in Material Science and Technology - 2013 (ICRAMST - 13), National Institute of Technology Karnataka, Surathkal, January 17-19, 2013 | Shrikanth Ulloora, Ramakrishna Shabaraya, Airody Vasudeva Adhikari |
| 4. | Synthesis, characterization and anti-tumor activity of some new indole based molecules. | M E D C H E M 2 0 1 3 , "Advances in Anticancer Drug Discovery & Development." IIT Madras, 25-26 October, 2013. | Nikhila G. and Udayakumar D. |
| 5. | Synthesis, characterization and antimycobacterial activity studies of some novel pyrazoles containing triazole moiety. | International Symposium on Chemical Biology-Drug Discovery Programme, Mysore University, 9 January 2014. | Nagabhushana N, Ramaprasad J and Udayakumar D. |
| 6. | Synthesis, characterization and evaluation of some indole-quinazolinone hybrids as cytotoxic agents. | International Symposium on Chemical Biology-Drug Discovery Programme, Mysore University, 9 January 2014. | Nikhila G. and Udayakumar D. |
| 7. | Synthesis and evaluation of optical and electrochemical properties of a new conjugated polymer containing substituted thiophene and non-conjugation linkers. | International conference on OPTICS 14, Calicut, 19-21 March 2014. | Prashanth Kumar K R, Udayakumar D, Siji Narendran N K and Chandrasekharan K. |
| 8. | Chitosan and its derivatives as potential materials for membrane technology | 11 th International conference on Membrane Science & Technology, Kulalampur-Malaysia, 27-29 th August, Pg No 12. | Arun M. Isloor |

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| 9. | Synthesis and characterization of novel PVDF/PANI nanofiber membrane and its possible applications for heavy metal rejection | 11 th International conference on Membrane Science & Technology. Kulalampur-Malaysia, 27-29 th August, Pg No 94. | Avin J. Kajekar, B.M. Doddamani, Rajesh Kumar & Arun M. Islor |
| 10. | Study of PPEES/Chitosan composite membrane crosslinked with TPP | 11 th International conference on Membrane Science & Technology. Kulalampur-Malaysia, 27-29 th August, Pg No 102. | Seema shenvi, A.F. Ismail, Arun M. Islor |
| 11. | “Isentropic Compressibility, Partial Molar Volumes and Partial Molar Isentropic Compressibility of Betaine in Aqueous MgCl ₂ Solutions.” | International Conference on Recent Advances in Material Science and Technology-2013, National Institute of Technology Karnataka, Surathkal. | Karanth, V. R., Bhat, D. K. |
| 12. | Development of high performance Ni-Cd coatings by magnetoelectrolysis- A New Approach. | 11 th ISEAC-DM 2014, the International meet on <i>Electrochemistry and its applications'</i> organized by ISEAC, BARC, at Amritsar during 20 th -25 th February, 2014 | Vaishak and A C Hegde |
| 13. | ICT based Colometric Receptor for F ⁻ ion and Cu ²⁺ ion with molecular Logic Operations and Solvatochromism | International conference on “Frontiers in Energy, Environment, Health & Materials Research” EEMR-2013 at CSIR-Institute of Minerals & Materials Technology, Bhubaneswar, Odisha during August 12-13, 2013 | Madhuprasad, Darshak R. Trivedi* |

Department of Electronics And Communication Engineering

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| 1. | Gaussian Approximation using Integer Sequences | International Symposium on Signal Processing and Intelligent Recognition Systems, Trivandrum, India, March 2014 | A. Rajan R V Rao A Rao H S Jamadagni |
| 2. | Prediction of exons by using parametric approach | International Symposium on Bioinformatica Indica organized by Department of Computational Biology and Bioinformatics, University of Kerala, Tiruvananthapuram held during 09-11 Jan 2014. | G N Satapathi A.Narasimhdhan P.Srihari |
| 3. | DNA Compression using compressed sensing algorithms | International Symposium on Bioinformatica Indica organized by Department of Computational Biology and Bioinformatics, University of Kerala, Tiruvananthapuram held during 09-11 Jan 2014. | D. Lakshmi Mythri S.Sreedevi P.Srihari |
| 4. | Stereovision based 3D hand gesture recognition for pervasive computing applications | International Conference on Information, Communication and Signal Processing (ICICS 2013), Tainan, December 2013. | Vikram Shenoy H Pankaj Bongale Vineet Roy Sumam David |

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| 5. | Development and Performance Evaluation of PSO based adaptive mismatch filter for radar pulse compression | International Radar Symposium India- 2013(IRS1-13) held during December, 10- 14, 2013, Bangalore sponsored by IEEE Bangalore Section. | P.Srihari K.Raja Rajeswari |
| 6. | Doppler Performance Evaluation of Different Frequency Coded Pulse Compression Sequences | International Radar Symposium India- 2013(IRS1-13) held during December 10- 14,2013,Bangalore sponsored by IEEE Bangalore Section. | P.Srihari, G N Satapathi, B. Sasi kanth S.Sreedevi |
| 7. | On the Improved Performance of Luby Transform codes over Selective Repeat ARQ in Turbulent Free Space Optical Links | 13th IEEE International Symposium on Advances in Computer and Information Technology. Sydney, Australia Dec. 3-5, 2013. | G.Prakash M.Kulkarni S. Acharya |
| 8. | A Fourth-order Partial Differential Equation model for multiplicative noise Removal in Images | Proceedings of C2SPCA (IEEE), 10-11 Oct, 2013, Bangalore, India. | Bini A.A M.S. Bhat |
| 9. | A Variable Length Distributed Source Coding Algorithm for WSNs | Proceedings of International Conference on Emerging Trends, Technology and Research, (ICETTR 2013), 21st and 22nd September 2013, Nagpur, Maharashtra. | K S Shivaprakasha Muralidhar Kulkarni |
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| 14. | Utility of image processing on MRI scan for early detection of Alzheimer’s Disease | International Engineering Symposium (IES 2013), Kumamoto University, March 2013 | Chetan Patil Madhumitha S Mathura M. G Varun V. Nayak Sumam David S, Merwyn Fernandes Anand Venugopal B. Unnikrishnan |
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| 3. | Innovation and Competitive Advantage Marico | International Conference on Best Organisational Practices, 22 Feb 2014 | Bijuna C. Mohan, Ranjith V. K. |
| 4. | Impact of Policies Unsustainability of MSME sector in Select States of India | 11th Nirma International Conference of Management on New Perspectives of Finance and Changing Economics Scenario, Jan 9-11, 2014 | Sumukh S. Hungund and Kiran K.B. |
| 5. | Personality and investment decision making of individuals | 13 th Consortium of Students in Management Research – COSMAR conference, Nov. 14 th & 15 th , 2013, (CD-ROM), Dept. of Management Studies, Indian Institute of Science, Bangalore. | Shetty S., Kiran K.B.,& Sridhar, S. |
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| 7. | Anomalies in Maturity Gap: Evidence from Scheduled Commercial Banks in India | SIMSARC'13, Symbiosis Institute of Management Studies, 12th & 13th December | Krishna Prasad and Suprabha K. R |
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| 10. | Interaction effects of teachers' job involvement on participation in technical decisions and organizational citizenship behaviour | International Conference on Business Analytics and Intelligence (BAI), Organizing by Indian Institute of Management Bangalore (IIMB), India. Dec 11-13, 2013. | S. Pavan Kumar, Prof. Vijai N. Giri |

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| 12. | Policy Implications of Public Discussions on E-petition Initiatives: Indian Context | International Symposium of Information Systems (ISIS), Indian school of Business, Hyderabad, January 3-4, 2014, T4. 1-6 | Sreejith Alathur |
| 13. | Understanding the Influencing & Motivating Factors behind Buying Patterns of Indian Rural Consumers: An Analysis | 2014 Annual Conference of the Emerging Markets Conference Board, IIM Lucknow (Noida Campus), 9-11 January 2014 [under review for publication in journals] | Sharma P. (ASB, Bangalore), Savita Bhat |

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| 2 | Semantic Image Retrieval System Based on Object Relationships | 2 nd International IEEE Conference on Image Information Processing (ICIIP), 2013, Jaypee University of Information Technology, Shimla, Himachal Pradesh, pg 418 – 423, Dec 9 -11, 2013, | Shashank Shivakumar, Dr. Ananthanarayana V.S., Nikhil Goel, Cilson Cyriac, P.Rajaram |
| 3 | A Novel Approach to Uniformly Distribute the Load in WSN Routing Protocol LEACH | UACEE 2nd Int. Conf. on Advances in Computing and Commn (ICACC-2013),pg 52-56 | Rahul Y, Nitish S, Prajna P Bhat, Suresh P, G Ram Mohana Reddy |
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| 11 | A Novel Technique for Efficient Text Document Summarization as a Service | Third International Conference on Advances in Computing and Communications (ACC-2013) , Rajagiri School of Engineering & Technology, Cochin, Kerala, India. 29 - 31 August 2013 | Anusha Bagalkotkar, Ashesh Kandelwal, Shivam Pandey, Sowmya Kamath S |
| 12 | A Bottom-up Approach towards Achieving Semantic Web Services | International Symposium on Green Networks and Distributed Systems (GNDS 2013), co-located with Second International Conference on Advances in Computing, Communications and Informatics (ICACCI-2013), Aug 22-24, 2013 | Sowmya Kamath S, Ananthanarayana V.S. |
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| 2 | On Higher Order Pell Equations | 7th International Conference of IMBIC, on MAST, Dec 21-23, 2013, Kolkata, pp 56-63 | Manasa K. J. and B. R. Shankar |
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| 30. | Wire Electro Discharge Machining of TiNi Shape Memory Alloy” | International Conference on Emerging Materials and Processes – 2014, CSIR-Institute of Minerals and Materials Technology, Bhubaneswar, ICEMP-2014, February 26-28th, 2014 | Manjaiah M, Sibin B, Narendranath S, Basavarajappa S |
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| 35. | Mechanical and tribological characterization of flyash and e-glass fibre reinforced aluminium alloy 6061 hybrid composites | International Conference on Advances in Tribology-2014, NIT Calicut from 21st to 24th February, 2014, 389-392 | Vivek M and H Suresh Hebbar |

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| 42. | Computational investigation of unsteady impeller diffuser interaction in a centrifugal compressor with partial vane diffuser at design flow coefficient | International Conference on Computer Aided Engineering (CAE-2013), 19-21 December, 2013, IIT Madras, Chennai | Anish S and Sitaram N |
| 43. | Investigation of the Flow Behavior inside Diffuser Vane at Off-Design Conditions: A Numerical Study | 21st ISABE Conference, Sep. 9-13, 2013, Busan | Anish S., Sitaram N. and Kim, H. D |
| 44. | Experimental Ivestigation of Adiabatic Film Cooling Effectiveness and Heat Transfer | International conference on material science and material engineering (MSME2014), March 15-16, 2014, Chicago | Giridhara Babu Yepuri, Ashok Babu Talanki Puttarangasetty, Felix Jesuraj. |

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| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s)* |
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| 1 | Assessment of Objective Based Blast Performance: Ranking System . | FRAGBLAST-10, 24-29 Nov. 2012, New Delhi. | Prof.V.R. Sastry & Dr. K. Ram Chandar |
| 2 | "Selenium and Lead Tolerance in Marine AspergillusTerreus for Biosynthesis of Nano Particles - Quantum Dots", | International Conference on Civil, Biological and Environmental Engineering, November, December, Thailand. | Jaya Mary Jacob, Soubhik Kumar Bardhan, Raj Mohan B, P. E. JagadeeshBabu and Aruna M |
| 3 | "Corporate Social Responsibility & Sustainable Development in Mining Industry - A Case Study", | International Conference on Corporate Social Responsibility & Sustainable Development - CSR 2013, June, Thailand. SER, New Delhi | Shanth A Thimmaiah, Ravi D. R, Y. V. Rao & M. Aruna |
| 4 | Analysis of Dust produced by Longwall Shearer in Underground Coal Mines | International Proceeding Sept,2013, 17-19, | Prof.Ch.S.N. Murthy, Co-author Vijay Raghavan |

Department of Metallurgical And Materials Engineering

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s)* |
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| 1 | Estimation of spatially dependent heat flux transients during immersion quenching of Inconel 600 probe | ASM- Heat Treat and Surface Engineering Conference and Expo 2013 (HT&SE 2013), Chennai, India, May 16-18, 2013. | G. Ramesh, and K.N.Prabhu |
| 2 | Effect of cooling rate on microstructure and thermal analysis parameters of hypereutectic Al-14% Si alloy, | International Conference on Advanced Functional Materials, Trivandrum, India, 19-21, February 2014 | Vijeesh V and K.N.Prabhu |
| 3 | Corrosion inhibition of 6061 Al-15 vol. pct. SiC(p) composite in sodium hydroxide solution by 4-amino-5-(4-nitrophenyl)-4H-1,2,4-triazole-3-thiol | International conference on Advances in manufacturing and Materials Engineering at NITK Surathkal, India, March 27-29, 2014 | Geetha Mabel Pinto, A N Shetty and JagannathaNayak |
| 4 | A Study on Thermal Behavior of AluminumCenosphere Powder Metallurgy Composites Sintered in Microwave | International conference on Advances in manufacturing and Materials Engineering at NITK Surathkal, India, March 27-29, 2014 | M G Ananda Kumar, S Seetharamu and JagannathNayak, |
| 5 | Characterization of Nanocrystalline Zinc Oxide Nanofibrous Webs obtained by Sol-gel Electrospinning | International Conference on 'Advancements in Polymeric Materials APM-2014', CIPET-Bhubaneswar, India, February 2014 (invited paper). | T. Senthil, S. Anandhan |

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| 6 | Electrospun Nickel Oxide Nanofiber Webs for Thermistor Applications | International Conference on 'Advancements in Polymeric Materials APM-2014', CIPET-Bhubaneswar, India, February 2014. | G. George, S. Anandhan |
| 7 | Hot corrosion studies on as-received and HVOF sprayed $\text{Al}_2\text{O}_3+\text{CoCrAlTaY}$ on Ti-31 alloy in salt environment | Intl Conf on Design and manufacturing at Kancheepuram, India, July 18-20, 2013. id: MEC 269 | N. Jegadeeswaran, M.R. Ramesh, and K. Udaya Bhat |
| 8 | Friction surfacing of mild steel by copper: A feasibility study | International conference on Advances in manufacturing and Materials Engineering at NITK Surathkal, India, March 27-29, 2014 | Tarun Kumar J, Arun Kumar, Satish V Kailas, Udaya Bhat K |
| 9 | Oxidation resistance of HVOF Sprayed coating 25% Cr3C2-25(NiCr) +75% NiCrAlY on Titanium Alloy | International conference on Advances in manufacturing and Materials Engineering at NITK Surathkal, India, March 27-29, 2014 | N Jegadeeswaran, M R Ramesh, K Udaya Bhat |
| 10 | Electronic Band Structure of Graphene on Silicon Nano-Texture | International Union of Materials Research Society, (ICA 2013) Dec. 16–20 2013 IISc, India (Abstract) | Brahmanandam Javvaji, Abhilash R, B.M. Shenoy, M. R. Rahman, D. Roy Mahapatra, G.M. Hegde |
| 11 | Electronic band structure and Photoluminescence Spectra of Graphene on Silicon | SPIE Photonics West Feb. 1–6 2014 San Francisco USA. (Conference Proceeding) | Abhilash R, Brahmanandam Javvaji, B. M. Shenoy, M. R. Rahman, D. Roy Mahapatra, G. M. Hegde |
| 12 | Magnetic Properties of Polycrystalline sample of Mn doped SrZnO_2 | International Conference on Advances in Manufacturing and Materials Engineering, AMME 2014, National Institute of Technology Karnataka March 27–29 2014 Mangalore, India. (Conference Proceeding) | M. R. Rahman, B. Koteswararao, Ammu Priya, F. C. Chou |

Department of Physics

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s)* |
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| 1 | Structural characterisation of intermetallic nanocrystalline Nickel – Titanium thin films prepared by oblique angle DC unbalanced magnetron sputtering | ICAFM 2014 (2 nd International conference on Advanced Functional Materials) Feb 19-21, Thiruvananthapuram, India. | B. Naveen Kumar Reddy , N. K. Udayashankar |
| 2 | Structural and morphological studies on oblique angle DC unbalanced magnetron sputtered intermetallic nanocrystalline NiTi thin films for biomedical applications | ICONSAT 2014 (6 th International conference On Nano Science and Technology) March 3-5, Chandigarh, India. | B. Naveen Kumar Reddy , N. K. Udayashankar |

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| 3 | Studies of Structural Properties of Porous Anodic AluminaTemplates prepared by using two Step Anodization Process | IJMRSCA 2013 IISc Bangalore Dec 16 – Dec 20 2013 | P. Ramana Reddy, N. K. Udayashankar and Ajith K. M. |
| 4 | The Effect of Process Parameters on the growth mechanism of Porous Anodic Alumina Templates | ICFM – 2014 IIT Kharagpur 5th Feb - 07 Feb 2014 | P. Ramana Reddy, N. K. Udayashankar and Ajith K. M |
| 5 | Effect of electrolyte on thermal properties of porous anodic alumina templates | ICMCT – 2014 VIT VELLORE Tamilnadu 10 th March - 12 th March 2014 | P. Ramana Reddy, N. K. Udayashankar and Ajith K. M |

NATIONAL CONFERENCES

Department of Applied Mechanics And Hydraulics

| Sl. No. | Title of paper | Conference name. Vol. Issue, Page No.s | Author(s) |
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| 1. | Solid waste management for the city of Karkala | National Conference on 'New horizons in Civil engineering' (NHCE-2013), held at 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), held at MIT, Manipal, 12-13, April, 2013 | Binumol. S, Subba Rao and Arkal Vittal Hegde |
| 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, NIO, Goa, Feb, 2014. | A V Hegde and S M Naseeb |
| 5. | Performance of a floating pipe breakwater based on intelligent computing | INCHOE2014, at NIO, Goa, Feb, 2014. | S. G. Patil, S. Mandal, A. V. Hegde |
| 6. | Investigation on berm breakwaters using concrete cubes as armour units | National Seminar on Coastal Environments & their management held at Mangalore University, Managalagangotri, during January 22-23, 2013 | Geetha K., Prashanth J. and Subba Rao |
| 7. | Analysis of the effect of anchor rod on the diaphragm wall | National Seminar on Coastal Environments & their management held at Mangalore University, Managalagangotri, during January 22-23, 2013 | Parvathy M. M., Yajnheswaran B. and Subba Rao |

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| 8. | Experimental Studies On Reshaping Berm Breakwaters With Artificial Armour Units | National Conference on New Horizons in Civil Engineering – NHCE 2013, held at MIT, Manipal during 12-13 April, 859-865. | Prashanth J, Subba Rao, Kiran G Shirlal, Balakrishna Rao K and Danny Thomas |
| 9. | Analysis of the Effect of Dredging on Berthing Structure | National Conference on New Horizons in Civil Engineering – NHCE 2013, held at MIT, Manipal during 12-13 April | Yajnheswaran. B, Parvathy M. M. and Subba Rao |
| 10. | A study on reshaping berm breakwaters | National Conference On Emerging Trends In Environment And Energy Management (NCEEM-2013), Shri Madhwa Vadiraja Institute Of Technology And Management, Bantkal, Udupi District, Karnataka. | Subba Rao, Kiran G Shirlal, Prashanth J. and Danny Thomas |
| 11. | 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 | Prashanth Janardhan, B. Subba Rao, C. Kiran G. Shirlal and D. Balakrishna Rao K., |
| 12. | 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. |
| 13. | 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, 157-162. | V.Hafeeda, S. Binumol, A. V Hegde and Subba Ra |
| 14. | Physical modeling of the effect of submerged vegetation upon wave damping | National Seminar on Coastal Environments & their management held at Mangalore University, Managalagangotri, during January 22-23, 2013 | Hashim V. Meeran and Kiran G. Shirlal |
| 15. | Impact of submerged vegetation on wave field-An experimental approach | National Conference on Emerging Trends in Environment and Energy Management (NCEEM-2013), Oct 18-19, 2013, Shri Madhwa Vadiraja Institute of Technology & Management, BANTAKAL, Udupi Dist, Karnataka, pp 83-86. | Kiran G. Shirlal and Hashim V. Meeran |
| 16. | Geosynthetics-A soft Option for Coastal protection | National Conference on Emerging Trends in Environment and Energy Management (NCEEM-2013), Oct 18-19, 2013, Shri Madhwa Vadiraja Institute of Technology & Management, BANTAKAL, Udupi Dist, Karnataka, pp 83-86. | Kiran G. Shirlal and Ramesh Reddy Mallidi |
| 17. | Role of Bioshields as a Shelter from Tsunamis and Storm Surges-A Review | National Conference on Emerging Trends in Environment and Energy Management (NCEEM-2013), Oct 18-19, 2013, Shri Madhwa Vadiraja Institute of Technology & | Beena Mary John and Kiran G. Shirlal |

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| | | Management, BANTAKAL, Udupi Dist, Karnataka, pp 83-86. | |
| 18. | Earned Value Method – A Comprehensive Approach for Earned Value Management | National Conference on Contemporary Civil Engineering Research & Practices – CCERP 2012, April 20-21, Manipal Institute of Technology, Manipal, pp 39 | Subrahmany K., Shiji S. G. |
| 19. | Optimisation of Construction Project Network for Time & Cost Under Constrained Resource Environment | National Conference on Contemporary Civil Engineering Research & Practices – CCERP 2012, April 20-21, Manipal Institute of Technology, Manipal, pp 38 | Subrahmany K. and Amit Prakash Patil |
| 20. | Simulation of quantitative Risks in Construction Projects | National Conference on Contemporary Civil Engineering Research & Practices – CCERP 2012, April 20-21, Manipal Institute of Technology, Manipal, pp 40 | Subrahmany K. and Vinay Hadimani |
| 21. | Dispute Resolution in Indian Construction Industry | National Conference on Contemporary Civil Engineering Research & Practices – CCERP 2012, April 20-21, Manipal Institute of Technology, Manipal, pp 46 | Subrahmany K., Nisha M. and Mahesh Patil |
| 22. | Dynamics of Offshore Cylindrical Structures | National Conference on Contemporary Civil Engineering Research & Practices – CCERP 2012, April 20-21, Manipal Institute of Technology, Manipal, pp 138 | Subrahmany K., and Ashwini |
| 23. | Spatial & temporal analysis of rainfall pattern over western ghat of Karnataka | National conference on New Horizons in Civil Engg.- NHCE2013, M.I.T. Manipal, 2013, pp 736-744 | Adarsh Koti and B.M.Dodamani |
| 24 | 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. Rakshit |
| 25 | 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 |
| 26 | 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 |
| 27 | 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 |

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| | | <i>Ocean Engineering (INCHOE-14), NIO, Goa, 5-7 February 2014</i> | |
| 28 | 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 |
| 29 | Evaluation of catchment characteristics through morphometric analysis using remote sensing and GIS | <i>National Conference on Emerging Trends in Environment and Energy Management (NCEEM -2013)</i> , SMVITM, Udupi, Karnataka, India, 18-19 October, 2013, pp. 35 | Nujuma Nazimudhin; P. Sri Ram Kumar; Deepthi I. Gopinath; Ganasri B.P.; Raju A.; Archana. V.; G. S. Dwarakish |
| 30 | Tsunami Forecasting - An Overview, Proc. of the <i>Fourth International Workshop on Performance, Protection and Strengthening of Structures Under Extreme Loading</i> | <i>PROTECT 2013</i> , Mysore, India, August 26-27, 2013 | Dwarakish G S and Deepthi I Gopinath |
| 31 | Integrated Approach for Sediment Dynamics of Mulki-Pavanje Rivermouth, Mangalore Coast, West Coast of India | Proc. National Conference <i>OSICON 2013. Role of Oceans in Earth System</i> , IITM, Pune, 26-28 November, 2013, pp.181-184 | Dwarakish G S and Usha Natesan |
| 32 | Sediment Trend Analysis and Determination of Sediment Movement Patterns Along Coastline in the vicinity of Mulki-Pavanje River Mouth | National Conference on <i>New Horizons in Civil Engineering - NHCE 2013</i> , MIT Manipal, 12th - 13th April 2013 | Mrinal S Murali and Dwarakish G S., |
| 33 | Artificial neural networks for prediction of tides at Karwar, West coast of India | National conference on <i>New Horizons in Civil Engineering- NHCE 2013, MIT, Manipal</i> , India, 12-13 April 2013. | Rakshith, S. and Dwarakish, G. S |
| 34 | Coastal erosion and mitigation measures along Mangalore Coast, South West Coast of India | Proc. <i>National Seminar on Coastal Environments and their Management</i> , 22-23 January, Mangalore University, Mangalore, India, PP.74 | Dwarakish G S and Usha Natesan |
| 35 | Comparison of various methods for prediction of possible sediment movement patterns through variations in grain size parameters | Proc. <i>National Seminar on Coastal Environments and their Management</i> , 22-23 January, Mangalore University, Mangalore, India, PP.46. | Mrinal S Murali and Dwarakish G S |
| 36 | Artificial neural networks for prediction of tides: State-of-the-art | Proc. <i>National Seminar on Coastal Environments and their Management</i> , 22-23 January, Mangalore University, Mangalore, India, PP. 37 | Rakshith S. and Dwarakish G. S., |
| 37 | Shoreline changes of Dhanushkodi, Tamil Nadu, India | Proc. <i>National Seminar on Coastal Environments and their Management</i> , 22-23 January, Mangalore University, Mangalore, India, PP. 29 | R Gowthaman, V Sanilkumar and Dwarakish G S |
| 38 | Some Dredging Equipments for Deep and Shallow Water | , Association of Consulting Civil Engineers(I), Mangalore Centre, | Mrinal S Murali and Dwarakish G S., |

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| Marine Applications - An Overview | Mangalore, 11th -12th January 2013, pp. 303-316. | |
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| Sl. No | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s)* |
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| 1 | Sand Spit and Shoreline Dynamics Near Terekhol River Mouth, Goa, India | Indian National Conference on Harbour and Ocean Engineering, Goa, 5-7 Feb , 2014 | C. Rajasekaran, Jaya kumar Seelam, R. Gowthaman, M. Jishad, E.M. Yadhunath and P.S. Pednekar |
| 2 | Studies on the dynamic response of coastal sediments due to natural and manmade activities for the Puducherry coast | Indian National Conference on Harbour and Ocean Engineering, Goa, 5-7 Feb , 2014 | G. Vijayakumar, C. Rajasekaran, T. Sundararajan and D. Govindarajalu |
| 3 | Studies on near shore wave transformation of Puducherry coast | Indian National Conference on Harbour and Ocean Engineering, Goa, 5-7 Feb , 2014 | K. Pandurangan, G. Vijayakumar, C. Rajasekaran and M.A. Sivasankaran |
| 4 | Surfzone Currents at Candolim and Miramar Beaches of Goa, India: Measurements and Comparisons | Indian National Conference on Harbour and Ocean Engineering, Goa, 5-7 Feb , 2014 | Yadhunath , Jaya Kumar Seelam, M. Jishad, R. Gowthaman,C. Rajasekaran, and P.S. Pednekar |
| 5 | Stabilization of Lithomargic Clay Using RBI 81 For Pavement Construction | 2nd National Conference on “Recent Advances in Civil Engineering (RACE – 2013), Saintgits College of Engineering, Kottayam, Kerala, 6th and 7th September 2013. | Lekha, B.M, Goutham Sarang and Ravi Shankar, A.U |
| 6 | Soil moisture uptake under different salinity levels for paddy crop | 2nd International Conference on Agricultural & Horticultural Sciences February 03-05, 2014, Hyderabad, India (OMICS Group) | Devatha, C. P. |
| 7 | Comparison of Stone Matrix Asphalt Mixtures Prepared in Marshall Compaction and Gyratory Compactor | Sustainable Innovative Techniques In Civil and Environmental Engineering” (SITCEE - 2014) by “Krishi Sanskriti” at JNU, New Delhi on 4th and 5th January, 2014. | Goutham Sarang, Mehnaz E and A U Ravi Shankar |
| 8 | Laboratory Performance of RBI – 81 treated soil as Pavement Material | Sustainable Innovative Techniques In Civil and Environmental Engineering” (SITCEE - 2014) by “Krishi Sanskriti” at JNU, New Delhi on 4th and 5th January, 2014. | Lekha B M and Ravi Shankar A U |
| 9 | Dynamic soil-structure interaction analyses of tall reinforced concrete industrial chimneys on piled raft foundations | Proc. of the Indian Geotechnical conference, IIT Roorkee | S. V. Jisha, B. R. Jayalekshmi and R. Shivashankar |

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| 10 | Parametric study on reinforced granular beds overlying weak soil | Silver jubilee symposium of Intl. Geosynthetics Society (India), New Delhi | R. Shivashankar, J. Jayamohan and M. Venkateswara Reddy |
| 11 | Behaviour of prestressed geosynthetic reinforced granular bed overlying weak soil | Proc. of the Indian Geotechnical conference, IIT Roorkee | M. S. Aswathy, J. Jayamohan and R. Shivashankar |
| 12 | Evaluation of Different Vehicle Following Models under Mixed Traffic Conditions | 2nd Conference of Transportation Research Group of India (CTRG), Agra, Delhi | Venkatesan Kanagaraj, Gowri Asaithambi, Naveen Kumar, Karthik K. Srinivasan and Sivanandan, R. |
| 13 | Vehicle Class-wise Speed Volume model for Three-lane Undivided Urban Roads | 2nd Conference of Transportation Research Group of India (CTRG), Agra, Delhi | Balaji Ponnu, Jomy Thomas, Kartikeya Jha, Gowri Asaithambi and Karthik K. Srinivasan, |
| 14 | Soil-structure interaction effects on seismic response of a 16 storey RC framed building with shear wall | National Conference on recent advances in structural engineering held during Dec 13th - 15th 2013 at Cochin university of science and technology | Chinmayi H.K. and Jayalekshmi B.R |
| 15 | Modeling of Masonry infills- A review | National Conference on recent advances in structural engineering held during Dec 13th - 15th 2013 at Cochin university of science and technology | Catherin Jeselia M., Jayalekshmi B.R., KattaVenkataramana |

Department of Chemical Engineering

| Sl. No. | Title of Paper | Conference Name, Place, Dates, Page Nos. | Author(s)* |
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| 1 | Low level endotoxemia not associated with endotoxin tolerance or priming | Immunocon-2013, New Delhi Nov 15-17, 2013 | Gangamma S. |

Department of Chemistry

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s)* |
|---------|--|---|--|
| 1. | Synthesis and Characterization of CdOPolypyrroleno composite thin films | KSTA Conference-2013,Christ University, Bangalore, 20-21 st December, 2013 | Raghavendra Prasad J and Badekai Ramachandra Bhat, |
| 2. | Zinc Oxide Nano flowers as Gas Sensor, | ICC Conference-2013, Karnataka University, Dharwad, 28-30 th November, 2013. | Raghavendraprasad J and Badekai Ramachandra Bhat, |
| 3 | Hydroxide supported magnetite as a magnetically separable heterogeneous catalyst for liquid phase oxidations | ICC Conference-2013, Karnataka University, Dharwad, 28-30 November, 2013. | Badekai Ramachandra Bhat, Pooja. B. Bhat, |

Department of Electronics and Communication Engineering

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s)* |
|---------|--|--|--|
| 1. | A 180° Bit C-Band Phase Shifter Using Interdigital Low Pass/High Pass Filter | 6th ISSS conference on MEMS, Smart Materials, Structures and Systems, 6-7, September, 2013, Pune, India. | Chenna Reddy E. S. Shajahan M. S. Bhat |
| 2. | RF MEMS based Loaded Line Phase Shifter for X-band Applications | 6th ISSS conference on MEMS, Smart Materials, Structures and Systems, 6-7, September, 2013, Pune, India. | B. Vasudev Anand E. S. Shajahan M. S. Bhat |

Department of Electrical & Electronics Engineering

| Sl. No. | Title of paper | Conference Name, Vol., Issue, Page Nos. | Author(s)* |
|---------|--|---|---|
| 1. | Real-Time Simulation of Synchronous Generator and Its Controllers On RTAI-Linux Platform'', | Proceedings of IEEE India conference, INDICON-2013, to be held at IIT Bombay, December, 13-15th 2013. This paper will be appearing in the IEEE Xplore | Adharapurapu Hema Latha and K. N. Shubhangi |
| 2. | Implementation and Characterization of a Numerical Distance Relay Using a Relay Test-Bench on RTAI-Linux Platform, | Proceedings of IEEE India conference, IDICON-2013, to be held at IIT Bombay, December, 13-15th 2013. This paper will be appearing in the IEEE Xplore. | Anjan Padmasali, Kiran Amoghimath, Pragyan P. Hazarika, Puneeth K. Shetty and K.N. Shubhangi, |

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. | Exchange Rate Volatility and Investment: Firm Level Evidence from India | Three-Day National Conference on Economic Reforms, Growth and Social Welfare. Organized by Department of Economics, School of Global Studies Central University of Kerala, Kasaragod on 16- 18 December, 2013. | Rajesh Acharya H and Anver Sadath |
| 2. | Exchange Rate Volatility and Investment: Firm Level Evidence from India | Two Day National Seminar on Applications of Panel Data. Organized by Centre for Economic and Social Studies (CESS), Hyderabad in collaboration with The Indian Econometric Society (TIES) on 25-26 March, 2014. | Rajesh Acharya H and Anver Sadath |
| 3. | Is Financial Inclusion an Addition to the waves of microfinance? | National Conference on Market State and Society in Emerging India | Rajesha M and Kiran K.B. |

Department of Mechanical Engineering

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s)* |
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| 1. | Studies on air entrainment in a circular turbulent jet using a pipe | Proceedings of 40th National Conference on Fluid Mechanics and Fluid Power, 12-14, December, 2013, NIT Hamirpur | Jayaram Thumbe, Pramod K., Ravikiran Kadoli, K. V. Gangadharan |
| 2. | Spray and combustion characterization in common rail direct injection (CRDI) engine - a review. | National Conference on Fire Research and Engineering (FiRE), IIT Roorkee, India, March 01-02, 2014. | Venkatesh Lamani, Ajay Kumar Yadav, G. N. Kumar |
| 3. | Analytical computation of admittance, decrement factor, time lag and surface factors for different exterior wall materials of the buildings in dakshina kannada district | 22nd National Conference and 11th ISHMT – ASME Heat and Mass Transfer Conference to be held on December 28-31, 2013, IIT Kharagpur, West Bengal, INDIA | Saboor and T. P. Ashok Babu |
| 4. | Experimental and numerical investigation of effect of blowing ratio on film cooling effectiveness and heat transfer coefficient over a gas turbine blade leading edge film cooling configurations | ASME 2013 Gas Turbine India Conference, December 5-6, 2013, Bangalore, India | Giridhara Babu Yepuri, Gururaj Lalgi, Ashok Babu Talanki Puttarangasetty, Felix Jesuraj, Sreenivas Rao V. Kenkere, Vinod Kumar Nanjundaiah |

Department of Mining Engineering

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s)* |
|---------|--|---|---|
| 1 | Controlled Blasting for an U/G Metro Rail project in Urban Environment. | National Seminar on “Geotechnical Challenges in Infrastructure Projects. 25-26 April. 2013, New Delhi, 74-83. | Prof.V.R. Sastry& Dr. K. Ram Chandar |
| 2 | Analysis of Delay Timing in Blasting Operations using High Speed Video Recordings. | National Seminar on Explosives & Blasting Techniques for Mining, Quarrying and Infrastructure Industry, 27-28 Sept. 2013, NITK, Surathkal, 58-69. | Sastry,V.R., Ram Chandar, K., Suraj.P., and Mahesh Kumar, M.R. |
| 3 | Effect of Joints on Fragmentation: A Case Study using Sirovision. | National Seminar on Explosives & Blasting Techniques for Mining, Quarrying and Infrastructure Industry, 27-28 Sept. 2013, NITK, Surathkal, 131-142. | Sastry,V.R., Ram Chandar, K., ChiranthHegde, and SrisharanSreedharan. |
| 4 | Optimization of Blast Design Parameters on Energy Distribution. | National Seminar on Explosives & Blasting Techniques for Mining, Quarrying and Infrastructure Industry, 27-28 Sept. 2013, NITK, Surathkal, 243-250. | Sastry,V.R., Ram Chandar, K., Kedar, P.N, and Ankan Pal, 2013. |
| 5 | Induced Blasting Practice for Hard Roof Management in Blasting Gallery Method: A Case Study. | National Seminar on Explosives & Blasting Techniques for Mining, Quarrying and Infrastructure Industry, 27-28 Sept. 2013, NITK, Surathkal, 322-327 | Kumar Reddy, S., Sastry,V.R., and Ram Chandar, K., 2013. |

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 | Workshop | 23-24 September 2013 | NITK, Surathkal | G.S.Dwarkish |
| Symposium | Symposium | 21, October 2013 | Ministry of Earth Sciences, Govt. of India | N. Lakshman, Dr. B.M.Dodamani and Dr. H. Ramesh |

Foreign Visitors to Department

| Name of visitor | Designation & Affiliation | Purpose of visit | Dates of visit |
|------------------|--------------------------------|--|-----------------------|
| P Venkat Lakshmi | Professor, Calorina University | Visited For Workshop on 'Geoinformatics for Water and Coastal Engineering' and given lecture | 23-24, September 2013 |

Indian Visitors to Department

| Name of visitor | Designation & Affiliation | Purpose of visit | Dates of visit |
|--------------------|---|--|--|
| Usha Natesan | Director, S.R., Anna Univ., Chennai | Visited for Workshop on 'Geoinformatics for Water and Coastal Engineering' and given lecture | 23 rd September 2013 |
| M.V. Ramana Murthy | Scientist, NIOT, Chennai | Visited for Workshop on 'Geoinformatics for Water and Coastal Engineering' and given lecture | 23-24, September 2013 |
| Vinod K. Gaur | Honorary Scientist, CSIR Fourth Paradigm Institute, Bangalore | Given a guest lecture in the Symposium 'Outstanding Issues for Hydrological Research in India' | 21 st & 22 nd October 2013 |
| M. Sekhar | Professor, IISc, Bangalore | Given a guest lecture in the Symposium 'Outstanding Issues for Hydrological Research in India' | 21 st & 22 nd October 2013 |
| Rajiv Sinha | Professor, IIT,Kharagpur | Given a guest lecture in the Symposium 'Outstanding Issues for Hydrological Research in India' | 21 st & 22 nd October 2013 |
| Sharad Jain | Scientist, NIH, Belgaum | Given a guest lecture in the Symposium 'Outstanding Issues for Hydrological Research in India' | 21 st & 22 nd October 2013 |
| PP Mujumdar | Professor, IISc, Bangalore | Given a guest lecture in the Symposium 'Outstanding Issues for Hydrological Research in India' | 21 st & 22 nd October 2013 |

Department of Chemical Engineering

| Type of Event | Name of Event (Topic) | Dates & Duration | Sponsor(s) | Coordinator(s) |
|--|--|--|------------|---|
| Two days workshop | Expert Lecture Series on Advances in Process Control | 4 th and 5 th October 2013 | TEQIP-II | VidyaShetty K. Associate Professor & Head, Department of Chemical Engineering, Coordinator. |
| Participants: VI and VIII semester BTech students, M.Tech students and research scholars from Chemical Engineering department and other departments | | | | |
| Resource Persons: | | | | |
| i) RavindraGudi, Dept. of Chemical Engg., IIT,Bombay ii) S.Sundarmurthy, Dept. of Chemical Engg.,PondicherryEngg. College,Pondicherry iii) SanjayDave,Honeywell Technologies Ltd, Bangalore iv) VenkateshRajaGopalan,General Electric Technology Centre,Bangalore | | | | |

Foreign visitors to Department

| Name of Visitor | Designation & affiliation | Purpose of Visit | Dates of Visit |
|--------------------|--|---|--|
| Pogadu Ravindra, | Professor of Chemical engg., Director of Oil and Gas Engg., University of Malaysia Sabah | To deliver a special talk on “Green Engineering – A Borderless Science” | 15 th & 16 th April, 2013. |
| Arun Ramachandran, | Assistant Professor, Department of Chemical engg. and Applied Chemistry, University of Toronto, Toronto, Ontario, Canada | To deliver a special talk on “Recent Progress in understanding the Stability of Vascles dispersion” | Wednesday, 21.08.2013, |
| Venkatesh Balan, | Associate Professor, Department of Chemical Engg. & Material Science, Michigan State University, USA | To deliver a special talk on “Integrated Method of Producing Biofuels using Oil Cakes and Lignocellulosic Biomass Seed Cover” | Wednesday, 13.11.2013 |

Department of Civil Engineering

STTPs/Schools/Conferences/Seminars/Workshops, etc

| Coordinator(s) | Sponsor(s) | Dates & Duration | Name of Event | Type of Event |
|----------------------------------|--------------------------|---|---|---------------|
| Suresha S. N. & Gangadhar Mahesh | TEQIP-II, NITK Surathkal | 26-28 Aug., 2013. 3-Days 13-15 Sep., 2013. 3-Days 08-10 Oct., 2013. 3-Days | Professional Skill Development Programme for the Post Graduate Students of Civil Engineering Department | Workshop |

| | | | | |
|--|--|-----------------------------|--|----------|
| R.Shivashankar Sitaram Nayak B.M.Sunil | TEQIP-II, NITK Surathkal | 05-06, September, 2013 | Ground Improvement and Use of Geosynthetics | Workshop |
| K.S.Babunarayan B.Manu Arun Kumar Thalla | TEQIP-II, NITK Surathkal | 20-21 Sep., 2013. 2-Days | Training of Environmental Science and Engineering professors | Workshop |
| Gangadhar Mahesh Subash C Yaragal | Karnataka State Pollution Control Board and Trade Vision Group | 21 March 2014 | Best Practices to Control Pollution in Stone Crusher and RMC Plants | Workshop |

Visits of Experts/Foreign Dignitaries to the Department

| Name of Visitor | Designation & Affiliation | Purpose of visit | Dates of Visit |
|--|---|--|-----------------------------|
| Ryosuke Kitamura | Professor Emeritus Kagoshima University, Japan | Senior Research Advisor (under TEQIP) | 18-08-2013 to 13-09-2013 |
| J.N.Mandal | Professor IIT Bombay, Mumbai. | Resource Persons, 2-Day Workshop on "Ground Improvement and Use of Geosynthetics" | 05-06, September, 2013 |
| T.N.Singh | Professor IIT Bombay, Mumbai. | Resource Persons, 2-Day Workshop on "Ground Improvement and Use of Geosynthetics" | 05-06, September, 2013 |
| Dennes T.Bergado | Professor Asian Institute of Technology, Bangkok, Thailand. | Resource Persons, 2-Day Workshop on "Ground Improvement and Use of Geosynthetics" | 05-06, September, 2013 |
| K.Rajagopal | Professor IIT Madras, Chennai | Resource Persons, 2-Day Workshop on "Ground Improvement and Use of Geosynthetics" | 05-06, September, 2013 |
| Ravindra K Dhir | Adjunct Professor Trinity College of Dublin. | Interaction meet | 17-19, September, 2013 |
| Roger P West | Head of Department of Civil, Structural & Environmental Engineering | Interaction meet | 17-19, September, 2013 |
| Sumie Nakatani | Professor International Planning Center, Kagoshima University, Japan | Interaction meet | 28- 30, October, 2013 |
| S Kako K Sako M Tateyama H Komaki | Kagoshima University, Japan | Research interaction | 16-20, December 2013 |
| V S Phanikanth | BARC, Mumbai | Expert Lectures | 3-6, February 2014 |

Department of Computer Engineering

STTPs/Schools/Conferences/Seminars/Workshops, etc

| Type of Event | Name of Event | Dates & Duration | Sponsor(s) | Coordinator(s) |
|---------------------------------|--|---|--------------------------|---------------------------------------|
| Workshop | Android Application Development | Two day, 13 th -14 th April 2013 | IIT Bombay | Annappa |
| Short Term Training programme | Recent Advancements and Research Directions in Software Engineering - RAISE'13 | Five day, 10 th -14 th June 2013 | TEQIP-II | Annappa, Mr. B.R. Chandavarkar |
| Workshop | Simulation of Wired and Wireless Networks (SWN-2013) | Three day, 17 th -19 th June 2013 | -- | B.R. Chandavarkar, Mohit P. Tahiliani |
| Workshop | Recent Developments in Software Testing '(SoftTest – 2013) | Two day, 18 th –19 th September 2013 | TEQIP-II | Annappa, Mohit P. Tahiliani |
| Expert Lecture | “BIG DATA and ANALYTICS” by Ridhi Sahni, Associate Consultant, WIPRO Technologies, Bangalore | 27 th September 2013 | -- | Annappa |
| Expert Lecture | “Opportunities at STEP for financial support to students developed ideas”, by Mr. P. Suresh Bhat, Director, NITK-STEP, Surathkal | 31 st October 2013 | -- | Annappa |
| Seminar | Research Interaction Seminar | Two day, 06 th – 07 th November 2013 | TEQIP-II | K. Chandrasekaran, Mohit P. T |
| Workshop | Network Simulation using NS-3 | Two day, 07 th – 08 th December 2013 | TEQIP-II | B.R. Chandavarkar, Mohit P. Tahiliani |
| Second International Conference | Advanced Computing, Networking and Security - ADCONS '13 | Three day, 15 th –17 th December 2013 | Partial support TEQIP-II | Annappa, Ananthamarayana V.S |
| Workshop | Medical Image Computing | Two day, 17 th –18 th January 2014 | TEQIP-II | Jeny Rajan |
| Workshop | Microsoft Aapathon BOOT-CAMP | One day, 18 th January 2014 | - | Annappa |
| Expert Lecture | Cloud Computing Architecture & Security Reliability by Mr.C.Mahabalesha, TCS, Bangalore | 08 th February 2014 | TEQIP-II | Annappa |
| Short Term Training Program | Big Data & Machine Learning-(BIG LEARN 2014) | Three day, 21 st –23 rd February 2014 | TEQIP-II | Annappa, Shashidhar G. Koolagudi |
| Keynote Lecture | “Soft Computing, Machine Intelligence and Granular Mining”, by Padma Shri | 21 st – 22 nd February 2014 | TEQIP-II | Annappa |

| Type of Event | Name of Event | Dates & Duration | Sponsor(s) | Coordinator(s) |
|-------------------------------|---|--|----------------|--|
| | Prof.Sankar Kumar Pal from ISI Kolkata | | | |
| Expert Lecture | "Introduction to Kernelization and Parameterized Algorithms" by Dr. Manu Basavaraju, Post-Doctoral Fellow, Dept. of Informatics, University of Bergen, Norway | 26 th February 2014 | Institute fund | K. Chandrasekaran |
| Workshop | Neural Networks' Approach for Speech Tasks | Two day, 28 th February 2014 to 01 st March 2014 | TEQIP-II | Shashidhar G. Koolagudi |
| Workshop | CSE Curriculum Restructuring | 02 day, 5 th – 6 th March 2014 | TEQIP-II | K. Chandrasekaran K Vinay Kumar Annappa |
| A International Summer School | Leading Edge Software Engineering (ISS-LESE 2014) | Six day, 3 rd – 8 th March 2014 | TEQIP-II | K. Chandrasekaran |
| Workshop | Fundamentals of Speech Processing | Two day, 14 th -15 th March 2014 | TEQIP-II | Shashidhar G. Koolagudi, Annappa |

Foreign Visitors to Department:

| Name of the Visitor | Designation & Affiliation | Purpose of visit | Date of Visit |
|---------------------|---|---|---|
| Prashant Shenoy | Professor, Computer Science, University of Massachusetts (UMass) Amherst | Interaction with faculty members | 08 th August 2013 |
| San Murugesan | Editor-in-chief, IEEE IT Professional Magazine, University of Western Sydney, Australia | Keynote Speaker for ADCONS'13 | 17 th December 2013 |
| Alexander Gelbukh | Research Professor & Head of the National Language Laboratory, Centre for Computing Research, National Polytechnic Institute (IPN), Mexico | Keynote Speaker for ADCONS'13 | 15 th – 17 th December 2013 |
| Paul Albuquerque | Department of Information Technology Engineering, University of Applied Sciences Western Switzerland, Technology. Architecture and Landscape (hepia), Geneva, Switzerland | Discussion on possible collaboration between NITK CSE department and University of Applied Sciences Western Switzerland, Technology, Architecture and Landscape | 02 nd January 2014 |

| Name of the Visitor | Designation & Affiliation | Purpose of visit | Date of Visit |
|-----------------------|---|--|--|
| Ganesh Kasturi Rangan | Alumni CSE 1990, Lucent Tech, USA | Lecture on "Wireless Networks" | 08 th January 2014 |
| Manu Basavaraju | Post-Doctoral Fellow, Dept. of Informatics, University of Bergen, Norway | Expert Lecture on "Introduction to Kernelization and Parameterized Algorithms" | 26 th February 2014 |
| Barrett R Brayant | Professor and Chair, Department of Computer Science and Engineering University of North Texas, USA | Expert Speaker for ISS-LESE 2014 and for CSE Curriculum Restructuring workshop | 5 th – 6 th March 2014 |
| David Lo | Assistant Professor, School of Information Systems Singapore Management University, Singapore | Expert Speaker for ISS-LESE 2014 | 07 th March 2014 |
| Neil Davidson | Professor, University of South Australia, Australia | Expert Speaker for ISS-LESE 2014 | 08 th March 2014 |

Department of Chemistry

STTPs/Schools/Conferences/Seminars/Workshops, etc

| Type of Event | Name of Event | Dates & Duration | Sponsor(s) | Coordinator(s) |
|--------------------|------------------------------|------------------|------------|-------------------------------------|
| National Symposium | CRSI Mid Year Symposium-2013 | July 12-13, 2013 | CRSI, NITK | Arun M. Isloor & Darshak R. Trivedi |

Department of Electronics And Communication Engineering

Technical Events organized STTPs/Schools/Conferences/Seminars/Workshops, etc.

| Type of Event | Name of Event | Dates & Duration | Sponsor(s) | Coordinator(s) |
|---------------|---|--|----------------------|---|
| Workshop | Embedded Systems Development | 12 th & 13 th April 2013 | TEQIP - II | Aparna P. Ramesh Kini |
| Workshop | Comsol Multiphysics | 22 nd August 2013 | Dept. of E & C Engg. | M S Bhat |
| Workshop | Induction Training Programme for Newly Recruited Faculty | 1 st – 4 th July 2013 | TEQIP - II | U Sripathi Prashantha Kumar H M R Arulalan |
| Workshop | Emerging Trends in Optical Communication Systems & Networks ETOCSN - 2013 | 5 th and 7 th September 2013 | TEQIP - II | Prashantha Kumar H Aswini Chaturvedi |
| Workshop | Recent Trends In Signal Processing And | 13 th – 14 th September 2013 | TEQIP - II | A V Narasimhadhan P Srihari |

| | | | | |
|----------|---|--|------------------|--------------|
| | Communication Technologies (RTSCT-2013) | | | |
| Workshop | Big Data Analytics and Applications | 23 rd - 24 th October 2013 | TEQIP - II | M R Arulalan |
| Workshop | Advanced Linear Algebra and its applications in Signal and Image Processing | 18th to 21st January 2014 | TEQIP - II | M R Arulalan |
| Workshop | Embedded Project Ideation Workshop for Students with INTEL India | 22nd March 2014 23rd March 2014 | INTEL, Bangalore | Ramesh Kini |
| Workshop | Research Topics on Information Theory | 29th March 2014 30th March 2014 | TEQIP - II | U Sripati |

Foreign Visitors to Department

| Name of Visitor | Designation & Affiliation | Purpose of visit | Dates of Visit |
|------------------|---|--|--|
| Pradeep K Atrey | Dept. Of Applied Computer Science, University of Winnipeg, Canada | Expert Lecture: Multimedia processing over the cloud | 24 th August 2013 |
| Arun K Majumdar | Senior Scientist, Ridgecrest, California USA | Workshop ETOCSN -2013 Lecture topic: FSO Communications Fundamentals and Advanced Concepts Advances in FSO | 5 th and 7 th September 2013 |
| Eberhard Hechler | Executive Architect, IBM Singapore | Delivered lectures on Big Data Analytics and Applications | 23 rd - 24 th October 2013 |
| Prasad Sudhakar | Catholic Univ. Belgium | Expert lecture: Compressed Domain Signal Processing Advanced Linear Algebra in Image & Signal Processing | 20th January 2014 21st January 2014 |

Department of Electrical & Electronics Engineering

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

| Type of Event | Name of Event | Dates & Duration | Sponsor(s) | Coordinator(s) |
|--------------------|---|--|---------------------------------|-------------------------------|
| Two-day's Workshop | Selected Topics Research in Electrical Power (STREP-2013) | 28 th and 29 th September 2013- two days | NITK TEQIP-II | G S Punekar and A Karthikeyan |
| Two-day's Workshop | Principles of analog / digital measurements and hardware debugging techniques | 19-20 th September 2013 | NITK and Ms. Agilent Technology | K.P Vittal, A Karthikeyan |

| | | | | |
|----------------------|--|-------------------------------|-------------------------------------|------------------------------|
| Three-day's Workshop | Short term course on Power Electronics in Distributed Generations | February 7-9, 2014 | NITK, NaMPET An Initiative of DIETY | P Pathiban, Dr. A Kathikeyan |
| Invited lecture | Lecture 1 General Power delivery on computer chips and power managements Lecture 2: How to write and way to write papers, patents and publications | 31 st January 2014 | NITK | K.P Vittal |

Foreign Visitors to Department

| Name of Visitor | Designation & Affiliation | Purpose of visit | Dates of Visit |
|----------------------|--|---|----------------------------------|
| Subhasis Nandi | Professor, University of Victoria | Invited lecture on 'Fault Analysis and condition monitoring of electric machines' | 23 rd January 2014 |
| Bidhyut Bhattacharya | Intel Corporation, chip design Currently with NIT Agartalla | Expert talk on Laptop and smart devices Battery design | 5 th February 2014 |
| Uday Mahskar | APC Snider | Expert talk on Smart grid | 28 th September, 2013 |

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) |
|---------------|-------------------------|-------------------|------------|---------------------|
| Workshop | Workplace Sensitisation | 22 November, 2013 | NITK | Shashikantha Koudur |

Summer University 2014

As part of MOU with University of Applied Sciences, Western Switzerland, School of Business and Engineering Vaud (HEIG-VD), Switzerland; 'Summer University 2014' was organized at NITK on Business Engineering and Intercultural Communication from February 21 – March 6 2014. Dr. Bijuna C.Mohan coordinated the programme.

Foreign Visitors to Department

| Name of Visitor | Designation & Affiliation | Purpose of visit | Dates of Visit |
|---|--|---|----------------------------|
| Laurence Larghi | Swiss Professor, School of Business and Engineering, HEIG-VD, Switzerland | Faculty and Student Exchange programme | 20 - 27 November 2013 |
| Laurence Larghi Bernard Collet Eytan Zysman | Swiss Professors, School of Business and Engineering, HEIG-VD, Switzerland | Summer University on Business Engineering and Intercultural communication | February 21 – March 6 2014 |
| Srivatsa Sheshadri | Professor, University of Nebraska, USA | Invited Lecture | 5 August 2013 |
| Prabhudev Konana | Professor, University of Texas, Austin, USA | Invited Lecture | 22 August 2013 |

Department of Information Technology

STTPs/Schools/Conferences/Seminars/Workshops, etc

| Type of Event | Name of Event | Dates & Duration | Sponsor(s) | Coordinator(s) |
|---------------|--|------------------|---------------|--------------------------------|
| Workshop | Research Trends in Information Technology | 11-12 July 2013 | TEQIP-II | Dinesh Naik Biju R Mohan |
| Workshop | Virtualization | 27 Sept. 2013 | TEQIP-II | Dinesh Naik Biju R Mohan |
| Workshop | Attacks of different layers of TCP/IP and tools for analysis | 10-11 Oct. 2013 | TEQIP-II | Jaidhar C D Dinesh Naik |
| Guest Lecture | Heterogeneous Computing by Dr. Prakash S R, Principal Member of Technical Staff, AMD India Pvt. Ltd. Bangalore | 25 Oct. 2013 | TEQIP-II | Ananthanarayana V S |
| Conference | Advanced computing, Networking and security(ADCONS) | 15-17 Dec. 2013 | TEQIP-II | Ananthanarayana V S Annappa |
| Guest Lecture | Mobile Computing & Research Trends by Prof. Nabanita Das, ISI Calicut | 24 Jan. 2014 | IT Dept, NITK | Ananthanarayana V S |
| Workshop | Software Testing | 24 Feb. 2014 | TEQIP-II | Dinesh Naik Biju R Mohan |

Department of Mathematical And Computational Sciences

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

| Type of Event | Name of Event | Dates & Duration | Sponsor(s) | Coordinator(s) |
|---------------|--|-----------------------|------------|-----------------------------------|
| Workshop | Number Theory and Cryptology | September 13-14, 2013 | NITK | B.R. Shankar |
| Workshop | One Day Workshop on Restructuring and Renaming of the M.Tech. Programme of the Dept. of M.A.C.S. | September 28, 2013 | NITK | S. S. Kamath and Murulidhar N. N. |
| Workshop | Fifth Meeting of the DST Expert Committee on Physical and Mathematical Science & Group Monitoring Workshop on Fast Track Proposals | January 2-4, 2014 | DST | B.R. Shankar |
| Workshop | 2 nd One Day Workshop on Restructuring and Renaming of the M.Tech. Programme of the Dept. of M.A.C.S. | January 25, 2014 | NITK | S. S. Kamath and Murulidhar N. N. |

Department Of Mechanical Engineering

STTPs/Schools/Conferences/Seminars/Workshops, etc

| Type of Event | Name of Event | Dates & Duration | Sponsor(s) | Coordinator(s) |
|--------------------------|---|--|---|---|
| International Conference | International Conference on Advances in Manufacturing and Materials Engineering (ICAMME - 2014) | 27-29 March, 2014 3 Days | TEQIP, CSIR, JSW Steel Limited, ONGC Mangalore Petrochemicals Limited | Narendranath S. Ramesh M.R. D.Chakradhar M. Doddamani Srikanth Bontha |
| National Workshop | Dynamic Analysis of Machines and Structures (DAMS 2014) | 29 th Jan 31 st Jan 2014, 3 Days | TEQIP | Jeyraj P. and Hemantha kumar |
| National Workshop | Numerical and Experimental based Stress Analysis | 16-19 Dec, 2013 | TEQIP-II | S. M. Murigendrappa and G.C. Mohan Kumar |
| National Workshop | Recent trends in design & precision engineering | 9-12 December 2013 | TEQIP-II | G.C. Mohan Kumar |
| National Workshop | Cutting Edge Technologies For Diesel Engines | 20-22, March, 2013, | TEQIP | Kumar G.N & Veershetty G |
| STTP | Nanofluids | 26-29 Aug 2013 | Mechanical Engg. Dept./ Kumamoto University | Ajay K. Yadav |
| STTP | Renewable energy | 06-08 Jan 2014 | Mechanical Engg. Dept./ ISRO | Ajay K. Yadav |

Foreign visitors to Department

| Name of the visitor | Designation and Affiliation | Purpose of visit | Date of visit |
|---------------------|---|--------------------------------|-----------------------------|
| Prof. Shuichi TORII | Professor, Department of Mecanical Engg, Kumamoto university,Japan | Technical Invited Talk | 14th March,2013 |
| Michel Kocher | Summer University Switzerland | MS and R&D exchange programme | 28-2-1012 |
| Jean Bernord Mickle | Professor School of Business and Engineering, Vaud Switzerland | MS and R&D exchange programme | 28-2-1012 |
| Amod A Ogle | Professor, Clemson University, Clemson, SC | Keynote Speaker for conference | 27 th March 2014 |
| Svetlana | Research scholar, Dept. of material science Engg., Ural Federal university, Russian federation. Russian | Paper Presenter | 27 th March 2014 |
| Prem Gunnasegaran | Malaysia | Paper Presenter | 27 th March 2014 |
| Gyula Hermann | Hungary | Paper Presenter | 27 th March 2014 |
| Agnes Zentai | Hungary | Paper Presenter | 27 th March 2014 |

Department Of Mining Engineering

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

| Type of Event | Name of Event | Dates & Duration | Sponsor(s) | Coordinator(s) |
|------------------|---|---|----------------------------|--------------------------------|
| Workshop | National Workshop on Recent Developments in Rock Mechanics and Ground Control | 01 st October,2013 to 3rd October,2013 | Different Mining Companies | Ch.S.N Murthy |
| National Seminar | National Seminar on Explosives & Blasting Techniques for Mining, Quarrying & Infrastructure Industry (EBTMIQI). | 27-09-2013 to 28-09-2013 | Different Mining Companies | V.R. Sastry and K. Ram Chandar |

Department of Metallurgical & Materials Engineering

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

| Type of Event | Name of Event | Dates & Duration | Sponsor(s) | Coordinator(s) |
|-----------------------------|--|----------------------|---------------------|---|
| Workshop | Selected Topics in Metallurgical and Materials Engineering | 22-24 January, 2014. | TEQIP-II | K.N.Prabhu, S. Anandhan, S.B.Arya, Sreeram K. Kalpathy, Rizwan Rahman |
| International Winter School | Organic Electronic Materials & Devices (OEMD-2013) | Dec 19-21, 2013 | NITK, BRNS, MSU-USA | M.N. Sathyanarayana Udaya Bhat K. |

Foreign Visitors to Department

| Name of Visitor | Designation & Affiliation | Purpose of visit | Date of visit |
|-----------------|-------------------------------|-------------------------------|---------------|
| V. Ramachandran | Metallurgical Consultant, USA | T. Ramchandran Lecture Series | 01-11-2013 |

Department Of Physics

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

| Type of Event | Name of Event | Dates & Duration | Sponsor(s) | Coordinator(s) |
|-----------------------------|--|------------------------|--|-----------------------------------|
| Workshop | INSPIRE Science Camp for Youth | December 16 - 21, 2013 | DST, Govt. Of India | Ajith K.M., M.N. Satyanarayan |
| International Winter School | Organic Electronic Materials & Devices (OEMD-2013) | 19-21 December 2013 | NITK, TEQIP-II programme and Board of Research for Nuclear Sciences (BRNS) | M. N. Satyanarayan, Udaya K. Bhat |

Foreign Visitors to Department

| Name of Visitor | Designation & Affiliation | Purpose of visit | Dates of Visit |
|-----------------|----------------------------------|------------------------|-----------------|
| Philip Duxbury | Michigan State Univ., USA | International Workshop | 16-21 Dec, 2013 |
| Ruby Ghosh | Michigan State Univ., USA | International Workshop | 16-21 Dec, 2013 |
| S. D. Mahanty | Michigan State Univ., USA | International Workshop | 16-21 Dec, 2013 |
| Z. Ghassemlooy | Univ of Northumbria, UK | International Workshop | 16-21 Dec, 2013 |
| B. Engler | Chemnitz University, Germany | International Workshop | 16-21 Dec, 2013 |
| Deep Prakash | Chemnitz University, Germany | International Workshop | 16-21 Dec, 2013 |
| S. Ramakrishna | Northwestern Univ. Illinois, USA | Special Lecture | 19 Nov 2013 |

CONSULTANCY PROJECTS

Department of Applied Mechanics And Hydraulics

| Name of consultancy job | Client | Name of investigators (s) | Consultancy amount (Rs. In Lakhs) |
|--|---|---|------------------------------------|
| Consultancy towards verification of surge analysis report | M/s Megha Engg. Infrastructures Ltd., Hyderabad | S.G.Mayya | 3.86 |
| Consultancy towards verification of surge analysis report of Lift 1 & Lift 2 of Pranahita-Chevella Lift Irrigation | M/s Megha Engg. Infrastructures Ltd., Hyderabad | S.G.Mayya | 1.29 |
| Rural Water Supply project for 11 villages of Mangalore Taluk with vented dam across Gurupur river at Malavoor village | D.K.Panchayath Raj Engg. Division, Mangalore | S.G.Mayya, A.Mahesha, Subba Rao, M.K.Nagaraj and Manu | 7.50 |
| Consultancy charges towards report on surge analysis for Lift- 3 of Chintalapudi Lift Irrigation Scheme at Pumping Station-3 | M/s Megha Engg. Infrastructures Ltd., Hyderabad | S.G.Mayya & A.Mahesha | 4.50 |
| Consultancy charges towards report on surge analysis for Lift-2 of Chintalapudi Lift Irrigation scheme at PS-2 | M/s Megha Engg. Infrastructures Ltd., Hyderabad | S.G.Mayya & A.Mahesha | 8.42 |
| Consultancy charge towards report on surge analysis for Lift -1 of Chintalapudi Lift Irrigation scheme at PS-I | M/s Megha Engg. Infrastructures Ltd., Hyderabad | S.G.Mayya & A.Mahesha | 4.50 |

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 | M/s. New Mangalore Port Trust, Mangalore | HOD with other faculty | From March 2013 to April 2014 | 6,79,142.00 |
| AAQ, Noise, DG Stack, Drinking water, ETP water, Slag Powder, Lime, Oil, Sulphate of Potash, Urea, Sludge, Di-ammonium Phosphate, Palmolien Oil, Coconut oil, Alum, Ash | M/s. Air Port Authority of India, Mangalore, M/s. Gate Way Hotel, M/s. Manipal Technologies, M/s. United Toyota, M/s. Eswari Metal Industries, M/s. Primacy Industries, | -do- | From March 2013 to April 2014 | 5,85,648.00 |

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|--|---|--|--|--|
| | Control Board, Mangalore.M/s. Aspinwall | | | |
|--|---|--|--|--|

Department of Civil Engineering

| Name of Consultancy Job | Client | Name of Investigator(s) | Period | Consultancy Amount (Rs) |
|--|--|--|--|-------------------------|
| G.S.B. , WMM, Dense Bitumen Macadam, Bituminous Concrete & Mix design | K.I.A.D.B., Mangalore (B.No. 10261 dt. 15.3.2013) | A.U. Ravi Shankar | Letter dated: 28.1.2013 & 8.2.2013 Report dated: 13.3.2013 | 68,390.00 |
| Bitumen Mix Design | M/s. Rama Kamath & Co. (B. No. 10300 dt. 8.4.2013) | A.U. Ravi Shankar | Letter dated: 12.3.2013 Report dated: 26.3.2013 | 52,247.00 |
| Soil test report | Mercator Limited (B.No. 10450 dt. 18.4.2013) | B. M. Sunil | Letter dated: 1.2.2013 Report dated: 21.3.2013 | 74,158.00 |
| Proof checking towards the proposed RCC wall framed G+3 structures for affordable housing at Kokatta for Govt. of West Bengal | Mr. Vijayananda iMPRiNTS (B.No. 10461 dt. 25.4.2013) | Katta Venkataramana & K.S.Babu Narayan | Letter dated: 22.8.2013 Report dated: 23.4.2013 | 50,000.00 |
| Marshall Density & stability test of BC | ANS Constructions Ltd. (B.No. 10488 dt. 9.5.2013) | A.U. Ravi Shankar Suresha S.N. | Letter dated: 19.4.2013 Report dated: 9.5.2013 | 61,798.00 |
| Soil testing for pavement design(D.K. District)-1 | Sri Vinayaka Consultants, Mysore (B.No. 10803 dt. 23.9.2013) | A.U. Ravi Shankar Sitaram Nayak | Letter dated: 14.8.2013 Report dated: 23.8.2013 | 50,000.00 |
| Proof Checking towards the proposed construction of Delhi Administration class room G+IRCC wall & Toilet Block structure at Delhi | Mr. Vijayananda iMPRiNTS (B.No. 10855 dt. 22.10.2013) | Katta Venkataramana & K.S. Babu Narayan | Letter dated: 4.4.2013 Report dated: 28.5.2013 | 65,000.00 |
| Technical report on construction of school building, staff quarters and boundary wall for Kendriya Vidyalaya Bagalkot (CL-Excel sheet) | Everest Constructions (B.No. 10882 dt. 12.11.2013) | K.S. Babu Narayan Subhash C. Yaragal B. M. Sunil | Letter dated: 14.9.2013 Report dated: 11.11.2013 | 67,416.00 |
| Mix Design, Water test, & Material test report | Kalpataru Power Transmission Ltd. | Subhash C. Yaragal | Letter dated: 16.7.2013 | 1,41,686.00 |

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| | (B.No. 10895 dt. 20.11.2013 & (B.No. 10901 dt. 25.11.2013) | C. Rajasekaran | Report dated: 24.1.2014 | |
| Soil testing for pavement design (Udupi-District-total 32kms)-I | Kiran Consultant, Mysore (B.No. 10914 dt. 28.11.2013) | A.U. Ravi Shankar Sitaram Nayak | Letter dated: 26.8.2013 Report dated: 5.9.2013 | |
| Soil testing for pavement design (Udupi-District-total 30.5kms)-II | Kiran Consultant, Mysore (B.No. 10915 dt. 28.11.2013) | A.U. Ravi Shankar Sitaram Nayak | Letter dated: 26.8.2013 Re port dated: 16.9.2013 | 69,683.00 |
| GSB Mix Design, Soil and Aggregate test | Durgamba Constructions B. No. 10747 dt. 21.8.2013 & B. No. 11509 dt. 20.3.2014 | B. M. Sunil Suresha S.N. | Letter dated: 1.8.2013 Re port dated: 12.9.2013 & 1.10.2013 | 1,18,652.00 |
| Design vetting of road cum pipe line corridor across NH 66 (Pipe rack crossing) | Head (Technical) MSEZL (B.No. 11163 dt. 24.1.2014) | K.S. Babu Narayan Sitaram Nayak | Letter dated: 31.10.2013 Re port dated: 22.11.2013 | 1,60,000.00 |
| Mix design | B.K Infratech Pvt. Ltd. (B.No. 10222 dt. 4.3.2013; (B.No. 10291 dt. 25.3.2013) & (B.No. 11395 dt. 14.3.2014) | Subhash C. Yaragal | Letter dated: 30.4.2013 Re port dated: 20.6.2013 | 1,76,855.00 |
| Rock Test Report(Project: Constructino of PTP Plant of JBF at MSEZ-site N01 Culvert crossing across spine road 9 location) | Mr. M. Manohar Rao (B.No. 11527 dt. 10.4.2014) | Sitaram Nayak B. M. Sunil | Letter dated: 18.12.2013 Re port dated: 4.2.2014 | 53,933.00 |

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 Sripathi T Laxminidhi | 01-07-2013 01-05-2014 | Rs. 9.0 Lakhs |
| Technical Consultancy for Selection of Currency Note Sorting Machines | Corporation Bank | U Sripathi T Laxminidhi | 05-07-2013 31-10-2013 | Rs. 3.5 Lakhs |

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| Technical Consultancy for Selection of Currency Note Sorting Machines | Vijaya Bank | U Sripati T Laxminidhi | 01-08-2013 31-10-2013 | Rs. 4.0 Lakhs |
| Technical Consultancy for Selection of Currency Note Sorting Machines | Corporation Bank | U Sripati T Laxminidhi | 15-10-2013 31-04-2014 | Rs. 7.5 Lakhs |

Department of Mining Engineering

| Name of Consultancy Job | Client | Name of Investigator(s) | Period | Consultancy Amount (Rs) |
|--|---|-------------------------------|---|-------------------------|
| Consultancy Project On Controlled Blasting Methodology | Bangalore Metro Railway Corporation Ltd. | V.R.Sastry & K.RamChandar | 2011-2015 (4 YEARS) | 24 Lakhs, |
| Blasting studies using SME Explosives in Bellampalli area- SCCL | The Chief General Manager (R&D) Singareni Collieries Co.Ltd. Kothagudem | V.R Sastry and K. Ram Chandar | From 1st April, 2013 to 31st March,2014 | 4,83,513/- |
| Rock Dredging of Iron Harbour Chand and TC in VPT | M/s. Dharti Dredging & Infrastructure Ltd., Punjagutta, Hyderabad | V.R Sastry | From 1st April, 2013 to 31st March,2014 | 8,42,700/- |
| M/s. P.V Granites, Kerala | M/s. P.V Granites, Kerala | V.R Sastry and K. Ram Chandar | From 1st April, 2013 to 31st March,2014 | 84,270/- |
| Testing of road Sampler | M/s. Associated Road Samplers Plot No.159A, Industrial Area,Bycompady,Mangalore. | M.Aruna | From 1st April, 2013 to 31st March,2014 | 8,989/- |
| Ground vibration study | | | From 1st April, 2013 to 31st March,2014 | 84,270/- |
| Study of Trial Blasting | M/s. SajiSestian, Owner, building Stone Mine Kizhakkambalan Village KunnamunadTq Ernakulum Dist. Kerala | V.R.Sastry and K. Ram Chandar | From 1st April, 2013 to 31st March,2014 | 84,270/- |
| Scientific study of Blasting operations with reference to Ground Vibration | M/s. Chettinad Cement Corp. Ltd. Karikkali Tamilnadu | V.R.Sastry and K. Ram Chandar | From 1st April, 2013 to 31st March,2014 | 6,06,745/- |
| Scientific study of slope stability of | Zeeneth Transport Company ZennethOuse, Bellary- 583102 | MAruna and HarshaVardhan | From 1st April, 2013 to | 1,00,000/- |

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| Ramghad Iron Ore Mine. | | | 31st March,2014 | |
| | M/s. Mineral Enterprises Bangalore | MAruna | From 1st April, 2013 to 31st March,2014 | 79,000/- |
| Consultancy for salamander Blasting for BF-1 Unit, VSP | M/s. Rastriyalspat Nigam Ltd. Vishakapattanam Steel Plant Vishakapattanam | V.R.Sastry | From 1st April, 2013 to 31st March,2014 | 3,37,080/- |
| Ground vibration study in DBK Lime stone Ltd. | M/s. Ramco Cements Ltd. Mathod post HoasadurgaTq ChitradurgaDist, Karnataka | V.R.Sastry and K. Ram Chandar | From 1st April, 2013 to 31st March,2014 | 2,52,810/- |
| Ground vibration study in stone quarry, Renjala village, Karkala. | M/s. RMC Redymix (India) Ranjala Village, Karkala ,Udupi | V.R.Sastry and K. Ram Chandar | From 1st April, 2013 to 31st March,2014 | 84,270/- |
| Study of SME Trial Blast | N.M.D.C Ltd. Kumaraswamy Iron Ore Mine PO Donimalai , Township Sandur, Bellary Dist., Karnataka | V.R.Sastry and K. Ram Chandar | From 1st April, 2013 to 31st March,2014 | 3,37,080/- |
| Ground Vibration Study at VicatSagar Limestone Mine. | M/s. VikagtSagar Cement Pvt.Ltd. ,Banjara hills Hyderabad | V.R.Sastry and K. Ram Chandar | From 1st April, 2013 to 31st March,2014 | 2,24,720/- |
| Demarkation of 1 K.M Core zone and 2 Km. | The Department of Mines &Geology, Govt. of Karnataka | M.Aruna and HarshaVardhan | From 1st April, 2013 to 31st March,2014 | 1,51,686/- |
| Study of Ground Vibrations | M/s.Hanna Rock Products South Marady P.O Meenkunnam Muvattupuzha-686673 | V.R.Sastry | From 1st April, 2013 to 31st March,2014 | 84,270/- |
| Study of Ground Vibrations at stone quarrey | Stone Quarry , C/o Sri Rajesh .S Aruvikkara, Village NedumangadTq, Trivendrum Dist. Kerala | V.R.Sastry | From 1st April, 2013 to 31st March,2014 | 84,270/- |
| Controlled Vibration study | KMC- VDB Door No-842/A, 3rd Floor Binnamangala, 100feet road Indiranagar Bangalore | V.R.Sastry | From 1st April, 2013 to 31st March,2014 | 1,68,540/- |
| Certification of survey works in Joga/ Bavihills village, SandurTaluk. | The Department of Mines & Geology, Govt. of Karnataka | M.Arana and HarshaVardhan | From 1st April, 2013 to 31st March,2014 | 16,854/- |

Department Mechanical Engineering

| Name of Consultancy Job | Client | Name of Investigator(s) | Period | Consultancy Amount (Rs) |
|---|---|---|-----------|-------------------------|
| Vibration analysis of Sinter Plant | SESA Goa | K V Gangadharan | 2013-2014 | 1.00 Lakhs |
| Optimization of clearing Air usage in fabric filters | Thermax Ltd | K V Gangadharan Ravikiran Kadholi Vijay Desai | 2011-2013 | 3.00 Lakhs |
| Damping characterization of different material | Different clients | K V Gangadharan | 2013-2014 | 0.10 Lakhs |
| Technical Supervision, Scrutinisation and certifying the work of Installation of cold storage unit at Mangalore | Karnataka Fisheries Development corporation Limited, Hoige Bazar, Mangalore | | 2012-2013 | 2.66 Lakhs |

15 HUMAN RESOURCE DEVELOPMENT

15.1 TRAINING STATUS

Department of Civil Engineering

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|---|----|
| Total number of faculty & staff trained during the period of report | 03 |
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| Name of faculty/staff | Title of training program | Organization | Dates & Duration of training |
|-----------------------|--|--|---|
| Suresha S. N. | Induction Training Program for Newly Recruited Faculty | TEQIP-II, NITK Surathkal. | July 1 - 4, 2013 |
| Suresha S. N. | International Course on Dissemination of HDM-4 | CSIR-Central Road Research Institute, New Delhi. | Two Weeks, 16 th – 27 th September, 2013. |
| Devatha C P | Faculty Development Programme for Newly Recruited Faculty at NITK, Surathkal | DST, Govt. of India | 10 days (Dec 16-26, 2013) |
| Devatha C P | Applied Groundwater Flow and Contaminant Transport Modeling | Schlumberger Water Services, Canada | 3 days (Jan 27-29, 2014) |
| Arun Kumar Thalla | Induction Training Program for Newly Recruited Faculty | TEQIP-II, NITK Surathkal. | July 1 - 4, 2013 |

Department of Chemical Engineering

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| Total No. of faculty & Staff trained during the period of report | 06 |
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| Name of faculty & Staff | Title of Training programme | Organisation | Dates & Duration of Training |
|-------------------------|--|---|---|
| PRASANNA B.D | Khorana Program Technology Transfer Course 2013” | University of Wisconsin-Madison, (UW) USA. in partnership with Indo-US Science & Technology Forum (IUSSTF). | July 22 nd – August 3rd 2013 |
| PRASANNA B.D | MHRD sponsored training program “How to promote innovation and IP in HEIs” | Professorial Chair on IPR, IIT Roorkee. | February 03-07, 2014, One week |
| Keyur Raval | Faculty Induction program, | TEQUIP-II team of NITK Surathkal | Five days in may 2013 |
| S. Noyel Victoria | Faculty Induction program, | TEQUIP-II team of NITK Surathkal | Five days in may 2013 |
| Ruben Sudhakar D. | Faculty Induction program | NITK-STEP sponsored by DST | Two weeks during December 2013 |
| B. Ashraf Ali | Faculty Induction program | NITK-STEP sponsored by DST | Two weeks during December 2013 |

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|--------------------|--|---|--------------------------------|
| T.K. Jaganathan | Faculty Induction program | NITK-STEP sponsored by DST | Two weeks during December 2013 |
| Raj Mohan B | UNESCO-IHE Training Program on Nanotechnology for Water and Wastewater Treatment | Netherlands Fellowship Program (NUFFIC) | Two Weeks March to April 2014 |

Department of Computer Engineering

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| Total number of faculty trained during the period of report | 08 |
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| Name of the faculty/ staff | Title of the training program | Organization | Dates & Duration of training |
|----------------------------|---|---|---|
| K.Chandrasekar an | Industry Institute Interaction-Role of Alumni | ----- | 01 day, 31 st August 2013 |
| K. Vinay Kumar | Accreditation awareness workshop | Dr. D.K Paliwal, Member Secretary, NBA | 02 day, 23 rd -24 th August 2013 |
| | NBA accreditation workshop | NITK- Surathkal | 02 day, 14 th -15 th March 2014 |
| Vani M. | Training program for "Turnitin" | NITK- Surathkal | 22 nd August 2013 |
| | NBA accreditation workshop | NITK- Surathkal | 02 day, 14 th -15 th March 2014 |
| Annappa | Training program for "Turnitin" | NITK- Surathkal | 22 nd August 2013 |
| | Accreditation awareness workshop | Dr. D.K Paliwal, Member Secretary, NBA | 02 day, 23 rd -24 th August 2013 |
| | Industry Institute Interaction-Role of Alumni | ----- | 01 day, 31 st August 2013 |
| | Building Institutions of Higher Education for Tomorrow | International Management Institute (IMI), New Delhi | 02 day, 26 th – 27 th December 2013 |
| | Workshop on "Online certification courses on programming, Data structures & algorithms" | IIT Madras | 01 day, 25 th February 2014 |
| | NBA world summit WOSA'13 | Delhi | 03 days, 08 th – 10 th March 2014 |
| Saumya Hegde | NBA accreditation workshop | NITK- Surathkal | 02 day, 14 th -15 th March 2014 |
| | Training program for "Turnitin" | NITK- Surathkal | 22 nd August 2013 |
| Shashidhar G. Koolagudi | Industry Institute Interaction-Role of Alumini | ----- | 01 day, 31 st August 2013 |

| Name of the faculty/ staff | Title of the training program | Organization | Dates & Duration of training |
|----------------------------|---|---|--|
| | Workplace Sensitization | I.I.T. Mumbai, Tata Institute of Social Sciences - Mumbai, Jindal Global Law School - Delhi | 01 day, 22 nd November 2013 |
| Mohit P. Tahiliani | NBA accreditation workshop | NITK- Surathkal | 02 day, 14 th -15 th March 2014 |
| Ravindranath Chowdary C. | Workplace Sensitization | I.I.T. Mumbai, Tata Institute of Social Sciences - Mumbai, Jindal Global Law School - Delhi | 01 day, 22 nd November 2013 |
| | Accreditation awareness workshop | Dr. D.K Paliwal, Member Secretary, NBA | 02 day, 23 rd -24 th August 2013 |
| Basavaraj Talawar | Workplace Sensitization | I.I.T. Mumbai, Tata Institute of Social Sciences - Mumbai, Jindal Global Law School - Delhi | 22 nd November 2013 |
| | NBA accreditation workshop | NITK- Surathkal | 02 day, 14 th -15 th March 2014 |
| Shashidhar G. Koolagudi | Industry Institute Interaction-Role of Alumni | ----- | 01 day, 31 st August 2013 |
| | Workplace Sensitization | I.I.T. Mumbai, Tata Institute of Social Sciences - Mumbai, Jindal Global Law School - Delhi | 01 day, 22 nd November 2013 |

Department of Electrical & Electronics Engineering

| Name of faculty/staff | Title of training program | Organization | Dates & Duration of training |
|---|--|--------------------------------|---|
| G S Punekar | Preconference Tutorial of IEEE-CATCON 2014 conference held at Jadavpur unvieristy Kolkata. | Jadavpur unvieristy Kolkata | One day, December 6, 2013 |
| G S Punekar, Karthikeyan, K P Vittal and A Chaturvedi | NBA accreditation process awareness workshop At NITK | NITK | One day August 31 st 2013 |
| G S Punekar | Accreditation workshop WOSA at New Delhi | NBA | 3 days March 8-10, 2014 |

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| G S Punekar, Dr. Karthikeyan, K P Vittal and A Chaturvedi | NBA accreditation process awareness workshop At NITK | NITK | One day March 15, 2014 |
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Department of Electronics & Communication Engineering

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| Total number of faculty & staff trained during the period of report | 03 |
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| Name of faculty/staff | Title of training program | Organization | Dates & Duration of training |
|-----------------------|---|------------------------------|------------------------------|
| P Srihari | VLSI Signal Processing | IIT Kharagpur | December 03-07, 2013 |
| Shyam Lal | Image Processing Techniques with Multidisciplinary Applications | IIT Roorkee | March 03-07, 2014 |
| Sanjeeva Poojary | Capacity Building Training Program | Shruth & Smith, Bangalore | January 28-31, 2014 |

Department of Humanities Social Sciences & Management

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|---|---|
| Total number of faculty & staff trained during the period of report | 5 |
|---|---|

| Name of faculty/staff | Title of training program | Organization | Dates & Duration of training |
|-----------------------|---|---|--|
| Sunil C. D'Souza | Entrepreneurship Development program | NITK- STEP, Surathkal in association with EDII, Ahmedabad Sponsored by Department of Science & Technology, Govt. of India, and New Delhi | 16 Dec. – 26 Dec, 2013. 11 days Program |
| Sunil C. D'Souza | FDP on Doctoral Research in Marketing and Behavioral Sciences | IIM, Kozhikode | 1 July - 5 July 2013 5 Days Program |
| S. Pavan Kumar | Entrepreneurship Development program | NITK - STEP, Surathkal in association with EDII, Ahmedabad Sponsored by Department of Science & Technology, Govt. of India, and New Delhi | 16 Dec. – 26 Dec, 2013. 11 days Program |
| Sheena | FDP on Technology enabled teaching and learning | IIM, Kozhikode | November 4 – 8 2013 |
| Sreejith A | Induction Training Programme | TEQIP Phase II, NITK Surathkal | 1-4 July 2013 |
| Sreejith A | Research Trends in Information Technology (RTinIT 2013 | TEQIP Phase II ,Department of Information | 11-12 July 2013 |

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| | | Technology, NITK Surathkal | |
| Sreejith A | Workshop on "Big Data Analytics" | TEQIP-II, NITK Surathkal | October 23-24, 2013 |
| Savita Bhat | Workshop on Research Trends in Information Technology (RTinIT 2013) | Department of IT, NITK [TEQIP Phase II Sponsored] | 11-12 July 2013 [2-Days] |
| Savita Bhat | Orientation on Outcome Based Education and Accreditation [National Board of Accreditation] | NITK [TEQIP Phase II Sponsored] | 23-24 August 2013 [2-Days] |
| Savita Bhat | Faculty Development Program | NITK-STEP, Sponsored by DST, GOI | 16-26 December 2013 [10-Days] |
| Savita Bhat | Interactive Workshop on Metaphor Analysis and Ethnography Research | IIM Lucknow (Noida campus) [State Bank of India and IMRB International Sponsored] | 8-9 January 2014 [2-Days] |

Department of Information Technology

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|---|---|
| Total number of faculty & staff trained during the period of report | 5 |
|---|---|

| Name of faculty/staff | Title of training program | Organization | Dates & Duration of training |
|-----------------------|---|-----------------------------|------------------------------|
| Ananthanarayana V S | NBA-Accreditation Awareness | NITK, Surathkal | 23-24 August 2013 |
| | TEQIP Conclave on Enhancing Quality of Technical Education and Research | IIT, Hyderbad | 30-31 August 2013 |
| | Outcome Based Education and Accreditation for NBA Chairpersons and Evaluators | NMIMS Bangalore Campus | 7-8 September 2013 |
| G. Ram Mohana Reddy | TEQIP Conclave on Enhancing Quality of Technical Education and Research | IIT, Hyderbad | 30-31 August 2013 |
| Sowmya Kamath S | Workshop on "Big Data Analytics" | Dept of E&C, NITK Surathkal | 23-24 October, 2013 |
| | Workshop on "Advanced Mathematics (Linear Algebra)" | Dept of E&C, NITK Surathkal | 18-21 January, 2014 |
| Jaidhar C D | TEQIP Conclave on Enhancing Quality of Technical Education and Research | IIT, Hyderbad | 30-31 August 2013 |
| Nagamma Patil | Proven Strategies for Effective Teaching | Galgotias University | 29-31 August 2013 |

Department of Mathematical & Computational Sciences

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|---|---|
| Total number of faculty & staff trained during the period of report | 6 |
|---|---|

| Name of faculty/staff | Title of training program | Organization | Dates & Duration of training |
|-----------------------|--|--------------|------------------------------|
| Vishwanath K.P. | Induction Training Programme for newly recruited faculty | NITK | July 1 to 4, 2013 |
| G. Chandhini | Induction Training Programme for newly recruited faculty | NITK | July 1 to 4, 2013 |
| Satyanarayana Engu | Faculty Development Program | NITK | Dec 16 to 26, 2013 |
| I. Jeyaraman | Faculty Development Program | NITK | Dec 16 to 26, 2013 |
| Srinivas Rao Kola | Faculty Development Program | NITK | Dec 16 to 26, 2013 |
| Senthil Thilak | Faculty Development Program | NITK | Dec 16 to 26, 2013 |

Department of Mining Engineering

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| Total number of faculty & staff trained during the period of report | 03 |
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| Name of faculty/staff | Title of training program | Organization | Dates & Duration of training |
|-----------------------|--|--|--|
| B.M. Kunar | Outstanding issues on Hydrological Research in India | NITK | 21/ 10/ 2013 |
| B.M. Kunar | Work place sensitization | NITK | 22/11/2013 |
| B.M. Kunar | 02 nd World Summit on Accreditation | National Board of Accreditation, New-Delhi | 08-10 March 2014 |
| R.P. Choudhary | Work place sensitization | NITK | 22/11/2013 |
| A.K. Tripathi | Work place sensitization | NITK | 22/11/2013 |
| R.P. Choudhary | Research Methodology and experimental design | MNIT, Jaipur | 21 st to 25 th October, 2013 |
| R.P. Choudhary | Work shop on NBA Accreditation | NITK | 14 th - 15 th March |
| B.M Kunar | Work shop on NBA Accreditation | NITK | 14 th - 15 th March |

Department of Mechanical Engineering

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|---|----|
| Total no of faculty and staff trained during the period of report | 12 |
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| Name of faculty/staff | Title of training program | Organization | Dates & Duration of training |
|-----------------------|--|---------------|---|
| Hemantha kumar | Three day workshop on "Engineering Optimization" by Prof S.S. Rao. | IIT Madras | 3 days, 22 nd Dec to 24 th Dec 2013 |
| Hemantha kumar | Research Interactions, Machine Design Section | IIT Madras | 12 days, 11 th June 23 rd June 2013 |
| Hemantha kumar | Induction Program for new Faculty | NITK Surathkl | 4 days during July 2013 |

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|--|--|--|-----------------|
| S.M Kulkarni | Research Interaction | Indian Institute of Science, Bangalore | May-July,2013 |
| Navin Karanth P Mervin A Herbert Shrekantha S. Rao | STTP | IID & M, Kancheepuram | 24-28 June 2013 |
| Ramesh M.R. | Surface Coating Technology | CMTI, Bangalore | |
| Mrityunjay R.Doddamani | Integrated Computational Materials Engineering | Indian Institute of Science, Bangalore | |
| Srikanth Bontha | Additive Manufacturing Technologies and Applications | Additive Manufacturing Society of India (AMSI) and Society of Indian Aerospace Technologies and Industries | |
| Mrityunjay R.Doddamani | Recent trends in design & precision engineering | CMTI, Bangalore | |
| Mrityunjay R.Doddamani | Dynamic Analysis of Machines and Structures | National Institute of Technology Karnataka, Surathkal | Dec. 2013 |
| H Suresh Hebbar | Tribology | Indian Oil Institute of Petroleum Management (IiPM), Gurgaon | |
| P. Jeyaraj | Natural Fiber Composite | Indian Institute of Technology Madras, Chennai | Dec. 2013 |
| Anish S | Faculty Development Program | STEP/NITK | Dec. 2013 |
| M R Doddamani | Faculty Development Program | STEP/NITK | Dec. 2013 |
| Arun M | Faculty Development Program | STEP/NITK | Dec. 2013 |

Department of Metallurgical & Materials Engineering

| Total number of faculty & staff trained during the period of report | | | 4 |
|---|--|-----------------------|------------------------------|
| Name of Faculty | Title of training program | Organization | Dates & Duration of training |
| Sreeram K. Kalpathy Rizwanur Rahman Subray R. Hegde Preetham Kumar G. V. | Faculty Development Programme | NITK, Surathkal | December 15 – 26, 2013 |
| Sreeram K. Kalpathy Rizwanur Rahman Subray R. Hegde Preetham Kumar G. V. | Induction Training Programme for Newly Recruited Faculty | Sponsored by TEQIP-II | July 1 - 4, 2013 |
| Sreeram K. Kalpathy | One-day workshop on Workplace Sensitization | Organized by Dept. of | 22 Nov. 2013 |

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|---------------------|-------------------------------|--|------------------|
| | | Humanities & Soc. Sci., NITK Surathkal | |
| Sreeram K. Kalpathy | Faculty Development Programme | Sponsored by Department of Science and Technology, Govt. of India and organized by STEP, NITK Surathkal. | 16 - 26 Dec 2013 |

PLACEMENT OF STAFF FOR ACADEMIC EXCELLENCE

Department Of Civil Engineering

| Name of Staff/Faculty | Assignment/Recognition/Award |
|-----------------------|--|
| Katta Venkataramana | Eminent Engineer Award by Association of Consulting Civil Engineer (India)- Mangalore Centre. |
| R.Shivashankar | Subject Expert, NBA Accreditation Teams to different Colleges |
| M.C.Narasimhan | Member, Board of Studies in Civil Engineering (PG) at NMAMT, Nitte, Malnad College of Engineering, Hassan and BMS College of Engineering, Bangalore., autonomous Colleges under VTU, Belgaum PhD Thesis Reviewer, Kuvempu University, Mangalore University, and MNIT, Jaipur |
| A.U.Ravishankar | Member, Road Safety and Design Committee (H-7) of the Indian Road Congress, New Delhi Ph.D Theses Reviewer of Bangalore University Member, Board of Studies in Civil Engg., SDM Institute of Engineering and Technology, Dharwad, an autonomous College under VTU, Belgaum. |
| D.V.Reddy | Editor-in-Chief, International Journal of Earth Sciences and Engineering, CAFET-INNOVA Technical Society, Hyderabad. |
| S.Shrihari, | President Institution of Engineers (I), Mangalore Local Centre. National Design Award in Environmental Engineering - 2013, National Design Research Forum, The Institution of Engineers (India). Fulbright Representative, United States - India Educational Foundation. PhD Theses reviewer of Pune University, Andhra University Vishakapatnam, Kerala University Thiruvananthapuram. Expert Committee member, Kerala State Council for Science, Technology and Environment. Referee, Journal of WST – Water, Science and Technology, IJBSR – International Journal of Biomedical Science Research, Academic Research Journal, USA, http://academeresearchjournals.org/journal/ijbsr , IJEE – |

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| | International Journal of Earth Science & Engineering, PJBS – Pacesetter Journal of Biological Sciences, www.pacesetteronlinepublishers.org/pjbs , International Journal of Earth Sciences and Engineering |
| K.S.Babu Narayan | PhD Theses reviewer of Vishveshvariah Technological University, Belagavi, Kuvempu University, Shivamogga |
| K.S.Babu Narayan A.U.Ravishankar M.C.Narasimhan Katta Venkataramana Subhash C.Yaragal A.U.Ravishankar K.Swaminathan | Referees for reviewing the research papers submitted to International Journal of Earth Sciences and Engineering |
| Sunil B.M. | Reviewer for i) Journal of Engineering Geology (Elsevier) ii) Journal of Geotechnical and Geological Engineering (Springer) |
| Basavaraju Manu | Ph.D. Thesis reviewer for Anna University and University of Kerala. |
| Suresha S. N. | Reviewer for ASTM-Journal of Testing and Evaluation. Recipient of Young Scientist: Start-up Research Grant from the SERB, DST, Government of India. |
| Arun Kumar Thalla | Invited Talk on "Modeling of AS-Biofilm Reactors-Advanced waste water Treatment" at <i>3 day TEQIP sponsored Faculty Development Programme</i> on "Biological Treatment of Wastewater Innovations perceptions and Challenges" Organized by <u>GCT Coimbatore</u> in association with <u>CLRI Chennai</u> , India (Feb 25th - 27th, 2014) Reviewer of Journal of Water Process Engineering (Elsevier), Journal of Water, Sanitation and Hygiene for Development (IWA), Applied Mathematical Modelling (Elsevier), Desalination and Water Treatment (Desalination Publications). Received DST Young Scientists International Travel Support Grant for attending <i>6th IWA International Specialized Conference on Sustainable Viticulture (WINERY, 2013)</i> held in FRANCE. |

Department Of Chemical Engineering

| Name of Staff / Faculty | Assignment/Recognition/Award |
|-------------------------|--|
| Prasanna B.D. | Khorana Fellowship for "Khorana Program Technology Transfer Course 2013". The program was funded by Department of Biotechnology (DBT), Govt. of India, and conducted by the University of Wisconsin-Madison (UW) in partnership with Indo-US Science & Technology Forum (IUSSTF). The program was held during July 22nd– August 3 rd 2013 at University of Wisconsin-Madison, USA |

Department of Computer Engineering

| Name of Staff/Faculty | Assignment/Recognition/Award |
|-------------------------|--|
| K.Chandrasekaran | <p>Best Paper award for the paper “Load Balancing of virtual Machine Resources in Cloud Using Genetic Algorithm”, 7th Int. Conf. on Communication Networks, August 9-11, 2013, Bengaluru.</p> <p>Nominated as a member in the Editorial board of IEEE transactions on Cloud Computing.</p> <p>Selected as one of the members of the “IEEE Cloud Computing STC’s conference Executive TCS Committee”, USA.</p> <p>Paper presentation at IEEE/ACM International Conference on ‘Cloudcom 2013’ Bristol, UK, England.</p> <p>Tutorial presentation at IEEE/ACM, International Conference Utility and Cloud Computing 2013, Dresden, Germany.</p> |
| P. Santhi Thilagam | <p>Program Committee member</p> <p>The third International Conference on Computational Science, Engineering and Information Technology (CCSEIT-2013), KTO Karatay University, June07-07, 2013, Konya, Turkey.</p> <p>The fifth International Conference on Wireless & Mobile Network (WiMo 2013) - June 07-09-2013.</p> <p>National Conference on Modern Trends in Advanced Computing (MTAC 2013), Goa, May 17-18, 2013.</p> |
| Annappa | <p>Program Committee Member:</p> <p>Annual International Conference on Emerging Research Areas : International Conference on Microelectronics, Communications and Renewable Energy - AICERA 2013-ICMiCR, 04 Jun - 06 Jun 2013, Kerala</p> <p>7th India Software Engineering Conference - ISEC 2014</p> <p>Reviewer:</p> <p>The Sixth International Workshop on Network Security & Applications (CNSA-2013), July 13 - 15, 2013, Chennai, India.</p> <p>2013 IEEE Symposium on Business, Engineering and Industrial Applications- ISBEIA 2013, September 22-25, 2013, Kuching, Malaysia</p> <p>2013 IEEE Symposium on Industrial Electronics & Applications-ISIEA-2013, September 22 - 25, 2013, Kuching, Malaysia</p> |
| Shashidhar G. Koolagudi | <p>Best Paper award for the paper “Age Approximation from Speech using Gaussian Mixture Models”, 2nd International Conference ADCONS’13, December 15-17, 2013, NITK-Surathkal.</p> |

Department of Chemistry

| Name of faculty | Assignment/Recognition/Award |
|--|--|
| A. Vasudeva Adhikari A. V. Adhikari | 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. Gold metal and Korea Special Award for outstanding invention: "Invention of Photo-alignment based plastic (flexible) displays for future generation using thiophene derivatives" International Conference and Exposition on Invention of Institutions of Higher Learning (PECIPTA 2013), KLCC, Kuala Lumpur, Malaysia, November 7-9, 2013. Authors: Gurumurthy Hege, Yuvaraj A.R, M. M. Yuso, M. M. Yusop, L. Komitov, Airody Vasudeva Adhikari. |
| B.RamachandraBhat | Best Poster Paper: Synthesis and Characterization of CdOPolypyrrolenano composite thin films, KSTA Conference-2013, Christ University, Bangalore, 20-21 December, 2013. |

Department of Electrical & Electronics Engineering

| Name of Staff/Faculty | Assignment/Recognition/Award |
|-----------------------|--|
| G S Punekar | Technical committee member and reviewer of CATCON 2014 |
| G S Punekar | Member of technical advisory committee of institutes GIT Belgaum, MSRIT Bangalore, and Ramakrishna Institute of Technology Coimbatore. |

Department of Electronics And Communication Engineering

| Name of Staff/Faculty | Assignment/Recognition/Award |
|-----------------------|---|
| Sumam David S | IEEE Region 10 Outstanding Branch Counselor and Advisor Award, 2013 German Academic Exchange Services (DAAD)- Artificial Intelligence and Visual/Multimodal Computing, 2014. University of Applied Sciences Western Switzerland technology, architecture and landscape, Geneva -Academic interaction, 2014 |
| Muralidhar Kulkarni | Member of Engineering and Technical Accreditation Evaluation Committee of the National Board of Accreditation, NBA, New Delhi. Member, Board of Governors, Malnad College of Engineering, Hassan. Senior Member IEEE (USA), MIET (UK), Joint Secretary (Research and Academics) of the Institution of Engineering and Technology (IET), UK, for the Bangalore Local Network. Reviewer of IEEE Transactions on Communications, Wiley Interscience and other reputed journals in India and abroad. Visited USC Viterbi School of Engineering, University of Southern California at Los Angeles, California for research interaction, to explore research opportunities in the area of Wireless Sensor Networks, cloud Computing and Body Area Networks and possible research collaboration with USC under TEQIP grant during June 15-30, 2013 |
| M. S. Bhat | Senior Member IEEE, Member IET, Life member ISTE Reviewer for the following Journals |

| | |
|-------------------|---|
| | <ol style="list-style-type: none"> 1. Journal of Analog Integrated Circuits and Signal Processing, Springer Publications 2. Journal of Image and Video Processing, Springer Publications 3. IET Image Processing, IET 4. Journal of Microelectronics, Elsevier 5. Reviewer for NPTEL Video courses in Adv. VLSI Design <p>Resource person for AICTE sponsored Faculty Development Program on “Advanced in Signal Processing and Implementation using VLSI”, PA College of Engg, Mangalore on January 24, 2014</p> |
| Ramesh Kini M | <p>Resource person for AICTE sponsored Faculty Development Program on “Advanced in Signal Processing and Implementation using VLSI”, PA College of Engg, Mangalore on January 23, 2014</p> <p>Resource person for Entrepreneurship Awareness Camp at NMAMIT, Nitte on February 26, 2014.</p> <p>Technical Talk on “FPGA Architectures – Xilinx” at Sahyadri College of Engg & Management on March 17, 2014.</p> <p>Technical Talk on “FPGAs and ARM microcontrollers” at Srinivas Institute of Technology, Mangalore on March 29, 2014</p> |
| N S V Shet | <p>Attended IEEE’s I2CT-2014 Conference, Pune, April 06-08, 2014.</p> <p>Expert Lecture - Project Phase II (ECD402), in the field of E&C, NIT Uttarkhand, April 17, 2014</p> <p>BOE meet attended in NMAMIT, October 10, 2013 and March 13, 2014</p> <p>PhD Comprehensive Exam Viva Voce, VTU Belgaum, September 27, 2013</p> <p>Chief guest for Wireless Network & Testing workshop on August 28, 2013, BVB, Hubli (delivered Inaugural lecture)</p> <p>Judging / Chairing of technical session of International Conference on Emerging Trends in Engg, May 15-16, 2013, NMAMIT, Nitte</p> <p>Judging EXPO 2013, Nitte Student Project Competition, April 5, 2013.</p> |
| T Laxminidhi | Toulouse, France -11 th International Workshop on IEEE on Electronics, control, measurement signals and their applications to Mechatronics (ECM-2013) – Paper Presentation, 24-26, June 2013 |
| A V Narasimdhana | Honorarium for reviewing Mc-Graw Hill Publications |
| Pathipati Srihari | IET(UK) Chennai Local Network - Man Engineer Award Senior Member, ACM, USA Fellow, IETE |

Department of Humanities, Social Sciences & Management

| Name of Staff/Faculty | Assignment/Recognition/Award |
|-----------------------|---|
| Suprabha K. R | Best Paper Award for the paper Empowerment of Self Help Groups (SHGs) towards Microenterprise Development" at SIMSARC |
| Sreejith A | 2014 National Internet Exchange of India (NIXI) Fellow, Govt. of India. |
| Sreejith A | 2013 Emerald's Highly Commended Outstanding Doctoral Research Award in the Management and Governance category |

Department of Information Technology

| Name of Staff/Faculty | Assignment/Recognition/Award |
|-----------------------|--|
| G. Ram Mohana Reddy | Best Paper Award (Projection and Interaction with Ad-hoc Interfaces on Non-Planar Surfaces- 2 nd International Conference on Advance Computing, Networking and Security at NITK 15-17, Dec 2013) |

Department Of Mechanical Engineering

| Name of the staff/faculty | Assignment/Recognition/Award |
|---------------------------|--|
| K.V.Gangadharan | BOS member for Reva Institute of Technology and Management, Bangalore |
| Ravikiran Kadoli | BOS member for Reva Institute of Technology and Management, Bangalore |
| G.C.Mohan Kumar | Delivered expert lecture in 25 th Anniversary Institute of Materials, Kuala Lumpur, Malaysia |
| Ravikiran Kadoli | Delivered expert lecture at Alva's Institute of Engineering and Technology, Moodabidri on 02/04/2013 |
| Narendranath S. | BOS member for Siddaganga Institute of Technology, Tumkur; UVCE, Bangalore University, Bangalore and Dr. Ambedkar Institute of Technology, Bangalore |

Department of Metallurgical And Materials Engineering

| Name of Staff/Faculty | Assignment/Recognition/Award |
|-----------------------|--|
| K. Narayan Prabu | Editorial Board Member: International Heat Treatment and Surface Engineering, Maney Publishers, UK Editorial Board Member: International Journal of Cast Metals Research, Maney Publishers, UK Member – International Organizing Committee, ASM 5 th International Conference on Thermal Process Modeling and Computer Simulation, June 16-18, Florida, USA |

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 2013-14 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. 195 Companies visited NITK Surathkal for Campus Recruitments.
2. 57 Companies participated in the Placement process for the first time.
3. 780 students were placed – 572 B.Techs, 129 M.Techs, 73 MCAs, and 06 MBAs.

PLACEMENT DETAILS 2013-14 :

| SL. NO. | NAME OF THE COMPANY | STUDENTS PLACED | PAY PACKAGE (Rs. in lakhs p.a.) | |
|------------|---------------------------|--------------------|------------------------------------|-------|
| | | | UG | PG |
| 1 | MICROSOFT, HYD | 7 | 16 | 16 |
| 2 | TEXAS INSTRUMENTS, B'LORE | 5 | 10.5 | 11.6 |
| 3 | BAJAJ AUTO, PUNE | 5 | 7 | - |
| 4 | G S STRATEGIES, B'LORE | 2 | 28 | - |
| 5 | PEPSICO, MUMBAI | 3 | 6.25 | - |
| 6 | GOOGLE INDIA, B'LORE | 1 | 20.37 | 21.35 |
| 7 | D E SHAW, HYD | 1 | 18 | 18 |
| 8 | YAHOO !, B'LORE | 3 | 15.77 | 17.47 |
| 9 | G S TECHNOLOGY, B;LORE | 7 | 12 | - |
| 10 | INTUIT, B'LORE | 7 | 10.8 | - |
| 11 | BROADCOM, B'LORE | 1 | 10.15 | 11.2 |
| 12 | CREDIT SUISSE, MUMBAI | 5 | 9.75 | 9.75 |

| | | | | |
|----|------------------------------|----|-------|-------|
| 13 | QUALCOMM, B'LORE | 7 | 11.25 | 11.9 |
| 14 | WALMART, B'LORE | 2 | 18.57 | 19.15 |
| 15 | DELL R&D, B'LORE | 4 | 6.7 | 10.2 |
| 16 | ARM EMBEDDED, B'LORE | 3 | 10.5 | - |
| 17 | ADOBE SYSTEMS, B'LORE | 3 | 15.75 | 15.75 |
| 18 | NVIDIA, B'LORE | 3 | 9.32 | 11.4 |
| 19 | VMWARE, B'LORE | 6 | 17.75 | 17.75 |
| 20 | ARISTA NETWORKS, B'LORE | 1 | 14 | 14 |
| 21 | CADENCE DESIGN, B'LORE | 4 | 10.34 | 11.46 |
| 22 | SAMSUNG R&D, B'LORE | 17 | 12 | 13 |
| 23 | DELOITTE, HYD | 11 | 6.5 | 6.5 |
| 24 | CISCO, B'LORE | 10 | 11.22 | 12.48 |
| 25 | NETAPP, B'LORE | 3 | 8.25 | 9.55 |
| 26 | ORACLE, HYD | 39 | 12 | 12 |
| 27 | SAMSUNG-NOIDA | 5 | 7.18 | 8.18 |
| 28 | AKAMAI, B'LORE | 1 | 7.48 | - |
| 29 | MARUTI SUZUKI, DELHI | 1 | 5.4 | - |
| 30 | G E INDIA, B'LORE | 3 | 6.3 | 7.35 |
| 31 | MCAFEE SOFTWARE, B'LORE | 4 | 8.6 | 8.6 |
| 32 | ADAP.TV TECH, B'LORE | 1 | 7.5 | 7.5 |
| 33 | SIEMENS TECH, B'LORE | 0 | 4.5 | 4.75 |
| 34 | MAHINDRA & MAHINDRA, MUMBAI | 4 | 5.3 | 7.05 |
| 35 | FUTURES FIRST, MUMBAI | 4 | 8.7 | - |
| 36 | PLX TECH, B'LORE | 5 | - | 9 |
| 37 | SANDVINE TECH, B'LORE | 2 | 9 | 9 |
| 38 | DAIMLER INDIA, CHENNAI | 10 | 4.5 | - |
| 39 | SABRE-HOLDINGS, B'LORE | 3 | 7.5 | 7.5 |
| 40 | FIDELITY INVESTMENTS, B'LORE | 5 | 10.3 | - |
| 41 | THOROGOOD, B'LORE | 6 | 8.5 | 8.5 |
| 42 | FINISAR-MALAYSIA | 2 | 9 | 9 |
| 43 | GODREJ INDUSTRIES, MUMBAI | 0 | 4.5 | - |
| 44 | EXL SERVICE, B'LORE | 11 | 5 | - |
| 45 | CAPITAL ONE, B'LORE | 4 | 9 | - |
| 46 | INFIBEAM.COM, B'LORE | 4 | 7 | 7 |
| 47 | C-DOT, B'LORE | 2 | 8.4 | 8.6 |
| 48 | COMMVAULT, B'LORE | 0 | 7 | 7 |
| 49 | MU-SIGMA, B'LORE | 13 | 4.5 | - |

| | | | | |
|----|------------------------------|----|------|------|
| 50 | TVS MOTOR, HOSUR | 1 | 4.75 | - |
| 51 | WIPRO LTD, B'LORE | 9 | 7 | - |
| 52 | CAVUM NETWORKS, B'LORE | 0 | 5.5 | 5.5 |
| 53 | NATIONAL INSTRUMENTS, B'LORE | 3 | 8.18 | 8.97 |
| 54 | CAPITAL IQ, HYD | 2 | 7.43 | 7.43 |
| 55 | L&T CONSTRUCTION, CHENNAI | 31 | 3.77 | 4.12 |
| 56 | AKS SOFTWARE, NOIDA | 5 | 6.5 | - |
| 57 | TATA STEEL, M.P | 1 | 8 | - |
| 58 | HONDA R&D, GURGAON | | 6.1 | - |
| 59 | Z S ASSOCIATES, PUNE | 11 | 6.34 | - |
| 60 | HSBC, B'LORE | 9 | 6.5 | - |
| 61 | TCE, B'LORE | 7 | 3.5 | 4 |
| 62 | VERIZON SOFTWARE, CHENNAI | 5 | 5.5 | 5.57 |
| 63 | ERICSSON, B'LORE | 2 | 6 | 7 |
| 64 | INFORMATICA, B'LORE | 2 | 9.5 | 9.5 |
| 65 | MERCEDES-BENZ, B'LORE | 2 | - | 6.5 |
| 66 | TCS, B'LORE | 37 | 3.16 | 3.31 |
| 67 | H U L, MUMBAI | 4 | 9.6 | - |
| 68 | HONDA 2 WHEELERS, N.DELHI | 2 | 5.6 | - |
| 69 | GEP SOLUTIONS, MUMBAI | 1 | 7 | 7 |
| 70 | IBM-GBS, B'LORE | 32 | 3.4 | 3.75 |
| 71 | CITICORP SERVICES, MUMBAI | 6 | 11.5 | 11.5 |
| 72 | UNISYS, B'LORE | 2 | 4.8 | - |
| 73 | AMADEUS S.W., B'LORE | 2 | 7.68 | 7.68 |
| 74 | SAPIENT, GURGAON | 13 | 4.5 | 4.5 |
| 75 | I-GATE, B'LORE | 15 | 3.12 | |
| 76 | TRIMBLE INFO, CHENNAI | 1 | - | 6.25 |
| 77 | SAP LABS, B'LORE | 10 | 7 | 7 |
| 78 | H P R&D, B'LORE | 1 | 10 | - |
| 79 | NOMURA SERVICES, MUMBAI | 3 | 10 | - |
| 80 | AMAZON, B'LORE | 2 | 14.5 | 14.5 |
| 81 | ONE CONVERGENCE, HYD | 6 | 6 | 6 |
| 82 | ABB LTD, B'LORE | 0 | 4.5 | - |
| 83 | ARICENT GROUP, B'LORE | 20 | 3.5 | 3.5 |
| 84 | SUCCESS FACTORS, B'LORE | 1 | 8 | 8 |
| 85 | ACG WORLDWIDE, MUMBAI | 1 | 5 | - |
| 86 | HERO MOTOCORP, N. DELHI | 5 | 6 | - |

| | | | | |
|-----|------------------------------------|----|-------|-------|
| 87 | TATA MOTORS, MUMBAI | 6 | 6.16 | - |
| 88 | TEACH FOR INDIA, B'LORE | 1 | 3 | 3 |
| 89 | ERNST & YOUNG -GTH, B'LORE | 3 | 3.68 | 3.68 |
| 90 | EMC SOFTWARE, B'LORE | 4 | 9.5 | 10.25 |
| 91 | ONMOBILE, B'LORE | 3 | 5 | - |
| 92 | TESCO, B'LORE | 7 | 4.5 | - |
| 93 | SILAB TECH, B'LORE | 1 | 4.5 | - |
| 94 | RARE MILE TECH, B'LORE | 0 | 6 | 6 |
| 95 | LINKED IN, B'LORE | 3 | 29.14 | - |
| 96 | OSS CUBE, B'LORE | 4 | - | 3.5 |
| 97 | ARYAKA NETWORKS, B'LORE | 3 | - | 6.5 |
| 98 | BPCL, MUMBAI | 6 | 10.5 | - |
| 99 | YMEDIA LABS, B'LORE | 4 | 6 | 6 |
| 100 | POLARIS S.W, CHENNAI | 3 | 4.5 | - |
| 101 | ROBERT BOSCH, B'LORE | 7 | 4.75 | 4.75 |
| 102 | PHOENIX MATITIME, MUMBAI | * | 5 | - |
| 103 | ACCOLITE S.W, B'LORE | 2 | 6.5 | 7 |
| 104 | IBS SOFTWARE, TVM | 8 | 3 | 3 |
| 105 | ANZ, B'LORE | 1 | 6 | - |
| 106 | MURUGAPPA GROUP, CHENNAI | 1 | 4.25 | - |
| 107 | RELIANCE INDUSTRIES, MUMBAI | 20 | 5 | - |
| 108 | DHL LOGISTICS, MUMBAI | 2 | 5.5 | - |
| 109 | UNITED HEALTH, HYD | 0 | 10 | 10 |
| 110 | KPMG, HYD | 0 | 5.14 | - |
| 111 | VE COMMERCIAL VEHICLES, GURGAON | 3 | 5 | - |
| 112 | THINK & LEARN, B'LORE | 6 | 8 | - |
| 113 | BOSCH LTD, B'LORE | 3 | 4.7 | - |
| 114 | SAINT-GOBAIN, CHENNAI | 0 | 5.5 | - |
| 115 | TRICON INFO, B'LORE | 4 | 4.2 | 4.2 |
| 116 | AMDOCS, PUNE | 8 | 4.2 | 4.2 |
| 117 | DIRECTI, MUMBAI | 0 | 20.66 | 20.66 |
| 118 | VA TECH WABAG, CHENNAI | 4 | 4.1 | 4.38 |
| 119 | CYBEROAM TECH, B'LORE | 1 | 3.5 | 3.5 |
| 120 | CA TECH, HYD | 3 | 10 | 10 |
| 121 | KONEY LABS, HYD | 4 | 5.5 | - |
| 122 | EXXONMOBIL, MUMBAI | 3 | 8.15 | - |
| 123 | INDIAN ARMY, B'LORE | * | 12 | - |

| | | | | |
|-----|---------------------------------|----|-------|-------|
| 124 | POWER GRID CORPN, GURGAON | 5 | 13.4 | - |
| 125 | BHARAT FORGE, PUNE | 3 | 3.5 | - |
| 126 | 3D PLM S.W, MUMBAI | 5 | 4.75 | 4.86 |
| 127 | ODESSA TECH, B'LORE | 2 | - | 5.5 |
| 128 | BALMER LAWRIE, KOLKATA | 2 | 7.66 | - |
| 129 | TATA HITACHI, B'LORE | 2 | 7 | - |
| 130 | KEOLIN INDIA, HYD | 1 | 3.77 | - |
| 131 | TRIBI SYSTEMS, B'LORE | 2 | 4.79 | - |
| 132 | AIRVANA NETWORKS, B'LORE | 2 | 4.95 | 5.5 |
| 133 | PARUL GROUP, VADODARA | 9 | 3 | 5 |
| 134 | L&T HYDROCARBON, MUMBAI | * | - | 3.88 |
| 135 | STREAMNET, B'LORE | 7 | 8 | 8 |
| 136 | TAVANT TECH, B'LORE | 10 | 4.5 | 4.5 |
| 137 | COAL INDIA LTD, KOLKATA | 54 | 8.76 | - |
| 138 | AMBUJA CEMENTS, CHENNAI | 8 | 3.75 | - |
| 139 | INTERGRAPH, HYD | 4 | 4 | 4 |
| 140 | FICO S.W, B'LORE | * | 11.82 | 11.82 |
| 141 | INFOTECH ENTERPRISES, B'LORE | 1 | 2.75 | 3.5 |
| 142 | MISYS S.W, B'LORE | 4 | 5.22 | 5.22 |
| 143 | TOTAL ENVIRONMENT, B'LORE | 2 | 3.8 | - |
| 144 | NETLINK SLW., B'LORE | 1 | - | 8 |
| 145 | AAKASH EDUCATIONAL, N. DELHI | 2 | 6.5 | 6.5 |
| 146 | BRAHMOS AEROSPACE, N. DELHI | 1 | 9.06 | - |
| 147 | ATKINS GLOBAL, B'LORE | 1 | 4.34 | - |
| 148 | AIG ANALYTICS, B'LORE | * | 4.25 | - |
| 149 | BRAKES INDIA, CHENNAI | 4 | 4.8 | 5.5 |
| 150 | CENTURY LINK, B'LORE | 1 | 6 | - |
| 151 | DIABOLD SYSTEMS, MUMBAI | 2 | 7 | - |
| 152 | ASHIANA HOUSING, N. DELHI | 3 | 3 | - |
| 153 | L&T TECHNOLOGY, B'LORE | 3 | 3 | 3.48 |
| 154 | RAJIV GANDHI UNIVERSITY, HYD | * | - | 6.5 |
| 155 | JOHNSON CONTROLS, MUMBAI | 2 | 3.2 | 3.1 |
| 156 | STUP CONSULTANTS, B'LORE | * | - | 3.5 |
| 157 | TEJAS NETWORKS, B'LORE | 8 | 6.8 | 7.2 |
| 158 | INFINEON TECH, B'LORE | 3 | 10.3 | 11.3 |
| 159 | PRICOL LTD, CHENNAI | 0 | 4 | - |
| 160 | DEVELOPMENT ALTERNATIVES, DELHI | 1 | 4 | 4 |

| | | | | |
|-----|----------------------------------|----|------|------|
| 161 | HINDALCO, MUMBAI | 7 | 4 | - |
| 162 | EXPICIENT SOFTWARE, B'LORE | 9 | 5 | 5 |
| 163 | GULF CONTRACTING, DOHA | 2 | 6 | - |
| 164 | TECHNIP INDIA, CHENNAI | 1 | - | 6 |
| 165 | PRAJ INDUSTRIES, MUMBAI | 0 | 3.6 | - |
| 166 | RAMCO SYSTEMS, CHENNAI | 0 | 4.5 | - |
| 167 | KIRLOSKAR FERROUS, KOPPAL | 4 | 3 | - |
| 168 | FREUDENBERG INDIA, B'LORE | 3 | 6 | - |
| 169 | SYNERGY INDIA, B'LORE | 3 | 3.6 | 3.6 |
| 170 | GRAIL RESEARCH, NOIDA | 1 | 5.15 | 5.15 |
| 171 | CSC, NOIDA | 4 | 7.22 | 7.22 |
| 172 | JSW, GOA | 6 | 4.19 | - |
| 173 | CL INFOTECH, B'LORE | 1 | - | 4 |
| 174 | MEDIATEK, NOIDA | 1 | 7.1 | - |
| 175 | SOBHA DEVELOPERS, B'LORE | * | 3.08 | - |
| 176 | HONEYWELL TECH, B'LORE | 3 | 4 | 4.5 |
| 177 | ACCRETE GLOBAS TECH, B'LORE | 2 | 4 | 4 |
| 178 | APOTEX PHARMA, B'LORE | * | - | 1.92 |
| 179 | i-MARITIME, MUMBAI | 1 | - | 3.5 |
| 180 | JSW STEEL, BELLARY | 13 | 3.75 | - |
| 181 | SHAIL GROUP OF INSTITUTIONS | * | - | 3.5 |
| 182 | TOYOTA KIRLOSKER, B'LORE | * | 2.46 | - |
| 183 | ANSYS APACHE, B'LORE | * | 4.5 | 4.5 |
| 184 | NOKIA SOLUTIONS, B'LORE | 10 | 6.5 | 7 |
| 185 | S N BHobe, MUMBAI | * | - | 5 |
| 186 | TECHNOVATE INDIA, B'LORE | 1 | 5 | 5 |
| 187 | NCC INTERNATIONAL, HYD | 7 | 8 | - |
| 188 | RELIANCE JIO, MUMBAI | * | 4.5 | - |
| 189 | CARGIL INDIA, MUMBAI | 9 | 4 | - |
| 190 | ADITYA BIRLA CHEMICAL, MUMBAI | 5 | 4 | - |
| 191 | TRILOGY S.W, B'LORE | * | 22 | 22 |
| 192 | CALLIGO TECH, B'LORE | 8 | 3.5 | 3.5 |
| 193 | CRIMSON LOGIC, B'LORE | 1 | 4 | 4 |
| 194 | LUPIN LTD, MUMBAI | 1 | 5.5 | - |
| 195 | JBF PETROCHEMICALS, MUMBAI | * | 4.5 | - |

| | |
|--|------------------|
| COMPANIES : 195 | TOTAL JOBS : 890 |
| NEW ORGANIZATIONS VISITED NITK IN 2013-14 : 57 | |
| <i>* Final Results awaited</i> | |

BRANCHWISE PLACEMENTS 2013-14 :-

| UNDERGRADUATES | | |
|------------------------------|-------------------------------|------------|
| BRANCH | TOTAL ELIGIBLE STUDENTS | PLACED |
| CIVIL | 78 | 60 |
| CHEMICAL | 32 | 30 |
| COMPUTER | 95 | 87 |
| E & C | 94 | 79 |
| E & E | 99 | 79 |
| IT | 82 | 75 |
| MECHANICAL | 122 | 110 |
| METALLURGY | 35 | 28 |
| MINING | 27 | 24 |
| TOTAL (B.TECH) | 664 | 572 |
| POSTGRADUATES | | |
| STRUCTURAL ENGG. | 26 | 11 |
| GEO TECH. | 10 | 0 |
| ENVIRONMENTAL | 18 | 9 |
| TRANSPORTATION SYSTEM | 21 | 0 |
| CONSTRUCTION TECH & MGMT | 23 | 5 |
| MARINE STRUCTURES | 17 | 2 |
| WATER RESOURCE ENGG & MGMT | 12 | 1 |
| REMOTE SENSING & GIS | 12 | 2 |
| INDUSTRIAL POLLUTION CONTROL | 17 | 0 |
| CHEMICAL PLANT DESIGN | 6 | 1 |
| INDUSTRIAL BIOTECHNOLOGY | 22 | 1 |
| COMPUTER SCIENCE & ENGG | 26 | 21 |
| INFORMATION SECURITY | 29 | 20 |
| VLSI | 24 | 4 |
| COMMUNICATION ENGG | 28 | 2 |
| POWER & ENERGY SYSTEM | 22 | 4 |
| INFORMATION TECHNOLOGY | 26 | 22 |
| THERMAL ENGG | 13 | 3 |
| MANUFACTURING ENGG | 14 | 2 |
| MECHATRONICS | 23 | 7 |
| PROCESS MET. | 9 | 0 |
| MATERIALS ENGG. | 22 | 2 |
| S A C A | 21 | 10 |
| TOTAL (M.TECH) | 441 | 129 |
| MCA | 87 | 73 |
| MBA | 42 | 6 |
| M.Sc(Chemistry) | 13 | 0 |
| M.Sc(Physics) | 11 | 0 |
| TOTAL | 1256 | 780 |

***TOTAL NO. OF PLACEMENTS - 890**
 (with 110 students getting placed in two companies)

| Sl. No. | Name of Company | Date of visit | No. of Students Placed | Branchwise breakup | |
|------------|------------------------------|---------------|------------------------------|---------------------------------------|----------------------------|
| | | | | UG | PG |
| 1 | MICROSOFT, HYD | Aug. 01, 2013 | 7 | CS 06 | MCA 01 |
| 2 | TEXAS INSTRUMENTS, B'LORE | Aug. 01, 2013 | 5 | CS 01, ECE 03, EEE 01 | - |
| 3 | BAJAJ AUTO, PUNE | Aug. 02, 2013 | 5 | MECH 05 | - |
| 4 | G S STRATEGIES, B'LORE | Aug. 03, 2012 | 2 | CS 02 | - |
| 5 | PEPSICO, MUMBAI | Aug. 03, 2013 | 3 | EEE 02, MECH 01 | - |
| 6 | GOOGLE INDIA, B'LORE | Aug. 03, 2013 | 1 | CS 01 | - |
| 7 | D E SHAW, HYD | Aug. 05, 2013 | 1 | CS 01 | - |
| 8 | YAHOO !, B'LORE | Aug. 05, 2013 | 3 | CS 03 | - |
| 9 | G S TECHNOLOGY, B;LORE | PPO | 7 | CS 01, ECE 01, EEE 02, IT 03 | - |
| 10 | INTUIT, B'LORE | PPO | 7 | CS 04, IT 03 | - |
| 11 | BROADCOM, B'LORE | PPO | 1 | ECE 01 | - |
| 12 | CREDIT SUISSE, MUMBAI | Aug. 23, 2013 | 5 | CS 03, EEE 02 | - |
| 13 | QUALCOMM, B'LORE | Aug. 06, 2013 | 7 | CS 02, ECE 04, EEE 01 | - |
| 14 | WALMART, B'LORE | Aug. 06, 2013 | 2 | CS 01, IT 01 | - |
| 15 | DELL R&D, B'LORE | Aug. 06, 2013 | 4 | - | CS 02, IT 01, MCA 01 |
| 16 | ARM EMBEDDED, B'LORE | Aug. 07, 2013 | 3 | CS 01, ECE 02 | - |
| 17 | ADOBE SYSTEMS, B'LORE | Aug. 07, 2013 | 3 | CS 01, IT 02 | - |
| 18 | NVIDIA, B'LORE | Aug. 08, 2013 | 3 | CS 02, IT 01 | - |
| 19 | VMWARE, B'LORE | Aug. 08, 2013 | 6 | CS 02 | CS 01, MBA 03 |
| 20 | ARISTA NETWORKS, B'LORE | Aug. 09, 2013 | 1 | CS 01 | - |
| 21 | CADENCE DESIGN, B'LORE | Aug. 09, 2013 | 4 | ECE 03, EEE 01 | - |
| 22 | SAMSUNG R&D, B'LORE | Aug. 09, 2013 | 17 | CS 06, ECE 04, IT 04 | CS 02, MCA 01 |

| | | | | | |
|----|------------------------------|---------------|----|--|-----------------------|
| 23 | DELOITTE, HYD | Aug. 11, 2013 | 11 | ECE 02, EEE 02, I.T 02 | I.T 01, MCA 04 |
| 24 | CISCO, B'LORE | Aug. 12, 2013 | 10 | CS 03, ECE 03, I.T 04 | - |
| 25 | NETAPP, B'LORE | Aug. 13, 2013 | 3 | CS 02 | CS 01 |
| 26 | ORACLE, HYD | Aug. 15, 2013 | 39 | CS 09, ECE 05, EEE 06, I.T 05 | CS 08, SACA 02, MCA 4 |
| 27 | SAMSUNG-NOIDA | Aug. 16, 2013 | 5 | CS 02 | CS 01, I.T 02 |
| 28 | AKAMAI, B'LORE | Aug. 16, 2013 | 1 | I.T 01 | - |
| 29 | MARUTI SUZUKI, DELHI | Aug. 17, 2013 | 1 | MECH 01 | - |
| 30 | G E INDIA, B'LORE | Aug. 18, 2013 | 3 | ECE 01, EEE 01 | MECH 01 |
| 31 | MCAFEE SOFTWARE, B'LORE | Aug. 19, 2013 | 4 | CS 01, ECE 02, I.T 01 | - |
| 32 | ADAP.TV TECH, B'LORE | Aug. 19, 2013 | 1 | - | CS 01 |
| 33 | SIEMENS TECH, B'LORE | Aug. 19, 2013 | 0 | - | - |
| 34 | MAHINDRA & MAHINDRA, MUMBAI | Aug. 19, 2013 | 4 | MECH 03 | MECH 01 |
| 35 | FUTURES FIRST, MUMBAI | Aug. 19, 2013 | 4 | CHEM 01, MECH 03 | - |
| 36 | PLX TECH, B'LORE | Aug. 20, 2013 | 5 | - | ECE 05 |
| 37 | SANDVINE TECH, B'LORE | Aug. 20, 2013 | 2 | - | CS 02 |
| 38 | DAIMLER INDIA, CHENNAI | Aug. 20, 2013 | 10 | MECH 10 | - |
| 39 | SABRE-HOLDINGS, B'LORE | Aug. 21, 2013 | 3 | EEE01, I.T 01 | MCA 01 |
| 40 | FIDELITY INVESTMENTS, B'LORE | Aug. 21, 2013 | 5 | CS 01, ECE 01, EEE 02, I.T 01 | - |
| 41 | THOROGOOD, B'LORE | Aug. 22, 2013 | 6 | CIVIL 01, EEE 02, MET 01, MIN 01 | MCA 01 |
| 42 | FINISAR-MALAYSIA | Aug. 22, 2013 | 2 | ECE 01, EEE 01 | - |
| 43 | GODREJ INDUSTRIES, MUMBAI | Aug. 22, 2013 | 0 | - | - |
| 44 | EXL SERVICE, B'LORE | Aug. 23, 2013 | 11 | CIVIL 03, EEE 03, MECH 04, MET 01 | - |
| 45 | CAPITAL ONE, B'LORE | Aug. 25, 2013 | 4 | ECE 02, EEE 01, MECH 01 | - |
| 46 | INFEBEAM.COM, B'LORE | Aug. 25, 2013 | 4 | I.T 01 | I.T 01, MCA 02 |
| 47 | C-DOT, B'LORE | Aug. 27, 2013 | 2 | ECE 01 | CS 01 |
| 48 | COMMVAULT, B'LORE | Aug. 27, 2013 | 0 | - | - |
| 49 | MU-SIGMA, B'LORE | Aug. 28, 2013 | 13 | CIVIL 04, CHEM 02, EEE 01, I.T 03, MECH 03 | - |

| | | | | | |
|----|------------------------------|----------------|----|--|----------------------------------|
| 50 | TVS MOTOR, HOSUR | Aug. 29, 2013 | 1 | MECH 01 | - |
| 51 | WIPRO LTD, B'LORE | Aug. 29, 2013 | 9 | CIVIL 03, CHEM 01, ECE 01, EEE 01, I.T 02, MET 01 | - |
| 52 | CAVIUM NETWORKS, B'LORE | Aug. 30, 2013 | 0 | - | - |
| 53 | NATIONAL INSTRUMENTS, B'LORE | Aug. 30, 2013 | 3 | I.T 02 | I.T 01 |
| 54 | CAPITAL IQ, HYD | Aug. 31, 2013 | 2 | CS 01, I.T 01 | |
| 55 | L&T CONSTRUCTION, CHENNAI | SEPT. 01, 2013 | 31 | CIVIL 09, EEE 04, MECH 03 | CIVIL 14, EEE 01 |
| 56 | AKS SOFTWARE, NOIDA | SEPT. 01, 2013 | 5 | CS 03, I.T 02 | |
| 57 | TATA STEEL, M.P | SEPT. 02, 2013 | 1 | MECH 01 | |
| 58 | HONDA R&D, N. GURGAON | SEPT. 03, 2013 | 0 | - | - |
| 59 | Z S ASSOCIATES, PUNE | SEPT. 04, 2013 | 11 | CIVIL 01, CHEM 01, ECE 02, EEE 04, I.T 02, MECH 01 | - |
| 60 | HSBC, B'LORE | SEPT. 05, 2013 | 9 | CIVIL 01, CHEM 02, EEE 01, MET 04, MIN 01 | - |
| 61 | T C E, B'LORE | SEPT. 05, 2013 | 7 | CIVIL 01, CHEM 02, MECH 02 | CIVIL 01, CHEM 01 |
| 62 | VERIZON S.W, CHENNAI | SEPT. 06, 2013 | 5 | EEE 02 | MCA 03 |
| 63 | ERICSSON, B'LORE | SEPT. 07, 2013 | 2 | ECE 02 | - |
| 64 | INFORMATICA, B'LORE | SEPT. 08, 2013 | 2 | - | CS 01, I.T 01 |
| 65 | MERCEDES-BENZ, B'LORE | SEPT. 16, 2013 | 2 | - | MECH 02 |
| 66 | TCS, B'LORE | SEPT. 17, 2013 | 37 | CIVIL 01, CS 01, ECE 03, EEE 04, I.T 02, MECH 03, MIN 01 | CS 04, MCA 18 |
| 67 | H U L, MUMBAI | SEPT. 18, 2013 | 4 | CHEM 01, EEE 01, MECH 02 | - |
| 68 | HONDA 2 WHEELERS, NOIDA | SEPT. 19, 2013 | 2 | MECH 02 | - |
| 69 | GEP SOLUTIONS, B'LORE | SEPT. 19, 2013 | 1 | EEE 01 | - |
| 70 | IBM-GBS, B'LORE | SEPT. 21, 2013 | 32 | CIVIL 01, CHEM 01, ECE 06, EEE 06, I.T 03, MECH 03, MET 02, MIN 01 | CIVIL 01, CHEM 01, CS 01, MCA 06 |
| 71 | CITICORP SERVICES, MUMBAI | SEPT. 22, 2013 | 6 | ECE 03, I.T 01 | CS 02 |

| | | | | | |
|-----|----------------------------|----------------|----|---------------------------------|------------------------|
| 72 | UNISYS, B'LORE | SEPT. 23, 2013 | 2 | CS 02 | - |
| 73 | AMADEUS S.W, B'LORE | SEPT. 23, 2013 | 2 | CS 01 | I.T 01 |
| 74 | SAPIENT, GURGAON | SEPT. 24, 2013 | 13 | LT 01 | MCA 12 |
| 75 | I-GATE, B'LORE | SEPT. 28, 2013 | 15 | CS 02, ECE 04, EEE02, I.T 02 | MCA 05 |
| 76 | TRIMBLE INFO, CHENNAI | SEPT. 29, 2013 | 1 | - | MCA 01 |
| 77 | SAP LABS, B'LORE | SEPT. 30, 2013 | 10 | CHEM 01, CS 03, ECE 04 | CS 01, MCA 01 |
| 78 | HP R&D, B'LORE | OCT. 01, 2013 | 1 | CS 01 | - |
| 79 | NOMURA SERVICES, MUMBAI | OCT. 02, 2013 | 3 | EEE 02, MET 01 | - |
| 80 | AMAZON, B'LORE | OCT. 02, 2013 | 2 | - | CS 02 |
| 81 | ONE CONVERGENCE, HYD | OCT. 04, 2013 | 6 | - | CS 02, I.T 01, SACA 03 |
| 82 | ABB LTD, B'LORE | OCT. 05, 2013 | | | - |
| 83 | ARICENT GROUP, B'LORE | OCT. 06, 2013 | 20 | CS 02, I.T 05 | MCA 13 |
| 84 | SUCCESS FACTORS, B'LORE | OCT. 07, 2013 | 1 | - | CS 01 |
| 85 | ACG WORLDWIDE, MUMBAI | OCT. 09, 2013 | 1 | MECH 01 | - |
| 86 | HERO MOTORCORP, N.DELHI | OCT. 10, 2013 | 5 | MECH 05 | - |
| 87 | TATA MOTORS, MUMBAI | OCT. 11, 2013 | 6 | MECH 06 | - |
| 88 | TEACH FOR INDIA, B'LORE | OCT. 11, 2013 | 1 | CS 01 | - |
| 89 | ERNST & YOUNG -GTH, B'LORE | OCT. 16, 2013 | 3 | CS 01 | MCA 02 |
| 90 | EMC SOFTWARE, B'LORE | OCT. 17, 2013 | 4 | CS 02, I.T 02 | - |
| 91 | ONMOBILE, B'LORE | OCT. 18, 2013 | 3 | ECE 01, EEE 01, MECH 01 | - |
| 92 | TESCO, B'LORE | OCT. 19, 2013 | 7 | CS 01, ECE 01, I.T 01 | MCA 04 |
| 93 | SILAB TECH, B'LORE | OCT. 19, 2013 | 1 | ECE 01 | - |
| 94 | RARE MILE TECH, B'LORE | OCT. 20, 2013 | 0 | - | - |
| 95 | LINKED IN, B'LORE | OCT. 21, 2013 | 3 | CS 02, I.T 01 | - |
| 96 | OSS CUBE, B'LORE | OCT. 21, 2013 | 4 | - | MCA 04 |
| 97 | ARYAKA NETWORKS, B'LORE | OCT. 23, 2013 | 3 | - | CS 01, I.T 02 |
| 98 | BPCL, MUMBAI | OCT. 24, 2013 | 6 | CIVIL 04, EEE 02 | - |
| 99 | YMEDIA LABS, B'LORE | OCT. 28, 2013 | 4 | ECE 01 | MCA 03 |
| 100 | POLARIS S.W, CHENNAI | OCT. 28, 2013 | 3 | CO 01, I.T 02 | - |
| 101 | ROBERT BOSCH, B'LORE | OCT. 28, 2013 | 7 | ECE 02, EEE 01, I.T 01, MECH 01 | MECH 02 |

| | | | | | |
|-----|------------------------------------|---------------|----|---|--------------------|
| 102 | PHOENIX MATITIME, MUMBAI | OCT. 30, 2013 | * | - | - |
| 103 | ACCOLITE S.W, B'LORE | OCT. 31, 2013 | 2 | - | CS 01, MCA 01 |
| 104 | IBS SOFTWARE, TVM | NOV. 05, 2013 | 8 | CS 03, I.T 02, MET 01 | MCA 02 |
| 105 | ANZ, B'LORE | NOV. 07, 2013 | 1 | EEE 01 | - |
| 106 | MURUGAPPA GROUP, CHENNAI | NOV. 07, 2013 | 1 | MECH 01 | - |
| 107 | RELIANCE INDUSTRIES, MUMBAI | NOV. 11, 2013 | 20 | CHEM 06, EEE 06, MECH 05, MET 03 | - |
| 108 | DHL LOGISTICS, MUMBAI | NOV. 13, 2013 | 2 | MECH 01, MET 01 | - |
| 109 | UNITED HEALTH, HYD | NOV. 13, 2013 | 0 | - | - |
| 110 | KPMG, HYD | NOV. 13, 2013 | 0 | - | - |
| 111 | VE COMMERCIAL VEHICLES, GURGAON | NOV. 14, 2013 | 3 | MECH 03 | - |
| 112 | THINK & LEARN, B'LORE | NOV. 16, 2013 | 6 | CHEM 01, ECE 01, EEE 02, MET 01, MIN 01 | - |
| 113 | BOSCH LTD, B;LORE | NOV. 16, 2013 | 3 | MECH 03 | - |
| 114 | SAINT-GOBAIN, CHENNAI | NOV. 18, 2013 | 0 | - | - |
| 115 | TRICON INFO, B'LORE | NOV. 19, 2013 | 4 | - | MCA 04 |
| 116 | AMDOCS, PUNE | NOV. 19, 2013 | 8 | - | IT 01, MCA 07 |
| 117 | DIRECTI, MUMBAI | NOV. 20, 2013 | 0 | - | - |
| 118 | VA TECH WABAG, CHENNAI | NOV. 20, 2013 | 4 | CIVIL 02, EEE 01 | CIVIL 01 |
| 119 | CYBEROAM TECH, B'LORE | NOV. 21, 2013 | 1 | - | MCA 01 |
| 120 | CA TECH, HYD | NOV. 22, 2013 | 3 | I.T 02 | CS 01 |
| 121 | KONEY LABS, HYD | NOV. 22, 2013 | 4 | CS 02, ECE 02 | - |
| 122 | EXXONMOBIL, MUMBAI | NOV. 23, 2013 | 3 | CHEM 2 MECH 01 | - |
| 123 | INDIAN ARMY, B'LORE | NOV. 23, 2013 | * | - | - |
| 124 | POWER GRID CORPN, DELHI | NOV. 28, 2013 | 5 | CIVIL 04, EEE 01 | - |
| 125 | BHARAT FORGE, PUNE | NOV. 29, 2013 | 3 | MET 03 | - |
| 126 | 3D PLM S.W, MUMBAI | DEC. 05, 2013 | 5 | I.T 02, MECH 03 | - |
| 127 | ODESSA TECH, B'LORE | DEC. 10, 2013 | 2 | - | MBA 01, SACA 01 |
| 128 | BALMER LAWRIE, KOLKATA | DEC. 12, 2013 | 2 | CHEM 02 | - |
| 129 | TATA HITACHI, B'LORE | DEC. 16, 2013 | 2 | MECH 02 | - |
| 130 | KEOLIN INDIA, HYD | DEC. 26, 2013 | 1 | EEE 01 | - |
| 131 | TRIBI SYSTEMS, B'LORE | JAN 04, 2014 | 2 | ECE 02 | - |

| | | | | | |
|-----|---------------------------------|--------------|----|--------------------------------------|--|
| 132 | AIRVANA NETWORKS, B'LORE | JAN 06, 2014 | 2 | - | I.T 01, SACA 01 |
| 133 | PARUL GROUP, VADODARA | JAN 06, 2014 | 9 | - | CIVIL 02, CS 01, I.T 01, EEE 02, MECH 03 |
| 134 | L&T HYDROCARBON, MUMBAI | JAN 06, 2014 | * | - | - |
| 135 | STREAMNET, B'LORE | JAN 07, 2014 | 7 | CS 02, ECE 01, EEE 02, I.T 01 | CS 01 |
| 136 | TAVANT TECH, B'LORE | JAN 07, 2014 | 10 | CS 02, ECE 05, I.T 02 | CS 01 |
| 137 | COAL INDIA LTD, KOLKATA | JAN 09, 2014 | 54 | CIVIL 10, EEE 09, MECH 15, MIN 12 | CIVIL 08 |
| 138 | AMBUJA CEMENTS, CHENNAI | JAN 10, 2014 | 8 | CIVIL 02, MIN 06 | - |
| 139 | INTERGRAPH, HYD | JAN 10, 2014 | 4 | CS 01, ECE 01, MECH 01 | RS &GIS 01 |
| 140 | FICO S.W, B'LORE | JAN 11, 2014 | * | - | |
| 141 | INFOTECH ENTERPRISES, B'LORE | JAN 11, 2014 | 1 | - | CIVIL 01 |
| 142 | MISYS S.W, B'LORE | JAN 13, 2014 | 4 | - | CS 01, I.T 03 |
| 143 | TOTAL ENVIRONMENT, B'LORE | JAN 15, 2014 | 2 | CIVIL 02 | - |
| 144 | NETLINK SOFTWARE, B'LORE | JAN 16, 2014 | 1 | - | MBA 01 |
| 145 | AAKASH INSTITUTE, N. DELHI | JAN 16, 2014 | 2 | MET 01, MIN 01 | - |
| 146 | BRAHMOS AEROSPACE, N. DELHI | JAN 16, 2014 | 1 | MECH 01 | - |
| 147 | ATKINS GLOBAL, B'LORE | JAN 17, 2014 | 1 | CIVIL 01 | - |
| 148 | AIG ANALYTICS, B'LORE | JAN 19, 2014 | * | - | - |
| 149 | BRAKES INDIA, CHENNAI | JAN 20, 2014 | 4 | MET 02 | MET 02 |
| 150 | CENTURY LINK, B'LORE | JAN 20, 2014 | 1 | I.T 01 | - |
| 151 | DIABOLD SYSTEMS, MUMBAI | JAN 20, 2014 | 2 | ECE 01, I.T 01 | - |
| 152 | ASHIANA HOUSING, N. DELHI | JAN 21, 2014 | 3 | CIVIL 03 | - |
| 153 | L&T TECHNOLOGY, B'LORE | JAN 21, 2014 | 3 | - | MECH 03 |
| 154 | RAJIV GANDHI UNIVERSITY, HYD | JAN 22, 2014 | * | - | |
| 155 | JOHNSON CONTROLS, MUMBAI | JAN 22, 2014 | 2 | EEE 01, MECH 01 | - |
| 156 | STUP CONSULTANTS, B'LORE | JAN 24, 2014 | * | - | |
| 157 | TEJAS NETWORKS, B'LORE | JAN 24, 2014 | 8 | CS 02, ECE 01, I.T 03 | CS 01, SACA 01 |
| 158 | INFINEON TECH, B'LORE | JAN 29, 2014 | 3 | ECE 03 | - |
| 159 | PRICOL, CHENNAI | FEB 03, 2014 | 0 | - | - |

| | | | | | |
|-----|-----------------------------------|----------------|----|---|------------------------|
| 160 | DEVELOPMENT ALTERNATIVES, CHENNAI | FEB 04, 2014 | 1 | - | CIVIL 01 |
| 161 | HINDALCO, MUMBAI | FEB 05, 2014 | 7 | CHEM 02, MECH 02, MET 02, MIN 01 | - |
| 162 | EXPICIENT SOFTWARE, B'LORE | FEB 07, 2014 | 9 | CS 02, ECE 01, EEE 01, I.T 01, MET 01, MIN 01 | I.T 01, SACA 01 |
| 163 | GULF CONTRACTING, DOHA | FEB 07, 2014 | 2 | CIVIL 02 | - |
| 164 | TECHNIP INDIA, CHENNAI | FEB 14, 2014 | 1 | - | MS 01 |
| 165 | PRAJ INDUSTRIES, PUNE | FEB 14, 2014 | 0 | | - |
| 166 | RAMCO SYSTEMS, CHENNAI | FEB 21, 2014 | 0 | | - |
| 167 | KIRLOSKAR FERROUS, KOPPAL | FEB 21, 2014 | 4 | MET 04 | - |
| 168 | FREUDENBERG INDIA, B'LORE | FEB 24, 2014 | 3 | CHEM 01, MECH 02 | - |
| 169 | SYNERGY INDIA, B'LORE | FEB 24, 2014 | 3 | CIVIL 01 | CIVIL 02 |
| 170 | GRAIL RESEARCH, NOIDA | FEB 27, 2014 | 1 | - | MBA 01 |
| 171 | CSE INDIA, NOIDA | FEB 28, 2014 | 4 | CS 02, I.T 02 | - |
| 172 | JSW, GOA | MAR 01, 2014 | 6 | EEE 02, MECH 04 | - |
| 173 | CL INFOTECH, B'LORE | MAR 05, 2014 | 1 | - | CS 01 |
| 174 | MEDIATEK, NOIDA | MAR 11, 2014 | 1 | CS 01 | - |
| 175 | SOBHA DEVELOPERS, B"LORE | MAR 15, 2014 | * | | - |
| 176 | HONEYWELL TECH, B'LORE | MAR 19, 2014 | 3 | ECE 01, EEE 01 | EEE 01 |
| 177 | ACCRETE GLOBAS TECH, B'LORE | MAR 20, 2014 | 2 | - | I.T 02 |
| 178 | APOTEX PHARMA, B'LORE | MAR 20, 2014 | * | - | |
| 179 | i-MARITIME, MUMBAI | MAR 24, 2014 | 1 | - | MS 01 |
| 180 | JSW STEEL, BELLARY | MAR 29, 2014 | 13 | CHEM 02, MECH 04, MET 07 | - |
| 181 | SHAIL GROUP OF INSTITUTIONS | APRIL 05, 2014 | * | - | |
| 182 | TOYOTA KIRLOSKAR, B'LORE | APRIL 08, 2014 | * | | - |
| 183 | ANSYS APACHE, B'LORE | APRIL 10, 2014 | * | | - |
| 184 | NOKIA SOLUTIONS, B'LORE | APRIL 11, 2014 | 10 | ECE 03, I.T 02 | CS 03, ECE 01, SACA 01 |
| 185 | S N BHobe, MUMBAI | APRIL 11, 2014 | * | - | |
| 186 | TECHNOVATE INDIA, B'LORE | APRIL 12, 2014 | 1 | I.T 01 | - |
| 187 | NCC INTERNATIONAL | APRIL 15, 2014 | 7 | CIVIL 07 | - |
| 188 | RELIANCE JIO, MUMBAI | APRIL 15, 2014 | * | | |

| | | | | | |
|-----|--------------------------------|----------------|---|----------------------------------|---------------|
| 189 | CARGIL INDIA, MUMBAI | APRIL 16, 2014 | 9 | CHEM 03, EEE 03, MECH 03 | - |
| 190 | ADITYA BIRLA CHEMICALS, MUMBAI | APRIL 20, 2014 | 5 | CHEM 01, ECE 01, EEE 01, MECH 02 | - |
| 191 | TRILOGY S.W., B'LORE | APRIL 20, 2014 | * | | |
| 192 | CALLIGO TECH, B'LORE | APRIL 22, 2014 | 8 | CS 01, I.T 01 | CS 02, I.T 04 |
| 193 | CRIMSON LOGIC, B'LORE | APRIL 23, 2014 | 1 | - | I.T 01 |
| 194 | LUPIN LTD, MUMBAI | APRIL 23, 2014 | 1 | CHEM 01 | - |
| 195 | JBF PETROCHEMICALS, MUMBAI | APRIL 24, 2014 | * | | - |

*Results awaited

Training Slots for the Academic Year 2013-14

| Sl. No. | Branch | No. of Slots |
|--------------------------|---|--------------|
| 01 | Chemical Engineering | 59 |
| 02 | Civil Engineering | 61 |
| 03 | Computer Engineering | 64 |
| 04 | Electronics & Communication Engineering | 47 |
| 05 | Electrical & Electronics Engineering | 91 |
| 06 | Information Technology | 48 |
| 07 | Mechanical Engineering | 159 |
| 08 | Metallurgical & Material Engineering | 73 |
| 09 | Mining Engineering | 82 |
| Total Number of Students | | 684 |

Number of Companies : 173

Number of Training Slots : 684

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 2013 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 ENGINEER 2013

“Engineer” the reputed technical symposium of NITK, Surathkal was held on October 23,2013. Mr. Raghavendra Bhat, (Mathemagician, Manipal) as guest of Honour and Dr. Swapan Bhattacharya, Director, NITK as president.

17.3 Scholarships / Assistancehip

| Sl. No. | Date of Signing MOU Duration | Organization/Institute |
|---------|---|---|
| 1 | 3 rd March 2014, 5 Years | Moog India Technology Center Pvt. Ltd. |
| 2 | 26 th February 2014, 5 Years | Indian Naval Academy, Ezhimala. |
| 3 | 24 th January 2014, 3 years | M/s. Insmart Systems, Hyderabad |
| 4 | 17 th December 2013, 3 Years | hepia-University of Applied Sciences Western Switzerland technology, architecture and landscape |

17.4 MEMORANDA OF UNDERSTANDING (MOUs)

| | | |
|----|--|---|
| 5 | 4 th November 2013, 5 Years | Larsen & Toubro Limited (L&T Construction) |
| 6 | 21 st October 2013, 3 Years | University of Seville (UoS), Spain |
| 7 | 4 th October 2013, 3 Years | ProSIM R& D Pvt. Ltd. |
| 8 | 25 th September 2013, 5 Years | AB Volvo Group Sweden |
| 9 | 31 st August 2013, 5 Years | Robert Bosch Engineering and Business Solutions Limited (RBEI), Bangalore |
| 10 | 10 th June 2013 , 5 Years | Indian Institute of Science, Bangalore |

| | | |
|----|-------------------------------------|---|
| 11 | 10 th June 2013, 5 Years | Mercedes-Benz Research and Development India Private Limited (MBRDI), Bangalore |
|----|-------------------------------------|---|

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.

17.5 Innovations & Technology Transfer

Department of Electronics & Communication Engineering

| Details of Innovation/Patent | Names of faculty/staff/students involved |
|--|---|
| Annotation on media sheet indicating functionality to be performed in relation to image on media sheet, US 8482827 B2, Publication date July 9, 2013. | Dinesh Mandalapu, Anjaneyulu Seetha Rama Kuchibhotla, Sriganesh Madhvanath, Deepu VIJAYASENAN, Rama Vennelakanti, |
| “Successive Approximation Register Analog to Digital Converter Circuit and Conversion Method Thereof” applied at Indian Patent Office, Chennai – No. 4777/CHE/2013 dated 18/11/2013. | M Shankaranarayana Bhat Jagadish D. N |

Department of Metallurgical & Materials Engineering

| Details of Innovation/Patent | Name of faculty/staff / students involved |
|--|---|
| Submerged combustion burner and melter, and method of use, International patent applied for Johns Manville Corporation | Subray R. Hegde |
| “Submerged Combustion Burners” – International patent applied for Johns Manville Corporation | Subray R. Hegde |

17.6 Concessions For SCs, STs, Handicapped Students

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

Concessions Provided For Staff - Nil

17.7 SC/ST CELL

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

Also the Cell coordinates Scholarship Schemes for the benefit of the students belonging to SCs/STs

- The Central Sector Scholarship Scheme for SC/ST students introduced from the academic year 2007-08, objective of the scheme is to promote qualitative education amongst SC/ST students, by providing full financial support for pursuing studies beyond 12th class. Ministry of Social Justice & Empowerment awards 12 SC students and Ministry of Tribal Affairs awards 5 ST students per year whose total family income is up to Rs. 4.50 lakhs per annum. . In the current year(2013-2014) 46 SC and 19 ST students got benefited.
- Special Coaching Classes for all theory subjects and CP Lab for First Year B.Tech Students belonging to SC/ST/ OBCs, Minorities and PWDs.
- Co-ordination of Ambedkar Jayanthi celebration in the institute.

Other activities of the SC-ST Cell :

- **Professional Skill Enhancement Programme:**

The SC-ST Cell arranged twenty days in house programme, Professional Skill Enhancement Programme during 1st to 20th July 2013 for pre final year B.Tech and final year M.Tech SC/ST/OBC/PWDs students of NITK, Surathkal aimed to impart soft skills in the students and prepare them to face interviews and group discussions. 48 students of pre-final year B.Tech & final year M.Tech students actively participated in the programme.

The programme focuses on English communication skills, Self Enrichment & Employability enhancement, Teamwork, Leadership, Interpersonal skills, CV writing, Interviews, Group Discussions, Presentation skills, Career planning. From the placement records of the institute for the academic year 2013-2014 it is evident that out of 48 students 25 of them got placement in reputed organizations, one student got selected in Indian Institute of Management for further studies and few more students opted higher studies.

- **Self Enrichment Programme :**

Five days orientation programme titled “Self Enrichment Programme” on 9th, 10th, 11th, 17th and 18th August 2013 conducted for first year B.Tech SC/ST/OBC/PWD students of NITK-Surathkal. In the programme 120 students actively participated. The programme was aimed to develop social skills, study strategies, and improve their aspiration levels, orientation and abilities to adapt to the environment at NITK and to perform to their maximum abilities.

The modules of the proposed programme include SWOT analysis, Personality development, Stress Management, Effective communication, Group Discussion, Motivational Techniques & Practices, English for advance learners, Self Esteem, Presentation skills, Team work. The students expressed their view that, they got really motivated from this programme and helped in goal setting.

- **Personal Empowerment Programme**

The SC-ST Cell conducted two days Personal Empowerment Programme for first year Post Graduate students belonging to SC/ST category on 18th and 19th January 2014. Around 34 students actively participated in the programme. The Programme included Effective communication, Carrier guidance, Personal Training & Self Esteem, Goal setting and Report building. Students requested to conduct such programs again and again and other students take benefit of the programme.

17.8 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.

17.9 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. 110 RTI Applications were received during the year 2013-14 (from 01.04.2013 to 31.03.2014)

17.10 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.

17.11 TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME (TEQIP)

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 is planned as TEQIP-II with a financial outlay of Rs. 125 million launched in March 2011 with NITK entering into a MOU with MHRD for successful implementation of the project with the prime objectives of scaling up Postgraduate Education and Demand - Driven Research & Development and innovation and enhancing existing capacity to become dynamic, demand-driven, quality conscious, efficient and forward looking, responsible to rapid economic and technological developments occurring at the local, State, National and International levels.

Out of Rupees 125 million financial outlays under TEQIP-II programme, a sum of Rs. 20.00 million was received on 21-06-2011, Rs. 41.70 million was received on 06-10-2012 and Rs.10.00 million was received on 28-03-2014. Hence total Rs.71.70 million has been received up to the end of 31-03-2014. With the above fund flow the targets achieved and those under progress up to the end of March 2014 are as under:

| Sl. No. | Head of Account | Amount in Million (Rs.) |
|---------|--|-------------------------|
| 1. | Procurement of Assets (including Books, LRs, software, Equipments and Furniture) | 39.60 |
| 2. | Providing Teaching and Research Assistantship | 6.38 |
| 3. | Enhancement of R & D activities | 0.61 |
| 4. | Faculty and Staff Development | 1.66 |
| 5. | Enhanced interaction with Industry | 0.78 |
| 6. | Academic support to weak students | 0.24 |
| 7. | Incremental Operating Cost | 8.45 |
| 8. | Institutional Reforms | 9.35 |
| 9. | Institutional Management Capacity Enhancement | 0.25 |
| | Total | 67.32 |
| | % Utilization | 93.4% |

35 number of Workshops/Seminars involving financial outlay of Rs.5.55 million were conducted in various Engineering departments. A total of seven expert lectures and five workshops were conducted under Industry Institute Interaction and twelve expert lectures were conducted under enhancement of Research and Development activities.

At the time of reporting, 65 Faculty members from various departments have availed the facility of sponsorship under TEQIP-II for attending Workshop, Seminar, Conferences and Research Interaction at different Universities in India and Abroad.

Following events took place during the reporting period:

1. The NPIU nominated Mentor Dr. Sounak Chowdhary visited this Institute during December 2012 and interacted with Faculty members, Non - teaching staff and students of the Institute regarding TEQIP-II activities in the Institute.
2. Performance Audit of TEQIP-II activities has been conducted in August 2013 as per NPIU guidelines.
3. Review of Good Governance Practice was conducted by World Bank Consultants during September 2013.
4. Data Audit of TEQIP-II was conducted during February 2014.

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 2013-14 is Rs. 1.63 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 |
|------------------|--|-----------------|
| L&T | Academic | 2014-15 onwards |

Department of Computer Engineering

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

Department of Chemical Engineering

| Name of Industry | Nature of Collaboration (Academic, Research, Training, Etc.) | Period / Duration |
|--|---|---|
| Kudremukh Iron Ore Company Ltd, Mangalore | Training to undergraduate students & Post graduate sudents | During Summer vacation May to July 2013 |
| Buhlar (India) Pvt.Ltd., Bangalore | Training to undergraduate & Post Graduate students | During Summer vacation May to July 2013 |
| Indian Instt. Chemical Technology, Hyderabad | Training to undergraduate students & Post graduate sudents | During Summer vacation May to July 2013 |
| MRPL, Mangalore | Training to undergraduate & Post Graduate students | During Summer vacation May to July 2013 |
| Bharath Petroleum & Chemicals Ltd., Cochin | Training to undergraduate students & Post graduate sudents | During Summer vacation May to July 2013 |
| Hindustan Organic Chemicals Ltd., Cochin | Training to undergraduate & Post Graduate students | During Summer vacation May to July 2013 |
| Reliance Industries, Jamnagar | Training to undergraduate students & Post graduate sudents | During Summer vacation May to July 2013 |
| Reliance Industrial limited, Navo Mumbai | Training to undergraduate & Post Graduate students | During Summer vacation May to July 2013 |
| Chemical Engg. & Process Development Group of R&D Centre at Reliance Industries Ltd., Vadodara | Training to undergraduate students & Post graduate sudents | During Summer vacation May to July 2013 |

| | | |
|--|---|--|
| BASF, Mangalore | Training to undergraduate & Post Graduate students | During Summer vacation May to July 2013 |
| Mangalore Chemicals & Fertilizers, Panambur, Mangalore | Training to undergraduate students & Post graduate students | During Summer vacation May to July 2013 |
| Qatar Fuel Additives Company (QAFAAC) | Training to undergraduate & Post Graduate students | During Summer vacation May to July 2013 |
| Qatar Fertilizers Company (SAQ), | Training to undergraduate students & Post graduate students | During Summer vacation May to July 2013 |
| Worley Parsons, Resources & energy, Oman | Training to undergraduate & Post Graduate students | During Summer vacation May to July 2013 |
| Bharath Petroleum Corporation Limited, Mahul Refinery, Mumbai | Training to undergraduate students & Post graduate students | During Summer vacation May to July 2013 |
| KREBS Biochemicals and Industries Ltd, Nellore, Andhra Pradesh | Training to undergraduate & Post Graduate students | During Summer vacation May to July 2013 |
| Vesuvius India Ltd., Kolkata | Training to undergraduate students & Post graduate students | During Summer vacation May to July 2013 |
| Saha Instt. of Nuclear Physics, Kolkata | Training to undergraduate & Post Graduate students | During Summer vacation May to July 2013 |
| AKZO Nobel coatings India Pvt.Ltd, Bangalore | Training to undergraduate students & Post graduate students | During Summer vacation May to July 2013 |
| GE India Tech.Centre Pvt. Ltd., Bangalore | Training to undergraduate & Post Graduate students | During Summer vacation May to July 2013 |
| Glaxo SmithKline Consumer Health Care Ltd., Nabha | Training to undergraduate students & Post graduate students | During Summer vacation May to July 2013 |
| MRD Life Sciences, Lucknow | Training to undergraduate & Post Graduate students | During Summer vacation May to July 2013 |
| TEVA Active Pharmaceutical Ingrediants India Ltd., Greater Noida, UP | Training to undergraduate students & Post graduate students | During Summer vacation May to July 2013 |
| MSN Laboratories Pvt. Ltd., Hyderabad | Training to undergraduate & Post Graduate students | During Summer vacation May to July 2013 |
| HLL Lifecare Limited, Trivandrum | Training to undergraduate students & Post graduate students | During Summer vacation May to July 2013 |
| The Fertilizers and Chemicals Travancore Limited (FACT), Udyogmandal, Kerala | Training to undergraduate & Post Graduate students | During Summer vacation May to July 2013 |
| Bharat Heavy Electricals Limited, Bangalore | Training to undergraduate students & Post graduate students | During Summer vacation May to July 2013 |
| Rashtriya Viscat Nigam Limited, Visakhapatnam | Training to undergraduate & Post Graduate students | During Summer vacation May to July 2013 |
| CIPLA Ltd., Bangalore | Training to undergraduate students & Post graduate students | During Summer vacation May to July 2013 |
| Karnataka Power Corporation Ltd., Bangalore | Training to undergraduate & Post Graduate students | During Summer vacation May to July 2013 |
| National Solid Waste Association of India, Mumbai | Internship to Post Graduate students | During Summer vacation May to July 2013 |
| Thermax (India) Ltd., Pune | Internship to Post Graduate students | During Summer vacation May to July 2013 |
| TERI-SRC, Bangalore | Internship to Post Graduate students | During Summer vacation May to July 2013 |

| | | |
|---|---|--|
| Variable Energy Cyclotron Centre, Dept. of Atomic Energy, Govt. India, Kolkata | Internship to Post Graduate students | During Summer vacation May to July 2013 |
| National Centre for Cell Sciences, Pune | Major Project work & Internship to Post Graduate students | During July 2013 to May 2014 academic year & Summer vacation May to July 2013 |
| Indian Instt. Of Science, Bangalore | Major Project work & Internship to Post Graduate students | During July 2013 to May 2014 academic year & Summer vacation May to July 2013 |
| Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore | Major Project work & Internship to Post Graduate students | During July 2013 to May 2014 academic year & Summer vacation May to July 2013 |
| Regional Centre for Technology, Gurgaon | Major Project work & Internship to Post Graduate students | During July 2013 to May 2014 academic year & Summer vacation May to July 2013 |
| Dept. Of Chemical Engg., Indian Institute of Technology, Bombay | Major Project work & Internship to Post Graduate students | During July 2013 to May 2014 academic year & Summer vacation May to July 2013 |
| Instt. of Chemical Tech., Mumbai | Major Project work & Internship to Post Graduate students | During July 2013 to May 2014 academic year & Summer vacation May to July 2013 |
| Indian Instt. Of Technology Madras, Chennai | Major Project work & Internship to Post Graduate students | During July 2013 to May 2014 academic year & Summer vacation May to July 2013 |
| Department of Chemical and Biomolecular Engg., National University of Singapore | Major Project work & Internship to Post Graduate students | During July 2013 to May 2014 academic year & Summer vacation May to July 2013 |
| UniBiosys Biotech Research Lab., Cochin University, Cochin | Major Project work & Internship to Post Graduate students | During July 2013 to May 2014 academic year & Summer vacation May to July 2013 |
| Central Tubers Corps Research Instt., Thiruvananthapuram, Kerala | Major Project work & Internship to Post Graduate students | During July 2013 to May 2014 academic year & Summer vacation May to July 2013 |
| Biochemical engg. Unit, National chemical Laboratory, Pune | Major Project work & Internship to Post Graduate students | During July 2013 to May 2014 academic year & Summer vacation May to July 2013 |
| Dept. Of Biotechnology, Central Leather Research Instt. (CSIR), Chennai | Major Project work & Internship to Post Graduate students | During July 2013 to May 2014 academic year & Summer vacation May to July 2013 |

| | | |
|--|---|--|
| Indian Instt. Of Technology, Guwahati | Major Project work & Internship to Post Graduate students | During July 2013 to May 2014 academic year & Summer vacation May to July 2013 |
| National Instt. Of Immunology, New Delhi | Major Project work & Internship to Post Graduate students | During July 2013 to May 2014 academic year & Summer vacation May to July 2013 |

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 | UG Project | 2013-2014 |
| Robert Bosch Engineering and Business Solutions Limited, Bangalore | PG Project | 2013-2014 |
| Intel Technology India Pvt Ltd, Bangalore | PG Project | 2013-2014 |
| Broadcom Communication PVT LTD, Bangalore | PG Project | 2013-2014 |
| Udupi Srikrishna Technologies, Bangalore | PG Project | 2013-2014 |
| Cypress Semiconductors | PG Project | 2013-2014 |
| Plx Technology | PG Project | 2013-2014 |
| Google, Bangalore | PG Project | 2013-2014 |
| Kaji Tech Bangladesh | PG Project | 2013-2014 |
| Emulex Communications Pvt. Ltd | PG Project | 2013-2014 |
| ISRO | PG Project | 2013-2014 |

Department of Humanities & Social Sciences And Management

| Name of Industry | Nature of Collaboration (academic, research, training, etc) | Period/Duration |
|--|---|-----------------|
| MIVO Software Technology Solutions Pvt. Ltd. | Member on Advisory Board | From 05.03.2014 |
| WorCla Tra (Management Consulting Company) | Member on Advisory Board | From 16.12.2013 |

Department of Mechanical Engineering

| Name of Industry | Nature of Collaboration (academic, research, training, etc) | Period/Duration |
|---|--|---|
| 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 |
| AVL LIST GmbH, Austria | ALV has provided the department with leading CFD research tools for internal research and teaching activities. | License for every one year |
| 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 Metallurgical & Materials Engineering

| Name of Industry | Nature of Collaboration (academic, research, training, etc) | Period/Duration |
|---|--|------------------------|
| Bharat Heavy Electricals Limited, Bangalore | Academic – M. Tech. Project | 1 year |
| Larsen & Toubro Special Steels, Hazira Complex, Surat | Quench Heat Treatment of Steels | March 2014 onwards |
| Thermet Solutions (P) Ltd., Bangalore | Heat treatment of Steels | April 2013 onwards |
| CSIR Lab: Central Glass and Ceramic Research Institute, Kolkata | M.Tech research project | July 2013 - April 2014 |

19 SIGNIFICANT ACHIEVEMENTS

19.1 Infrastructure Development

One new Teaching block of about 6,932 sqm of built up area consisting 12 classrooms, 8 Lecture halls, one seminar hall and a senate hall is under construction at an estimated cost of ``23 crore. The building is expected to be completed by October 2014. (being executed through CPWD)

New Projects in pipeline

Following works shall be taken up shortly through central public works department.

- 1) New Integrated Sports Complex
- 2) New apartment for Faculty
- 3) New apartment for non faculty
- 4) New boys hostel building (10th block) of 500 single occupancy room.
- 5) New Ladies Hostel building (5th block) of 250 single occupancy rooms.
- 6) Additional building space for Library and renovation of existing library.
- 7) A New building block for Computer Science & Engineering Dept.
- 8) Vertical extension of New Mechanical building.
- 9) Vertical extension of Basic Sciences building.
- 10) Vertical extension of applied mechanics building.
- 11) Horizontal extension of P.G. Chemical building.

19.02 Notable Achievements

Department of Applied Mechanics and Hydraulics

Past achievements of Department

| Sl. No. | Subject/Head of Information | Name/Title | Dates | No. of participants |
|---------|-----------------------------|---|--|---------------------|
| 1 | STTP | Effective Teaching Methodologies- Statics | 10 th -14 th May, 2010 | 66 |
| 2 | STTP | Soft computing techniques in Water Resources Engineering | 5 th July to 9 th July 2010 | 50 |
| 3 | STTP | Fuzzy logic, genetic algorithm with wavelet transformation in Civil engineering | 27 th June to 1 st July 2011 | 54 |
| 4 | Workshop | Conservation of Water Resources of West Flowing Rivers of Coastal Karnataka | 14 th –15 th December, 2012 | 120 |
| 5 | Workshop | Geoinformatics for Natural Resource Management | 30 – 31, January 2013 | 55 |
| 6 | Workshop | Geoinformatics for Water and Coastal Engineering | 23-24, September 2013 | 90 |
| 7 | Symposium | Outstanding Issues for Hydrological Research in India' | 21 st October 2013 | 112 |

Workshop Conducted

| Sl. No. | Subject/Head of Information | Name/Title | Dates | No. of participants |
|---------|-----------------------------|--|-------------------------------|---------------------|
| 1 | Workshop | Geoinformatics for Water and Coastal Engineering | 23-24, September 2013 | 90 |
| 2 | Symposium | Outstanding Issues for Hydrological Research in India' | 21 st October 2013 | 112 |

Visits abroad by Faculty members

| Name of the Faculty | University/ Institute/ Organisation | Place | Purpose | Duration |
|---------------------|---|-------------------|---|--|
| H.Ramesh | Asian Institute of Technology | Bangkok, Thailand | Visiting Professor | Jan. – April 2013 |
| Manu | Plymouth University | United Kingdom | Attend 12 th International Coastal Symposium-ICS 2013 | 8 th to 12 th April, 2013 |
| A.Vittal Hegde | World Academy of Science Engineering and Technology (WASET) | Switzerland | Attend International Conference ICCOE-2013 | 30-31, July 2013 |
| Subba Rao | International Scientific Academy of Engg. & Technology | Dubai | Attend International Journal Conference on Transport and Civil Engineering – 2013 | 4 th to 5 th October, 2013 |
| Kiran G. Shirlal | International Scientific Academy of Engg. & Technology | Dubai | Attend International Journal Conference on Transport and Civil Engineering – 2013 | 4 th to 5 th October, 2013 |
| Manu | International Scientific Academy of Engg. & Technology | Dubai | Attend International Journal Conference on Transport and Civil Engineering – 2013 | 4 th to 5 th October, 2013 |
| B.M.Dodamani | University of Malaysia | Malaysia | 11 th International Conference on Membrane Science and Technology 2013, Kuala Lumpur | 27 th -29 th August 2013 |

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 | MOEF | 250.60 | Yes | 20 % | Pending |
| 17.03.2014 | G.S.Dwarakish | ISRO- RESPOND | 17.65 | No | 20 % | Pending |

Department of Chemical Engg.

| |
|--|
| Achievements during 1st April 2013 to 31st March 2014 |
|--|

| |
|---|
| Received DST-FIST project funding sanction of Rs. 220 lakhs for five years from 2014. |
|---|

**LIST OF STAFF MEMBERS VISITED TO THE FOREIGN COUNTRIES
(From 1.4.2013 to 31.3.2014).**

| Sl.No. | Name of the staff | Date & Place of Visit | Purpose of Visit |
|--------|-------------------|---|---|
| 1. | D.V.R. Murthy | 20 th May to 28 th June 2013 Univ. Of Southern California, USA | Research interaction on Methanol economy project |
| 2. | Prasanna B.D. | July 20 th -Aug 3 rd , 2013 University of Wisconsin- Madison (UW), USA | To attend "Khorana program Technology Transfer course 2013" funded by DST, Govt. of India. |
| 3. | Prasanna B.D. | 13 th -20 th of October, 2013 National Technical University of Ukraine, Kiev Polytechnic University" Ukraine | To pursue collaborative research project funded by DST, Govt. of India on "Probiotics". |

**GUEST Lectures DELIVERED BY FACULTY MEMBERS DURING
(From 1.4.2013 to 31.3.2014).**

| Sl. No. | Subject / Topic of the Guest Lecture | Lecture Delivered by (Name & Address) | Place & Event of Lecture Delivered | Dates of Lecture |
|---------|---|--|---|---------------------------------------|
| 1 | Opportunities and challenges in Industrial Biotechnology | Prasanna B.D., Dept. of Chemical Engg. NITK | Key note lecture in "International conference on convergence of science, Engineering & management in education and research- A global perspective". DayanandSagar Institutions, Bangalore, India. | 26 th September 2013 |
| 2 | Nanophotocatalysis in fluidized bed reactor | Vidya Shetty K | Invited talk at National Conference on Women in Science and Engineering at Sri Dharmasthala Manjunatheshwara College of Engineering & Technology, Dhavalagiri, Dharwad | 5th July to 6th July 2013 |
| 3 | Two phase partitioning bioreactor for biodegradation of phenols | Vidya Shetty K | Invited talk at National Seminar on "Trends in Environmental Biotechnology and its Applications" sponsored by UGC and DBT (under Star | 10-11 December, 2013 |

| | | | | |
|---|--|----------------|--|---------------------------|
| | | | College Scheme) organized by The departments of Biotechnology and Botany, St.Alloysius college, Mangalore | |
| 4 | Topic: Pulsed plate column as a Two phase partitioning bioreactors for wastewater treatmen | Vidya Shetty K | a lecture at Faculty Development Programme on "Changing Scenario In Energy And Environment" organized by Department of Chemical Engineering, NIT Calicut | 15-12-2013 to 21-12-2013. |

Guest Lectures Delivered By External Experts In The College During (From 1.4.2013 To 31.3.2014).

| Sl.No | Name & Affiliation of the Speaker | Title of the Talk | Dates of Lecture |
|-------|---|--|---|
| 1. | Ramakrishna R. Sonde Chief Technology Officer, Executive Vice President (Research, Technology & Innovation) Thermax India Ltd., Pune & executive Council as well as General Council in Board of National Board of Accreditation | Non Linear Sequencefrom Science to Sustainable Wealth Creation (An Example in Solar Energy Development in India) | Monday, March .4 th 2013 under Prof. M.G. Subba Rau Lecture Series, conducted by the Dept. of Chemical engg. |
| 2 | Pogadu Ravindra, Professor of Chemical engg., Director of Oil and Gas Engg., University of Malaysia Sabah | Green Engineering – A Borderless Science | 15 th & 16 th April, 2013. Tequip II Phase |
| 3 | Arun Ramachandran, Assistant Professor, Department of Chemical engg. and Applied Chemistry, University of Toronto, Toronto, Ontario, Canada | Recent Progress in understanding the Stability of Vasicles dispersion | Wednesday, 21.08.2013, Expert Lecture Series on “Advances in Process Control under TEQIP II |
| 4 | K. S. Gandhi, Former Professor, Department of Chemical Engg., Indian Institute of Science, Bangalore | Nature vs Nurture : The Case of Problem Solving | Tuesday, 3 rd September, 2013 |
| 5 | Ravindra Gudi, Dept. of Chemical Engg., IIT,Bombay | Basics/Preliminaries : Regulatory & Advanced Process Control | Friday 4 th October, 2013 Expert Lecture Series on “Advances in Process Control under TEQIP II |
| 6 | Ravindra Gudi, Dept. of Chemical Engg., IIT,Bombay | Nonlinear and Fuzzy Control | |
| 7 | S.Sundaramoorthy, Professor & Head, Dept. of Chemical Engg., Pondicherry Engg. College, Pondicherry | Advanced Model Identification and PID Controller using. | |

| | | | |
|----|---|---|---|
| 8 | S.Sundaramoorthy, Professor & Head, Dept. of Chemical Engg., Pondicherry Engg. College, Pondicherry | Decomposition-Based Advanced Control: Coordinated MPC | |
| 9 | Ravindra Gudi, Dept. of Chemical Engg., IIT,Bombay | Control Loop \performance Monitoring | Saturday 5th October, 2013 Expert Lecture Series on “Advances in Process Control under TEQIP II |
| 10 | Ravindra Gudi, Dept. of Chemical Engg., IIT,Bombay | Inferential Estimation and Control | |
| 11 | Sanjay Dave, Honeywell Technology Solutions, Bangalore. | Industry Perspective in Process Control: Challenges and Opportunities | |
| 12 | Venkatesh Rajagopalan, General Electric Technology Centre, Bamgalore | Unscented Kalman filters and Particle Filters – Concepts, theory and Applications. | |
| 13 | Venkatesh Balan, Associate Professor, Department of Chemical Engg. & Material Science, Michigan State University, USA | Integrated Method of Producing Biofuels using Oil Cakes and Lignocellulosic Biomass Seed Cover | Wednesday, 13.11.2013 |

Department of Civil Engineering

Past Achievements of Department

- **Mr. Vikas Chaintanya G**, student of M.Tech (Structural Engineering) has secured "Second" place in BEST PHYSIQUE (75 kg) and "Third" place in HAMMER THROW in the All India Inter-NIT Sports Meet 2014 held at NIT, Tiruchirappalli.
- Mr. Aswin Kumar (11CM09F) was awarded the ACCE-NIRMANA NIRVAHANE PURASKARA 2013, instituted by the Association of Consulting Civil Engineers, Bangalore Chapter, for the best M.Tech Thesis in Construction Technology and Management, submitted to any of the Universities in Karnataka, for the academic year 2012-13.
- The dissertation submitted by has been selected by the Awards Committee for **Mr. Naveen Kumar** and **Mr. Honnana Goudar**, students of Department attended the Second International Engineering Symposium 2013 held at Kumamoto University, Japan to present their research papers
- Mr. Boruga Mahesh was awarded the ACCE-Nirman Nirvahane Puraskar award, instituted by the Association of Consulting Civil Engineers, Bangalore Chapter, for the best M.Tech Thesis in Construction Technology and Management, submitted to any of the Universities in Karnataka, for the academic year 2011-12. Dr.V.R.Sastray, Professor, Department of Mining Engineering was the thesis supervisor.
- The M.Tech dissertation work titled, “Studies on Performance of Concrete Mixes in Acidic Environment”, prepared by Mr.Channappa T.M. was awarded the ACCE-Sundaram award instituted by the Association of Consulting Civil Engineers, Bangalore Chapter, for the best M.Tech Thesis in Structural Engineering submitted to any of the Universities in Karnataka, for the academic year 2011-12. Dr. Mattur C. Narasimhan was the thesis supervisor.

- The following students made the Department proud by securing admissions in reputed universities abroad for further studies.

Miss. Prajna Tata (B.Tech-2013) - University of Michigan, Ann Arbor
 Mr. Harsha Bharadwaj (B.Tech-2013) - University of Michigan, Ann Arbor
 Mr. Vinay Damodaran (B.Tech-2012) - Johns Hopkins University.

| |
|---|
| Achievements during 1 st April 2013 to 31 st March 2014 |
| FIST-2013 support to the tune of INR 120 Lakh from the Department of Science and Technology, Government of India. |
| Successfully organized DST sponsored Project Assessment Committee (PAC) Review Meet. 5-6, February 2014 |

Department of Computer Engineering

| Achievements up to 31 st March 2013 | Achievements during 1 st April 2013 to 31 st March 2014 |
|---|---|
| <ul style="list-style-type: none"> ➤ Swapan Bhattacharya, the esteemed Director of NITK Surathkal was honoured with The ET NOW National Education Leadership Award. ➤ 2nd three days workshop on "Simulation of Wired and Wireless Networks (SWN-2012)", 20th -22th June 2012. Co-ordinator: K. C. Shet, Mr. B. R. Chandavarkar ➤ Two-Week ISTE workshop on "Introduction to Research Methodologies", under the National Mission on Education (ICT), from 25th June - 04th July 2012, Co-ordinator: P.Santhi Thilagam, Mr. Mahendra Pratap Singh ➤ Three days workshop on "Cloud Computing and Internet of Things", 23th-25th July 2012, Co-ordinator: K. Chandrasekaran. ➤ Three days International Symposium on "Cloud and Services Computing 2012 (ISCOS 2012)", 16-18 December 2012, Co-ordinator: K. Chandrasekaran. ➤ 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, | <ul style="list-style-type: none"> ➤ K.Chandrasekaran is nominated as a member in the Editorial board of IEEE transactions on Cloud Computing. ➤ K.Chandrasekaran is selected as one of the members of the "IEEE Cloud Computing STC's conference Executive TCS Committee", USA. <p>Students achievements:</p> <ul style="list-style-type: none"> ➤ Anirban Chakraborty and Arijit Mallik published An Windows 8 app for Microsoft NIT Surathkal Bootcamp: Appathon which is rated as Silver by Windows8Pit Crew and is in Windows Store now. ➤ Anirban Chakraborty presented a Poster Paper at Security and Privacy Symposium 2014 held at IIT Kanpur ➤ Tarun Jain presented a research paper at IEEE International Conference "Advanced Computing & Communication Technologies (ACCT-2014)" held at R.G. Society, Rohtak, Haryana. ➤ Jivak Dhadse presented a research paper at IEEE International Conference "Advanced Computing & Communication Technologies (ACCT-2014)" held at R.G. Society, Rohtak, Haryana. ➤ Sarat Chandra Prasad G got best Paper Award for the paper "Securing the |

| Achievements up to 31 st March 2013 | Achievements during 1 st April 2013 to 31 st March 2014 |
|--|---|
| <p>Coimbatore under the guidance of P. Santhi Thilagam.</p> <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 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. ➤ 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: P. Santhi Thilagam. ➤ Five days AICTE MHRD Sponsored Summer School on "Next Generation Data Management", 13th June - 17th June 2011. Co-ordinator: P. Santhi Thilagam, Mr. Mahendra Pratap Singh. ➤ Five days AICTE MHRD Sponsored STTP on "Simulation of Wireless Networks", during 20th-24th June 2011. | <p>Network Topology in a Source Routing Multi Domain SDN", International Journal of Computer Applications (IJCA), ISSN: 0975-8887, Volume ICACEA - No. 3, 2014.</p> <ul style="list-style-type: none"> ➤ 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). ➤ 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. |

| Achievements up to 31 st March 2013 | Achievements during 1 st April 2013 to 31 st March 2014 |
|--|---|
| <p>Co-ordinator: K. C. Shet, Mr. B. R. Chandavarkar.</p> <ul style="list-style-type: none"> ➤ Kalpa Vishnani M.Tech.(CSE-IS) 2009-11 received Best paper award for the paper "Detecting & Defeating Split Personality Malware" in an International Conference SECURWARE 2011, France. ➤ One day workshop for school teachers on "Information Security" on 04th February 2012, Co-ordinator: Alwyn Roshan Pais and Mr. K. Vinay Kumar. ➤ CSI Region 5 Student Convention – NITK Chapter“, E – Inclusion: Empowerment of Society through Technology” 27th – 28th March 2010. Co-ordinator: P. Santhi Thilagam ➤ Three days Workshop on Unix Network Programming – 29th – 31st March 2010. Co-ordinator: Dr. P. Santhi Thilagam. ➤ K. C. Shet and K. Chandrasekaran received: "SHIKSHA RATTAN" award. | |

Department of Electrical & Electronics Engineering

Past Achievements of Department

| Sl. No. | Name | Awards Received | Institute / Organization |
|---------|-------------|---|--|
| 1 | G S Punekar | Invitation and appreciation in FDP conducted by them. | Canara Engineering college Mangalore. |
| 2 | G S Punekar | Invitation and appreciation to workshop on "PD" hosted conducted by CPRI for the industry and utility people. | Diagnostic division of CPRI Bangalore |
| 3 | G S Punekar | Invited talks for 4 sessions in NITK-CPRI joint PG diploma program in a single day (Full day teaching) to participants from industry and utilities. | CCAR-CPRI Bangalore. |
| 4 | G S Punekar | Guidance sponsored UG- Project of Karnataka State Council for Science Technology (KSCST). | Karnataka State Council for Science Technology (KSCST) , IISc Campus Bangalore |

Awards/Achievements (Students)

| Sl. No. | Name | Awards/ Organization | Outstanding performance/ Rank in National Level competitive events (UPSC, CAT etc) |
|---------|----------------------|---|--|
| 1. | Shakthiprasad D | POSOCO, National Level award for his M.Tech thesis. One among the top 10 at the National level. | By Jury panel of IIT Delhi |
| 2 | Arthi Sahaya Rones V | POSOCO, National Level award for her M.Tech thesis. One among the top 10 at the National level. | By Jury panel of IIT Delhi |
| 3 | Vinod. M. P | POSOCO, National Level award for his M.Tech thesis. | By Jury panel of IIT Delhi |

Department of Electronics And Communication Engineering

| Achievements up to 31 st March 2013 | Achievements during 1 st April 2013 to 31 st March 2014 |
|--|---|
| <ul style="list-style-type: none"> ➤ Gate 2013: Kishore Subramanian: 23rd Rank ➤ NITK was the only Indian team in the finals of the competition IFEC'13 (IEEE International Future Energy Challenge-2013) at the APEC Conference for the , project entitled “Low cost Long lifetime LED driver” by Adarsh Hasnada (09EC06), Anirban Ghosh (09EC11), Pavan K Shetty (09EC62), Varun Reddy (09EC101) under the guidance of Dr.Ramesh Kini M. ➤ Preejit Prakash(ECE), Siddahrtha Kumar (EEE), Varun Reddy (ECE) won the first prize in the TI India Analog Design Contest 2012-2013 in the fourth edition of TI Analog Design Contest in India where 350 teams from 102 colleges for their project “Fast Response Search And Rescue Robot, Assisted Low Power WSN Net For Navigation And Detection” under the guidance of Dr.AparnaP. ➤ B. Vasudev Anand, M.Tech (R) student visited Bangkok, Thailand during 3-5 December, 2012 to present a technical paper in the IEEE International Conference on Electron Devices and Solid State Circuits. Paper title: Stub mounted loaded line phase shifter using novel RF MEMS switch. ➤ Praveen Purushothama visited as exchange student for his MTech Project at the School of Business Engineering (HEIG-VD) – | <ul style="list-style-type: none"> Akshay Pattabi, Summer Internship Programme at University of Göttingen, Germany through DAAD-WISE, from 20th May to 20nd July 2013 Manyu Deshpande attended Summer Research Internship at ECAM Lyon, France, from 15th May to 17th July 2013. Adithya Shriram attended Finisar industrial training, at Finisar Malaysia from 13th may 2013 - 20th July 2013 Ankith G S attended Mitacs Globalink programme in Canada from 13 May- 26 July 2013. Ajith did internship through Mitacs Globalink programme in Canada from 13 May- 26 July 2013. Rakshith Sharma S attended Summer Internship at Friedrich Alexander university-Erlangen Germany through DAAD, from 15th May to 21st July 2013. Spoorthi g Nayak attended MITACS intenshis at University of Calgary, canada, from 13th may to 22nd july 2013. S.Harika summer internship programme at university of saskatchewan Canada from May 18- July 18 2013. |

| | |
|---|---|
| <p>University of Applied Sciences, from 1st to 30th November 2012.</p> <ul style="list-style-type: none"> ➤ Nishant Joshi visited University of Winnipeg, Canada to do his research work from 1st September 2012 to 28th February 2013. ➤ Anurag Ranjan attended MITACS Globalink Programme in Canada, from 10th May – 27th July 2012. ➤ Chetan Patil attended Summer Internship Programme at Technical University Munich, Germany through DAAD, from 14th May to 22nd July 2012. ➤ Shashank Uppoor, Priyanka Ganapathi and Pulagam Harichandan attended Summer Internship Programme at Dublin City University, Ireland from 26th May to 30th July 2012. ➤ Saeed Tulpule attended Summer Internship Programme at ECAM, France from 15th May to 31st July 2012. | <p>Bharath V attended Viterbi - India Summer Research Program at University of Southern California, Los Angeles, from 23rd May to 15th July 2013.</p> <p>Anoop Raghav S attended research internship at CNRS-Institut FEMTO-ST, France, from 13th May to 29th July 2013.</p> <p>Amogha P attended MITACS internship at ETS Montreal, Canada, from 13th May to 27th July 2013.</p> |
|---|---|

Department of Humanities, Social Sciences and Management

Past Achievements of Department

Faculty and Students Exchange programme with School of Business and Engineering, HEIG-VD, Switzerland.

Bijuna C. Mohan and eleven students of the MBA programme from the Department of HSSM participated in an International Summer University program 2013, in Business Engineering and Intercultural Communication (SUBEIK 2013) at the University of Applied Sciences, Western Switzerland, School of Business and Engineering Vaud (HEIG-VD), Switzerland from 8 to 19 July 2013 as part of MOU, between NITK with HEIG-VD, Switzerland.

Department of Mining Engineering

Past Achievements of Department

Some of the faculties were selected by Department of Science & Technology, Govt. of India for "Interactive Meet of Indian Research Scholars with European and Indian Science icons" and also received "Certificate of Appreciation" from MentorNet, the E- Mentoring network for diversity in Engineering and Sciences, USA.

The faculties of the Department have received "Certificate of Merit" from the Institution of Engineers (India) for several papers published in the Journal of the Institution of Engineers (India). Further, some of the faculties have also received "Career Award for Young Teachers" from AICTE, "Young Scientist Award" from Ministry of Science and Technology, Government of India, "Engineering Gold Medal" from Institute of Engineers (India) and D.N. Thakur award from MGMI for outstanding contribution to mining industry. Some of them are either Editors or Editorial Board Members of reputed National and International Journals. A number of faculties of the department are also serving as reviewers of several

professional journals of national and international repute. The faculty of the Department is also holding key positions in Board of Directors of reputed Public sector undertakings.

| Achievements during 1st April 2012 to 31st March 2013 |
|--|
| • HarshaVardhanis the main author of the Book “Rock Engineering Design Property and Application in Sound Waves published by Taylor and Francies. |
| • HarshaVardhan offered Online MPTEL Course on “An Introduction to Underground Mine Environment and Ventilation”. |
| • HarshaVardhan and Dr. M. Aruna are working with Govt. of Karnataka in connection with Lease Boundary mine survey. |
| • HarshaVardhan reviewed papers for Safety Science and IJRM Journals. |
| • HarshaVardhan is an Editorial Board Member of Journal of Mining and Mineral engineering. |

Department Of Mechanical Engineering

Past Achievements of Department (Important ones in past 3 yrs)

- The department had started M.Tech Program in Design and Precession in collaboration with Central Manufacturing Technology Institute, Bangalore
- The department has got to its credit the research projects granted by AICTE, DST and ARDB
- The department has conducted workshop and training for teachers in technical institute
- The department engaged in consultancy work
- The department has collaborated with industries to aid research, training and academic
- Deputed 7 faculties to pursue PhD at various IIT's.

| Achievements during 1st April 2012 to 31st March 2013 |
|--|
| • Six PhD degree has been awarded |
| • Published 52 papers in international Journals, 44 papers in international conferences and 4 papers in national conferences |
| • Volvo has entered into an academic and research partnership with NITK |
| • External funded projects worth Rs. 1118.8 Lakhs |
| • Conducted one international conference, four national workshops and two STTPs |
| • Four new faculty members joined in the department. |

Department of Information Technology

| Achievements during 1st April 2013 to 31st March 2014 |
|--|
| • Eleven batches of UG (B.Tech) and Two batch of PG(M.Tech) students have successfully completed their graduation in IT stream so far. |
| • Around 90% placements in B.Tech during 2013-2014 and 73% placements in M.Tech during 2012-13. |

Department of Chemistry

| Achievements during 1st April 2012 to 31st March, 2013 |
|--|
| • 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. The UPS and AC facilities have been set-up. |

Department of Metallurgical and Materials Engineering

Past Achievements of Department

- Accreditation of two PG and one UG programmes for 5 years by NBA
- Produced 5 Ph.Ds.
- Secured Ministry of Steel Scholarship and Professor's Chair
- Published 138 research papers

| Achievements up to 31 st March 2013 | Achievements during 1 st April 2013 to 31 st March 2014 |
|--|---|
| Total no. of Ph.Ds = 23 | 1 |
| Total No. of Paper Published = 324 | Total No. of Paper Published = 51 |

Addition(s) to Building Infrastructure

Department Civil Engineering

- Additional teaching block: Third floor to extended portion of the Department.
2nd floor of Industrial structural laboratory.
- Proposal for additional space in vertical expansion of the Applied Mechanics Block.

Department of Computer Engineering

- Western Teaching Block under construction.
- Construction of new department building for the CSE department Rs.10 crores deposited with CPWD for construction. Total estimated Rs. 33 crores.
- Construction of 2nd floor over CSE Annex building is in progress.

Department of Electrical & Electronics Engineering

- By partitioning the available free space in the department, faculty rooms are created to accommodate new faculty members.

Department Of Mechanical Engineering

- 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 & Materials Engineering

Special talk from Industries/R&D

| | | | |
|----|--|---|------------|
| 1. | Sathyapal Hegde ITC Level 2 Thermographer & Director, Prsanna Technologies Pvt. Ltd., Bangalore | Industrial Thermography | 08-04-2013 |
| 2. | B. V. Prakash Senior Manager KIOCL, Panambur, Mangalore | Iron Ore Pelletization | 17-04-2013 |
| 3. | Punkaj K. Bajaj Ex. MD & CEO Durgapur Steel Plant | Recent Developments in Iron Steel Technology | 29-10-2013 |
| | | Steel Industry: Status and Issues | 29-10-2013 |
| | | Developing Habits for Successful Career | 30-10-2013 |
| 4. | Baba Pai Director Institute of Technology & Management Universe, Vadodara | Failure Investigation – An Effective Tool | 08-11-2013 |
| 5. | T. R. Ramachandra Rao Former Executive Director Kudremukh Iron Ore Company Ltd. | Beneficiation of Indian Iron Ores | 13-03-2014 |
| | | Iron Ore Pelletisation | 14-03-2014 |

CHEMICAL ENGINEERING

Details of Book written by Full time faculty members

| Sl.No. | Name of the Faculty members | Name of the Book | Publication name | Year of Publication |
|--------|---|---|------------------|---------------------|
| 1 | Rajeshwari M. Kulkarni, Dr. G. Srinikethan Vidya Shetty K. | A Chapter on “Biosorption of Nickel(II) from aqueous solution using <i>Bacillus laterosporus</i> ” in Prospects in Bioscience: Addressing the issues: | Springer, India | 2013 |
| 2. | I. Regupathi | A Chapter on :Fish-processing industrial effluent characterization and partitioning of proteins using aqueous two-phase system: in Prospects in Bioscience: Addressing the issues | Springer India | 2013 |

Department of Mechanical Engineering

Book Chapter contributed

| Author(s) | Title of Chapter | Publication details |
|--|---|---|
| D. Saravana Bavan, Mohan Kumar G. C | Chapter 4: Maize-Natural Fiber as Reinforcement with Polymers for Structural Applications | Biopolymers, Biomaterials, and their Composites, Blends, and IPNs, Volume- 2, Recent Advances in Materials Sciences book series, Apple Academic Press, Inc. Spring 2012 |
| B. V. Raghu Vamshi Krishna, Navin Karanth P, S. M. Kulkarni | Pneumatic pressure sensing with PVDF film | Lambert Academic Publishing. 2013, ISBN: 978-3-659-37935-2 |

Department of Physical Education & Sports

Physical Education and Sports:

Institute teams formed, trained and coached were allowed to participate in different Taluk, District, State and National level tournaments/ Competitions.

1. Dasara Tournaments: Basketball(Men) District: Runners-up, Badminton(Men & Women) District Runners-up, Table Tennis (Men) District: runners-up.
2. DK District Basketball Association conducted James Neighsmith Intercollegiate Basketball Tournament: Institute Men Basketball team was Runners-Up. Association cup 3 district Inter collegiate Basketball tournament: Men team were Winners. NITK Cup Invitational Inter Collegiate Basketball Tournament conducted during November, 2013- 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. B C Alva Memorial state level Inter collegiate Basketball tournament held at NMAMIT NIte: Runners-Up. Slam Dunk South zone inter collegiate Basketball Tournament conducted during 05th to 09th March, 2014- Institute Men Basketball team is a winner.
3. Ragam Cup inter Collegiate Basketball Tournament held at NIT Calicut: Men- Winners, Women- Runners-Up.
4. All India Inter NIT Sports in Football and Table Tennis have been organized by our Institute: Our Institute Football (Men): Winners, Table Tennis(Women): Winners and Table Tennis(Men): Runners-Up. Other results of All India Inter NIT Tournaments held at other NITs: Aquatics(Men) : Team Championship winners, Ball Badminton(Men)- Runners-Up, Ball Badminton (Women)- Runners-Up, Basketball(Men) – Runner-up, Carom(Men): Runners-up, Throwball(Women) – Runners, Tennis (Men): Runners-Up, Tennis (Women)-Runners-Up and Volleyball(Women): Winners. Due to excellent performance we won Overall Championship Runners-Up this time.
5. Spike Fest, Invitational Inter Engineering collegiate Volleyball Tournament: Women team: Runners. Intra-Mural Competitions in Aquatics and Athletics conducted during the month of January, 2014 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.

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-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 healthy collaboration amongst Technologists, Entrepreneurs & Financiers for mutual benefits.
- To reach out to young unemployed youths in the region & improve employability by imparting Technology based Skill Development Programs
- To gear up as an " Outreach Center" to interface with innovators & government bodies 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 to sustain competitiveness and need to evolve as a self-sustaining body.

Status of occupancy by Incubatee units in 2013-14:

| Sl. No | Unit Size | Name of the unit | Technology Domain |
|--------|-----------|-----------------------------|---|
| 1 | 500 sq.ft | Expert Vision Labs Pvt Ltd | Imaging Technology Products |
| 2 | 400 sq.ft | Southcan Software | Development & customization of Web based applications to industry needs |
| 3 | 150 sq.ft | Mars Tech | Development of Portable Plastic Bottle crusher. |
| 4 | 150 sq.ft | Iyanthram Pvt Ltd | Development of Android based applications |
| 5 | 500 sq.ft | NGCN Infosolutions Pvt Ltd. | Networking and Cloud computing applications |
| 6 | 500 sq.ft | Pixelabz | Multi Media applications |

Unit successfully moved out of STEP in 2013-14:

The company “Omnesys Technologies Pvt Ltd” engaged in the development of software for the financial market segment having earned a good name for its products in the different market segments moved out successfully. This company has now established its full-fledged operational division at Mangalore, serving as a good source of employment to students of technology institutions in the neighborhood and knowledge workers of the region.

Unit entered into STEP in 2013-14:

The unit “NGCN Info solutions Pvt Ltd” with the plan to develop applications for Networking & Cloud computing entered into STEP.

Few achievements of worth mention secured by STEP Entrepreneurs supported under the MSME scheme “Support for Entrepreneurial & Managerial Development of SMEs through Incubators”

| Sl. No. | Brief Description of the success story |
|------------|--|
| 1 | <p>Product: Automated Colony Analyzer & Counter (Bacterial Colony Counter) Unit: Expert Vision Labs Pvt Ltd Salient features of achievement on the technology front: -Product belongs to the Imaging technology domain -Product is marketed as an integrated assembly ready for usage by the customer -Import substitution product. Imported product is priced at about Rs 6 lakhs as against this developed product market launch price of Rs 3 lakhs. -Field testing of the product is going on since the last six months at Bombay Veterinary college, Parel, Mumbai -Target markets for the product are Pharmaceuticals, Biotech, Food Processing, Medical colleges/universities & Research Labs. -Field Demonstration of the Product by Mr Naveenchandra, Director, Expert Vision Labs Pvt Ltd.</p> |
| 2 | <p>Product: Auto Weeder, 2 Stroke Driven Weeding Machine for Paddy fields Name of the Unit: Mangalore Robautonics Pvt Ltd Few unique features of the innovation: -Variable width control mechanism to vary the width between the rows of rice crops. -At one go two rows can be weeded -Weeds are completely uprooted from the soil resulting in 85% weeding efficiency -Employs unique teeth design where load on the engine is cut down resulting in fuel saving -Results of field trials are good -Product is ready for commercial launch</p> |
| 3 | <p>Product: Software driven MIS for Milk Producers Co-operative Societies in Rural Areas Unit: Southcan Software Features of the product: This customer friendly software was developed mainly with the intention to bring in scientific approach & systematization to administer day to day activities at Milk Producers Societies situated in the rural belts of Karnataka</p> |

| | |
|--|--|
| | Though this generic version software product has been successfully developed after studying the different activities at one of the Milk Producers Co-operative societies, the developed software can be customized with little efforts to the specific requirements of individual clients. |
| | The software has been successfully installed at Milk Producers Co-operative Society, Shankaranarayana, Udupi District, Karnataka. All the designed & developed modules are working satisfactorily generating reports |

Business Plan Competition organized by STEP at NITK:

This annual event of All India Level Business Plan competition for students of technology, management, medical science, agricultural science and general science being organized by STEP each year was held in February 2014. About 50 proposals from student teams from institutions across the country were received. 10 short listed Business Plans were presented to a panel of jury by the respective student teams. The winners were accorded prize money of Rs 50000/, Rs 35000/ and Rs 20000/ as first, second and third prizes respectively. In addition five consolation prizes of Rs 5000/each were also accorded to encourage students to come up with innovative business ideas those can be further explored for developing into viable business plans.

Faculty Development Programs Held in the region:

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

One program of 9 days duration was held in December 2013 at STEP for newly inducted faculty at NITK. The second program of same duration was held at Srinivas Group of Colleges at Pandeshwar, Mangalore. Resource persons were drawn from amongst professionals/practitioners from the industry, academia, alumni, government and financial institutions. An industry visit to well-known industry of the region was also undertaken as a part of the program.

20.2 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

| | |
|---|----------------|
| 1) Ministry of Human Resource Development, New Delhi. | (Rs. In Lakhs) |
| • Non Plan grants | 5200.00 |
| • Plan grants | 7300.00 |
| • Project grants | 205.82 |

EXPENDITURE POSITION FOR LAST THREE YEARS

| Year | Plan | Non-Plan | Total Rs. In lakhs |
|--------------|------------------|------------------|---------------------------|
| 2011-12 | 4,224.94 | 5,249.38 | 9,474.32 |
| 2012-13 | 7,031.75 | 6,475.97 | 13,507.72 |
| 2013-14 | 4,671.77 | 7,319.30 | 11,991.07 |
| Total | 15,928.46 | 19,044.65 | 34,973.11 |

FINANCE AND ACCOUNTS DETAILS

| <u>BALANCE SHEET AS AT 31-03-2014</u> | | | |
|---------------------------------------|----------|-----------------------|-----------------------|
| | | | (AMOUNT - Rs.) |
| PARTICULARS | SCH. NO. | CURRENT YEAR | PREVIOUS YEAR |
| SOURCES OF FUNDS: | | | |
| CORPUS | | - | - |
| GENERAL FUND | 1 | 2,79,05,44,378 | 2,50,57,47,552 |
| DESIGNATED / EARMARKED FUNDS | 2 | 1,16,51,65,900 | 77,03,93,939 |
| CAPITAL FUND | 3 | 27,97,60,186 | 23,61,39,916 |
| LOANS / BORROWINGS | | - | - |
| Secured | | | |
| Unsecured | | | |
| CURRENT LIABILITIES AND PROVISIONS | 4 | 37,37,76,371 | 25,76,81,952 |
| TEQIP PROJECT. | | 18,42,37,765 | 18,42,37,765 |
| TEQIP PROJECT - PHASE II | | 4,76,02,933 | 5,85,98,044 |
| TOTAL | | 4,84,10,87,533 | 4,01,27,99,168 |
| APPLICATION OF FUNDS: | | | |
| FIXED ASSETS: | 5(A),(B) | | |
| Tangible Assets | | 2,16,75,98,458 | 2,15,18,94,870 |
| Intangible Assets | | - | - |
| Capital Work-In-Progress | | 7,71,11,988 | 5,62,54,481 |
| INVESTMENTS: | 6 | | |
| Long Term | | 1,03,63,11,929 | 81,33,05,888 |
| Short Term | | - | - |
| CURRENT ASSETS | 7 | 18,49,05,560 | 18,73,90,045 |
| LOANS, ADVANCES & DEPOSITS | 8 | 1,14,33,18,900 | 56,11,18,075 |
| TEQIP PROJECT. | | 18,42,37,765 | 18,42,37,765 |
| TEQIP PROJECT - PHASE II | | 4,76,02,933 | 5,85,98,044 |
| TOTAL | | 4,84,10,87,533 | 4,01,27,99,168 |

| INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31-03-2014 | | | | | |
|--|-------|---|-------------|---------------------------------------|---------------------|
| PARTICULARS | | CURRENT YEAR | | PREVIOUS YEAR (GENERAL FUND) | |
| | | Designated Fund (including Corpus Fund) (Schedule 2) | SCH. NO. | | |
| INCOME: | | | | | |
| Academic Receipts | | | 9 | 21,60,67,859 | 20,55,12,732 |
| Grants & Donations | | 73,50,93,700 | 10 | 64,13,79,820 | 38,62,38,249 |
| Income From Investments | | 6,45,04,069 | | - | - |
| Other Income | | 9,44,99,219 | 11 | 7,21,82,735 | 7,94,82,050 |
| Other Research Projects | | | | 1,84,05,702 | 1,63,55,520 |
| TOTAL (A) | | 89,40,96,988 | | 94,80,36,116 | 68,75,88,551 |
| EXPENDITURE: | | | | | |
| Staff Payments & Benefits | | 15,72,308 | 12 | 52,34,31,951 | 57,80,27,924 |
| Academic Expenses | | | 13 | 13,37,28,879 | 76,53,190 |
| Administrative & General Expenses | | 2,64,89,570 | 14 | 16,13,35,916 | 13,40,56,732 |
| Transportation Expenses | | | 15 | 9,61,627 | 9,38,838 |
| Repairs & Maintenance | | | 16 | 4,65,43,620 | 4,12,29,476 |
| Finance Cost | | - | | - | - |
| Other Expenses | | 47,12,63,148 | 17 | 31,29,26,304 | 23,35,25,138 |
| TOTAL (B) | | 49,93,25,026 | | 1,17,89,28,297 | 99,54,31,298 |
| BALANCE: | | | | | |
| Balance being Excess of Income over Expenditure transferred to respective Designated Funds | (A-B) | 39,47,71,961 | | | |
| Balance being Deficit carried to General Fund | (A-B) | | | 23,08,92,181 | 30,78,42,747 |
| CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS | | | | | |

Receipts & Payments for the year ended 31.03.2014

| RECEIPTS | Current Year | Previous Year | PAYMENTS | Current Year | Previous Year |
|---------------------------------|-----------------------|-----------------------|---|---|-----------------------|
| Opening Balances: | | | | | |
| (a) Cash in hand | 80,336 | | 1,35,585 | (a) Establishment Expenses | 47,30,01,259 |
| (b) Bank Balances: | | | | (b) Administrative Expenses | 33,82,60,096 |
| (i) In current accounts | 1,47,15,776 | | 15,34,55,411 | | 81,12,61,355 |
| (ii) Savings accounts | 5,07,84,655 | 6,55,80,767 | 27,06,17,162 | Payments made against Funds for various projects: | 1,30,44,39,694 |
| Grants Received: | | | | | 81,58,48,734 |
| (a) From Govt. of India & Other | 1,11,13,52,967 | 67,86,67,128 | Expenditure on Fixed Assets & Capital Work - in progress: | 24,97,38,121 | 23,30,76,789 |
| Income on Investments. | 1,34,50,051 | 1,58,79,163 | Other Payments : | 11,65,65,056 | 43,61,51,503 |
| Interest Received : | 23,95,472 | 1,02,39,415 | Any Other Payments : | 2,21,59,77,447 | 1,75,92,85,138 |
| Other Income: | 40,84,88,416 | 27,18,97,155 | Closing Balances: | | |
| Any other receipts: | 3,27,61,34,715 | 2,58,44,16,460 | (a) Cash in hand | 32,738 | 80,336 |
| | | | (b) Bank Balances: | | |
| | | | (i) In current accounts | 7,36,74,809 | 1,47,15,776 |
| | | | (ii) Savings accounts | 10,57,13,168 | 17,94,20,715 |
| TOTAL | 4,87,74,02,388 | 3,98,53,07,479 | TOTAL | 4,87,74,02,388 | 3,98,53,07,479 |