1 THE INSTITUTE

1.1 HISTORICAL BACKGROUND

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

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

1.2 LOCATION

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

1.3 CAMPUS

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

2.1 ADMINISTRATION

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

COUNCIL, BOG AND OTHER COMMITTEES

COUNCIL OF NITS

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

BOARD OF GOVERNORS

1  Sri Sushil Chandra Tripathi, Former Secretary, Ministry of HRD, House No: 27, Sector 15- A, Noida – 201301(Uttar Pradesh) Chairman till 24.07.2014
2  Ms. Vanitha Narayanan, Managing Director, IBM India Private Limited Embassy Golf Links Business Park, Block A, Off Indiranagar, Koramangala Intermediate Ring Road Bangalore – 560 071 Chairperson from 31.10.2014
3  Sri Mudda Kedarnath, Advisor – Aditya Birla Group, #17, Shankar Nilaya, Member till 24.07.2014
4. P. Dayanand Pai, Managing Director, Century Building Industries Private Limited, Palace Road, Bangalore - 560 052.


7. Mrs Sudha Murty, Chairperson, Infosys Foundation C/O Infosys Towers, No. 27, J.P. Nagar, 3rd Phase, Bannerghatta Main Road, Bangalore 560 076, Karnataka, India.

8. Padma Bhushan Prof. (Dr.) B.M. Hegde, Former Vice-Chancellor, Manipal University, Manjunath, Pais Hills, Bejai- Mangalore- 575004.

9. Gopal Mugeraya, Ph.D. Professor, Dept. of Chemical Engineering, NITK, Surathkal.

10. Badekai Ramachandra Bhat, Ph.D. Professor, Department of Chemistry, NITK, Surathkal.

11. Sri Vinay Kumar, Associate Professor, Dept. of Computer Science & Engineering, NITK, Surathkal.

12. Swapan Bhattacharya, Ph.D. Director, N.I.T.K. SURATHKAL.

13. K. Ravindranath, Registrar, N.I.T.K., SURATHKAL
**FINANCE COMMITTEE**

1. Sri Sushil Chandra Tripathi,  
   Former Secretary, Ministry of HRD,  
   House No: 27, Sector 15- A,  
   Noida – 201301(Uttar Pradesh)  
   Chairman till 24.07.2014

2. Ms. Vanitha Narayanan,  
   Managing Director,  
   IBM India Private Limited  
   Embassy Golf Links Business Park,  
   Block A, Off Indiranagar,  
   Koramangala Intermediate Ring Road  
   Bangalore – 560 071.  
   Chairperson from 31.10.2014

3. Sri Mudda Kedarnath,  
   Advisor – Aditya Birla Group,  
   #17, Shankar Nilaya,  
   8th Main, 18th Cross,  
   Upper Palace Orchard,  
   Sadashivnagar, Bangalore-560080.  
   Member till 24.07.2014

4. Additional Secretary,  
   Ministry of Human Resource Development,  
   Dept. of Higher Education, Technical Education Bureau Shastri Bhavan, New Delhi – 110 001  
   Member

5. Joint Secretary and Financial Advisor,  
   Ministry of Human Resource Development,  
   Dept. of Higher Education, Technical Education Bureau Shastri Bhavan, New Delhi – 110 001  
   Member

6. Gopal Mugeraya, Ph.D.  
   Professor, Dept. of Chemical Engineering,  
   NITK, Surathkal.  
   Member till 21.09.2014

7. Badekai Ramachandra Bhat, Ph.D.  
   Professor, Department of Chemistry,  
   NITK, Surathkal.  
   Member from 20.10.2014

8. Swapan Bhattacharya, Ph.D.  
   Director,  
   N.I.T.K. SURATHKAL.  
   Member

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

**BUILDING AND WORKS COMMITTEE**

1. Swapan Bhattacharya, Ph.D.  
   Director,  
   N.I.T.K., Surathkal,  
   Post Srinivasnagar-575 025.  
   Chairman
2. K Uday, Member
   Principal Chief Architect,
   PW, P and IWTD, State PWD
   K R Circle, Bangalore – 560 001

3. M C Narasimhan, Ph.D., Member
   Dean (P&D),
   NITK, Surathkal, Mangaluru – 575 025

4. Vellaichamy V, Member
   Superintending Engineer (Civil), CPWD,
   Mysore Central Circle, T Narasipura Road,
   Siddarthanagar, Mysore – 570 011

5. Kedar Ram, Member
   Superintending Engineer (Ele), CPWD
   Bangalore Central Electrical Circle,
   Kendriya Sadana, Koramangala, Bengaluru – 560 034

6. K Ravindranath, Member Secretary
   Registrar
   NITK, Surathkal,
   Post Srinivasnagar,
   Mangalore-575 025

OTHER COMMITTEES

SENATE

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

Members

S. Parasuraman - External Member
Pralhada - External Member
V.Shubha - External Member
A. Kandaswamy, Ph.D.
A. Mahesha, Ph.D.
A. Nityananda Shetty, Ph.D.
A. Vittal Hegde, Ph.D.
A. Chitharanjan Hegde, Ph.D.
A.H. Sequeira, Ph.D.
A.O. Surendranathan, Ph.D.
A.U. Ravi Shankar, Ph.D.
G. Srinikethan, Ph.D.
G. Umesh, Ph.D.
Gopal Mugeraya, Ph.D.
H.D. Shashikala, Ph.D.
John D'Souza, Ph.D.
K. Chandrasekaran, Ph.D.
K. N. Prabhu, Ph.D.
K. Rajendra Udupa, Ph.D.
K.S. Babu Narayan, Ph.D.
A.V. Adhikari, Ph.D.
Anantharayana V.S., Ph.D.
Annappa, Ph.D.
Arun M, Ph.D.
B. Ramachandra Bhat, Ph.D.
Ch. S.N. Murthy, Ph.D.
D. Krishna Bhat, Ph.D.
D.V.R. Murthy, Ph.D.
Dwarakish G.S., Ph.D.
G. K. Shiva Kumar, Ph.D.
G. Ram Mohana Reddy, Ph.D.
G.C. Mohan Kumar, Ph.D.
Gangadharan K.V., Ph.D.
H. Suresh Hebbar, Ph.D.
Jagannath Nayak, Ph.D.
K.B. Kiran, Ph.D.
K. K. Appu Kuttan, Ph.D.
K. Panduranga Vittal, Ph.D.
K.N. Lokesh, Ph.D.
National Institute of Technology Karnataka, Surathkal

Annual Report 2014-15

Kasturi V. Bangera, Ph.D. K. Swaminathan, Ph.D.
Keshava Prasad Halemane, Ph.D. Katta Venkataramana, Ph.D.
M. Govinda Raj, Ph.D. Kiran G. Shirlal, Ph.D.
M.C. Narasimhan, Ph.D. M.B. Saidutta, Ph.D.
M.S. Bhat, Ph.D. M.K. Nagaraj, Ph.D.
Muralidhar N.N. Ph.D. Muralidhar Kulkarni, Ph.D.
N.K. Udayashankar, Ph.D. N. Lakshman, Ph.D.
P. Mohanan, Ph.D. Narendranath S. Ph.D.
R. Shivasankar, Ph.D. Prasad Krishna, Ph.D.
S. Shrihari, Ph.D. Ravikiran Kadoli, Ph.D.
S. M. Hegde, Ph.D. S. Sumam David, Ph.D.
Santosh George, Ph.D. S.M. Kulkarn, Ph.D.
Sitaram Nayak, Ph.D. Shrikant S. Rao, Ph.D.
Subhas C. Yaragal, Ph.D. Subba Rao, Ph.D.
U. Sripati, Ph.D. T.P. Ashok Babu, Ph.D.
V. Rama Sastry, Ph.D. Udayakumar R.Y., Ph.D.
Vidyashetty, Ph.D. Varghese George, Ph.D.
Sri Jora M Gonda, Ph.D. Vijay Desai, Ph.D.
Smt. Anusuya Chakari, Ph.D. Sri P. G. Mohanan
Mr. Karthik Sreenivasan… Spl. Invitee Mr. Akash Omer ……. Spl. Invitee

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

Constitution:

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

QUARTERS ALLOTMENT COMMITTEE

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

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

SECURITY COMMITTEE

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

LIBRARY ADVISORY COMMITTEE

1. D V R Murthy, Ph.D. Chairman
2. Anasuya C Chakari Secretary
3. Iranna M Shettar Library
4. Arun Kumar Thalla Civil
5. Amba Shetty, Ph.D. Applied Mechanics and Hydraulics
6. Anish S, Ph.D. Mechanical
9. Prasanna B D, Ph.D. Chemical Engg.
14. Partha Prathim Das, Ph.D. Physics
15. A C Hegde, Ph.D. Chemistry
16. Bijuna C Mohan, Ph.D. Humanities
17. Sowmya Kamath Information Technology
**SPORTS ADVISORY COMMITTEE**

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

**NITK HEALTH CARE COMMITTEE**

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

**COMPLAINTS COMMITTEE**

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

I. Division of Civil Engineering Systems
   Departments:
   - Applied Mechanics & Hydraulics (AM)
   - Civil Engineering (CV)
   - Mining Engineering (MN)

II. Division of Electrical, Electronics & Computing System
   Departments:
   - Computer Engineering (CO)
   - Electronics & Communication Engineering (EC)
   - Electrical & Electronics Engineering (EE)
   - Information Technology (IT)

III. Division of Mechanical & Chemical Systems
    Departments:
    - Chemical Engineering (CH)
    - Mechanical Engineering (ME)
    - Metallurgical & Materials Engineering (MT)

IV. Division of Basic Sciences, Humanities, Social Sciences & Management Systems
    Departments:
    - Chemistry (CY)
    - Humanities, Social Sciences & Management (HU)
    - Mathematical & Computational Sciences (MA)
    - Physics (PH)
4 ACADEMIC PROGRAMMES

4.1 PROGRAMMES OFFERED

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

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

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

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

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Academic Year</th>
<th>Programmes</th>
<th>Admission Commenced on</th>
<th>Admission closed on</th>
</tr>
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</table>
5 ADMISSION POLICIES

5.1 ADMISSION PROCEDURE

B. Tech.:-

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

M.Tech -GATE/Scholarship seats:-

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

After CCMT allotment of seats, the vacant and unfilled seats were filled in Spot admission on 28.07.2014 at NITK, Surathkal for the GATE candidates on merit basis.

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

Selection of candidates for admission were made on GATE score or in some of the programmes, selection will be based on at least 70% weightage to GATE score and the remaining 30% weightage to academic performance in qualifying examination or /and written aptitude test or/ and interview etc as decided by the DPGC of the concerned Department offering that programme.

M.C.A.:-

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

M.B.A.:-

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

M.Sc (Chemistry & Physics):-

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

Ph.D. Programme:

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

All the students are required to stay in the Institute Hostels, unless permitted to reside outside under special circumstances. Students have to strictly adhere to the rules and regulations of the institute.
6 ADMISSIONS FOR 2014-15

6.1 The number of candidates admitted are as follows:

I. B.Tech.

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

   **Total** 836

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

i) M.Tech Programme

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

1. With GATE qualifications for scholarship seats 523
2. Sponsored candidates 06
3. Admission under Indian Navy Sponsored 01
4. Admission under DASA Scheme 04
5. QIP candidates 03
6. L&T Sponsored Candidates 30

   **Total** 567

   M.Tech. (By Research)

1. GATE qualified with Scholarship 14
2. Non Scholarship 08
3. Internal Registrants 02
4. External Registrants 04

   **Total** 28

III MCA:

Selection of candidates for admission to MCA, were made on the basis of rank obtained in NIT MCA Common Entrance Test (NIMCET). Admissions were made through a Centralized counseling conducted by N.I.T. Agartala. A Total 89 candidates admitted were as follows:-

OP 46
OBC 25
SC 12
ST 06
**Total** 89
**IV M.B.A.:**

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

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<tbody>
<tr>
<td>OP</td>
<td>32</td>
<td>OBC</td>
<td>02</td>
<td>SC</td>
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<tr>
<td>Total</td>
<td>36</td>
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</table>

**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)**

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<tr>
<td>Total</td>
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**ii. M.Sc (Physics)**

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<td>ST</td>
<td>02</td>
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<tr>
<td>Total</td>
<td>22</td>
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**VI. Ph.D. Programme:**

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</thead>
<tbody>
<tr>
<td>OP</td>
<td>76</td>
<td>OBC</td>
<td>29</td>
<td>SC</td>
<td>13</td>
<td>ST</td>
<td>07</td>
<td>QIP</td>
<td>02</td>
<td>Sponsored</td>
<td>01</td>
</tr>
<tr>
<td>Non Scholarship/Non Sponsored</td>
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A total number of 836 candidates have been admitted to the First Year B.Tech. Programmes according to the guidelines, instructions issued by the MHRD.

The PG & Ph.D. admissions have been made according to the Rules and Regulations issued by the Senate of the Institute.
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### Annual Report 2014-15

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## MCA Students Strength for the year 2014-15

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## MBA Students Strength for the year 2014-15

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### Ph.D. Students Strength

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

| Sl. No. | Courses offered                  | Sanctioned intake                              | Admissions made to Undergraduate Programmes Normal Intake | G.O.I. Nominees* | D.A.S.A. (Direct Admission of Students Abroad) | Total Admissions |
|---------|---------------------------------|------------------------------------------------|----------------------------------------------------------|------------------|------------------------------------------------|----------------
|         |                                 | Normal Intake                                 | SC  | ST  | OBC | PWD | OP |                                |                     |
| 1       | Civil Engineering               | 92                                            | 14  | 7   | 23  | 3   | 0BC|                                 | 105                 |
| 2       | Mechanical Engineering          | 139                                           | 18  | 9   | 38  | 2   | 0BC|                                 | 161                 |
| 3       | Electrical & Electronics Engg.  | 93                                            | 14  | 6   | 26  | 2   | 0BC|                                 | 110                 |
| 4       | Electronics & Communication Engg. | 93                              | 14  | 7   | 24  | 1   | 0BC|                                 | 111                 |
| 5       | Chemical Engg.                 | 46                                            | 7   | 4   | 11  | 1   | 0BC|                                 | 51                  |
| 6       | Metallurgical & Materials Engg | 46                                            | 7   | 4   | 12  | 21  | - |                                 | 44                  |
| 7       | Mining Engg.                   | 46                                            | 6   | 4   | 12  | 19  | - |                                 | 42                  |
| 8       | Computer Engg.                 | 92                                            | 14  | 7   | 23  | 44  | 1 |                                 | 109                 |
| 9       | Information Technology         | 93                                            | 13  | 6   | 26  | 43  | - |                                 | 103                 |
| **TOTAL** | **740**                         | **17**                                      | **111** | **868** | **107** | **54** | **195** | **20** | **348** | **6** | **106** | **836** |

* For the candidates nominated by Ministry of External Affairs (Education) – for Foreign students and Ministry of External Affairs (Welfare) for wards of Govt. employees posted in Indian Missions abroad.
## ADMISSION STATISTICS – B.Tech. 2014-15

**Details of Male & Female admissions – coursewise and categorywise**

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<th>OP</th>
<th>OBC</th>
<th>SC</th>
<th>ST</th>
<th>GOI Nominee</th>
<th>DASA (Direct Admission of Students Abroad)</th>
<th>Total</th>
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<td>M</td>
<td>F</td>
<td>M</td>
<td>F</td>
<td>M</td>
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<td>-</td>
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<td>17+1PD</td>
<td>19+2PD</td>
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<td>7</td>
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<td>Information Technology</td>
<td>23+1PD</td>
<td>20+1PD</td>
<td>13+1PD</td>
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<td>154+6PD</td>
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<td>80+2PD</td>
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<td>44+1PD</td>
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PD: Persons with disability
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<th>Admitted</th>
<th>Out of the total admissions - Number of candidates under category</th>
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<td>27+1*</td>
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<td>1 (Sponsored)+ 1 (QIP) (Regular)</td>
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<td>Geotechnical Engg.</td>
<td>15+1**+1*</td>
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<td>1 (Sponsored)</td>
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<tr>
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<td>27+1*</td>
<td>26</td>
<td>1 (Sponsored)</td>
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<tr>
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<td>30 (L&amp;T-Sponsored)</td>
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<td>Marine Structures</td>
<td>27+1**+1*</td>
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<td>7.</td>
<td>Water Resources Engineering &amp; Management</td>
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<td>8.</td>
<td>Remote Sensing &amp; Geographic Information Systems</td>
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<td>(scholar-ship seats)</td>
<td>sponsored + QIP seats + DASA</td>
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<tr>
<td>21.</td>
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<td>-</td>
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<tr>
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<td>25</td>
<td>1(DASA)</td>
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<tr>
<td>25.</td>
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<td>579+8* +25*** +30 (L&amp;T) =642</td>
<td>523</td>
<td>6 Sponsored +1 Indian Navy Sponsored +3 QIP +4 DASA +30 L&amp;T = 44</td>
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** Sanctioned seats for DASA candidates.
*Additional seats reserved for the international students under I.C.C.R Scheme
The above intake of M.Tech. excluding the intake of QIP allotted by AICTE and two seats of Indian Navy Sponsored (one seat each in Mechanical Engg & E&C Dept)
L&T – Additional seats reserved for L&T Sponsored candidates.
PWD: Persons With Disabilities.
### M.TECH. PROGRAMME (BY RESEARCH) 2014-15

#### Intake

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<td>2</td>
<td>Geotechnological Engg</td>
<td>1(OC)</td>
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<td>Transportation Engg.</td>
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<td>1OBC 1O(OC) IR</td>
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<td>Construction Technology &amp; Management</td>
<td>1(OC)</td>
<td>1O(OC) +1OBC</td>
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<tr>
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<td>Remote Sensing &amp; Geographics Information Systems</td>
<td>1(OC)</td>
<td>1(OC)</td>
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<tr>
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<tr>
<td>7</td>
<td>Manufacturing Engg.</td>
<td>1(OC)</td>
<td>1(IR- OBC)</td>
</tr>
<tr>
<td>8</td>
<td>Mechatronics Engg.</td>
<td>-</td>
<td>2 OC(ER- SPO)</td>
</tr>
<tr>
<td>9</td>
<td>Design &amp; Precision Engg.</td>
<td>1 (OBC)</td>
<td>1(OIC) ER- SPO</td>
</tr>
<tr>
<td>10</td>
<td>VLSI Design</td>
<td>1 (OC)</td>
<td>1(ER-SPO)</td>
</tr>
<tr>
<td>11</td>
<td>Communication Engg.</td>
<td>1(OIC)+1OBC</td>
<td>-</td>
</tr>
<tr>
<td>12</td>
<td>Power &amp; Energy Systemes</td>
<td>1 (OC)</td>
<td>1( OC)- NSP</td>
</tr>
<tr>
<td>13</td>
<td>Nanotechnology</td>
<td>-</td>
<td>1(OC)</td>
</tr>
<tr>
<td>14</td>
<td>Materials Engg.</td>
<td>-</td>
<td>1 OC</td>
</tr>
<tr>
<td>15</td>
<td>Computer Science &amp; Engg</td>
<td>1 (OC)</td>
<td>-</td>
</tr>
<tr>
<td>16</td>
<td>Computer Science &amp; Engg ( Information Security)</td>
<td>1 (SC)</td>
<td>-</td>
</tr>
<tr>
<td>17</td>
<td>Rock Excavation Technology &amp; Management</td>
<td>-</td>
<td>1 (OC)</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>14 (OC)+3 (OBC) +1(SC)</strong></td>
<td><strong>6(OC)+2(OBC)+ 2 ( IR) + 4 ER=14</strong></td>
</tr>
</tbody>
</table>

- ER-SPO – External Registrants (Sponsored)
- IR – Internal Registrants
- NSP= Non Sponsored
# M.C.A., M.B.A. AND M.Sc. PROGRAMMES

## Particulars of Admissions during 2014-15

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Programme</th>
<th>Intake</th>
<th>Total admitted</th>
<th>Out of the total admissions – Number of candidates Admissions under category</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Boys</td>
</tr>
<tr>
<td>1</td>
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</tr>
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<td>Master of Business Administration (MBA)</td>
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</tr>
<tr>
<td>3</td>
<td>M.Sc. (Chemistry)</td>
<td>27+1**</td>
<td>8</td>
<td>17</td>
</tr>
<tr>
<td>4</td>
<td>M.Sc. (Physics)</td>
<td>27+1**</td>
<td>6</td>
<td>16</td>
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<tr>
<td>Total</td>
<td></td>
<td>210+5*</td>
<td>95</td>
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<td></td>
<td></td>
<td>+4**</td>
<td>=219</td>
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* Seats reserved for DASA candidates
** Additional seats for the international students under ICCR Scheme
PWD – Persons With Disabilities
## Ph.D. PROGRAMME

### Particulars of Intake & Admissions made during 2014-15

**Intake for the year 2014-15**

<table>
<thead>
<tr>
<th>OC</th>
<th>OCPWD</th>
<th>OB</th>
<th>OBPWD</th>
<th>SC</th>
<th>SCPWD</th>
<th>ST</th>
<th>STPWD</th>
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<tr>
<td>74</td>
<td>02</td>
<td>39</td>
<td>01</td>
<td>21</td>
<td>01</td>
<td>11</td>
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### Details of Admissions made during 2014-15

<table>
<thead>
<tr>
<th>Sl No.</th>
<th>Name of the Department</th>
<th>Admitted Full time Programme</th>
<th>Admitted Under External Registrants (Part Time)</th>
<th>Out of the total Full time scholars, Number of Candidates belonging to the category of</th>
<th>OTHERS (Nonfellowship/ QLP/Sponsored and Admissions under Visvesvaraya Ph.d. Scheme)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Civil Engg</td>
<td>7+5*</td>
<td>1OC</td>
<td>5+1*</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Applied Mech. &amp; Hydraulics</td>
<td>3+3*</td>
<td>1OB</td>
<td>2+3*</td>
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</tr>
<tr>
<td>3</td>
<td>Mechanical Engg</td>
<td>12+8*</td>
<td>4OC</td>
<td>9+3*</td>
<td>1(SP)+1QIP</td>
</tr>
<tr>
<td>4</td>
<td>Electrical &amp; Electronics Engg</td>
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<td>1O C</td>
<td>3+1*</td>
<td>1SC**</td>
</tr>
<tr>
<td>5</td>
<td>Electronics &amp; Communication Engg</td>
<td>7+2+1*</td>
<td>-</td>
<td>4+1*</td>
<td>1OC**+1</td>
</tr>
</tbody>
</table>

* M: Male, F: Female

National Institute of Technology Karnataka, Surathkal
### National Institute of Technology Karnataka, Surathkal

#### Annual Report 2014-15

<table>
<thead>
<tr>
<th>Program</th>
<th>Degree Type</th>
<th>SP</th>
<th>NSP</th>
<th>Non-fellowship</th>
<th>QIP</th>
<th>SP</th>
<th>NSP</th>
<th>Non-fellowship</th>
<th>QIP</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>6 Chemical Engg</strong></td>
<td>3+2*</td>
<td></td>
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<td></td>
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<td></td>
<td></td>
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</tr>
<tr>
<td><strong>7 Metallurgical &amp; Materials Engg</strong></td>
<td>8+2*</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>8 Mining Engg</strong></td>
<td>1+1*</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>9 Computer Science &amp; Engg</strong></td>
<td>1+3*</td>
<td></td>
<td></td>
<td>1QIP</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>10 Information Technology</strong></td>
<td>3+2*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>11 Physics</strong></td>
<td>1+3*</td>
<td>2+1*</td>
<td></td>
<td>1NSP</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>12 Chemistry</strong></td>
<td>1+3*</td>
<td>1+2*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>13 Mathematical &amp; Computational Sciences</strong></td>
<td>2*</td>
<td>1+3*</td>
<td></td>
<td>1OC +2 OB</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>14 Humanities, Social Science &amp; Management</strong></td>
<td>3</td>
<td>2+3*</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>55+36*</td>
<td>15+19*</td>
<td>3+18*</td>
<td>1+1*</td>
<td></td>
<td>11</td>
<td>35+18*</td>
<td>12+10*</td>
<td>10+2*</td>
</tr>
</tbody>
</table>

*Admissions made during December Session 2014

** Admissions under “Visvesvaraya Ph.D. Schme” during December 2014

SP= Sponsored. NSP = Non Sponsored – Non fellowship. QIP = Admitted Under AICTE QIP Schme
## Student's Total Strength

<table>
<thead>
<tr>
<th>Programme</th>
<th>Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Undergraduate</td>
<td>3256</td>
</tr>
<tr>
<td>2. Post Graduate (Including MCA/M.Tech./M.Tech – by research MBA/M.Sc.)</td>
<td>1517</td>
</tr>
<tr>
<td>3. Ph.D. Programme</td>
<td>514</td>
</tr>
</tbody>
</table>

**Total** 5287

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7 EVALUATION AND EXAMINATION

7.1 EDUCATION SYSTEM

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

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

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

7.2 EXAMINATION & EVALUATION PROCEDURE

The examination and evaluation work of all the B.Tech./M.Tech./MCA/MSc/MBA students and Ph.D./M.Tech by Research candidates were carried out by the respective Faculty Members in their concerned Departments itself as per the regulations approved by the Senate of the Institute. The Grades obtained by each student with details of attendance in each course were submitted to the Examination/Evaluation Section for processing their Grade Cards as per the regulations of the Institute. The results were declared and published on the website of the Institute in time and Grade Cards were issued to all eligible students.
8 EXAMINATION RESULTS FOR 2013-2014

**B.Tech. Examination Details**

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Branch</th>
<th>Total No. Appeared</th>
<th>No. of students passed in</th>
<th>Total Pass</th>
<th>Percentage of passes</th>
<th>No. of SC/ST candidate passed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>CGPA above 7 &amp; below 10</td>
<td>CGPA above 6 &amp; below 7</td>
<td>CGPA above 5 &amp; below 6</td>
<td>CGPA below 5</td>
</tr>
<tr>
<td>1.</td>
<td>Civil Engineering</td>
<td>97+3*</td>
<td>70</td>
<td>14</td>
<td>9+3*</td>
<td>96</td>
</tr>
<tr>
<td>2.</td>
<td>Mechanical Engineering</td>
<td>148+5*</td>
<td>97</td>
<td>27</td>
<td>13+2*</td>
<td>1+3*</td>
</tr>
<tr>
<td>3.</td>
<td>Electrical And Electronics Engineering</td>
<td>112+3*</td>
<td>75</td>
<td>23</td>
<td>12+2*</td>
<td>2+1*</td>
</tr>
<tr>
<td>4.</td>
<td>Electronics And Communication Engineering</td>
<td>105+10*</td>
<td>75</td>
<td>20</td>
<td>7+2*</td>
<td>8*</td>
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<tr>
<td>5.</td>
<td>Chemical Engineering</td>
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<td>8</td>
<td>7+1*</td>
<td>45</td>
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<tr>
<td>6.</td>
<td>Metallurgical And Materials Engineering</td>
<td>43+1*</td>
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<td>8+1*</td>
<td>6</td>
<td>42</td>
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<tr>
<td>7.</td>
<td>Mining Engineering</td>
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<td>9+1*</td>
<td></td>
<td>33</td>
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<tr>
<td>8.</td>
<td>Computer Engineering</td>
<td>105+4*</td>
<td>68</td>
<td>22+1*</td>
<td>10</td>
<td>1+3*</td>
</tr>
<tr>
<td>9.</td>
<td>Information Technology</td>
<td>101+2*</td>
<td>57</td>
<td>24</td>
<td>16+1*</td>
<td>2+1*</td>
</tr>
</tbody>
</table>

*- Repeaters
# Annual Report 2014-15

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

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Branch</th>
<th>Total No. Appeared</th>
<th>No. of students passed in CGPA above 7 &amp; below 10</th>
<th>CGPA above 6 &amp; below 7</th>
<th>CGPA 5.50 &amp; below 6</th>
<th>Total Pass</th>
<th>Percentage of passes</th>
<th>No. of SC/ST candidates passed</th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>Construction Technology &amp; Management</td>
<td>24</td>
<td>24</td>
<td>24</td>
<td>100.00</td>
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</tr>
<tr>
<td>2.</td>
<td>Structural Engineering</td>
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<td>21</td>
<td>4</td>
<td>25</td>
<td>100.00</td>
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<tr>
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<td>20</td>
<td>95.24</td>
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<tr>
<td>5.</td>
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<td>19</td>
<td>2</td>
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<td>100.00</td>
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<tr>
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<td>2</td>
<td>19</td>
<td>100.00</td>
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<tr>
<td>7.</td>
<td>Remote Sensing &amp; Geographic Information System</td>
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<td>12</td>
<td>12</td>
<td>92.31</td>
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<td>2</td>
<td>1*</td>
<td>14</td>
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<tr>
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<td>13</td>
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<td>14</td>
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<tr>
<td>10.</td>
<td>Mechatronics Engineering</td>
<td>24+3*</td>
<td>18+1*</td>
<td>5+2*</td>
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<td>27</td>
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<td>Thermal Engineering</td>
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<td>1</td>
<td>11</td>
<td>100.00</td>
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<tr>
<td>12.</td>
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<td>12</td>
<td>7</td>
<td>3</td>
<td>22</td>
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</tr>
<tr>
<td>13.</td>
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<td>6</td>
<td>3+1*</td>
<td>28</td>
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<tr>
<td>17.</td>
<td>Industrial Pollution Control</td>
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<td>Process Metallurgy</td>
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<td>12</td>
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<tr>
<td>19.</td>
<td>Materials Engineering</td>
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<td>7</td>
<td>1*</td>
<td>24</td>
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<tr>
<td>20.</td>
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<td>11</td>
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<td>90.91</td>
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<tr>
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<td>22</td>
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<td>27</td>
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<tr>
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<td>27+1*</td>
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<td>100.00</td>
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<tr>
<td>24.</td>
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<tr>
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<td>15</td>
<td>4</td>
<td>3</td>
<td>22</td>
<td>95.65</td>
<td>5</td>
</tr>
</tbody>
</table>

*- Repeaters
### Ranks secured by the B.Tech. Examination held in April/May, 2014

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Branch</th>
<th>Name of the Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Chemical Engineering</td>
<td>Pavan N</td>
</tr>
<tr>
<td>2</td>
<td>Civil Engineering</td>
<td>Arjun Narayanan</td>
</tr>
<tr>
<td>3</td>
<td>Computer Engineering</td>
<td>Chetan Dugar</td>
</tr>
<tr>
<td>4</td>
<td>Electronics &amp; Communication Engineering</td>
<td>Akshay B Pattabi</td>
</tr>
<tr>
<td>5</td>
<td>Electrical &amp; Electronics Engineering</td>
<td>Abhishek Raghu Malali</td>
</tr>
<tr>
<td>6</td>
<td>Information Technology</td>
<td>Anirudha R C</td>
</tr>
<tr>
<td>7</td>
<td>Mechanical Engineering</td>
<td>Karthik N S</td>
</tr>
<tr>
<td>8</td>
<td>Metallurgical &amp; Materials Engineering</td>
<td>U Pranav Nayak</td>
</tr>
<tr>
<td>9</td>
<td>Mining Engineering</td>
<td>Chiranth M Hegde</td>
</tr>
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</table>

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

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Branch</th>
<th>Name Of The Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Marine Structures</td>
<td>Parvathi S</td>
</tr>
<tr>
<td>2</td>
<td>Remote Sensing &amp; Geographic Information System</td>
<td>Irshan Verma</td>
</tr>
<tr>
<td>3</td>
<td>Water Resources Engineering &amp; Management</td>
<td>Priya Philip</td>
</tr>
<tr>
<td>4</td>
<td>Chemical Plant Design</td>
<td>Sruthy C</td>
</tr>
<tr>
<td>5</td>
<td>Industrial Biotechnology</td>
<td>Anisha Kurup</td>
</tr>
<tr>
<td>6</td>
<td>Industrial Pollution Control</td>
<td>C Maheswari</td>
</tr>
<tr>
<td>7</td>
<td>Construction Technology &amp; Management</td>
<td>Khadeeja Henna P</td>
</tr>
<tr>
<td>8</td>
<td>Environmental Engineering</td>
<td>Sudeeptha G</td>
</tr>
<tr>
<td>9</td>
<td>Geotechnical Engineering</td>
<td>Reeba Mary Varghese</td>
</tr>
<tr>
<td>10</td>
<td>Structural Engineering</td>
<td>Sunil D V</td>
</tr>
<tr>
<td>11</td>
<td>Transportation Engineering</td>
<td>Sharon Jacob</td>
</tr>
<tr>
<td>12</td>
<td>Computer Science &amp; Engineering</td>
<td>Murali K</td>
</tr>
<tr>
<td>Sl. No.</td>
<td>Branch</td>
<td>Name Of The Student</td>
</tr>
<tr>
<td>--------</td>
<td>---------------------------------------------</td>
<td>--------------------------------------------</td>
</tr>
<tr>
<td>1</td>
<td>Master of Computer Applications</td>
<td>Koustubh Sarkar</td>
</tr>
<tr>
<td>2</td>
<td>Master of Business Administration</td>
<td>Sayelee Gupta</td>
</tr>
<tr>
<td>3</td>
<td>M.Sc. Chemistry</td>
<td>Pearl Zynia Fernandes</td>
</tr>
<tr>
<td>4</td>
<td>M.Sc. Physics</td>
<td>Amrutha S V</td>
</tr>
</tbody>
</table>
Pie - chart showing discipline wise B.Tech. admissions 2014-15
Pie - chart showing discipline wise M.Tech. admissions 2014-15
Pie - chart showing discipline wise Ph.D. admissions 2014-15
### Examination Results (UG)

<table>
<thead>
<tr>
<th>Programme</th>
<th>Total No. Appeared</th>
<th>Total No. Pass</th>
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<tbody>
<tr>
<td>Civil</td>
<td>90</td>
<td>80</td>
</tr>
<tr>
<td>Mechanical</td>
<td>150</td>
<td>120</td>
</tr>
<tr>
<td>E &amp; E</td>
<td>100</td>
<td>80</td>
</tr>
<tr>
<td>E &amp; C</td>
<td>110</td>
<td>90</td>
</tr>
<tr>
<td>Chemical</td>
<td>50</td>
<td>40</td>
</tr>
<tr>
<td>Metallurgical And Materials</td>
<td>70</td>
<td>60</td>
</tr>
<tr>
<td>Mining</td>
<td>30</td>
<td>20</td>
</tr>
<tr>
<td>Computer</td>
<td>100</td>
<td>80</td>
</tr>
<tr>
<td>Information Technology</td>
<td>100</td>
<td>80</td>
</tr>
</tbody>
</table>

**Programme**

*Examination Results (UG)*

---

No. of students represents the number of students appearing for the examination and the number of students passing.
Examination Results (PG)

Programme

- Master of Business Administration
- Master of Computer Applications
- Information Technology
- Computer Science and Engineering - Information Security
- Computer Science and Engineering
- Systems Analysis & Computer Applications
- Nanotechnology
- Materials Engineering
- Process Metallurgy
- Industrial Pollution Control
- Industrial Biotechnology
- Chemical Plant Design
- Communication Engineering
- VLSI Design
- Power & Energy Systems
- Thermal Engineering
- Mechatronics Engineering
- Manufacturing Engineering
- Water Resources Engineering & Management
- Remote Sensing & Geographic Information System
- Marine Structures
- Transportation Systems Engineering
- Environmental Engineering
- Geotechnical Engineering
- Structural Engineering
- Construction Technology & Management

No. of Students

Examination Results (PG)
Growth in Enrolment of UG/PG/Ph.D. students during the last Five years 2010-2014
Category wise details of UG admissions 2014-15

Category wise details of PG admissions 2014-15
## Ph.D. PROGRAMMES – EXISTING & PROPOSED

### Department of Applied Mechanics And Hydraulics

<table>
<thead>
<tr>
<th>Specialization</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Existing</strong></td>
</tr>
<tr>
<td>(i) Coastal Engineering</td>
</tr>
<tr>
<td>(ii) Water Resources Engineering</td>
</tr>
<tr>
<td>(iii) Remote Sensing and GIS</td>
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### Department of Chemical Engineering

<table>
<thead>
<tr>
<th>Specialisation</th>
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</thead>
<tbody>
<tr>
<td><strong>Existing</strong></td>
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### Department of Civil Engineering

<table>
<thead>
<tr>
<th>Specialization</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Existing</strong></td>
</tr>
<tr>
<td>Construction Technology and Management</td>
</tr>
<tr>
<td>Environmental Engineering</td>
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<tr>
<td>Geology and Earth Sciences</td>
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<tr>
<td>Geotechnical Engineering</td>
</tr>
<tr>
<td>Structural Engineering</td>
</tr>
<tr>
<td>Transportation Engineering</td>
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<tr>
<td>Engineering Geology and Groundwater</td>
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### Department of Computer Engineering

<table>
<thead>
<tr>
<th>Specialization</th>
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<tbody>
<tr>
<td><strong>Existing</strong></td>
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<tr>
<td><strong>Proposed</strong></td>
</tr>
<tr>
<td>Big data analytics, Bio informatics</td>
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Annual Report 2014-15
## Department of Chemistry

<table>
<thead>
<tr>
<th></th>
<th>Specialization</th>
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<tbody>
<tr>
<td>Existing</td>
<td>Organic Chemistry</td>
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<tr>
<td></td>
<td>1) Synthetic organic chemistry</td>
</tr>
<tr>
<td></td>
<td>2) Conducting polymers</td>
</tr>
<tr>
<td></td>
<td>3) Medicinal chemistry</td>
</tr>
<tr>
<td></td>
<td>4) Liquid crystal</td>
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<tr>
<td></td>
<td>5) Organic solar cells - Dye Sensitized Solar Cells</td>
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<tr>
<td></td>
<td>Single crystal growth and crystallographic studies,</td>
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<tr>
<td></td>
<td>Homogenous and heterogeneous catalysis,</td>
</tr>
<tr>
<td></td>
<td>Carbon based materials for energy storage and sensor applications,</td>
</tr>
<tr>
<td></td>
<td>Membrane technology, Medicinal Chemistry, Nanomaterials</td>
</tr>
<tr>
<td>Proposed</td>
<td>1) Tendem solar cells</td>
</tr>
<tr>
<td></td>
<td>2) OLED materials</td>
</tr>
<tr>
<td></td>
<td>3) New heterogeneous catalysts for trans-esterification</td>
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## Department of Electronics And Communication Engineering

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Existing</td>
<td>Digital VLSI Design, Analog and Mixed Signal Design, Digital</td>
</tr>
<tr>
<td></td>
<td>Signal Processing, Speech, Audio, Image and Video Processing,</td>
</tr>
<tr>
<td></td>
<td>Digital Communication, Error Control Coding, Free Space Optics,</td>
</tr>
<tr>
<td></td>
<td>RF MEMS, Microwave and RF Circuits, Wireless Sensor Networks,</td>
</tr>
<tr>
<td></td>
<td>High Frequency Electronics, Semiconductor Devices, Embedded</td>
</tr>
<tr>
<td></td>
<td>Systems, Reconfigurable Computing.</td>
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</tbody>
</table>

## Department of Electrical And Electronics Engineering

<table>
<thead>
<tr>
<th></th>
<th>Specialization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Existing</td>
<td>Power Systems, Distributed Generation, Energy systems, Power</td>
</tr>
<tr>
<td></td>
<td>Electronics and Drives, Renewable energy, High Voltage Engineering, Flexible</td>
</tr>
<tr>
<td></td>
<td>AC transmission system(FACTs), Control Systems, power system protection,</td>
</tr>
<tr>
<td></td>
<td>Smart grid &amp; Sensor Networks.</td>
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</table>

## Department of Humanities, Social Sciences and Management

<table>
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<tr>
<th></th>
<th>Specialization</th>
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<tbody>
<tr>
<td>Existing</td>
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<tr>
<td>Proposed</td>
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### Department of Information Technology

<table>
<thead>
<tr>
<th>Specialization</th>
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<tbody>
<tr>
<td>Existing</td>
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### Department of Mathematical And Computational Sciences

<table>
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<tr>
<th>Specialization</th>
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<tbody>
<tr>
<td>Existing</td>
</tr>
<tr>
<td>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</td>
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</tbody>
</table>

### Department of Mechanical Engineering

<table>
<thead>
<tr>
<th>Specialization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Existing</td>
</tr>
<tr>
<td>Proposed</td>
</tr>
<tr>
<td>Atomization, Aero-elasticity</td>
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### Department of Mining Engineering

<table>
<thead>
<tr>
<th>Specialization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Existing</td>
</tr>
<tr>
<td>Rock Mechanics and Ground Control, Drilling and Blasting, Mine Planning Environmental Management</td>
</tr>
<tr>
<td>Proposed</td>
</tr>
<tr>
<td>M.Sc / M.Sc. (Tech) qualifications</td>
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</table>

### Department of Metallurgical And Materials Engineering

<table>
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<tr>
<th>Specialization</th>
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</thead>
<tbody>
<tr>
<td>Existing</td>
</tr>
<tr>
<td>Process Metallurgy, Physical Metallurgy, Mechanical Metallurgy, Materials Engineering, Nanotechnology</td>
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</table>
**Department of Physics**

<table>
<thead>
<tr>
<th>Specialization</th>
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</thead>
<tbody>
<tr>
<td>Existing</td>
</tr>
<tr>
<td>Solid State Physics, Materials Science, Theoretical Physics, Electromagnetics, Photonics</td>
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</table>

**DOCTORATES AWARDED**

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

<table>
<thead>
<tr>
<th>Name of the candidate</th>
<th>Title of the thesis</th>
<th>Year of Award</th>
<th>Guide (s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shwetha P</td>
<td>Characterization of Soil Hydraulic Properties in the Pavanje River Basin Karnataka, India</td>
<td>2014</td>
<td>K.Varija, Ph.D</td>
</tr>
<tr>
<td>Sachin Dadu</td>
<td>Hybrid Wavelet Transform – Neural Network Approach for Short Term and Long Term Time Series Flow Forecasting</td>
<td>2014</td>
<td>Paresh Chandra Deka, Ph.D</td>
</tr>
<tr>
<td>Raju.A</td>
<td>Development of CONTRAST ENHANCEMENT ALGORITHMS for Costal Applications using satellite images</td>
<td>2014</td>
<td>G. S. Dwarakish, D. Venkat Reddy, Ph.D</td>
</tr>
<tr>
<td>Binny Gopal</td>
<td>Measurement and Prediction of Top Soil Chemical Properties using HYPERSONREAL Data</td>
<td>2014</td>
<td>Amba Shetty, Ph.D</td>
</tr>
<tr>
<td>Pruthviraj U.</td>
<td>Numerical Simulation of 2D Flow Field For Perforated Plates In Free Stream And Fences</td>
<td>2015</td>
<td>M.K.Nagaraj, Ph.D &amp; Subas C. Yaragal, Ph.D</td>
</tr>
<tr>
<td>Keerthi Lakshmi</td>
<td>Evaluation of a satellite based evapotranspiration model in a humid tropical region</td>
<td>2015</td>
<td>Lakshman N., Ph.D</td>
</tr>
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Department of Chemical Engineering

<table>
<thead>
<tr>
<th>Upto 31st March 2014</th>
<th>20</th>
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</thead>
<tbody>
<tr>
<td>During period 1st April 2013 to 31st March 2015</td>
<td>07</td>
</tr>
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</table>

Ph.D. Degree awarded during period 1st April 2014 to 31st March 2015 :-
(for period of report only)

<table>
<thead>
<tr>
<th>Name of Candidate</th>
<th>Title of Thesis</th>
<th>Year of Award</th>
<th>Guide(s)</th>
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<tbody>
<tr>
<td>Ms. Pavithra Kumari</td>
<td>Studies In The Adhesion Of Candida To Buccal Epithelial Cells</td>
<td>June 2014</td>
<td>Gopal Mugeraya, Ph.D &amp; G. Srinikethan, Ph.D</td>
</tr>
<tr>
<td>Mr. Ayare Atul Balwant</td>
<td>Source Apportionment And Chemical Characterization Of Suspended Particulate Matter At Kolhapur City</td>
<td>July, 2014</td>
<td>G. Srinikethan, Ph.D</td>
</tr>
<tr>
<td>Ms. Ankita Khanna</td>
<td>Photocatalytic degradation of Azo dyes using Ag@TiO₂ Core-Shell Structured Nanoparticles</td>
<td>September 2014</td>
<td>Vidya Shetty K., Ph.D</td>
</tr>
<tr>
<td>Mrs. Dilna Damodaran</td>
<td>Mycoremediation Of Heavy Metal Contaminated Soil Using Mushrooms -</td>
<td>October, 2014</td>
<td>B. Raj Mohan, Ph.D &amp; Vidya Shetty K., Ph.D</td>
</tr>
<tr>
<td>Mrs. Rajeshwari M. Kulkarni</td>
<td>Biosorption Of Nickel(II) And Cadmium(II) On Bacterial And Yeast Biomass</td>
<td>February, 2015</td>
<td>G. Srinikethan, Ph.D &amp; Vidya Shetty K., Ph.D</td>
</tr>
<tr>
<td>Mr. Gop Kumar</td>
<td>Studies On Microbial Biotrans-formations For The Synthesis Of Stereo selective New Pharmaceutical Drug Precursors And Their Pharmacological Evaluation</td>
<td>February, 2015</td>
<td>Gopal Mugeraya, Ph.D</td>
</tr>
<tr>
<td>Ms. Sogra Fathima B.</td>
<td>Studies on Isolated Endophytic Fungi from Notothapodytes Foetida for Production of Camptothecin and other Products of Certain Biotechnological Interest</td>
<td>February, 2015</td>
<td>Raj Mohan B., Ph.D</td>
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Department of Civil Engineering

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<th>Up to 31st March 2014</th>
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<tr>
<td>During period 1st April 2014 to 31st March 2015</td>
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<tr>
<td>Name of Candidate</td>
<td>Title of Thesis</td>
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<tr>
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<tr>
<td>Vinayak Patki</td>
<td>Water Quality Assessment in Distribution Systems using Artificial Intelligence</td>
</tr>
<tr>
<td>Poornachandra Pandit</td>
<td>Effect of corrosion on the flexural behavior of reinforced concrete beams</td>
</tr>
<tr>
<td>Akshatha Shetty</td>
<td>Effect of reinforcement corrosion on the bond strength of RC members</td>
</tr>
<tr>
<td>Honnanagoudar, S.S</td>
<td>Studies On Aquifer Characterization And Sea Water Intrusion Vulnerability Assessment Of Coastal Dakshina Kannada District, Karnataka</td>
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<tr>
<td>Manjunatha L.S.</td>
<td>Use of Stabilized Iron Ore Tailings For Bulk Fill Construction and Replacement For Fine Aggregates in Concrete</td>
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<td>Naveenkrmar D T</td>
<td>Stress, Free Vibration and Buckling Analyses of FGM Plates - Analytical solutions Using Higher - Order Refined Theories</td>
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**Department of Computer Engineering**

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<th>No. awarded (including those for which viva has been successfully completed)</th>
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<tbody>
<tr>
<td>Up to 31st March 2014</td>
</tr>
<tr>
<td>During period 1st April 2014 to 31st March 2015</td>
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<table>
<thead>
<tr>
<th>Name of Candidate</th>
<th>Title of Thesis</th>
<th>Year of Award</th>
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<tbody>
<tr>
<td></td>
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<td>P. Santhi Tilagam, Ph.D</td>
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</table>
### Department of Chemistry

<table>
<thead>
<tr>
<th>Name of Candidate</th>
<th>Title of Thesis</th>
<th>Year of Award</th>
<th>Guide(s)</th>
</tr>
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<tbody>
<tr>
<td>Pradeep Kumar</td>
<td>Studies on corrosion inhibition of 18% Ni M 250 grade maraging steel under welded condition in acidic media</td>
<td>2014</td>
<td>A. Nityananda Shetty, Ph.D</td>
</tr>
<tr>
<td>Nandini K</td>
<td>Study on corrosion behavior and corrosion inhibition of magnesium alloy ZE41</td>
<td>2014</td>
<td>A. Nityananda Shetty, Ph.D</td>
</tr>
<tr>
<td>Ahipa T N</td>
<td>Synthesis, characterization and mesomorphic properties of new pyridine derivatives</td>
<td>2014</td>
<td>A. Vasudeva Adhikari, Ph.D</td>
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<tr>
<td>Sandhyarani</td>
<td>Transition metal complexes as catalysts for organic synthesis.</td>
<td>2014</td>
<td>B. Ramachandra Bhat, Ph.D</td>
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<tr>
<td>Aparna PI</td>
<td>Transition metal complexes as catalysts for the C-C cross coupling reactions.</td>
<td>2014</td>
<td>B. Ramachandra Bhat, Ph.D</td>
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<tr>
<td>Aravindra LS</td>
<td>Carbon nano materials for Supercapacitor</td>
<td></td>
<td>B. Ramachandra Bhat, Ph.D</td>
</tr>
<tr>
<td>Vijayaganapathi Ramesh Karanth</td>
<td>Molecular interactions of cyclic alanylalanine and Glycine Betaine in Aqueous Metal Chloride Solutions</td>
<td>2014</td>
<td>D. Krishna Bhat, Ph.D</td>
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<tr>
<td>H S Sreekantha Jois</td>
<td>Physico-chemical properties of some polymer blends</td>
<td>2014</td>
<td>D. Krishna Bhat, Ph.D</td>
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<tr>
<td>Ganesh BM</td>
<td>Preparation and characterization of polysulfone based polymeric membranes for desalination and heavy metal removal</td>
<td>2014</td>
<td>Arun M. Isloor, Ph.D</td>
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<td>Madhuprasad</td>
<td>New synthetic receptors for molecular recognition of anions and their practical applications</td>
<td>2014</td>
<td>Darshak R. Trivedi, Ph.D</td>
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No. awarded: 32

**Upto 31st March 2014**

**During period 1st April 2014 to 31st March 2015**

**10**
### Department of Electrical And Electronics Engineering

<table>
<thead>
<tr>
<th>No. awarded (including those for which viva has been successfully completed)</th>
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<tbody>
<tr>
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<tr>
<td>During period 1&lt;sup&gt;st&lt;/sup&gt; April 2014 to 31&lt;sup&gt;st&lt;/sup&gt; March 2015</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Name of Candidate</th>
<th>Title of Thesis</th>
<th>Year of Award</th>
<th>Guide(s)</th>
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</thead>
<tbody>
<tr>
<td>K Chandrasekaran</td>
<td>A New Approach of Tuning Channel-Base-Current-Function, and Severity of Lightning-Return-Stroke: A Study</td>
<td>2015</td>
<td>G. S. Punekar, Ph.D</td>
</tr>
<tr>
<td>S. B. Karajgi</td>
<td>PV &amp; MSW as Distributed Generation Resources: Modeling, Analysis and Benefit Quantification</td>
<td>2014</td>
<td>Udaykumar R. Y, Ph.D</td>
</tr>
<tr>
<td>Mritunjaya Kappali</td>
<td>Solar Photo Voltaic Water Pumping System</td>
<td>2014</td>
<td>Udaykumar R. Y., Ph.D</td>
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<tr>
<td>Anant Jaivant Naik</td>
<td>Integration of Grid Connected Photovoltaic System with Active Power Filtering Functionality</td>
<td>2014</td>
<td>Udaykumar R. Y, Ph.D</td>
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</table>

### Department of Electronics And Communication Engineering

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

**During period 1st April 2014 to 31st March 2015**

<table>
<thead>
<tr>
<th>Name of Candidate</th>
<th>Title of Thesis</th>
<th>Year of Award</th>
<th>Guide(s)</th>
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<tbody>
<tr>
<td>Savitha H M</td>
<td>Energy Efficient Error Control Techniques for OFDM Systems with their Applicability to Power Line and Wireless Communication Channels</td>
<td>April 2014</td>
<td>M. Kulkarni, Ph.D</td>
</tr>
<tr>
<td>Lwaa Faisal Abdulameer</td>
<td>Analysis and Design of Reliable and Secure Chaotic Communication System for Optical and Wireless Linkers</td>
<td>August 2014</td>
<td>U Sripati, Ph.D M Kulkarni, Ph.D</td>
</tr>
<tr>
<td>Vasantha M.H</td>
<td>Low Power Integrated Continuous-Time Transconductance-Capacitor Filters targeted to operate on 0.5v Supply Voltage</td>
<td>October 2014</td>
<td>Laxminidhi T, Ph.D</td>
</tr>
<tr>
<td>Rekha S</td>
<td>Integrated Active-RC Continuous Time Filters for Low Voltage and Low Power Applications</td>
<td>November 2014</td>
<td>T Laxminidhi, Ph.D</td>
</tr>
<tr>
<td>Geetha Prakash</td>
<td>Rateless Codes for Transmission over Free Space Optics using Stochastic Models based on Scintillation Theory and their Application to Optical Wireless Sensor Networks</td>
<td>December 2014</td>
<td>M Kulkarni, Ph.D U Sripati, Ph.D</td>
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### Networks

<table>
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<th>Name</th>
<th>Title of Thesis</th>
<th>Year of Award</th>
<th>Guide(s)</th>
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<tbody>
<tr>
<td>Bini A A</td>
<td>Image restoration and enhancement using partial differential equations</td>
<td>February 2015</td>
<td>M S Bhat, Ph.D</td>
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</table>

### Department of Humanities, Social Sciences and Management

<table>
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<tr>
<th></th>
<th>No. awarded (including those for which viva has been successfully completed)</th>
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<tbody>
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<td>Up to 31st March 2014</td>
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<th>Name of Candidate</th>
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<tr>
<td>C. Somashekar</td>
<td>Resource-Based View and Sustainable Competitive Advantage: An Investigation Among the Cellular Mobile Operators.</td>
<td>Awarded on 28th May, 2014</td>
<td>K.B. Kiran, Ph.D</td>
</tr>
<tr>
<td>Sukanya Shetty</td>
<td>Factors Affecting Investment Decision Making of Urban Individual Investors in India</td>
<td>Awarded on 10th October, 2014</td>
<td>K.B. Kiran, Ph.D</td>
</tr>
<tr>
<td>Rajesh M.</td>
<td>An Assessment of Factors Affecting the Performance of Micro Finance Institutions.</td>
<td>Awarded on 2nd February, 2015</td>
<td>K.B. Kiran, Ph.D</td>
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### Department of Information Technology

<table>
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<th>No. awarded (including those for which viva has been successfully completed)</th>
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<tr>
<td>Roopalakshmi</td>
<td>Content Based Video Copy Detection, Tracking and Identification of Movie Pirates</td>
<td>April 2014</td>
<td>G. Ram Mohana Reddy, Ph.D</td>
</tr>
<tr>
<td>Bayyapu Neelima</td>
<td>Communication and Computation Optimization of Concurrent Kernels and Sparse Matrix Vector Multiplication on Graphics Processing Unit</td>
<td>February 2015</td>
<td>G. Ram Mohana Reddy, Ph.D., Prakash S Raghavendra, K.B., Ph.D</td>
</tr>
<tr>
<td>Name of Candidate</td>
<td>Title of Thesis</td>
<td>Year of Award</td>
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<tr>
<td>K Karuna Kamath</td>
<td>Pseudorandom Numbers And Elliptic Curves Over Finite Fields</td>
<td>2014</td>
<td>B.R. Shankar, Ph.D</td>
</tr>
<tr>
<td>Ganala Santoshi</td>
<td>Some Efficient Mobile Sensor Node Traversal Algorithms</td>
<td>2015</td>
<td>R. J. D'Souza, Ph.D</td>
</tr>
<tr>
<td>Prameela Kolake</td>
<td>New Aspects of Domination and Complementation in Graphs</td>
<td>2015</td>
<td>Shyam S. Kamath, Ph.D</td>
</tr>
<tr>
<td>Rekha G Pai</td>
<td>Entrance Region Flow of Time-Independent Non-Newtonian Fluids in Various Channels</td>
<td>2015</td>
<td>A Kandasamy, Ph.D</td>
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</table>

**Department of Mechanical Engineering**

<table>
<thead>
<tr>
<th>Name of the candidate</th>
<th>Title of thesis</th>
<th>Year of award</th>
<th>Guide(s)</th>
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<tbody>
<tr>
<td>Manoj Kumar (ME10F11)</td>
<td>Effect of Biodiesel Blends on Selective catalytic reduction system to Reduce NOx Emissions in Diesel Vehicles</td>
<td>2015</td>
<td>P. Mohanan, Ph.D</td>
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<tr>
<td>Sonage Basgonda Kallappa (ME09P12)</td>
<td>Augmentation of forced convection heat transfer through tube by using nano-fluids.</td>
<td>2015</td>
<td>P. Mohanan, Ph.D</td>
</tr>
<tr>
<td>Madhusudhan</td>
<td>Some Studies on Process parameters in Centrifugal casting</td>
<td>2014</td>
<td>Narendranath, P. Mohanan, Ph.D and G.C. Mohan Kumar, P. Mohanan, Ph.D</td>
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Department of Metallurgical and Materials Engineering

<table>
<thead>
<tr>
<th>Name of Candidates</th>
<th>Title of Thesis</th>
<th>Year of Award</th>
<th>Guide(s)</th>
</tr>
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<tbody>
<tr>
<td>Rajath Hegde</td>
<td>Synthesis and characterization of mechanically alloyed nanostructured Al-Fe</td>
<td>2014</td>
<td>A. O. Surendranathan, Ph.D.</td>
</tr>
<tr>
<td>James Valder</td>
<td>Processing of Commercial Purity Titanium, Aluminium and Al-5Zn-1Mg Alloy by Equal Channel Angular Extrusion</td>
<td>2014</td>
<td>A. O. Surendranathan, Ph.D.</td>
</tr>
<tr>
<td>Rijesh M.</td>
<td>A Study on Stress Analysis of Containerless Backward Extrusion of Al-Zn-Mg Alloys</td>
<td>2014</td>
<td>A. O. Surendranathan, Ph.D.</td>
</tr>
<tr>
<td>N. Jegadeeswaran</td>
<td>Study on the role of HVOF coating to combat hot corrosion, oxidation and erosion in turbine components</td>
<td>2014</td>
<td>Udaya Bhat K., Ph.D.</td>
</tr>
<tr>
<td>Ramesh G.</td>
<td>Wetting kinetics, kinematics and Heat Transfer Characteristics of Liquid Quenchants for Heat Treatment – A Study</td>
<td>2015</td>
<td>Narayan Prabhu, Ph.D.</td>
</tr>
<tr>
<td>T. Senthil</td>
<td>Some Studies on Electrospinning of Poly(Styrene-co-acrylonitrile)</td>
<td>2015</td>
<td>Anandhan Srinivasan, Ph.D.</td>
</tr>
<tr>
<td>B. Shivamurthy</td>
<td>Structure-Property Relationship of Glass Fabric/Epoxy Composites Containing Some Micro and Nano Fillers</td>
<td>2015</td>
<td>Anandhan Srinivasan, Ph.D. &amp; Udaya Bhat K., Ph.D.</td>
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### Department of Physics

<table>
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<th>Name of Candidate</th>
<th>Title of Thesis</th>
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<tbody>
<tr>
<td>Shelar Vikas M.</td>
<td>Studies on laser induced fluorescence in subsonic &amp; supersonic jets using</td>
<td>2014</td>
<td>G. Umesh, Ph.D. G. Ramachandran, Ph.D., Mysore</td>
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<tr>
<td>Sadananda Kumar N.</td>
<td>Study of Doping in Zinc oxide thin films grown by spray pyrolysis technique,</td>
<td>2014</td>
<td>Kasturi V. Bangera, Ph.D., G. K. Shivakumar, Ph.D.</td>
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<tr>
<td>G Venkateshwara Rao</td>
<td>Synthesis, Characterization and various properties of CaO-P₂O₅ ; CaO-CaF₂-P₂O₅ Glasses with Silver nanoparticles</td>
<td>2015</td>
<td>H. D. Shashikala, Ph.D.</td>
</tr>
<tr>
<td>Santhosh Kumar A</td>
<td>Preparation, Characterization and application of ZnO and TiO₂ based nanostructures</td>
<td>2015</td>
<td>H.S. Nagaraja, Ph.D.</td>
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10.0 HUMAN RESOURCES

10.1 STAFF POSITION

a) Teaching Staff

<table>
<thead>
<tr>
<th>Position</th>
<th>Number</th>
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<tbody>
<tr>
<td>Professors</td>
<td>69</td>
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<tr>
<td>Associate Professors</td>
<td>34</td>
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<tr>
<td>Assistant Professors</td>
<td>123</td>
</tr>
<tr>
<td>Other staff, A.P.D. &amp; System Manager}</td>
<td>2</td>
</tr>
<tr>
<td>contract Faculty</td>
<td>2</td>
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<td>Total</td>
<td>230</td>
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b) Non-Teaching Staff

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<th>Position</th>
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<tr>
<td>Administrative Officers</td>
<td>14</td>
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<tr>
<td>Technical supporting staff</td>
<td>66</td>
</tr>
<tr>
<td>Non-technical supporting staff</td>
<td>112</td>
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<tr>
<td>Total</td>
<td>192</td>
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</tbody>
</table>

THE STAFF

(A) Administration Staff (Teaching)

Director: (Head of the Institution)

Swapan Bhattacharya, Ph.D. from 1.8.2012

Dean (Academic)

(Mrs) Sumam David, Ph.D. till 30.9.2014
Katta Venkataramana, Ph.D. from 1.10.2014

Dean (Planning and Development)

M C Narasimhan, Ph.D. from 1.2.2014

Dean (Faculty Welfare)

A Kandasamy, Ph.D. from 18.1.2013

Dean (Alumni Affairs & Institutional Relations),

M B Saidutta, Ph.D. from 15.5.2013

Dean (Student’s Welfare)

Uday Kumar R Y, Ph.D. from 8.10.2013

Dean (Research & Consultancy)

K Chandra Sekaran, Ph.D. from 1.9.2013
ACADEMIC STAFF (TEACHING)

Department of Applied Mechanics And Hydraulics

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

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

Assistant Professor:
K. Subrahmanya, M.Tech. (Mangalore University)
Manu, (Ph.D. NITK)
Pruthviraj U., Ph.D. (NITK)
H.Ramesh, Ph.D. (NITK)
K. Vadivuchezhian, Ph.D. (IIT Madras)
Nasar T, Ph.D. (IIT, Madras)

Department of Chemical Engineering

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

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

Assistant Professors:
S. Gangamma, IIT, Bangalore
Jitendra Pal S., QIP at IIT Delhi
Prasanna B.D., M.E. (Ph.D. NITK)
Regupathi, Ph.D., (Anna University, Chennai)
P.E. Jagadeeshbabu, Ph.D. (Anna Univ. Chennai)
Noyel Victoria, Ph.D. (IIT Madras)
Keyur Raval, Ph.D. (Aachen Den University)
D.Ruben Sudhakar, Ph.D. (IIT Madras)
B. Ashraf Ali, Ph.D. (IIT Madras)
Department of Civil Engineering

Professors:

R. Shivashankar, Ph.D. (A.I.T. Bangkok)
K.N. Lokesh, Ph.D. (Geology) (Gulbarga University) HOD from 3.9.2014
M.C. Narasimhan, Ph.D. (IIT Madras)
Katta Venkataramana, Dr.Eng. (Kyoto University, Japan), HOD till 2.9.2014
A.U. Ravi Shankar, Ph.D (Univ. of Roorkee)
D. Venkata Reddy, Ph.D. (Geology) (Osmania University)
Varghese George, Ph.D. (I.I.T. Bombay)
S. Shriram, 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. (IIIT, 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. (IIIT Roorkee)
A. Gowri, Ph.D. (IIT Madras)
Anjana Bhai, Ph.D. (IIT, Madras)

Department of Computer Engineering

Professors:

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

Associate Professor

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

Assistant Professor:

Alwyn Roshan Pais, Ph.D. (NITK)
Saumya A. Hegde, M.Tech. (NITK)
B.R. Chandavarkar, M.Tech. (VTU, Belgaum)
Mahendra Patap Singh, M.Tech. (Karunya University) – on QIP IIT, Kharagpur
Department of Chemistry

Professors:
A. Nityananda Shetty, Ph.D. (Mangalore Univ.)
A. Vasudeva Adhikari, Ph.D. (Karnatak Univ.)
A. Chitharanjan Hegde, Ph.D. (Mangalore Univ.) HOD till 10.8.2014
B. Ramachandra Bhat, Ph.D. (Mangalore Univ.) HOD from 11.8.2014
Krishna Bhat, Ph.D. (Mangalore Univ.)

Associate Professors:
Arun Mohan Isloor, Ph.D. (Mangalore University)

Assistant Professors:
Udaya Kumar D., Ph.D. (NITK, Surathkal)
Darshak R. Bhai Trivedi, Ph.D. (Bhavnagar University)
Sib Sankar Mal, Ph.D. (JUB Germany)

Department of Electronics And Communication Engineering

Professors:
S. Sumam David, Ph.D. (I.I.T. Madras)
Muralidhar Kulkarni, Ph.D. (JMI – New Delhi)
John D'Souza, Ph.D. (I.I.T. Kharagpur)
K. Sripati, Ph.D. (I.I.Sc., Bangalore)

Associate Professors:
J. Ramesh Kini, M.Tech. (Mangalore University)
Neelavar Shekar Shet, Ph.D. (NITK)
Laxminidhi T., Ph.D. (IIT, Madras)
Ashwini Chathurvedi, Ph.D. (MUM Malaysia)

Assistant Professors:
Rekha S., M.Tech. (Mangalore University)
Kalpana G. Bhat, M.E. (BVB Hubli)
Aparna P., Ph.D. (NITK)
Joseph Antony A., M.E. (Anna Univ., Chennai)- on EOL for Ph.D.
B. Nagavel, M.E., (Jadavpur University) on QIP at IIT Kharagpur
Krishna Moorthy K., M.E. (Anna Univ., Chennai) on QIP IIT, Bombay
Deepu Vijayasenan, 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
Pattipatisirihari, Ph.D. (Andhra University)
Shyam Lal, Ph.D. (BIT Ranchi)

Department of Electrical And Electronics Engineering

Annual Report 2014-15
Professors:
Udayakumar R.Y., Ph.D. (IIT Bombay)
K. Panduranga Vittal, Ph.D. (Mangalore Univ.)

Associate Professors:
Jora M. Gonda, M.E. (I.I.Sc. Bangalore) HOD
Shubhanga K.N., Ph.D. (IIT, Bombay)
Vinatha U., Ph.D. (NITK, Surathkal)
Gururaj S. Punekar, Ph.D. (IIT, Kharagpur)
K. Manjunatha Sharma, Ph.D. (NITK)

Assistant Professor:
Iddya Raghavendra Rao M.Tech. (Mangalore Univ.)
Nagendrappa H., M.Tech. (N.I.T.K.), QIP Deputation
Dattatraya N. Goankar, Ph.D. (IIT, Roorkee)
Tukaram Moger, M.Tech. (IIT, Kanpur) on QIP at IISC, Bangalore
Parthiban, Ph.D. (IIT, Roorkee)
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) HOD from 2.9.2014
K.B.Kiran, Ph.D. (Mangalore Univ.)

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

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

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

**Assistant Professor:**
Dinesh Naik, M.Tech. (VTU, Belgaum)
Geetha V., M.Tech. (VTU, Belgaum)
Biju R. Mohan, M.Tech. (Pondichery University)
Sowmya Kamath S., M.Tech. (MIT, Manipal)
Jaidhar C D, Ph.D. (NIT, Tiruchirapalli)
Nagamma Patil, Ph.D. (IIT, Roorkee)

**Department of Mathematical & Computational Sciences**

**Professors:**
Keshava Prasad Halemane, Ph.D. (Carnegie-Mellon Univ. U.S.A.)
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.)
Sujatha D. Achar, M.Sc. (Karnatak Univ.)
R. Madhusudhan., Ph.D. (IIT, Roorkee)

**Assistant Professors:**
D. Pushparaj Shetty, Ph.D. (IIT Delhi)
Vivek Sinha, Ph.D (IIT, Bombay)
V. Murugan, Ph.D. (IIT, Madras)
P. Sam Johnson, Ph.D. (Alagappa University)
Jidesh P., Ph.D. (NITK)
Satyanarayana Engu, Ph.D., (IIT Madras)
Vishwanath Kadaba Puttanna, Ph.D., (NITK)
Chandhini G, Ph.D. (IIT, Madras)
Jayaraman, Ph.D. (IIT, Madras)
Srinivasa Rao Kola, Ph.D. (IIT, Kharagpur)
A Senthil Thilak, Ph.D. (IIT, Tiruchirappalli)

**Department of Mechanical Engineering**

**Professors:**
K.K. Appu Kuttan, Ph.D (I.I.T. Madras) on deputation to MANIT, Bhopal as Director from 27.9.2011
P. Mohanan, Ph.D. (I.I.T. Delhi)
T.P. Ashok Babu, Ph.D. (I.I.T. Delhi)
G.C. Mohan Kumar, Ph.D. (IIT, Chennai)
H. Suresh Hebbar, Ph.D. (I.I.T. Delhi)
Prasad Krishna, Ph.D., (Univ. of Michigan, Ann Arbor, USA) HOD till 21.1.2015

Annual Report 2014-15
Satyabodh M Kulkarni, Ph.D. (I.I.Sc., Bangalore)
Gangadharan K.V., Ph.D. (I.I.T., Madras) HOD from 22.1.2015
Ravi Kiran Kadoli, Ph.D. (IIT, Madras)
Vijay Desai, M.E. (Ph.D. NITK)
Narendranath S., Ph.D. (IIT, Kharagpur)
Shrikantha, Ph.D. (NITK) from 11.3.2015

**Associate professors**

Y. Suresh Kumar, M.E. (Mysore Univ.)
Srikantha M., Ph.D. (NITK) till 10.3.2015
S.M. Murigendrappa, Ph.D. (I.I.T., Bombay)

**Assistant Professors**

Mervin A. Herbert, Ph.D. (I.I.T., Kharagpur)
Guruprasad K.R., Ph.D. (I.I.Sc., Bangalore)
Kumar G.N., Ph.D. (IIT, Delhi)
Shivananda Nayak H., Ph.D. (IIT Roorkee)
Veeretty Gumtapure, Ph.D. (IIT, Madras)
Navin Karanth P., Ph.D. (NITK)
Subhaschandra Kattimani, Ph.D. (IIT, Kharagpur)
Sudhakar Jambagi, M.Tech. (QIP at IIT Kharagpur)
Vijay Kumar H, Ph.D. (IIT, Bombay)
Ajay Kumar Yadav, Ph.D. (I.I.T. Kharagpur)
D. Chakradhar, Ph.D., (NIT Warangal)
Jeyaraj P, Ph.D., (IIT Madras)
Hemantha Kumar, Ph.D., (IIT, Madras)
Ramesh M.R, Ph.D., (IIT, Roorkee)
Sathyabhamma A., Ph.D., (NITK)
Srikamath Bontha, Ph.D. (Wnight State)
Arun M, Ph.D. (University of Greenwich, London, UK)
Anish S, Ph.D. (IIT, Madras)
Mrityunjay R. Doddamani, Ph.D. (NITK, Surathkal)
N. Gnanasekaran, Ph.D. (IIT, Madras)
Ranjith M., Ph.D. (Busan, South Korea)

**Department of Mining Engineering Professors:**

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

**Associate Professor:**

Harsha Vardhan, Ph.D. (Indian School of Mines Dhanbad)
M. Aruna, B.E. Ph.D. (University of Dhanbad) HOD
Assistant Professor:
K. Ramachander, Ph.D. (NITK)
Anup Kumar Tripathi, Ph.D. (University of Kentucky, Lexington, USA)
Ram Prasad Choudhary, Ph.D. (JNU, Jodhpur)
Bijay Mihir, Ph.D. (IIT, Kharagpur)

Department Of Metallurgical & Materials Engineering

Professors:
A.O. Surendranathan, Ph.D. (Mangalore University)
K. Narayana Prabhu, Ph.D. (Mangalore Univ.) HOD till 19.4.2014
Jagannatha Nayak, Ph.D. (NITK) HOD from 20.4.2014

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

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

Department of Physics

Professor:
G.K. Shivakumar, Ph.D. (Sardar Patel Univ., Gujarat)
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 incinnati)
Deepak Vaid, Ph.D. (USA)
ADMINISTRATIVE AND OTHER STAFF

Registrar i/c:
Ravindranath K., M.A. (Mangalore University) till 8.3.2015 (Registrar from 9.3.2015)

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

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

Resident Engineer i/c:
M.K. Nagaraj, Ph.D. w.e.f. 9.7.2014

Resident Medical Officers:
Dr. B. Srimathi, M.B.B.S. (Mysore Univ.)

Medical Officer:
Dr. M.L. Balabhaskara
Dr. Sulochana Nayak – on contract

Chief Warden Hostel:
Narendranath S, Ph.D. from 1.4.2014

2 NITK ENGG. COY N.C.C. Officer Commanding:
Col. MG HS Rajan

Associated NCC Officer Incharge (ANO):
P Sam Johnson, Ph.D.

Watch and Ward Officer/Security Officer 10.3.2015:
Manohar Karanth

Chief Vigilance Officer:
K Rajendra Udupa, Ph.D. from 24.2.2014

Central Public Information Officer (CPIO):
K. Ravindranath, Dy. Registrar(Academic)

OTHER SECTIONS
Department of Training & Placement Professor:
Lakshman N, Ph.D. from 1.4.2014
Industry Institute Partnership Cell  
Professor I/c.:  

Full Time Officer:  
G S Dwarakish, Ph.D.  

SC/ST Cell  
B M Doddamani, Ph.D. from 16.5.2013  

Physical Education  
Physical Director:  
Vacant  
Assistant Physical Director Sr. Scale:  
A. Shivaram, M.P.Ed. (Mangalore Univ.) (I/c. Physical Director)  

SAS Officer  
Hem Prasad Nath, Ph.D.(Nagpur University) from 11.3.2014  
Manoj, MPEd (Mangalore University) 11.3.2015  

Library  
Librarian:  
Vacant from 17.5.2011  
Asst. Librarian:  
Anasuya Chakari, M.A. M.Lib.Sc. (Karnataka University) Library Incharge from 17.5.2011  
Iranna M Shettar (M.Lisc., M. Phil) 26.3.2014  

Central Computer Centre  
Chairman / System Manager:  
P.G. Mohanan, M.Tech. (Cochin Univ.)  

Scientific Officer:  
Vijayakumar Ghode, B.E. (Gulbarga Univ.)  

NITK - Science & Technology Entrepreneurs’ Park  
Director:  
K B Kiran, Ph.D. incharge from 1.7.2014  

R&D Centre on Clay Roofing Tiles  
Faculty Incharge:  
K Chandrasekaran, Ph.D. from 1.4.2014

**NTMIS - Nodal Centre - Karnataka State**
**Project Officer I/c.:**
B M Doddamani, Ph.D.

**Centre for Continuing Education**
**Chairman**
S M Hegde, Ph.D., from 1.4.2014

**Dakshina Kannada Nirmithi Kendra**
**Coordinator:**
K.S Babu Narayan, Ph.D.

**Project Manager:**
Kalbavi Rajendra Rao, B.E. (Mangalore Univ.)

**NON-ACADEMIC STAFF (NON-TEACHING)**

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Name of the Posts</th>
<th>In Position as on 31-03-2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Registrar</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Dy. Registrar (A/C's)</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Asst. Registrar (Admin)</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>Asst. Registrar (Accounts)</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>Asst. Registrar (Academic)</td>
<td>2</td>
</tr>
<tr>
<td>6</td>
<td>Medical Officer</td>
<td>2</td>
</tr>
<tr>
<td>7</td>
<td>Senior Scientific Officer</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>Assistant Librarian</td>
<td>2</td>
</tr>
<tr>
<td>9</td>
<td>SAS Officer</td>
<td>2</td>
</tr>
<tr>
<td>10</td>
<td>Security Officer</td>
<td>1</td>
</tr>
<tr>
<td>11</td>
<td>Senior Superintendent</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>Superintendent</td>
<td>3</td>
</tr>
<tr>
<td>13</td>
<td>Senior Secretary</td>
<td>1</td>
</tr>
<tr>
<td>14</td>
<td>Junior Assistant</td>
<td>15</td>
</tr>
<tr>
<td>15</td>
<td>Senior Assistant</td>
<td>32</td>
</tr>
<tr>
<td>16</td>
<td>Asst.Selection Grade-II</td>
<td>1</td>
</tr>
<tr>
<td>17</td>
<td>Asst.Selection Grade-I</td>
<td>7</td>
</tr>
<tr>
<td>18</td>
<td>Senior Stenographer</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Position</td>
<td>Quantity</td>
</tr>
<tr>
<td>---</td>
<td>----------------------------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>19</td>
<td>Stenographer (SG - II)</td>
<td>4</td>
</tr>
<tr>
<td>20</td>
<td>Technical Assistant</td>
<td>3</td>
</tr>
<tr>
<td>21</td>
<td>Senior Technical Assistant</td>
<td>7</td>
</tr>
<tr>
<td>22</td>
<td>Technical Assistant (SG- II)</td>
<td>1</td>
</tr>
<tr>
<td>23</td>
<td>Assistant Engineer</td>
<td>12</td>
</tr>
<tr>
<td>24</td>
<td>Assistant Executive Engineer</td>
<td>19</td>
</tr>
<tr>
<td>25</td>
<td>Executive Engineer</td>
<td>3</td>
</tr>
<tr>
<td>26</td>
<td>Work Assistant</td>
<td>5</td>
</tr>
<tr>
<td>27</td>
<td>Senior work Assistant</td>
<td>1</td>
</tr>
<tr>
<td>28</td>
<td>Work Assistant (SG - II)</td>
<td>1</td>
</tr>
<tr>
<td>29</td>
<td>Technician</td>
<td>1</td>
</tr>
<tr>
<td>30</td>
<td>Senior Technician</td>
<td>10</td>
</tr>
<tr>
<td>31</td>
<td>Technician (SG-II)</td>
<td>3</td>
</tr>
<tr>
<td>32</td>
<td>Attendant</td>
<td>30</td>
</tr>
<tr>
<td>33</td>
<td>Senior Attendant</td>
<td>15</td>
</tr>
<tr>
<td>34</td>
<td>Senior Security Guard</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>192</strong></td>
</tr>
</tbody>
</table>
11.0 FACILITIES/AMENITIES

11.1 Hostels

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

<table>
<thead>
<tr>
<th></th>
<th>Male</th>
<th>Female</th>
<th>Total No. of Hostellers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate Programmes</td>
<td>2629</td>
<td>544</td>
<td>3173</td>
</tr>
<tr>
<td>Postgraduate Programmes (M.Tech)</td>
<td>620</td>
<td>253</td>
<td>873</td>
</tr>
<tr>
<td>PhD</td>
<td>175</td>
<td>54</td>
<td>229</td>
</tr>
<tr>
<td>M.B.A</td>
<td>47</td>
<td>18</td>
<td>65</td>
</tr>
<tr>
<td>M.Sc.</td>
<td>24</td>
<td>48</td>
<td>72</td>
</tr>
<tr>
<td>MCA</td>
<td>177</td>
<td>72</td>
<td>249</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>3672</strong></td>
<td><strong>989</strong></td>
<td><strong>4661</strong></td>
</tr>
</tbody>
</table>

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

There are 11 messes operating in various hostel blocks to cater the needs of inmates. Out of which two vegetarian messes are running in girl’s hostel and 8 vegetarian messes and one non-veg mess are running in boy’s hostel. All the messes are provided with necessary infrastructure to cater to the different food habits of the students drawn from various parts of the country. The messes are managed by the active participation of the Mess Managers in preparation of the menu and other issues related to the management of the messes. Monthly mess bill accounts were audited by verifying the mess cards, extra milk and stock sheets, cash and credit guest registers, purchase registers, mess issue register, mess bill calculation registers, petty cash book with vouchers and other records connected with monthly mess bill. Rationalization method was adopted to avoid the rate difference problem of various messes. Three groups of messes were made. They are as follows

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

Rate per day of each group will remain uniform. Total mess membership varies in every month. Out of the 11 messes, VII block mess, PG block mess, Mega Hostel Mess and Non-Veg messes are managed by the contractors.
Reading Room Committee
Reading room in the Hostel is provided with books and periodicals of different languages. A separate section of the reading Room has been functioning in V Block hostel. This section is managed by a separate elected students committee. The reading room committee organized CRRESCNDO 2015 during March 20-22, 2015 in a grand manner.

Recreation Committee
The Recreation Committee constituted by election, looks after the sports activities of the residents of the hostels and provides indoor game facilities. The recreation committee organized flood light cricket, basket ball and foot ball tournaments during February-March 2015. Overall Reading Room and Recreation committee have done their job in a commendable manner. The Cable TV facility existing in the campus has been extended to all the hostels. All the Hostel Rooms (Boys and Girls) have connected with Internet facilities. During the year under report, Medical Relief to the tune of Rs.26523/- has been sanctioned to students of the hostel blocks as per the recommendation of the Block Warden and Institute Resident Medical Officers, for their hospitalization in nearby Surathkal/Mangalore hospitals for treatment. This amount is met out of the fund created under “Self Sustaining Medicare Scheme” which is created by collecting Rs.35/- per student per semester.

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

Prof. Narendranath S. is working as a Professor in-charge Hostel Affairs NITK Hostels. Presently, the following faculty members are rendering their services as wardens in different Hostel Blocks as mentioned against their names:

- Narendranath S., Ph.D. - Professor in-charge Hostel Affairs
- Sri. Vasudeva M. - Warden (Finance)
- Basavaraju Manu, Ph.D. - Warden, I Hostel Block
- M.N. Satyanarayan, Ph.D. - Warden, II Hostel Block
- C. Rajasekaran, Ph.D. - Warden, III Hostel Block
- Jaidhar C. D., Ph.D. - Warden, IV Hostel Block
- Paresh Chandra Deka, Ph.D. - Warden, V Hostel Block
- Biju R. Mohan, Ph.D. - Warden, PG Hostel Block
- Patipati Srihari, Ph.D. - Warden, VII Hostel Block
- P Sam Johnson, Ph.D. - Warden, VIII Hostel Block
- Debashisha Jena, Ph.D. - Warden, Mega Hostel Tower II
- Shashidhar G Koolagudi, Ph.D. - Warden, Mega Hostel Tower II
- Ramprasad Choudhary, Ph.D. - Warden, Mega Hostel Tower III
- Shashibhushan Arya, Ph.D. - Warden, Mega Hostel Tower III
- Jagadeeshababu P.E., Ph.D. - Warden, Mega Hostel Tower I
- Dattatraya Narayan Gaonkar, Ph.D. - Warden, Mega Hostel Tower I
- Bijuna C. Mohan, Ph.D. - Warden, Girls Hostel I, II, III Block
- C.P. Devatha, Ph.D. - Warden, Girls Hostel IV Block

Prof. Swapan Bhattacharya, Director is Ex-officio President of NITKS Hostels. He being the President for hostels will be giving guidance to the Council of Wardens time to time for the smooth administration and function of the hostel activities.
During the year under report, students, staff and all concerned with hostel administration co-operated excellently so that the year under report was smooth and incident free.

**11.2 CENTRAL COMPUTER CENTRE**

CCC provides the campus backbone services with about 20 kms of 12 core OFC using 1 Gbps and 10 Gbps backbone to the different buildings and broadband to the residences. The data centre acts as an integration hub of OFC/backbone. It houses the 155 Mbps Internet connection to BSNL, the Gbps link to the National Knowledge Network (Internet bandwidth about 330 Mbps), associated networking equipments and sufficient hardware to handle the critical backbone network services. Additional bandwidth is recommended. Main servers are connected to the data centre network. Critical aerices are accessible from inside and outside the network. CCC Uses Blade servers with VMWare and the old servers are being migrated to the virtual platform. Departments, residences (through the broadband), directorate (and administrative net), guest houses, and hostels are individually connected to the core switch. At present, the hostel networks are integrated into the academic network of NITK sharing the Internet bandwidth of the Institute. The hostels have a total of 3000 nodes which will increase to approximately 5000 nodes. The academic LAN is about 2000 nodes at present. However, this is likely to go up once the new building are included.

**CCC LAN**

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

The ground floor hall is used for the first year computational practice laboratory and is available for other activities only after the lab-hours. The first floor hall is available for general purpose computing and browsing. The computers of CCC are used to support First year Computational Practice Labs, General Purpose Learning and Internet access, On-Line tests (training and placement) and various co-curricular and other student activities.

**Facility Management**

The network infrastructure facility management of NITK is outsources. Comprehensive on site AMC is available for the Network switches. There is a helpdesk number 0824-2473085. There is also a rate contract with the firm to facilitate any immediate heed of network alterations within a limit. Under system if the purchase cost is above Rs. One lakh.

**Power**

The facility has a 200 KVA Diesel generator that was established in 1994 and two 20KVA and one 15 KVA online UPS systems procured later for providing backup power during the changeover. Two 15 KVA UPS systems provide the power backup to the CCC LAN. The 33 KV electrical substation established recently has increased the power availability significantly resulting in better availability of campus LAN.

**CCC’s Goals**

1. To render 24× computer and network services reliably
2. To reduce the wastage of Internet Bandwidth
3. To expand the Data Centre facilities.
4. To become the Nodal Centre of an integrated IT service platform for NITK that meets the user expectations.

11.3 LIBRARY

The Institute has a modern Central Library and continues to offer automated library services to its clientele. This Library functions as an important and vital component of the Institute information systems. Located centrally in the main building area of the Campus and it can accommodate more than 500 students/users at a time. The collection of books is 1,35,000 including Book-Bank books, online e-Books subscribes 413 print journals for all the disciplines. We have access to 8000 plus online Journals through INDEST. This year we have purchased 420 online full text journals from Taylor & Francis Database Vendors. The total area is 2758.56sq.meters including the extended floors as an additional space for reading hall.

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

GENESIS AND GROWTH:

NITK Central Library established in the year 1960 is provided with modern facilities and offers automated library services to its clientele comprising of about 6000 users namely undergraduate and postgraduate students, research scholars, faculty members and supporting staff of various departments of the institute. NITK library also gives the facility of institution membership to educational institutes and industries located in and around Mangalore. This Library is located in an independent building with a carpet area of 2759 sq meters in the centre of the Campus and it can accommodate more than 500 students/users at a time. At present, the library has a collection of around 1,35,000 books besides subscribing to around 413 National and International Print Journals.

INFRASTRUCTURE:

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

LIBRARY AUTOMATION PROGRAMME:

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

**ON-LINE SERVICES:**

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

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

c. Library is a member of NIT – Consortium. It subscribes full text resources of Science Direct, IEL online, Springer Verlag, ACM, ASTM Journals, Taylor & Francis and Royal Society of Chemistry, etc. e-journals.

**DIGITAL LIBRARY:**

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

**SOME OF THE SERVICES AVAILABLE IN THE DIGITAL LIBRARY ARE:**

- Collection and Development of Library materials in Digital Form.
- On-line search for books using on-line public access catalogue (OPAC).
- 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:

<table>
<thead>
<tr>
<th>User Types</th>
<th>Items</th>
<th>Period of loan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching Faculty</td>
<td>15 books</td>
<td>1 semester</td>
</tr>
<tr>
<td>Research Scholars</td>
<td>5 books</td>
<td>1 semester</td>
</tr>
<tr>
<td>UG/PG students</td>
<td>6 books</td>
<td>30 days</td>
</tr>
<tr>
<td>Supporting Staff</td>
<td>4 books</td>
<td>30 days</td>
</tr>
<tr>
<td>Industries</td>
<td>5 books</td>
<td>30 days</td>
</tr>
</tbody>
</table>

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.

Publications:

**Conference**

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Title of Paper</th>
<th>Conference Name, Place, Dates, Page Number</th>
<th>Author(s)</th>
</tr>
</thead>
</table>

11.4 LABORATORIES

Department of Applied Mechanics And Hydraulics

<table>
<thead>
<tr>
<th>Name of the lab.</th>
<th>Major equipments/facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydraulics Laboratory</td>
<td>Flow Measuring Units, Pumps, Water meters, Calibration Devices, Hydraulic Machines, Pressure Gauges, Valves, Tilting flume, Pipe bursting unit, Ultrasound flow meter, Basic Hydrology Unit</td>
</tr>
<tr>
<td>Strength of Materials Laboratory</td>
<td>U.T.M 5 T, 40 T, 100 T, 200 T (Electronic), Hardness Testing M/c, Torsion Testing M/c</td>
</tr>
</tbody>
</table>
### Marine – Geotechnical Laboratory
- Triaxial Apparatus
- Marine Soil Investigation
- Consolidation Apparatus
- Direct Shear Apparatus
- Photo Elastic Bench
- Corrosion Measurement Voltage system

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

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

### Remote Sensing & GIS Laboratory
- Computer systems : 20 No.s
- Printer, scanner
- Procom –II
- Stereoscopes
- Ground truth Radiometer
- Digital Planimeters
- Aerial & Satellite Photographs
- ARCPAD GPS
- Softwares : ERDAS- Imagine, PC ARCINFO Master Lab. Kit, Geomedia Professional.
- Distance measurement equipment

### Computer Laboratory
- Computer systems : 15 No.s
- Laser printer

---

**Department of Chemical Engineering**

<table>
<thead>
<tr>
<th>Name of Laboratory</th>
<th>Major Equipment/Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Reaction Engineering &amp; Process Control &amp; Simulation Laboratory</td>
<td>High Pressure high temperature gas liquid phase reactor</td>
</tr>
<tr>
<td>Lab Type</td>
<td>Equipment and Instruments</td>
</tr>
<tr>
<td>----------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>Particulate Technology lab.</td>
<td>P.M 2.5 /10 Micron Fine Dust sampler, Quartz Emersion reactor, Air pre heater, Nitrate Analyser, Bench top Fermentor, Peristaltic pump with digital Display, Eddy Current Drive with Brake, Ozone Analyser, pyrolysis Plant, Stirred Cell Membrane Unit</td>
</tr>
<tr>
<td>Momentum Transfer Lab</td>
<td>Micro Wave Ashing System, 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</td>
</tr>
<tr>
<td>Testing and consultancy/Technical analysis Lab</td>
<td>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 &amp; Control panel Zero air, H2, He &amp; N2, Air compressor, Respirable dust sampler, PM 2.5 analyser, Bench top Fermentor, Micro balance 5g, Rotary shaker – Lead, Refrigerated High Speed Centrifuge, Fume gas analyser, Incubating Orbital Shaker, DO Meter, Ultra Sonic Water Bath, Digital Microscope</td>
</tr>
<tr>
<td>Advance Instrumentation Lab</td>
<td>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 &amp; DO Transmitter, CO2 Incubator, Water purification ultra sys, Deep freezer, Microwave Digestion unit, Lyophilizer, Gel Electrophoresis, Gel Documentation, Bioreactors (3 ltr., 5 ltr. &amp; 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 Spectrophotometer, Ion Chromatography; Horizontal laminar flow work station; Membrane Testing system; Distillation Unit; Incubating Orbital Shaker</td>
</tr>
<tr>
<td>Industrial Biotechnology Lab</td>
<td>Biosafety Cabinet, CO2 Incubator, Incubator - Electronic orbitek LT, Incubator - Electronic orbitek Refrigerated LE, Microwave Oven, Laboratory Centrifuge, Infra -red TN Turbitity Meter, Autoclave (vertical), Micro controlled Spectrophotometer, UV VIS Spectrometer, Cryostat bath, Deep freezer</td>
</tr>
<tr>
<td>Environmental Immunology Laboratory</td>
<td>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</td>
</tr>
<tr>
<td>Project/Research lab.</td>
<td>RTC Basic Magnetic Stirrer, Eppendorf Centrifuge, Refrigerated Centrifuge, Refrigerated Heating Bath Circulator, Homogenizer, Digital Refractometer, Surface Tension analyser, Temperature Controlled controlled digital density meter, High Speed Refrigerated</td>
</tr>
</tbody>
</table>
Centrifuge, Muffle furnace, Static Mixture, Bacterial incubator. Horizontal laminar flow work station, Dry Bath with Heating BlockMembrane Testing system, Rotary shaker –Lead, Distillation Unit, Micro centrifuge Spinwin MC-02, Incubating Orbital Shaker 2 Nos,, Biological safety Cabinet, Rotating Disc Counter, ELCD Detector, Digital Viscometer, 6 stage Microbial Impactor, Eppendrof Centrifuge, Dosing pump with Pump head

<table>
<thead>
<tr>
<th>Fermentation lab.</th>
<th>Table top high speed cooling centrifuge,</th>
</tr>
</thead>
</table>

**Department of Civil Engineering**

<table>
<thead>
<tr>
<th>Name of Laboratory</th>
<th>Major Equipment/Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Civil Engineering Material Testing Laboratory</td>
<td>3000 kN Compression Testing Machine&lt;br&gt;Vee-Bee Test Apparatus, Rebound Hammer, Los Angeles Testing Machine</td>
</tr>
<tr>
<td>Earthquake Engineering Laboratory</td>
<td>Mini Shake Table, Accelerometers, Models of Beams &amp; Buildings, Soil-Structure Interaction Study system. Computational facility for seismic response simulation and dynamic soil-structure interaction studies.</td>
</tr>
<tr>
<td>Environmental Engineering Laboratory</td>
<td>UV Spectro-photometer&lt;br&gt;Voltametry,&lt;br&gt;Gas Chromatograph&lt;br&gt;HPLC, Ion selective electrode meter, Kjeldahl nitrogen distillation apparatus, Flame Photometer.</td>
</tr>
<tr>
<td>Geotechnical Laboratory</td>
<td>Tri-axial loading facility, Rock cutting facility, Nuclear Density Gauge, Permeability Test apparatus.</td>
</tr>
<tr>
<td>Name of Laboratory</td>
<td>Major Equipment/Facilities</td>
</tr>
<tr>
<td>----------------------------------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Structures Laboratory</strong></td>
<td>In-situ Ion Migration Tester, Muffle Furnace, Flexural loading system., Compression Testing Machine, Loading Frames, RCPT Test Apparatus, Corrosion Monitoring Unit</td>
</tr>
<tr>
<td><strong>Survey Stores</strong></td>
<td>Total Station, Auto Levels, Theodolites, Dumpy Levels</td>
</tr>
</tbody>
</table>

**Department of Computer Engineering**

<table>
<thead>
<tr>
<th>Name of Laboratory</th>
<th>Major Equipment/Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core Computing Lab</strong></td>
<td>Brand: Dell Optiplex 9010DT, Intel Core-i7, 3770, 8GB DDR3 SDRAM, 500 GB SATA HDD, 18.5&quot; LCD TFT Monitor with Windows 7 /Ubuntu OS. Brand: Lenovo, Lenovo Thinkcentre, Intel Dual Core 3GHZ, 1GB RAM, 140 GB HDD, 17” TFT Monitor. OS: Windows XP/Ubuntu Linux, Number of Systems: 50(45+05) Used for conducting regular UG Lab classes.</td>
</tr>
<tr>
<td><strong>Software Engineering Lab</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Intel E-commerce &amp; Internet Technology Lab</strong></td>
<td>Brand: Dell Optiplex 9020MT, 4th 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 8.1 Professional OS, Number of Systems: 13, Used for conducting regular UG Lab classes.</td>
</tr>
<tr>
<td><strong>Research Lab</strong></td>
<td>Brand: Dell, Optiplex 9010DT, Intel Core-i7, 3770, 8GB DDR3 SDRAM, 500 GB SATA HDD, 18.5” LCD TFT Monitor with Windows 7 /Ubuntu OS, Number of Systems: 05, Ph.D. /Research Work</td>
</tr>
<tr>
<td>Name of Laboratory</td>
<td>Major Equipment/Facilities</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Cloud Computing Lab</td>
<td>Brand: Dell, Optiplex 9010DT, Intel Core-i7, 3770, 8GB DDR3 SDRAM, 500 GB SATA HDD, 18.5” LCD TFT Monitor with Windows 7/Ubuntu OS. Brand: Dell Precision T1650, Intel Core-i7-3770, 3.9 GHz , 8GB DDR3 RAM, NVIDIA Quadro 2000 graphics with 192 CUDA Core, 19” Wide LCD TFT Monitor with Windows 7 Professional/Ubuntu OS, Number of Systems: 15 (12+3), Used for Ph.D./ Research Work.</td>
</tr>
<tr>
<td>Distributed Computing Lab</td>
<td>Brand: Dell Optiplex 9010DT, Intel Core-i7, 3770, 8GB DDR3 SDRAM, 500 GB SATA HDD, 18.5” LCD TFT Monitor with Windows 7/Ubuntu OS, Number of Systems: 05, Used for PhD/Research Work</td>
</tr>
<tr>
<td>Secure Software Systems Lab</td>
<td>Brand: Lenovo Thinkcentre M90, Intel core-i7, 870 2.93GHZ, 4C/8T, 8GB DDR3 RAM, 1TB SATA HDD, 18.5” TFT Monitor, OS: Windows 7 professional/Ubuntu OS. Brand: Lenovo Lenovo Thinkcentre M90, Intel core-i7, 870 2.93GHZ, 4C/8T, 4GB DDR3 RAM, 500 GB SATA HDD, 18.5” TFT Monitor, OS: Windows 7 professional/Ubuntu OS, Number of Systems: 53(30+23). Used for First year M.Tech (CSE, CSE-IS) students.</td>
</tr>
<tr>
<td>Information Security Lab</td>
<td>Brand: Dell Optiplex 9010DT, Intel Core-i7, 3770, 3.4 Ghz, 8GB DDR3 SDRAM, 500 GB SATA HDD, 18.5” LCD TFT Monitor with Windows 7/Ubuntu OS, Number of Systems: 25, Used for second year M.Tech.(IS) Project students.</td>
</tr>
<tr>
<td>PG Project Lab -1</td>
<td>Brand: Dell Optiplex 9010DT, Intel Core-i7, 3770, 8GB DDR3 SDRAM, 500 GB SATA HDD, 18.5” LCD TFT Monitor with Windows 7/Ubuntu OS, Number of Systems: 25. Used for second year M.Tech. (CSE) Project Work.</td>
</tr>
<tr>
<td>PG Project Lab -II</td>
<td>Brand: Acer, Intel Core i5 750, 8MB L2 Cache, 4GB RAM, 500 GB SATA HDD, 19” wide TFT monitor with Windows 7 Professional, Number of Systems: 20, Used for conducting regular UG Lab classes. Number of Systems: 10. Used for second year M.Tech.(CSE) Project Work.</td>
</tr>
<tr>
<td>Digital Electronics Lab</td>
<td>Digital IC Trainer Kit, Digital IC Tester and other accessories for UG hardware lab class.</td>
</tr>
<tr>
<td>Data Centre/IBM Open Power Lab</td>
<td>SERVER CLASS SYSTEMS (Total Servers: 09)</td>
</tr>
<tr>
<td>Name of Laboratory</td>
<td>Major Equipment/Facilities</td>
</tr>
<tr>
<td>--------------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>Brand: DELL Power Edge T630 - 3 No.(s)</td>
<td>Hexa Core Intel Xeon E5-2620 v3 processor based Tower server, 15 MB cache, 64 GB DDR4 RDIMM RAM, 1.2 TB X 4=4.8TB HDD SAS RAID5 with 512MB cache, DVD RW, 2 redundant 750W power supply with hot swap, 4X1 GbE with Ubuntu 14.10 Server Edition</td>
</tr>
<tr>
<td>Brand: DELL Power Edge T720 - 1 No.(s)</td>
<td>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.</td>
</tr>
<tr>
<td>Brand DELL Power Edge T710, - 1 No.(s)</td>
<td>6 Core Intel Xeon E5645 2.40 Ghz dual processor, 12 MB L3 cache, 24 GB DDR3 RAM, 3.0 TB hot swap SAS HDDs, Integrated RAID, DVD RW, Integrated dual gigabit Ethernet with Red Hat 6.0 Enterprise AE.</td>
</tr>
<tr>
<td>Brand IBM Xeon Server - 1 No.(s)</td>
<td>IBM Intel Xeon 236 series, 3.6 GHz, Dual Processors, 4 GB RAM, (300x2) 600 GB SCSI HDD, DVD Re-writer with REID control and other Server Management Kit Dual port GbE Ethernet controller with Ubuntu 12.10 Server Edition</td>
</tr>
<tr>
<td>Brand IBM Xeon Server - 1 No.(s)</td>
<td>IBM Intel Xeon 236 series, 3.6 GHz Dual Processors, 2GB RAM, (140x2) 280 GB SCSI HDD, DVD Re-writer, Dual port GbE Ethernet controller with Windows 2003 Server Edition.</td>
</tr>
<tr>
<td>IBM OPEN POWER SERVER(No. of Power Servers: 02)</td>
<td>- IBM p-Series Server Model 9131/52A – Hardware Management Console with 2 High end Power Pc’s. Each</td>
</tr>
</tbody>
</table>
Department of Chemistry

<table>
<thead>
<tr>
<th>Name of Laboratory</th>
<th>Major Equipment/Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Membrane technology</td>
<td>Membrane casting, salt rejection equipment, Rotavapor etc.</td>
</tr>
</tbody>
</table>

Department of Electrical and Electronics Engineering

<table>
<thead>
<tr>
<th>Name of Laboratory</th>
<th>Major Equipment/Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>High voltage testing laboratory</td>
<td>100kV impulse generator, HV standard capacitor, 5kV Insulation tester, Oil test kit</td>
</tr>
<tr>
<td>Electric Machines and Drives laboratory</td>
<td>DSP Based drive control units V/F controls, Machine Design software (Speed, Motorpro), Field analysis software (MAXWELL 3DFS Rexroth INDRAMAT drive unit with AC servo motors)</td>
</tr>
<tr>
<td>Power Electronics Laboratory</td>
<td>DSPACE – Rapid prototyping unit, Converter / Inverter modules, Power Device (SCR, IGBT, GTO) modules</td>
</tr>
<tr>
<td>Power system Dynamics lab</td>
<td>RMEXPERT, SKM POWER TOOLS, POWERWORLD, EMTDC PSCAD, MATLAB, MATHCAD, 70 Work station grade computers</td>
</tr>
<tr>
<td>Virtual Instrumentation lab</td>
<td>NIDAQ systems, PXI1010 units with High Voltage measurement unit, NI-ELVIS Stations, LABVIEW software, dSPACE 32xx rapid prototyping platform</td>
</tr>
<tr>
<td>Embedded systems lab</td>
<td>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</td>
</tr>
<tr>
<td>Industrial Automation lab</td>
<td>Distributed Control Systems [YOKOGAWA CS1000], PLC ROCKWELL RSLOGIX5000, ABB RTU232.</td>
</tr>
<tr>
<td>Microgrid Laboratory</td>
<td>10 Kw wind solar hybrid system (2 wind turbines of 3.2 Kw each and 3.6 kw photovoltaic system) capable of operating in grid connected and islanding mode of operation with charge controllers and Inverter. 1.2 kW Fuel cell based experimental system</td>
</tr>
<tr>
<td>Analog Electronics Laboratory</td>
<td>Comprises of trainer kit based systems to understand linear and nonlinear configuration of Operational amplifier (IC 741) and Timer (IC 555) based circuits.</td>
</tr>
<tr>
<td>Digital Electronics Laboratory</td>
<td>Comprises of trainer kit based systems to understand functioning of basic and universal logic gates, Combinational circuits and Sequential circuits.</td>
</tr>
</tbody>
</table>
### Department of Electronics And Communication Engineering

<table>
<thead>
<tr>
<th>Name of Laboratory</th>
<th>Major Equipment/Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analog Electronics Lab</td>
<td>Digital Storage Oscilloscope</td>
</tr>
<tr>
<td></td>
<td>Function Generator</td>
</tr>
<tr>
<td></td>
<td>DC Regulated Power Supply</td>
</tr>
<tr>
<td></td>
<td>Analog/Digital IC Tester</td>
</tr>
<tr>
<td>Digital Electronics Lab</td>
<td>Logic Analyzer benchtop 34 Channel</td>
</tr>
<tr>
<td></td>
<td>Digital Trainer</td>
</tr>
<tr>
<td></td>
<td>Analog/Digital IC Tester</td>
</tr>
<tr>
<td>Integrated Electronics Lab (Research Lab for Ph. D. Students)</td>
<td>Dell Workstations</td>
</tr>
<tr>
<td></td>
<td>Access to all design tools in the other labs</td>
</tr>
<tr>
<td>Communication Lab</td>
<td>Digital Storage Oscilloscope</td>
</tr>
<tr>
<td></td>
<td>Function Generator</td>
</tr>
<tr>
<td></td>
<td>DC Regulated Power Supply</td>
</tr>
<tr>
<td></td>
<td>Microwave X band benches</td>
</tr>
<tr>
<td></td>
<td>Antenna Trainer</td>
</tr>
<tr>
<td></td>
<td>Outdoor FSO Link Setup (Lightpoint)</td>
</tr>
<tr>
<td></td>
<td>Wireless Comm Trainer Kits (2 set ups)</td>
</tr>
<tr>
<td></td>
<td>Workstations</td>
</tr>
<tr>
<td></td>
<td>LD Driver, LD Module, PD Module</td>
</tr>
<tr>
<td></td>
<td>Power Meter</td>
</tr>
<tr>
<td></td>
<td>Fibre Optic Power Source</td>
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<tr>
<td></td>
<td>Optical Fibre Trainer</td>
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<tr>
<td></td>
<td>LD Modulator (Transmitter)</td>
</tr>
<tr>
<td></td>
<td>FORX-200m(Receiver)</td>
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<tr>
<td></td>
<td>Fiber Optics Kits</td>
</tr>
<tr>
<td></td>
<td>Wireless Sensor Network Professional Kit with Tools</td>
</tr>
<tr>
<td></td>
<td>Qualnet Network Simulator</td>
</tr>
<tr>
<td></td>
<td>Qualnet Network Simulator Tools</td>
</tr>
<tr>
<td></td>
<td>Wireless digital communication training system (Wi-Communication-T), Outdoor free space optic (FSO) link.</td>
</tr>
<tr>
<td>RF Communication Lab</td>
<td><strong>RF Equipments:</strong></td>
</tr>
<tr>
<td></td>
<td>3GHz Spectrum Analyzer</td>
</tr>
<tr>
<td></td>
<td>RF Training Kit</td>
</tr>
</tbody>
</table>

**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.
<table>
<thead>
<tr>
<th>Name of Laboratory</th>
<th>Major Equipment/Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language lab</td>
<td>Software and 15 computers</td>
</tr>
<tr>
<td>VLSI Lab</td>
<td>Dell Precision T1500 &amp; T1600 with Intel core I7-870 Workstations</td>
</tr>
<tr>
<td></td>
<td>File Server</td>
</tr>
<tr>
<td></td>
<td>Cadence Design suite,</td>
</tr>
<tr>
<td></td>
<td>Synopsys EDA Tools</td>
</tr>
<tr>
<td></td>
<td>Mentor Graphics Tools</td>
</tr>
<tr>
<td></td>
<td>Xilinx Tools</td>
</tr>
<tr>
<td></td>
<td>Tanner Tools</td>
</tr>
<tr>
<td>DSP Lab</td>
<td>Dell Optiplex 9020 with Intel core I7-4790 CPU @ 3.60GHz Workstations</td>
</tr>
<tr>
<td></td>
<td>Matlab, Simulink, Mathematica</td>
</tr>
<tr>
<td></td>
<td>DSP development boards – TI &amp; AD, fixed and floating bit based</td>
</tr>
<tr>
<td></td>
<td>DSP Code development tools – TI &amp; AD</td>
</tr>
<tr>
<td></td>
<td>Mentor Graphics FPGA Advantage tools</td>
</tr>
<tr>
<td></td>
<td>FPGA development boards – Xilinx &amp; Altera</td>
</tr>
<tr>
<td></td>
<td>FPGA based development tools for system design – Xilinx &amp; Altera</td>
</tr>
<tr>
<td></td>
<td>Stretch S55DB30 Development Board &amp; AVM20 Audio Visual Module, Stretch Code Development Tools</td>
</tr>
<tr>
<td></td>
<td>Video Evaluation Boards</td>
</tr>
<tr>
<td></td>
<td>Lab View</td>
</tr>
<tr>
<td>Microprocessor &amp; Embedded Systems Lab</td>
<td>Cadance ORCAD PSPICE A/D, PCB design tools</td>
</tr>
<tr>
<td></td>
<td>Matlab, Simulink, ARM based code development tools</td>
</tr>
<tr>
<td>Network Management Lab</td>
<td>Foundry N/w's Fastiron Edge X424</td>
</tr>
<tr>
<td>R&amp;D Lab (Research Lab for MTech)</td>
<td>Dell Precision T1500 with Intel core I7-870 Workstations</td>
</tr>
<tr>
<td></td>
<td>Access to all design tools in the other labs</td>
</tr>
<tr>
<td>Centre for Excellence for Wireless Sensor Networks</td>
<td>Work stations, WSN Design kits, Qualnet SW, NETSIM SW, Sensors</td>
</tr>
</tbody>
</table>

**Department of Humanities, Social Sciences and Management**

<table>
<thead>
<tr>
<th>Name of Laboratory</th>
<th>Major Equipment/Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language lab</td>
<td>Software and 15 computers</td>
</tr>
</tbody>
</table>
## Department of Information Technology

<table>
<thead>
<tr>
<th>Name of Laboratory</th>
<th>Major Equipment/Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital Design Lab – I</td>
<td>DIGITAL IC TRAINER&lt;br&gt;Model - UDT 4004-20&lt;br&gt;DIGITAL IC TESTER&lt;br&gt;MME-DIT 2040-1</td>
</tr>
<tr>
<td>Digital Design Lab – II</td>
<td>DIGITAL IC TRAINER&lt;br&gt;Model – ML 555T-20&lt;br&gt;DIGITAL IC TESTER&lt;br&gt;MME-DIT 2040-1</td>
</tr>
<tr>
<td>Research Laboratory</td>
<td>Desktop:&lt;br&gt;HP Compaq 8200 Elite MT PC-3&lt;br&gt;HP Compaq 8300 Elite MT PC -4&lt;br&gt;HP Compaq dc 7900 Convertible Minitower -3&lt;br&gt;Dell 9010 DT-26761536 optiplex M-1&lt;br&gt;Workstation:&lt;br&gt;HP Z800 Workstation SGH030TDHR (GPU Computing Server)-1&lt;br&gt;HP xw4400 workstation-2&lt;br&gt;<strong>Servers:</strong>&lt;br&gt;8841 45A IBM e server x236(99KYD74)-1&lt;br&gt;HP ProLiant ML570 G4 7120M 3.0GHz Tower Server-1&lt;br&gt;DL160 G6 E5504 HOT PL UG SERVER -1&lt;br&gt;AH234 A HP RX2660 SERVER (intergrity server)-1&lt;br&gt;Brand Connoi Mode Ntpsc T7025 Fermi-1&lt;br&gt;HP SR 638181-371 ML-350 E5645 SFF/6/GB SERVER-1&lt;br&gt;Server Dell Power Edge R420 (Batch - 3L22HY1, 4K22HY1)N-Computing L-300 0 client Access-2&lt;br&gt;IBM P Series P270 8202 4EC SERVER-1</td>
</tr>
<tr>
<td>Internet Technology Laboratory</td>
<td>Desktop:&lt;br&gt;HP Compaq dx 2700 MT PC-4&lt;br&gt;IBM Think centre/IBM Net vista-5&lt;br&gt;Dell Optiplex 755-1&lt;br&gt;IBM Thinkcenter (IBM, 8116A11 )-5&lt;br&gt;HP Compaq dc 7900 Convertible Minitower -1&lt;br&gt;<strong>Workstations:</strong>&lt;br&gt;HP xw4400 workstation-3</td>
</tr>
<tr>
<td>Virtualization Lab</td>
<td>N Computing L300 Clients -20</td>
</tr>
<tr>
<td>Post Graduate Lab – I</td>
<td>Desktop:&lt;br&gt;HP Compaq 8100 Elite MT PC-29&lt;br&gt;HP Compaq 8200 Elite MT PC-1&lt;br&gt;<strong>Cameras:</strong>&lt;br&gt;Serveillance Setup&lt;br&gt;Dlink DCS 2103 CAMERADCS 2103-2</td>
</tr>
<tr>
<td>Post Graduate Lab – II</td>
<td>Desktop:&lt;br&gt;HP Compaq 8200 Elite MT PC-26&lt;br&gt;HP Compaq 8100 Elite MT PC-1&lt;br&gt;HP Compaq 8300 Elite MT PC -1&lt;br&gt;<strong>Cameras:</strong>&lt;br&gt;Serveillance Setup</td>
</tr>
<tr>
<td>Department of Mathematical And Computational Sciences</td>
<td></td>
</tr>
<tr>
<td>---------------------------------</td>
<td></td>
</tr>
<tr>
<td><strong>Name of Laboratory</strong></td>
<td><strong>Major Equipment/Facilities</strong></td>
</tr>
<tr>
<td>MACS Lab</td>
<td>285 P.C.s</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Department of Mechanical Engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Name of Laboratory</strong></td>
</tr>
<tr>
<td>Metrology Lab</td>
</tr>
<tr>
<td>Engines Lab</td>
</tr>
<tr>
<td>Dynamics Lab</td>
</tr>
<tr>
<td>Fuels Lab</td>
</tr>
<tr>
<td>Refrigeration and Air-conditioning Lab</td>
</tr>
<tr>
<td>CAD Lab</td>
</tr>
<tr>
<td>Mechatronics Lab</td>
</tr>
<tr>
<td>Micro systems Lab</td>
</tr>
<tr>
<td>Automotive Electronics Lab</td>
</tr>
<tr>
<td>Heat transfer Lab</td>
</tr>
<tr>
<td>Material Characterization Lab</td>
</tr>
<tr>
<td>Thermal Simulation Lab</td>
</tr>
</tbody>
</table>
### 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

<table>
<thead>
<tr>
<th>Name of Laboratory</th>
<th>Major Equipment/Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Rock Mechanics Laboratory</td>
<td>Rock cutting machine&lt;br&gt;Compression testing machine&lt;br&gt;Schimidt hammer&lt;br&gt;Digital inclinometer&lt;br&gt;Core drilling machine&lt;br&gt;Other rock cutting facilities&lt;br&gt;Ground Penetration Radar (GPR)&lt;br&gt;Related Software (Fraglyst, Sirrovision and numerical modeling software)</td>
</tr>
<tr>
<td>2. Drilling and Blasting Laboratory</td>
<td>Minimates&lt;br&gt;Minimate plus&lt;br&gt;High speed video camera&lt;br&gt;VOD monitor&lt;br&gt;Laser profile, WIPFRAG software&lt;br&gt;Jack hammer drilling set-up&lt;br&gt;Air compressor</td>
</tr>
<tr>
<td>3. Mine Environmental Engineering Laboratory</td>
<td>Modified lathe machine for rock cutting&lt;br&gt;Manometer, Crossing point temperature, Digital Methanometer, CO detector, Psychomotor and etc.&lt;br&gt;Water pollution monitoring kit&lt;br&gt;Respirable dust sampler&lt;br&gt;Sound level meter,&lt;br&gt;Gas testing set up&lt;br&gt;Exhaust gas analyzer&lt;br&gt;Multi gas detector&lt;br&gt;Automatic weather monitoring system&lt;br&gt;Personal &amp; Heat stress monitoring Equipment&lt;br&gt;Self-Contained breathing apparatus.&lt;br&gt;Human vibration measuring apparatus&lt;br&gt;Digital millivolt meter&lt;br&gt;Machine vibration measuring apparatus&lt;br&gt;Larson &amp; Davis noise dose meter</td>
</tr>
<tr>
<td>4. Mineral Processing Laboratory</td>
<td>Jaw Crusher&lt;br&gt;Roller Crusher&lt;br&gt;Ball Mill&lt;br&gt;Rod Mill&lt;br&gt;Bond’ Work Index Setup</td>
</tr>
</tbody>
</table>
### 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
- Surpac Mine Planning Software
- Reliability software
- Sirovision software
- J K Sim blast software
- Merc SQ118 water quality analyzer
- High volume air sampler
- Respirable dust sampler
- Sound level meter
- Opacity meter
- Point sampler
- Beta attenuation meter
- Weather monitoring station

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

---

**Department of Metallurgical And Materials Engineering**

<table>
<thead>
<tr>
<th>Name of Laboratory</th>
<th>Major Equipment/Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extractive Metallurgy Lab</td>
<td>Crushers, Ball mill, Floatation cells, C&amp;S analyzer, Sieve analyzer</td>
</tr>
<tr>
<td>Name of Laboratory</td>
<td>Major Equipment/Facilities</td>
</tr>
<tr>
<td>----------------------------------------</td>
<td>-----------------------------------------------------------------</td>
</tr>
<tr>
<td>Testing of materials lab</td>
<td>UTM, Intron, Wear testing machine, Hardness testers, NDT, Fatigue testing machine</td>
</tr>
<tr>
<td>Physical Metallurgy Lab</td>
<td>Metallography, Microhardness, X-Ray Diffractometer, Image Analyser, Dilatometer</td>
</tr>
<tr>
<td>Ceramics &amp; Polymer Lab</td>
<td>UTM, Extruder, Mechanical simulator, Tg determinator, Viscometer, Electro spinning equipment</td>
</tr>
<tr>
<td>Heat treatment lab</td>
<td>Heat treatment furnaces, Thermal cycle furnaces</td>
</tr>
<tr>
<td>Metal finishing lab</td>
<td>Plating facilities</td>
</tr>
<tr>
<td>Foundry lab</td>
<td>Induction furnace, Permeability meter</td>
</tr>
<tr>
<td>Scanning Electron Micoscope Lab</td>
<td>Scanning Electron Microscope with EDAX</td>
</tr>
<tr>
<td>Casting Research Lab</td>
<td>Data logger, Hot stage microscope, Contact Angle Analyser, Image analyzer, Intron tensile tester, Quenchometer, Stereo microscope, 2D Surface Profiler, Solid Cast Software, Ultrasonicator, Ultrasound velocity meter, Thermal property analyser, DAGE bond etser</td>
</tr>
<tr>
<td>Powder Metallurgy &amp; Nano technology Lab</td>
<td>Particle size analyzer, Programmable furnaces, High energy planetary ball mill, Sintering furnaces</td>
</tr>
<tr>
<td>Transmission Electron Micoscope Lab</td>
<td>Transmission electron microscope, GATAN ion milling unit.</td>
</tr>
<tr>
<td>Metal Processing Lab</td>
<td>Rolling mill, Precision cutting machines, 250 ton Hydraulic press</td>
</tr>
<tr>
<td>Corrosion Lab</td>
<td>Potentiostat and Impedance analyser</td>
</tr>
<tr>
<td>Coating lab</td>
<td>PVD facility, electron beam deposition set up, DC sputtering setup</td>
</tr>
</tbody>
</table>

**Department of Physics**

<table>
<thead>
<tr>
<th>Name of Laboratory</th>
<th>Major Equipment/Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>UG Laboratory</td>
<td>Experimental Kits (8 expt.s of 5 sets each)</td>
</tr>
<tr>
<td>PG Laboratory I</td>
<td>Experimental Kits (7 expt.s of 2 sets each)</td>
</tr>
<tr>
<td>PG Laboratory II</td>
<td>Experimental Kits (7 expt.s)</td>
</tr>
<tr>
<td></td>
<td>Vacuum Coating Unit (2 no.s)</td>
</tr>
<tr>
<td>Research Laboratories:</td>
<td></td>
</tr>
<tr>
<td>Thin Film Laboratory</td>
<td>XRD</td>
</tr>
<tr>
<td></td>
<td>Keithley Source Meter</td>
</tr>
<tr>
<td></td>
<td>Keithley Multimeter</td>
</tr>
<tr>
<td></td>
<td>Sputtering Unit</td>
</tr>
<tr>
<td></td>
<td>Physical Deposition Unit</td>
</tr>
<tr>
<td></td>
<td>Spray Pyrolysis Unit</td>
</tr>
<tr>
<td></td>
<td>LCR Meter</td>
</tr>
<tr>
<td>Laboratory</td>
<td>Equipment and Instruments</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Ptoelectronics Laboratory</td>
<td>- Optics Inc SD2000 spectrometer (UV vis spectra)</td>
</tr>
<tr>
<td></td>
<td>- Lux meter (Lutron)</td>
</tr>
<tr>
<td></td>
<td>- UVC Ozone Cleaning Unit</td>
</tr>
<tr>
<td></td>
<td>- Thermal evaporator</td>
</tr>
<tr>
<td></td>
<td>- Clean air flow bench</td>
</tr>
<tr>
<td></td>
<td>- OLED measurement system</td>
</tr>
<tr>
<td></td>
<td>- Keithley Sourcemeter (model 2400).</td>
</tr>
<tr>
<td></td>
<td>- Jobin Yvon spectrometer with a CCD based detector or a silicon photodiode (SM1PD2A Mounted UV Enhanced)</td>
</tr>
<tr>
<td></td>
<td>- Optical power meter (Ophir Optronics, model NOVA II with PD300-UV detector)</td>
</tr>
<tr>
<td></td>
<td>- Keithley 6485 Picoammeter</td>
</tr>
<tr>
<td></td>
<td>- Tektronix DMM 4040 6-1/2 Digit Precision Multimeter</td>
</tr>
<tr>
<td></td>
<td>- Agilent 34972A LXI Data Acquisition/ Switch unit</td>
</tr>
<tr>
<td></td>
<td>- Multioutput DC power supply model LQ6324</td>
</tr>
<tr>
<td></td>
<td>- Agilent E4980A Precision LCR meter 20 Hz to 2 MHz</td>
</tr>
<tr>
<td></td>
<td>- Tektronix TDS 2002B Two channel Digital Storage Oscilloscope 60 MHz 1GS/s</td>
</tr>
<tr>
<td></td>
<td>- DH-3 UV-Vis-NIR Calibrated Light Source (Ocean Optics)</td>
</tr>
<tr>
<td></td>
<td>- RF Probe Station</td>
</tr>
<tr>
<td></td>
<td>- ISO BRUKER Precision Cutting Machine</td>
</tr>
<tr>
<td></td>
<td>- Q-switched Nd-YAG laser; Model GCR -170 from Spectra – Physics, USA.</td>
</tr>
<tr>
<td>Crystal Growth Laboratory &amp; Nano materials Laboratory</td>
<td>Solution growth system for crystal growth</td>
</tr>
<tr>
<td></td>
<td>- High temperature furnace</td>
</tr>
<tr>
<td></td>
<td>- Magnetron sputtering system</td>
</tr>
<tr>
<td></td>
<td>- Thin film coating unit</td>
</tr>
<tr>
<td></td>
<td>- Fume Head</td>
</tr>
<tr>
<td></td>
<td>- Vacuum deposition system-Thermal, DC, RF coating system</td>
</tr>
<tr>
<td>Material Processing Laboratory</td>
<td>CLEMEX Microhardness Tester</td>
</tr>
<tr>
<td></td>
<td>- Physical vapour deposition</td>
</tr>
<tr>
<td></td>
<td>- Polishing Machine</td>
</tr>
<tr>
<td></td>
<td>- Muffle furnace (Max Temp 1000°C)</td>
</tr>
<tr>
<td></td>
<td>- Low speed Diamond saw cutting Blade</td>
</tr>
<tr>
<td></td>
<td>- Abbe refractometer</td>
</tr>
<tr>
<td></td>
<td>- Analytical balance and Density kit</td>
</tr>
<tr>
<td></td>
<td>- High temperature furnace</td>
</tr>
<tr>
<td></td>
<td>- P H Meter</td>
</tr>
<tr>
<td></td>
<td>- U V Visible spectrometer</td>
</tr>
<tr>
<td></td>
<td>- Incubator, Ultra sonicator</td>
</tr>
</tbody>
</table>
### Materials Research Laboratory
- Electrochemical Workstation (Bio-Logic SP150) (2 Nos)
- Keithely Four probe system (Source meter)
- UV-Visible spectrometer (Ocean optics)
- Keithely multimeter
- Sputtering Unit
- RF power system
- Probe sonicator
- Spin coater
- Centrifuge
- Fume hood
- High temperature furnace
- Vacuum Oven
- Oven
- Precise temperature controllable stirrer
- Double distillation Unit

### Analytical Instruments laboratory
- Photoluminescence Spectrometer
- XRD

### Computational Physics Laboratory
- Dell server power edge

### 11.5 WORKSHOPS

#### Department of Applied Mechanics and Hydraulics

<table>
<thead>
<tr>
<th>Name of workshop</th>
<th>Major equipments/facilities</th>
</tr>
</thead>
</table>

#### Department of Chemical Engineering

<table>
<thead>
<tr>
<th>Name of Workshop</th>
<th>Major Equipment/Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Departmental workshop</td>
<td>Lathe, Drilling Machines, Welding machines, Buffing Machines, Grinders etc.</td>
</tr>
</tbody>
</table>

#### Department of Civil Engineering

<table>
<thead>
<tr>
<th>Name of Workshop</th>
<th>Major Equipment/Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Civil Engineering Department Workshop</td>
<td>A Lathe, A Shearing Machine, Electrically operated Power Saw, and Welding Transformer</td>
</tr>
</tbody>
</table>
Department of Electrical and Electronics Engineering

<table>
<thead>
<tr>
<th>Name of Workshop</th>
<th>Major Equipment/Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical Department Workshop</td>
<td>Lathe, drilling and welding machines along with work bench and other machine tool facilities</td>
</tr>
</tbody>
</table>

Department Of Mechanical Engineering

<table>
<thead>
<tr>
<th>Name of Workshop</th>
<th>Major Equipment/Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bosch power tools lab</td>
<td>Power hand tools</td>
</tr>
<tr>
<td>CNC lab</td>
<td>CNC machining centre, CNC turning centre</td>
</tr>
<tr>
<td>Rapid manufacturing lab</td>
<td>Rapid manufacturing machines</td>
</tr>
<tr>
<td>Machine shop</td>
<td>Milling machines, Centre lathes, Planer and Shapers</td>
</tr>
<tr>
<td>Workshop practice</td>
<td>Fitting, Carpentry, Welding</td>
</tr>
</tbody>
</table>

11.6 HOSPITAL, POST OFFICE, SHOPPING CENTRE

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

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

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

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

11.7 PHYSICAL EDUCATION FACILITIES

Dept. of Physical Education and Games

FACILITIES/AMENITIES:

Physical Education: Department of Physical Education and Sports of this Institute has got excellent Sports infrastructures and facilities provided here is considered as one of the best among all NITs as well as among other Institutions and Universities of this State. Separate, Standard, well maintained play fields for all major games like 400Mts. Track for Athletics, 75 Yards Boundary Cricket field with 3 playing pitches, 70 yards boundary Cricket field with a matting wicket, 2 standard size Football fields, 2 Hockey fields with 2 pairs of goalposts with boards, 2 concrete Basketball courts with FG boards and Flood Light facilities, 1 Basketball concrete court at Girls Hostel with flood lights, 2 Volleyball courts with flood light facility, 2 Ball Badminton, 2 Throwball, 2 Kho-Kho, 2 Kabaddi, 2 Tennikoit courts are available for use. Provision is also there to put one Handball court with goal posts and one Baseball field with all Bases and other required amenities. An indoor hall with 3 Badminton courts and 4 TT tables with proper Lighting system, kept open for 15 hours of the day for students use. Weight training hall with Multi Gym, Mini Gym, Individual stations for all sorts of exercises, Weight
Lifting and Power Lifting Barbell sets with standard synthetic Platform, Fitness equipments like Jogger Treadmills, steppers, Rowing Machines, Bicycle Ergometers, Peck Decks and Abdominal shapers is open for use of everybody even during early mornings and late evenings. Above all these, like a jewel on the Crown an international standard Swimming Pool of 50 x 21 Mts., 8 lane with anti wave lane markers, Olympic type take off boards and diving facilities with 3 Platforms of 1, 3 and 5 meters height as well as a Fiberglass Spring Board fixed at 1 Meter height is ready for use in this Institute.

Games & Sports facilities: All students, staffs and residents in and around the campus are freely permitted to utilize all Play ground and Gym facilities available in the Institute. Admission to Swimming Pool is free to all students of this Institute. Staffs, residents of the Campus, family members of the staff and staff + students of the campus schools are charged with nominal fee to use the Pool. High quality and standard Sports/Games equipments/articles are provided to students and staffs of this Institute who use these play field facilities, except some personal articles like Tennis, Shuttle Badminton and TT Rackets. Opportunity to all students, staffs and other residents of the campus have been provided to participate in different level of competitive Sports and Games, by organizing Inter-Class, Inter-Branch, Inter Year and Campus open tournaments(Competitions) in all most all games for both sections. Girls Block Hostel has been provided with a Basketball,

Volleyball, Tennikoit, Kho-Kho, and Badminton courts, 2 TT Tables, 4 Carom Boards and Gym with some fitness equipments including a Mini Gym. Arrangements have been made to provide TT Tables, Carrom Boards and a set of Cricket stumps and Bats to each Blocks of Boys Hostels. Volleyball, Throw ball and Badminton courts have been laid near Staff Recreation Club for the use of staff members. TT, carom and Chess like indoor games with required sports articles were also provided for staff club.

All those who get selected to represent the Institution and participate in any of the tournament will be provided with Institute Uniforms (Colors) and all expenditures during participation of that team will be met by the Institute. In addition, Football and Hockey team members will be provided with Stockings and Shin Guards, Cricket team members will be provided with white Pants, Shirts and a Cap. All students and Officials who participate in Inter NIT or University tournaments will be provided with Institute Track Suits. All students who represent this Institution in Sports and Games will be provided with Shoe subsidy of Rs.700-00 per year.

**SPECIAL INITIATIVES:**

**Enhancement of Infrastructural facilities:**

Construction work of Sports pavilion complex with provision for Fitness Gym, Squash courts, Table Tennis hall, Badminton Hall. Indoor games hall, Aerobic dance hall, Cricket pavilion, Athletic pavilion, Department office, Store room, Dressing/changing room for many outdoor games with locker facilities and required wash rooms, has been going on in full swing. Carpet has been fixed at new set up near mega towers Hostel block building. A pair of new mobile Basketball posts with transparent acrylic boards are in full use. Badminton Hall has been renovated with corrugated sheets, advanced lighting system for Badminton, carom and Table Tennis
11.8 STAFF QUARTERS

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

Type – III - one apartment comprising 28 units.

Type IV – one apartment comprising 28 units.

Type V - one apartment comprising 24 units.

Type VI - one apartment comprising 24 units.
12 STUDENT ACTIVITIES

STUDENTS UNION

Election to the Students' Union of the Institute was held on 11.4.2014 and the following office bearers were elected:

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

GAMES AND SPORTS

STUDENTS ACTIVITIES:

Games & Sports:

All students, staffs and community in and around the campus are free to use the playing, training and coaching facilities available in the DPES of this Institute. Staff of the DPES are ready to provide instruction, teaching, coaching and training facilities to all interested peoples in and around the campus. This year students teams in the following games were selected by conducting selection tournament/trials and these selected teams have been trained, coached and well prepared to participate in different level tournaments. 1) Athletics, 2) Aquatics, 3) Badminton, 4) Ball Badminton, 5) Basketball, 6) Carom, 7) Chess, 8) Cricket, 9) Football, 10) Handball, 11) Hockey, 12) Kabaddi, 13) Kho-Kho, 14) Table Tennis 15) Tennis, 16) Volleyball, and 17) Weight Lifting, Power Lifting and Best Physique in Boys section, 1) Athletics, 2) Aquatics, 3) Badminton, 4) Basketball 5) Tennis, 6) Table Tennis, 7) Throwball, and 8) Volleyball, in girls section. Special coaching camps are being held by engaging qualified coaches in Athletics, Aquatics, Basketball, Football, Handball and Volleyball. For the students of our campus and neighboring schools, teaching, training and coaching classes were conducted in Athletics, Tennis, TT, Shuttle Badminton, Football, Hockey, Kho-Kho, Handball and Volleyball. To impart knowledge of swimming and water survival skills among each and every one “Learn to Swim” coaching camps of 28 days duration were conducted by PED in the Institute Swimming Pool. Staff and Students of our Institution, Campus Schools and neighboring Schools and Colleges are making good use of these facilities. Since it is mandatory for students to participate in Sports and Games, arrangement is made to accommodate as many students as possible in different play fields. Instruction and proper guidance has been provided to all to enhance participation in different sports, games and Physical Fitness activities systematically and effectively.

All students are insisted to participate in any of the fitness activities of their choice regularly to maintain their Physical Fitness level. Every student is encouraged to spend at least half an hour a day in the play field playing any games of their choice as recreation. Every student of this Institute is insisted to become member of the Swimming pool and attain the knowledge of water survival skill or swimming. “Learn to swim” as well as advanced swimming coaching camps are conducted to cater the needs of all students (Free of cost) and campus people. Competitions are being conducted from the lowest level starting from, among their own class/Section, inter class, inter Branch, inter year and inter collegiate level. Intra-Mural
competitions in individual sports like Athletics and Aquatics were conducted by DPES and Medals, Certificates and prize money were being awarded to the winners of these competitions as a motivation. Students were allowed to participate in Taluk, District and state level open as well as inter collegiate competitions organized by other colleges, District Associations and other Government organizations. Students are permitted to participate in State and national level sports competitions organized by neighboring institutions. All of our Institute teams are permitted to participate in All India Inter NIT Sports organized at other NITs. Institute is regularly organizing All India Inter NIT Sports every year in some or other games. This year All India Inter NIT Sports in Aquatics Men & Women were being organized at our Institute during 30\textsuperscript{th} January to 01\textsuperscript{st} February, 2014. More than 60 students from other NITs (06 Men teams & 03 Women teams) participated in this Inter NIT sports. Participants were being provided with free Boarding and Lodging facilities. During INCIDENT\textsuperscript{TM} National level cultural Festival, DPES organized “Slam Dunk” Inter Collegiate Basketball and “Spike Fest” Inter Collegiate Volleyball Tournament inviting teams from all over India. Recreation committee is conducting inter branch, inter year and inter class competitions in many games utilizing all facilities available in the DPES. Phoenix an intra mural Inter Year sports competitions has been conducted in the even semester this year also.
## 13 RESEARCH, DEVELOPMENT & CONSULTANCY PROJECTS

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

**Department of Applied Mechanics And Hydraulics**

<table>
<thead>
<tr>
<th>Name of Project</th>
<th>Funding Agency</th>
<th>Name of Investigator(s)</th>
<th>Period</th>
<th>Funding Amount (Lakh Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simulation and development of flapping mechanism</td>
<td>DRDO</td>
<td>Mr. Pruthviraj U. (PI) Srikantha S. Rao, Ph.D. S. Srihari, Ph.D.</td>
<td>2010-16</td>
<td>17.803</td>
</tr>
<tr>
<td>Virtual laboratory (SOM &amp; FM Lab.) – Simulation/ Remote trigger</td>
<td>MHRD</td>
<td>Mr. Pruthviraj U. (LC) K.V. Gangadharan (IC), Ph.D.</td>
<td>2011-16</td>
<td>120 (Total 450)</td>
</tr>
<tr>
<td>Virtual laboratory (SOM Lab.) – Remote trigger</td>
<td>MHRD</td>
<td>Mr. Pruthviraj U. (LC) K.V. Gangadharan (IC), Ph.D.</td>
<td>2011-16</td>
<td>50 (Total 100)</td>
</tr>
</tbody>
</table>

**Department of Chemical Engineering**

<table>
<thead>
<tr>
<th>Name of Project</th>
<th>Funding Agency</th>
<th>Name of Investigator(s)</th>
<th>Period</th>
<th>Funding Amount (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reverse Micellar Extraction Of Lactoferrin From Whey: Continuous Process</td>
<td>MOFPI Ministry of Food processing Industries, Govt. of India” through DST</td>
<td>PI: I.Regupathi; Ph.D.Co-PI: Prasanna BD, Ph.D.</td>
<td>2013 to 2015</td>
<td>37.6 lakhs</td>
</tr>
<tr>
<td>Project Title</td>
<td>Funding Body</td>
<td>PI/Co-PI Information</td>
<td>Duration</td>
<td>Funding Amount</td>
</tr>
<tr>
<td>------------------------------------------------------------------------------</td>
<td>-----------------------</td>
<td>---------------------------------</td>
<td>-------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>Measurement and Characterization of ambient bioaerosols in Bangalore city</td>
<td>Department of Science and Technology (DST), Ministry of Science and Technology, Govt. of India</td>
<td>PI: Dr. Gangamma S. Co-PI: I. Regupathi, Ph.D.</td>
<td>March 2013 to March 2016</td>
<td>53 lakhs</td>
</tr>
<tr>
<td>“Ambient Airborne particulate matter: Effect of biological component on lung inflammation”</td>
<td>Department of Science and Technology (DST), Ministry of Science and Technology, Govt. of India</td>
<td>PI: Dr. Gangamma S.</td>
<td>2013 to 2015</td>
<td>51. lakhs</td>
</tr>
<tr>
<td>Electrochemical Deposition of CZTS for solar Cell Applications</td>
<td>DST-SERI</td>
<td>S. Noyel Victoria/, Ph.D. B. Raj Mohan, Ph.D.</td>
<td>2014</td>
<td>27.44 lakhs</td>
</tr>
<tr>
<td>Synthesis and characterization of SPION embedded inorganic hollow core-shell nano particle as magnetic drug delivery vector</td>
<td>CSIR</td>
<td>P.E. Jagadeesh Babu (PI), Ph.D. G Srinikethan (C-PI), Ph.D.</td>
<td>2014</td>
<td>23.00 lakhs</td>
</tr>
<tr>
<td>One step sonochemical synthesis of CZTS for bifacial solar cell DST-SERB, PI - S. Noyel Victoria, 23 lakhs applications</td>
<td>DST-SERB</td>
<td>PI – S. Noyel Victoria, Ph.D.</td>
<td>2014</td>
<td>23.0 lakh</td>
</tr>
<tr>
<td>Heavy metal removal by adsorption on melanin coated polymer matrix,</td>
<td>DST</td>
<td>PI: Keyur Raval, Co-PI: Rajmohan B, Ph.D. Gangamma S.</td>
<td>April 2015</td>
<td>38 lakhs</td>
</tr>
</tbody>
</table>
### Department of Civil Engineering

<table>
<thead>
<tr>
<th>Name of Project</th>
<th>Funding Agency</th>
<th>Name of Investigator(s)</th>
<th>Period</th>
<th>Funding Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use of stabilized blast furnace slag in infrastructure projects</td>
<td>Kirloskar Ferrous Industries, Koppal</td>
<td>Sunil B M, Ph.D. &amp; Shrihari S., Ph.D.</td>
<td>2014 -2016</td>
<td>6.48 Lakhs</td>
</tr>
<tr>
<td>L&amp;T sponsored Mtech (CTM) Program project</td>
<td>Larsen &amp; Toubro Construction, Chennai</td>
<td>Gangadhar Mahesh, Ph.D. &amp; C Rajasekaran, Ph.D.</td>
<td>2014-2019</td>
<td>650 Lakhs</td>
</tr>
<tr>
<td>Experimental Investigation on Rutting and Flexural Behaviour of Structural Asphalt Mixes with Warm Mix Asphalt Additives</td>
<td>Science and Engineering Research Board, Department of Science and Technology, GoI</td>
<td>Suresha S.N., Ph.D.</td>
<td>2013 - 2016</td>
<td>18.58 Lakhs</td>
</tr>
<tr>
<td>Fund for Improvement of S&amp;T Infrastructure - 2013</td>
<td>Department of Science and Technology, GoI</td>
<td>Suresha S. N., Ph.D.</td>
<td>2013 - 2018</td>
<td>110.80 Lakhs</td>
</tr>
<tr>
<td>Remote Sensing (RS) and Geographic Information System (GIS) approach for the study of disaster due to lighting on earth resources and infrastructure.</td>
<td>Department of Science and Technology, GoI</td>
<td>K.N. Lokesh, Ph.D. Mr. Naveenchandra</td>
<td>2014-2018</td>
<td>21.30 Lakhs</td>
</tr>
</tbody>
</table>

### Department of Computer Engineering

<table>
<thead>
<tr>
<th>Name of Project</th>
<th>Funding Agency</th>
<th>Name of Investigator(s)</th>
<th>Period</th>
<th>Funding Amount (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Development of tool for detection of XML based Injection Vulnerabilities in web applications</td>
<td>DIT, MCIT</td>
<td>P. Santhi Thilagam, Ph.D.</td>
<td>2 years</td>
<td>38.16 Lakhs</td>
</tr>
<tr>
<td>FIST Program</td>
<td>DST</td>
<td>Annappa, Ph.D.</td>
<td>5 years (2014-18)</td>
<td>56 Lakhs</td>
</tr>
</tbody>
</table>
### Department of Chemistry

<table>
<thead>
<tr>
<th>Name of Project</th>
<th>Funding Agency</th>
<th>Name of Investigator(s)</th>
<th>Period</th>
<th>Funding Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Augmentation of Research Facilities, i.e. Single Crystal X-Ray Diffractometer</td>
<td>DST-FIST (GoI)</td>
<td>A V Adhikari, Ph.D. (Coordinator) &amp; Darshak R T, Ph.D. (co-coordinator)</td>
<td>2010-2014 5 Years Ongoing</td>
<td>128 Lakhs</td>
</tr>
<tr>
<td>DK District Biofuel Information and Demonstration Centre</td>
<td>KSBDB (GoK)</td>
<td>A V Adhikari, Ph.D.</td>
<td>2012-2015 Ongoing</td>
<td>12 Lakhs</td>
</tr>
</tbody>
</table>

### Department of Electronics And Communication Engineering

<table>
<thead>
<tr>
<th>Name of Project</th>
<th>Funding Agency</th>
<th>Name of Investigator(s)</th>
<th>Period</th>
<th>Funding Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy Harvesting Seat</td>
<td>ANRC, Boeing</td>
<td>M S Bhat, Ph.D.</td>
<td>2014-2015</td>
<td>Rs. 3.00 Lakhs</td>
</tr>
<tr>
<td>Secure Turbulence Resistant Free Space Optical (FSO) links for Broadband Wireless Access Networks</td>
<td>DIT, MCIT, Govt. of India</td>
<td>Muralidhar, Ph.D. Kulkarni U Sripati, Ph.D.</td>
<td>3 Years (from July 2010) Completed on 31-01-2014</td>
<td>116.76 lakhs</td>
</tr>
<tr>
<td>RF MEMS Switches for Ka – Band mm Wave Circuits</td>
<td>NPMASS, Govt. of India</td>
<td>M S Bhat, Ph.D.</td>
<td>2009 – 2014 Completed</td>
<td>67.60 lakhs</td>
</tr>
<tr>
<td>MEMS Design Centre - NPMASS Project</td>
<td>NPMASS, Govt. of India</td>
<td>M S Bhat, Ph.D.</td>
<td>2009 – 2014 Completed</td>
<td>11.00 lakhs</td>
</tr>
</tbody>
</table>
## Department of Electrical & Electronics Engineering

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

## Department of Humanities, Social Sciences & Management

<table>
<thead>
<tr>
<th>Name of Project</th>
<th>Funding Agency</th>
<th>Name of Investigator(s)</th>
<th>Period</th>
<th>Funding Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reforming Higher Education for Civic Learning and Community Engagement</td>
<td>NUEPA-ICSSR</td>
<td>Sreejith Alathur, Gopalakrishna B V, A.H.Sequeira, Ph.D.</td>
<td>2015-2016</td>
<td>5.06 Lakhs</td>
</tr>
<tr>
<td>Impediments to growth of Hospitality Sector - A Case study of South India</td>
<td>National Bank for Agricultural and Rural Development (NABARD)</td>
<td>Suprabha K.R, Ph.D.</td>
<td>2015</td>
<td>8.76 Lakhs</td>
</tr>
<tr>
<td>UGC Major Project Proposal on Mitigation of Tribal Suicides</td>
<td>University Grants Commission, New Delhi</td>
<td>Sheena, Ph.D.</td>
<td>2 years (2014-16)</td>
<td>6.02 Lakhs</td>
</tr>
</tbody>
</table>
through Economic Empowerment: Evaluating the functional roles of the governments and NGOs in eradicating the social, educational and economic backwardness among the Paniyans of Kerala

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

**Department of Information Technology**

**Completed**

<table>
<thead>
<tr>
<th>Name of Project</th>
<th>Funding Agency</th>
<th>Name of Investigator(s)</th>
<th>Period</th>
<th>Funding Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Content Based Video Copy Detection, Tracking and Preventing In-Theater Piracy</td>
<td>DST</td>
<td>G. R. M. Reddy, Sheena, Ph.D. Mrs. R Roopalakshmi (Women Scientist Scheme)</td>
<td>July’11-June 2014</td>
<td>18.2 Lakhs</td>
</tr>
</tbody>
</table>

**Department of Mathematical And Computational Sciences**

<table>
<thead>
<tr>
<th>Name of Project</th>
<th>Funding Agency</th>
<th>Name of Investigator(s)</th>
<th>Period</th>
<th>Funding Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Topological structures for semiclosed operators on</td>
<td>SERC, DST, Govt. of India</td>
<td>P. Sam Johnson, Sheena, Ph.D.</td>
<td>Three years</td>
<td>3 lakhs</td>
</tr>
</tbody>
</table>
### Hilbert spaces

<table>
<thead>
<tr>
<th>Title of Project</th>
<th>Funding Agency</th>
<th>Investigator(s)</th>
<th>Period</th>
<th>Funding Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A study on Moore-Penrose in Krein Spaces</td>
<td>NBHM, DAE, Govt. of India</td>
<td>P. Sam Johnson, Sheena, Ph.D.</td>
<td>Three years</td>
<td>1.89 lakhs</td>
</tr>
<tr>
<td>On the solutions of Convection-Diffusion equations</td>
<td>NBHM, DAE, Govt. of India</td>
<td>Satyanarayana Engu</td>
<td>(sanctioned in Feb. 2015)</td>
<td>8.3 lakhs</td>
</tr>
</tbody>
</table>

### Department Of Mechanical Engg.

<table>
<thead>
<tr>
<th>Name of Project</th>
<th>Funding Agency</th>
<th>Investigator(s)</th>
<th>Period</th>
<th>Funding Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Investigation on Passive Damping Capability of Natural Fiber Reinforced Composite and Visco-elastic Sandwich Structures</td>
<td>SERB - DST</td>
<td>P. Jeyaraj,</td>
<td>Jan'13-Jan'16</td>
<td>11.39 Lakhs</td>
</tr>
<tr>
<td>Vibration based structural health monitoring and progressive failure analysis of a rotating tapered composite plate</td>
<td>Aeronautics Research and Development Board</td>
<td>R. Vasudevan (VIT University), Ph.D. and P. Jeyaraj, Ph.D.</td>
<td></td>
<td>8 Lakhs</td>
</tr>
<tr>
<td>Virtual Lab</td>
<td>NMEICT</td>
<td>K V Gangadharan, Ph.D., Panduranga Vittal, Ph.D., Vidhya Shetty, Ph.D., Pruthviraj</td>
<td>2010-2014</td>
<td>450 Lakhs</td>
</tr>
<tr>
<td>Remote triggered Lab</td>
<td>NMEICT</td>
<td>K V Gangadharan, Ph.D., Ravikiran Kadoli, Ph.D., Ph.D.Pruthviraj</td>
<td>2012-2014</td>
<td>100 Lakhs</td>
</tr>
<tr>
<td>Centre for System Design</td>
<td>NI and MHRD/NITK</td>
<td>K V Gangadharan, Ph.D.</td>
<td>2010-2015</td>
<td>500 Lakhs</td>
</tr>
<tr>
<td>Investigation of machining characteristics of TiNi based Shape Memory</td>
<td>SERB</td>
<td>Prof. Narendranath, Ph.D. S</td>
<td>March 2014-March 2016</td>
<td>16.32 Lakhs</td>
</tr>
</tbody>
</table>
### Department Of Mining Engineering

<table>
<thead>
<tr>
<th>Name of Project</th>
<th>Funding Agency</th>
<th>Name of Investigator(s)</th>
<th>Period</th>
<th>Funding Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Development of Crushing &amp; Grinding Characteristic Curves for Different Rocks Using Insmart Crushers and Mills”,</td>
<td>Insmart Systems Hyderabad</td>
<td>K. Ram Chandar, Ph.D.</td>
<td>2015-2016</td>
<td>4.31 Lakhs</td>
</tr>
</tbody>
</table>

### Department of Metallurgical And Materials Engineering

<table>
<thead>
<tr>
<th>Name of Project</th>
<th>Funding Agency</th>
<th>Name of Investigator(s)</th>
<th>Period</th>
<th>Funding Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metallurgical Investigation on Thermally Aged SS304 LN welds</td>
<td>BRNS</td>
<td>K. Rajendra Udupa, Ph.D. Jagannath Nayak, Ph.D.</td>
<td>2009</td>
<td>18,81,650</td>
</tr>
<tr>
<td>Assessment of Solder Joint Reliability and Effect of Cooling Rate on Mechanical Properties of Lead free Solders</td>
<td>DRDO</td>
<td>K. N. Prabhu, Ph.D.</td>
<td>2011</td>
<td>80.26 lakhs</td>
</tr>
<tr>
<td>Novel Nanocomposites from bio-degradable polymers and nano-structured fly ash</td>
<td>DST-SERB</td>
<td>Anandhan Srinivasan, Ph.D.</td>
<td>2012</td>
<td>18.17 Lakhs</td>
</tr>
<tr>
<td>Friction Stir Processing of Steels for Surface Alloying and Wear Resistance</td>
<td>Ministry of Defence - Naval Research Board</td>
<td>Udaya Bhat K., Ph.D.</td>
<td>2011</td>
<td>7,95,800</td>
</tr>
</tbody>
</table>
Investigation of the effect of addition of nanoparticles on wetting kinematics, kinetics and cooling severity of quench media for industrial heat treatment

DST Research Project

K. N. Prabhu, Ph.D.

2012

30.47 akhs

Extraction of Gold from Waste Printed Circuit Boards using Bacteria

KSCST Student Project

Students: Messrs. Abhishek S. Kashinath, Karthik, C. Padmashali
Guide: Prof. A. O. Surendranathan

2014-15

9000

Department of Physics

<table>
<thead>
<tr>
<th>Name of Project</th>
<th>Funding Agency</th>
<th>Name of Investigator(s)</th>
<th>Period</th>
<th>Funding Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical &amp; Thermal properties of B_4C</td>
<td>UGC-DAE CRS</td>
<td>Ajith K.M, Ph.D.</td>
<td>3 years</td>
<td>10 Lakhs</td>
</tr>
<tr>
<td>DST-FIST Research facility for Physics Department</td>
<td>DST</td>
<td>N. K. Udayashankar, Ph.D. &amp; H. S. Nagaraja, Ph.D.</td>
<td>5 years</td>
<td>64 lakhs</td>
</tr>
<tr>
<td>DST-SERB-Si Electrodes for Li ion battery</td>
<td>DST-SERB</td>
<td>H.S.Nagaraja, Ph.D. &amp; Ajith K.M., Ph.D.</td>
<td>3 years</td>
<td>43.57 Lakhs</td>
</tr>
</tbody>
</table>

13.2 PROPOSED PLAN FOR RESEARCH

Department of Applied Mechanics & Hydraulics

<table>
<thead>
<tr>
<th>New Labs/ Equipment</th>
<th>Target for Sponsored R&amp;D projects</th>
<th>New area of research</th>
<th>Institutions/Organisations for future collaborations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental Geotechnology</td>
<td></td>
<td></td>
<td>• Mou with NIH, Belguam • MOU with IIRS, Dehradu</td>
</tr>
<tr>
<td>Rheology Laboratory</td>
<td>Department of Science and</td>
<td>Visco-plastic and viscoplastic behaviour of construction materials</td>
<td>IIT Madras, Chennai. Central Road Research Laboratory, New Delhi</td>
</tr>
</tbody>
</table>

Department of Civil Engineering

<table>
<thead>
<tr>
<th>New Labs/Equipment</th>
<th>Target for Sponsored R&amp;D projects</th>
<th>New Areas of Research</th>
<th>Institutions/organizations for future collaborations</th>
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<tr>
<td>Environmental Geotechnology</td>
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<td>IIT Mumbai, BARC</td>
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<td>Rheology Laboratory</td>
<td>Department of Science and</td>
<td>Visco-plastic and viscoplastic behaviour of construction materials</td>
<td>IIT Madras, Chennai. Central Road Research Laboratory, New Delhi</td>
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### Department of Computer Engineering

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<th>New Labs/ Equipment</th>
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<th>New Areas of Research</th>
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<td>Internet of Things</td>
<td>DST</td>
<td>Internet of things systems architecture</td>
<td>Foreign universities and/or IITs/IISc.</td>
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<td>Cyber-Physical Systems</td>
<td>CSIR</td>
<td>Resource Management</td>
<td>Foreign universities and/or IITs/IISc.</td>
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<td>Cyber Security</td>
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<td>Multimodel visual Security</td>
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<td>Big Data Analytics</td>
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<td>Big Data</td>
<td>Foreign universities and/or IITs/IISc.</td>
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### Department of Chemistry

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

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<th>Target for Sponsored R&amp;D projects</th>
<th>New Areas of Research</th>
<th>Institutions/organizations for future collaboration</th>
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<tr>
<td>AEPD analyser (part of it is procured using TEQIP-II funds for High Voltage laboratory) <strong>Coordinator:</strong> Dr G S Punekar</td>
<td>From DST</td>
<td>Partial discharge analysis of insulating oil</td>
<td>CPRI Bangalore</td>
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<tr>
<td>Array of multi-model sensors, DSP Processors <strong>Coordinator:</strong> Dr. Ashvini Chaturvedi</td>
<td>Development of Lab based prototype, research scholar guidance and publication</td>
<td>Data aggregation and networking for underwater communication</td>
<td>NIO, Goa</td>
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<tr>
<td>(1) Investigations on protection techniques for DERs and Distribution system apparatus in Smart grid environments. (2) power system relaying methodologies with the penetration of FACT devices <strong>Coordinator:</strong> Dr. K. P. vittal</td>
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<tr>
<td>Development of microgrid with renewable and energy efficient generation systems along with energy storage devices <strong>Coordinator:</strong> Dr. D. N. Gaonkar</td>
<td>Ministry of power Govt of India through CPRI Bangalore</td>
<td>Smart grid</td>
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<td>Power System laboratory with real-time measurement support <strong>Coordinator:</strong> Dr. K. N. Shubhanga</td>
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### Department of Humanities, Social Sciences and Management

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<td>Software, hardware</td>
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<td>Analytics, information systems, E-marketing, Applied Economics</td>
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### Department of Information Technology

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<tr>
<td>Automated Semantic Analysis and Retrieval Frame Work</td>
<td>DST</td>
<td>Knowledge Engineering</td>
<td>Penn State University, USA</td>
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<td>Agro-climatic Zone Specific Knowledge Management Systems for Sustainable Production of Coconut</td>
<td>ITRA</td>
<td>IT Based Transformations</td>
<td>CPCRI, Kasargod</td>
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<td>Affective &amp; Human Centered Computing</td>
<td>DST</td>
<td>Affective Computing Bio-Inspired Green IT</td>
<td>Affective Computing Lab, MIT, USA</td>
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<tr>
<td>Bio-inspired QoS Aware Green Cloud IT</td>
<td>DIT</td>
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<td>The Univ. of Melbourne, Australia</td>
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### Department of Mechanical Engineering

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<th>Institute/Organizations for future collaborations</th>
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<tr>
<td>Natural circulation loop for carbon dioxide</td>
<td>DST</td>
<td>Nanofluids, Cryogenics, Renewable Energy</td>
<td>IIT Kharagpur</td>
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<td>Developing material characterization lab</td>
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<td>Accumulative roll bonding</td>
<td>NAL, CPRI</td>
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<td>Sound level meter Ultrasonicator Mechanical shaker</td>
<td>One ARDB project One DST project</td>
<td>Polymer nano composites fabrication and testing for dynamic studies</td>
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Annual Report 2014-15
### National Institute of Technology Karnataka, Surathkal

#### Annual Report 2014-15

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<th>Friction Stir Welding Laboratory and facilities Lubrication Testing Laboratory and testing Equipment.</th>
<th>Nano Composites Nano Tribology Friction Stir Welding</th>
<th>Indian Institute of Science, Bangalore. ITMMEC, Indian Institute of Technology, Delhi,</th>
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<td>Compressor cascade wind tunnel with water injection facility</td>
<td>SERB/DST Aeroelasticity</td>
<td>IIST, Thiruvananthapuram</td>
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#### Department of Mining Engineering

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<td>Modernization of Rock Mechanics Laboratory</td>
<td>30.00 Lakhs</td>
<td>Slope stability</td>
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<td>Development of Mine Safety &amp; Health</td>
<td>20.00 Lakhs</td>
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#### Department of Metallurgical And Materials Engineering

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

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

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INTERNATIONAL JOURNAL:--

Department of Applied Mechanics And Hydraulics

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<td>6</td>
<td>Multiple linear Regression model for predicting wave transmission in HIMMFPB</td>
<td>Aquatic Procedia (Elsevier), Vol. 4 (2015)</td>
<td>A.V. Hegde and Vishnu S</td>
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<td>7</td>
<td>Computational Intelligence for predicting wave transmission in HIMMFPB</td>
<td>Aquatic Procedia (Elsevier), Vol. 4 (2015)</td>
<td>A.V. Hegde and Vishnu S Das</td>
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<td>8</td>
<td>Runup and Rundown characteristics of an emerged seaside perforated quarter circle breakwater</td>
<td>Aquatic Procedia (Elsevier), Vol. 4 (2015)</td>
<td>Binumol S., Subba Rao, Arkal Vittal Hegde</td>
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<td>14</td>
<td>Wave Reflection by Emerged</td>
<td>International Journal of Earth</td>
<td>Hafeeda V, Binumol S, A</td>
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<td>No.</td>
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<td>17</td>
<td>Identification of hydrologically active areas in a watershed using satellite data</td>
<td>Aquatic Procedia (Elsevier), 4 (2015), 1339-1344, 2015</td>
<td>Kumar Raju B. C. and L. Nandagiri</td>
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<td>19</td>
<td>Analysis of temporal stability of observed soil moisture under plantation forest in Western Ghats of India</td>
<td>Aquatic Procedia (Elsevier), 4 (2015), 601-608, 2015</td>
<td>Venkatesh B., L. Nandagiri and Purandara B. K.</td>
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<td>22</td>
<td>2D And 3D Analysis of a Diaphragm Wall Type Berthing Structure under Static Loading</td>
<td>International Journal of Scientific Engineering and Technology (IJSET), Special Issue, pp 371-375, (ISSN 2277-1581).</td>
<td>Yajnheswaran. B., Ranjan. and Subba Rao</td>
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<td>Wave Prediction Using Neural Networks at New Mangalore Port along West Coast of India</td>
<td>Aquatic Procedia, International Conference on Water Resources, Coastal and Ocean Engineering (ICWRCOE’15), Vol. 4, pp. 143-150</td>
<td>Deepthi I Gopinath and Dwarakish G S</td>
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<td></td>
<td>Coastal Pollution: A Review, Aquatic Procedia</td>
<td>Aquatic Procedia, International Conference on Water Resources, Coastal and Ocean Engineering (ICWRCOE’15), Vol. 4, pp. 381-388</td>
<td>M. Vikas and Dwarakish G S</td>
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<tr>
<td>No.</td>
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<td>38</td>
<td>Study of Land Use/Land Cover Dynamics through Classification Algorithms for Harangi Catchment Area, Karnataka State, INDIA</td>
<td>Aquatic Procedia, International Conference on Water Resources, Coastal and Ocean Engineering (ICWRCOE’15), Vol. 4, pp. 1413-1420</td>
<td>Ganasri B P and Dwarakish G S</td>
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<td>39</td>
<td>Temporal Analysis of Spatial Distribution of Built-Up Area in Peri-Urban Areas of Cochin, Kerala: Case-Study of Sub-Watershed in Periyar River</td>
<td>Aquatic Procedia, International Conference on Water Resources, Coastal and Ocean Engineering (ICWRCOE’15), Vol. 4, pp. 1445-1451</td>
<td>Preeti Jacob and Dwarakish G S</td>
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<td>Long Term Study of Sediment Dynamics Along Mangalore Coast, West Coast of India Using Sediment Trend Analysis</td>
<td>Aquatic Procedia, International Conference on Water Resources, Coastal and Ocean Engineering (ICWRCOE’15), Vol. 4, pp. 1545-1552</td>
<td>P. Sri Ram Kumar, Dwarakish G S, N Nujuma and D I Gopinath</td>
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<td>41</td>
<td>Tidal-Level Forecasting Using Artificial Neural Networks along West Coast of India</td>
<td>Japan Society of Civil Engineers (JSCE) Vol. 2, pp. 176-187</td>
<td>Rakshith, S. and Dwarakish, G. S. and Usha Natesan</td>
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<td>43</td>
<td>Parametric studies on saltwater intrusion into coastal aquifers for anticipated sea level rise</td>
<td>Elsevier Aquatic Procedia 4, 103-108</td>
<td>Priyanka BN and A.Mahesha</td>
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<td>44</td>
<td>Simulation of saltwater intrusion in a coastal aquifer in Karnataka, India</td>
<td>Elsevier Aquatic Procedia 4, 700-705</td>
<td>Lathashri UA and A.Mahesha</td>
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<td>45</td>
<td>Saltwater intrusion in coastal aquifers subjected to freshwater pumping</td>
<td>J. Hydrologic Engg., (ASCE), 19(2), 448-456</td>
<td>Mahesha, A. and Lakshmikant</td>
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<td>No.</td>
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<td>49</td>
<td>Forecasting monthly groundwater level fluctuations in coastal aquifer using hybrid wavelet packet-support vector regression</td>
<td>Cogent Engineering journal,vol.2(1),published online 20th January2015,part of Taylor and Francis group,pp.1-22</td>
<td>Sujay Raghavendra and Paresh Chandra Deka</td>
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<td>51</td>
<td>Prediction of topsoil nitrogen from spaceborne hyperspectral data</td>
<td>Geocato International, Taylor and Francis publications, doi: 10.1080/10106049.2014. 894585. IF=0.9</td>
<td>Gopal, B., Shetty, A, Ramya, B. J.</td>
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<td>55</td>
<td>Forecasting monthly groundwater level fluctuations in coastal aquifer using hybrid wavelet packet-support vector regression</td>
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<td>Sujay Raghavendra and Paresh Chandra Deka</td>
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Aquatic Procedia Volume 4, 2015, Pages 1437–1444  
B.E. Bhojaraja, Gaurav Hegde, U. Pruthviraj, Amba Shetty

57. A numerical modeling approach for study of mudbank impact on coastline  
Parvathy K G, Ramesh H, Noujas V, Thomas K V

58. Impact of mudbanks on coastal dynamics  
Journal of Aquatic Procedia, Elsevier. 4, 1514 – 1521.  
Parvathy K G, Ramesh H, Noujas V, Thomas K V

59. study of seawater intrusion in coastal aquifer by electrical conductivity and total dissolved solid method in Gurpur and Netravathi river basin  
Journal of Aquatic Procedia, Elsevier, 4, 57-64. Won the best paper award  
Konstantin J. Sylus and H. Ramesh

**Department of Chemical Engineering**

<table>
<thead>
<tr>
<th>Sl. No.</th>
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<tr>
<td>6</td>
<td>Solar light induced</td>
<td>Solar Energy. 99, 67–76 Impact</td>
<td>A. Khanna,</td>
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<td>8</td>
<td>Partial Purification and Characterization of Chromate Reductase of a Novel Ochrobactrum sp. Strain Cr-B4</td>
<td>Preparative Biochemistry and Biotechnology</td>
<td>Anuradha Hora, Vidya Shetty K</td>
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<td>10</td>
<td>Solar light-driven photocatalytic degradation of Anthraquinone dye-contaminated water by engineered Ag@TiO2 core–shell nanoparticles</td>
<td>Desalination and Water treatment. DOI:10.1080/19443994.2014.888 681-(Taylor &amp; Francis) Impact factor:0.852</td>
<td>Ankita Khanna, Vidya Shetty K</td>
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<td>11</td>
<td>Pathway Identification, Enzyme Activity And Kinetic Study For The Biodegradation Of Phenol By Nocardia hydrocarbonoxydans NCIM 2386</td>
<td>Desalination and Water Treatment- Accepted Manuscript ID: 1030700 (March 2015) Impact factor:0.987</td>
<td>Gauthami R Shetty, Vidya Shetty K</td>
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<td>12</td>
<td>Kinetics of bioreduction of hexavalent chromium by poly vinyl alcohol-alginate immobilized cells of Ochrobactrum sp. Cr-B4 and comparison with free cells</td>
<td>Desalination and Water Treatment- Accepted Manuscript ID: 1030704(March 2015) Impact factor:0.987</td>
<td>Anuradha Hora, Vidya Shetty K</td>
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<td>13</td>
<td>Shear stress effects on production of exopolymeric substances and biofilm characteristics during phenol biodegradation by immobilized pseudomonas desmolyticum (NCIM2112) cells in a pulsed plate bioreactor.</td>
<td>Preparative Biochemistry and Biotechnology. Accepted for publication on 16th March 2015 Impact factor:0.699</td>
<td>Veena B.R, Vidya Shetty K, Saidutta M.B,</td>
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<td>14</td>
<td>Interaction of Heavy Metals in Multimetal Biosorption by</td>
<td>Bioremediation Journal, 19:56–68, 2015 Impact factor:0.714</td>
<td>Dilna Damodaran, Vidya Shetty, and</td>
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<td>International Workshop on Graph Labelings (IWOGL) 2014, January 3-6, 2015, to be published as a special issue of Electronics Notes in Discrete Mathematics.</td>
<td>Srinivasa Rao Kola and Pratima Panigrahi</td>
</tr>
<tr>
<td>8</td>
<td>An efficient estimator of reliability for exponential class software reliability models</td>
<td>3rd International Conference on Software and Information Engineering (ICSIE 2014), Singapore, May 2014.</td>
<td>Murulidhar N. N. and B. Roopashri Tantri</td>
</tr>
<tr>
<td>9</td>
<td>Analysis of systems subject</td>
<td>Proc. of 20th ISSAT</td>
<td>Murulidhar N. N.</td>
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</table>
### Department of Mechanical Engineering

<table>
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<th>Sl. No</th>
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<th>Conference Name, Place, Dates, Page Nos.</th>
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<tbody>
<tr>
<td>6.</td>
<td>Optimization of WEDM performance characteristics while machining Inconel 600 Superalloy</td>
<td>Conference on Advances in Light Metals and its Composites, SRM University, Chennai, India, 6-7 December. (Poster Presentation)</td>
<td>Priyaranjan Sharma, D. Chakradhar, Narendranath S</td>
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<tr>
<td>7.</td>
<td>Microstructural Characterization and Hardness Evaluation of Friction Stir Welded AA6061/SiC/Fly-Ash Hybrid MMCs</td>
<td>Conference on Advances in Light Metals and its Composites, SRM University, Chennai, India, 6-7 December. (Poster Presentation)</td>
<td>Sachinkumar, Narendranath S, Chakradhar D</td>
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<tr>
<td>No.</td>
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<td>Conference/Location</td>
<td>Authors</td>
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<tr>
<td>Project</td>
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<td>Authors</td>
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<tr>
<td>biased-Magnetic Fields</td>
<td>Sustainability, organized by MANIT, Bhopal during 29-31, January 2014 {won the Best paper award}</td>
<td></td>
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<tr>
<td>27. Asymptotic Computational Fluid Dynamics (ACFD) - A Novel Approach as</td>
<td>23rd International Conference on Interdisciplinary Mathematical, Statistical and Computational Technique, IMSCT 2014-FIMXXIII, NITK.</td>
<td>Sharath Kumar, Harsha Kumar, Srinivasa Sagar, N., Gnanasekaran, N</td>
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<tr>
<td>No.</td>
<td>Title</td>
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<tr>
<td>30.</td>
<td>A novel method to estimate convective heat transfer coefficient and emissivity from a lumped system using transient experiments</td>
<td>Tenth National Conference on OPTIMIZATION TECHNIQUES IN ENGINEERING SCIENCES AND TECHNOLOGIES (OPTEST 2015), 10-11 April, 2015</td>
<td>Pallav Pattnaik, Subham Burnwal and Gnanasekaran N</td>
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<td>34.</td>
<td>Experimental study of process variables on the bead geometry through flux cored arc welding</td>
<td>International Conference on Mechanical Engineering, Vijaya Vittala Institute of Technology, Bangalore, 21-23, August 2014</td>
<td>Ramesh Babu N, Ramesh M R, Kiran Aithal S, U N Kempaiah</td>
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<tr>
<td>2</td>
<td>Effect of Reflow Time on Wetting Behavior, Interfacial Reaction and Shear Strength of Sn–0.3Ag–0.7Cu Solder/Cu joint</td>
<td>Proceedings of the International Conference on Soldering &amp; Reliability, SMTA, Ontario, Canada, 13-15</td>
<td>May 2014</td>
</tr>
<tr>
<td>3</td>
<td>Copper coatings on steel by friction surfacing</td>
<td>Intl Conf on Friction based materials, ICFP-2014, held at IISc., Bangalore, P 17</td>
<td>Sept 2014</td>
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<tr>
<td>6</td>
<td>Flexible binder free electrode for ultracapacitors</td>
<td>5th Chemical Nanoscience Symposium, CNSN-5, Newcastle University, UK</td>
<td>March 2015</td>
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Table: Research Publications

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<tbody>
<tr>
<td>1.</td>
<td>Electrical studies on n-CdSe/p-ZnTe heterojunctions.</td>
<td>International conference on large area and flexible microelectronics, Bengaluru, 18th -20th Dec-2014</td>
<td>Shashidhara, Prof. Kasturi V. Bangera, Prof. G.K. Shivakumar</td>
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<tr>
<td>2.</td>
<td>Effect of Soaking temperature on properties of 50.8wt% BaO-9.3wt% CaO-5.6 wt% Al₂O₃-7.7 wt% B₂O₃-26.6 wt% SiO₂ glass.</td>
<td>The first international Conference on Emerging Materials: Characterization and Application. Dec 4-6, 2014. Kolkata.</td>
<td>Soumalya Bhattacharya, H D Shashikala</td>
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</table>
### NATIONAL CONFERENCES

**Department of Applied Mechanics And Hydraulics**

<table>
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<th>Sl. No.</th>
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<tbody>
<tr>
<td>5.</td>
<td>Reliability Studies of ANN and PSO-SVM in Predicting the Wave Transmission Coefficient in Horizontally Interlaced Multi-Layered Moored Floating Pipe Breakwater</td>
<td>NCEEM-2013, 18-19 October 2013</td>
<td>A V Hegde, Mandal S, Harish N., Vishnu S Das</td>
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<tr>
<td>7.</td>
<td>Vulnerability Assessment of Karnataka Coast</td>
<td>Hydro-2014, MANIT Bhopal, 17-20, December, 2014</td>
<td>Vittal Hegde A, and Akshaya B J.</td>
</tr>
<tr>
<td>8.</td>
<td>Experimental studies on berm breakwater with different armour units</td>
<td>Fifth Indian National Conference on Harbour and Ocean Engineering (INCHOE 2014) held at CSIR-NIO Goa during 5-7 February, 215-219, (ISSN 0974-5904).</td>
<td>Prashanth Janardhan, B. Subba Rao, C. Kiran G. Shirlal and D. Balakrishna Rao K.,</td>
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<td></td>
<td>Title</td>
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<td>Authors</td>
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<tr>
<td>10</td>
<td>Wave reflection by emerged seaside perforated quarter-circle breakwater</td>
<td>Fifth Indian National Conference on Harbour and Ocean Engineering (INCHOE 2014) held at CSIR-NIO Goa during 5-7 February, 2014, (ISSN 0974-5904).</td>
<td>V.Hafeeda, S. Binumol, A. V Hegde and Subba Rao</td>
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<tr>
<td>11</td>
<td>Study of The Influence of Berm Width on Wave Run-up and Run-Down With Artificial Armour Units</td>
<td>Proceedings of the “First Annual Conference on Innovations and Developments in Civil engineering, ACIDIC-2014” organised by NITK Surathkal, India from 19th - 20th May 2014</td>
<td>Sainath Vaidya, Prashanth J, Geetha Kuntoji, Subba Rao</td>
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<td>14</td>
<td>Land Use land Cover Change Detection using RS and GIS: A case study of NMPT Area, Karnataka</td>
<td>Proc. of the First Annual Conference on Innovations and Developments in Civil Engineering, NITK, Surathkal, India, 19-20 May 2014</td>
<td>Nujuma Nazimudhin, Deepthi I Gopinath, P Sri Ram Kumar, Ganasri B P, A Raju and Dwarakish G S</td>
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<td>15</td>
<td>Artificial Neural Networks for the prediction of waves along Dakshina Kannada coast</td>
<td>Proc. of the First Annual Conference on Innovations and Developments in Civil Engineering, NITK, Surathkal, India, 19-20 May 2014</td>
<td>Deepthi I Gopinath, P Sri Ram Kumar, Nujuma Nazimudhin and Dwarakish G S</td>
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<td>16</td>
<td>Neural networks for tidal level prediction at Karwar, west coast of India</td>
<td>Proc. Fifth Indian National Conference on Harbour and Ocean Engineering (INCHOE-14), NIO, Goa, 5-7 February 2014</td>
<td>G. S. Dwarakish and S. Rakshith</td>
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<td>17</td>
<td>Analysis of Land Use/Land Cover distribution using Remote Sensing and GIS: A Case Study of Mulki River Basin, Karnataka</td>
<td>Proc. Fifth Indian National Conference on Harbour and Ocean Engineering (INCHOE-14), NIO, Goa, 5-7 February 2014</td>
<td>Ganasri B. P and Dwarakish G. S</td>
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<td>18</td>
<td>A Comparative Analysis of</td>
<td>Proc. Fifth Indian National</td>
<td>Raju. A, Dwarakish G. S</td>
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<td>19.</td>
<td>Land use/ Land cover changes around Rameshwaram Island, East coast of India</td>
<td>Proc. Fifth Indian National Conference on Harbour and Ocean Engineering (INCHOE-14), NIO, Goa, 5-7 February 2014</td>
<td>R.Gowthaman, G. S. Dwarakish and V.Sanilkumar</td>
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**Department of Civil Engineering**

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<tr>
<td>1</td>
<td>Studies on prestressed reinforced foundation beds overlying weak grounds</td>
<td>1st National Conference on Recent Advancements in Engineering and Technology, conducted by LBS College of Engineering, Kasargod, Kerala, pg. 66 volume of abstracts.</td>
<td>Jayamohan, J. and Shivashankar, R.</td>
</tr>
<tr>
<td>5</td>
<td>Behavior of Reinforced Granular Beds overlying weak soil with voids</td>
<td>National Conference on Recent Advances in Engineering and Technology (nCORETech2015), LBS College of Engineering, Povval, Muliyar, Kasaragod, Kerala, January 20-21, 2015</td>
<td>Jayamohan, J., Shivashankar, R. and Nileena Suresh Kumar</td>
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<tr>
<td>6</td>
<td>Organic Contaminant adsorption in soils</td>
<td>Proceedings of the First Annual Conference on Innovations and Developments in Civil Engineering,</td>
<td>Varghese Meera and Sunil B.M.,</td>
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**Department of Chemical Engineering**

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<th>Sl. No.</th>
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<th>Conference Name, Place, Dates, Page Nos.</th>
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<tbody>
<tr>
<td>1</td>
<td>Effects of liquid swirling on gas to liquid mass transfer in two phase swirled bed reactor</td>
<td>New Approaches in Chemical Sciences &amp; advancement in Renewable energy, New Delhi 2014</td>
<td>Amit, Keyur Raval, D V R Murthy</td>
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<tr>
<td>2</td>
<td>Production of fuel by pyrolysis of waste plastic</td>
<td>New Approaches in Chemical Sciences &amp; advancement in Renewable energy, New Delhi 2014</td>
<td>Ved Tripathi, Gopal Mugeraya, Keyur Raval</td>
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<td>5</td>
<td>Studies on the production of oxalate oxidase from endophytes</td>
<td>AMI-55th Annual Conference, Association of Microbiologists of India - Empowering mankind with microbial technologies (AMI-EMMT 2014) by</td>
<td>Kunal Kumar, Prasanna B.D</td>
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<td>8.</td>
<td>Application of nanotechnology in waste water treatment</td>
<td>10th Kannada Vignana Sammelana held at Mysore University, Mysore.2014.ISSN 2249 VIJNANA KANNADA(PRINT)</td>
<td>Shankramma K, Vidya Shetty K.</td>
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**Department of Chemistry**

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**Department of Computer Engineering**

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<tbody>
<tr>
<td>1.</td>
<td>An Efficient Methodology To Cluster Homogeneous And Heterogeneous XML Documents with reduced complexity</td>
<td>National Conference on Innovations in Information Technology (NCIIT-2015)” pageno.-38-45.</td>
<td>Aditya Kumar Mishra, K Vinay Kumar</td>
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### Department of Electrical & Electronics Engineering

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<tbody>
<tr>
<td>1</td>
<td>Implicit segmentation of Kannada characters in offline handwriting recognition using hidden Markov models</td>
<td>Proceedings of DAR 2014, Bangalore</td>
<td>Manasij Venkatesh Vikas Majjagi Deepu Vijayasenan</td>
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<tr>
<td>2</td>
<td>Stand-alone Integrated Wind and PV Powered Telecommunication Stations</td>
<td>AECT 2015 Manipal, Mangalore</td>
<td>Jnapika Mortha, Eva Pradhan, Dr. R. Kalpana and Saravana Prakash R</td>
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<td>4</td>
<td>A Single-Stage Active Damped LCL-Filter-Based Grid-Connected Photovoltaic Inverter With Maximum Power Point Tracking</td>
<td>18th National Power Systems Conference (NPSC), IIT Guwahati, Assam, India 2014</td>
<td>N. Sandeep, P.S Kulkarni, Udaykumar R. Y</td>
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<td>10</td>
<td>Design and Implementation of High Frequency transformer isolated ac-dc converter for switched mode power supplies</td>
<td>18th National Power Systems Conference (NPSC 2014), Indian Institute of Technology Guwahati (IIT Guwahati), Assam, India, Dec 2014.</td>
<td>Dr. R. Kalpana, Prof. G. Bhuvaneswari, Prof. Bhim Singh and Saravana Prakash P</td>
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**Department of Humanities, Social Sciences and Management**

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<th>Conference Name, Place, Dates, Page Nos.</th>
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<tbody>
<tr>
<td>1.</td>
<td>Role of Indian accreditating bodies in Higher Education&quot;</td>
<td>National conference on Outcome Based Education &quot;HSM Dept. NITK, Surathkal, January 16-17 , 2015.</td>
<td>Krishna Kishore and Sequeira A. H.,&quot;</td>
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<tr>
<td>2.</td>
<td>&quot; Effectiveness of Government Policies and programs for promoting women</td>
<td>National conference on 'MSMEs-Role in propelling economic development of India', R. V. Institute of Mangement</td>
<td>Claret Mendonca and Sequeira A. H.</td>
</tr>
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<tr>
<td>3</td>
<td>Involvement of Behavioral and System factor in Occupational Injuries in Mines</td>
<td>ENTMS-2014, 14&lt;sup&gt;th&lt;/sup&gt; Annual Event on new equipment and new Technology Management and safety in mines and mineral based Industry. Date 11-12, May,2014. Bhuvaneshwar, India</td>
<td>Dr. B. M. Kunar</td>
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### Department of Metallurgical & Materials Engineering

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<tr>
<td>2</td>
<td>Effect of varying content of Sr addition on dendrite coherency of near eutectic Al-11% Si alloy</td>
<td>NMD ATM 2014, Pune, 12-15</td>
<td>12-15 November 2014</td>
<td>Vijeesh V and K.N.Prabhu</td>
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<td>3</td>
<td>Wettability and Bond Strength of Sn-3.5 Lead-free solder alloy re-flowed on copper substrate,</td>
<td>NMD ATM 2014, Pune,</td>
<td>12-15 November 2014</td>
<td>Pranav Nayak, Rakesh Kamath, Mrunali Sona, K.N.Prabhu</td>
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<tr>
<td>5</td>
<td>Assessment of solder joint reliability of Sn-3.8-0.7Cu alloys on copper substrates as a function of reflow time</td>
<td>NMD ATM 2014, Pune</td>
<td>12-15 November 2014</td>
<td>Mrunali Sona and K.N.Prabhu</td>
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### Department of Physics

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<tbody>
<tr>
<td>1</td>
<td>Growth and characterization of</td>
<td>National conference on Condensed Matter Physics and Applications, 27th -</td>
<td>Santhosh T.C.M., Prof. Kasturi V. Bangera,</td>
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<td>Conference/Event</td>
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<td>3.</td>
<td>The effect of current density on morphological and wettability of Porous silicon at the room temperature.</td>
<td>National Conference on ”ADVANCED MATERIALS FOR ENERGY AND ENVIRONMENTALAPPLICATIONS” – (AMEEA), March 18-20(^{th}), 2015. Bharathiar University, Coimbatore</td>
<td>Martha Ramesh and H.S. Nagaraja</td>
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## TECHNICAL EVENTS

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

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<th>Sponsor (s)</th>
<th>Co-ordinator</th>
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<td>Workshop</td>
<td>Recent trends in system application as applied to Civil Engineering</td>
<td>09.01.2015</td>
<td>TEQIP-II</td>
<td>Dr. M.K.Nagaraj &amp; Dr. Manu</td>
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<tr>
<td>International Conference</td>
<td>Water Resources, Coastal and Ocean Engineering (ICWRCOE’15)</td>
<td>12-14 March 2015</td>
<td>NITK, TEQIP-II</td>
<td>Dr. G.S.Dwarakish</td>
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### Foreign Visitors to Department

<table>
<thead>
<tr>
<th>Name of visitor</th>
<th>Designation &amp; Affiliation</th>
<th>Purpose of visit</th>
<th>Dates of visit</th>
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</thead>
<tbody>
<tr>
<td>Deepak, Ph.D.</td>
<td>Professor, Malaysia University, Malaysia</td>
<td>Interaction with faculty and students and given a lecture on details about his Institute and academic programme</td>
<td>02.09.2004</td>
</tr>
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### Indian Visitors to Department

<table>
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<tr>
<th>Name of visitor</th>
<th>Designation &amp; Affiliation</th>
<th>Purpose of visit</th>
<th>Dates of visit</th>
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<tbody>
<tr>
<td>Baba M, Ph.D.</td>
<td>Director, CESS Tiruvanathapuram</td>
<td>Visited the Dept and expert lecture given on ‘Coastal Engineering’</td>
<td>11.04.2014</td>
</tr>
<tr>
<td>D. Nagesh Kumar, Ph.D.</td>
<td>Professir, IISc., Bangalore</td>
<td>Expert for Ph.D viva voce exam</td>
<td>19.05.2014</td>
</tr>
<tr>
<td>Archana Sarkar, Ph.D.</td>
<td>Scientist D, NIH Roorkee</td>
<td>Visited and given a guest lecture ‘Runoff modeling in Himalayan basins and impact of climate change on runoff’ &amp; ANN applications in hydrological modeling – Case studies</td>
<td>19 &amp; 20.06.2014</td>
</tr>
<tr>
<td>Prasad Kumar Bhaskaran, Ph.D.</td>
<td>Professor, IIT, Kharagpur</td>
<td>Expert for Ph.D viva voce exam</td>
<td>08.07.2014</td>
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<tr>
<td>M.C.Deo, Ph.D.</td>
<td>Professor, IIT, Bombay</td>
<td>Expert for Ph.D viva voce exam</td>
<td>10.07.2014</td>
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<td>Sanasiraj, Ph.D.</td>
<td>Professor, IIT Madras</td>
<td>Expert for curriculum revision</td>
<td>12.09.2014</td>
</tr>
<tr>
<td>D. Nagesh Kumar, Ph.D.</td>
<td>Professir, IISc., Bangalore</td>
<td>Expert for curriculum revision</td>
<td>15.09.2014</td>
</tr>
<tr>
<td>B.Venkatesh, Ph.D.</td>
<td>Scientist, NIH, Balgaum</td>
<td>Expert for curriculum revision</td>
<td>15.09.2014</td>
</tr>
<tr>
<td>S.Mandal, Ph.D.</td>
<td>Scientist, NIO, Goa</td>
<td>Expert for curriculum revision</td>
<td>15.09.2014</td>
</tr>
</tbody>
</table>
### Department of Chemical Engineering

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

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

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

#### Conducted Conference

<table>
<thead>
<tr>
<th>Type of Event</th>
<th>Name of Event (Topic)</th>
<th>Dates &amp; Duration</th>
<th>Sponsors</th>
<th>Coordinators</th>
</tr>
</thead>
</table>

Participants: Faculties from other institutes, industry persons, research scholars

Resource Persons:

- Shri. H S Varadarajan, Chief Fire Officer Mangalore District
- N. Singh, Ph.D. IITB, Mumbai
- Mr. K G Nanjappa, Deputy Director Inspector of Factories, Mangalore
- Balakrishna, Ph.D. Associate Professor, Dept. of Civil Engineering, MIT Manipal
- B C Meikap, Ph.D. Professor, Dept. of Chemical Engineering IIT Kharagpur
- Raj Mohan B, Ph.D. Associate Professor, Dept. of Chemical Engineering, NITK
- Lakshman Nandagiri, Ph.D. Professor Dept. of Applied Mechanics and Hydraulics, NITK
- G. Srinikethan, Ph.D. Professor, Dept. of Chemical Engineering, NITK

Resource Persons:

- Katta Venkatramana, Ph.D. Professor, Dept. of Civil Engineering, NITK
- Sekar, Ph.D. Associate Professor, Dept. of Botany, Pachaiyappa College
- N. Selvaraju, Ph.D. NITC, Assistant Professor, Dept. of Chemical Engineering, NIT Calicut

Jagannathan T K, Ph.D. Asst. Professor, Dept. of Chemical Engineering, NITK Dr. Ravikumar, Assistant Professor, Ph.D. Dept. of Chemical / BioChemical Engg, Catholic, University of Daegu

R J Krupadam, Ph.D. Sr. Scientist, Environmental Impact & Risk Assessment Division, NEERI Nagpur

V. R. Sastry, Ph.D. Professor, Dept. of Mining Engineering, NITK

Sarath Chandra Kar, Ph.D. Scientist – G NCMRWF, MoES, Noida, India

D Venkat Reddy, Ph.D. Professor, Dept of Civil Engineering, NITK

Dwarakish G S, Ph.D. Professor, Dept. of Applied Mechanics and
### Foreign Visitors to Department

<table>
<thead>
<tr>
<th>Name of Visitor</th>
<th>Designation &amp; affiliation</th>
<th>Purpose of Visit</th>
<th>Dates of Visit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. Nitash P. Balsara</td>
<td>Professor of Chemical and Biomolecular Engineering, and Faculty Senior Scientist, Environmental Energy Technologies and Materials Sciences Division, Lawrence Berkeley National Laboratory, University of California, Berkeley</td>
<td>Invited by Indian Academy of Science to deliver lectures in premier institutes in India &amp; deliver a Talk on “Batteries, Biofuels and the Sustainable Energy Landscape”.</td>
<td>18th November, 2014</td>
</tr>
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</table>

### Special Lectures Delivered by the Industry Personnel:

<table>
<thead>
<tr>
<th>Name of Experts</th>
<th>Topic of lecture</th>
<th>Dates of Visit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Ramesh S, General Manager, (Quality Control &amp; R&amp;D), MRPL</td>
<td>Refinery Feedstock and products-Properties and Quality (including evaluation)”</td>
<td>29th October 2014</td>
</tr>
<tr>
<td>Praveen P, Senior Manager, MRPL</td>
<td>Expert lecture series on Petroleum Refining</td>
<td>14th November, 2014</td>
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</tbody>
</table>

### Department of Civil Engineering

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

<table>
<thead>
<tr>
<th>Type of Event</th>
<th>Name of Event</th>
<th>Dates &amp; Duration</th>
<th>Sponsor(s)</th>
<th>Coordinator(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workshop</td>
<td>&quot;Mitigation of Road Disasters&quot; jointly organised by the Centre for Disaster Risk Reduction and the DCE, NITK, Surathkal.</td>
<td>15-17 Sep., 2014</td>
<td>TEQIP-II, NITK</td>
<td>Suresha S. N. Ph.D. &amp; A. Gowri, Ph.D. Convener: S.S. Shrihari, Ph.D.</td>
</tr>
</tbody>
</table>

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

### Department of Computer Engineering

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

<table>
<thead>
<tr>
<th>Type of Event</th>
<th>Name of Event</th>
<th>Dates &amp; Duration</th>
<th>Sponsor(s)</th>
<th>Coordinator(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workshop</td>
<td>Simulation of Wired and Wireless Networks (SWN-2014)</td>
<td>Three day, 03rd-05th July 2014</td>
<td>TEQIP-II</td>
<td>B.R. Chandavarkar, Ph.D. and Mohit P. Tahiliani, Ph.D.</td>
</tr>
<tr>
<td>Expert Lecture</td>
<td>Compiler Techniques for Efficient Assembly Code Generation&quot;, by Dr. Janakiraman V, Research Engineer, IBM Pvt. Ltd.</td>
<td>02nd August 2014</td>
<td>Institute fund</td>
<td>Basavaraj Talawar, Ph.D.</td>
</tr>
<tr>
<td>Expert Lecture</td>
<td>&quot;Non-blocking Process Synchronization and Transactional Memory&quot;, by Dr. Nabendu Chaki, Department of Computer Science and Engineering, University of Calcutta, India</td>
<td>13th August 2014</td>
<td>Institute fund</td>
<td>Annappa, Ph.D.</td>
</tr>
<tr>
<td>Workshop</td>
<td>Information Security and Cryptography</td>
<td>Two days, 15-16th September 2014</td>
<td>TEQIP-II</td>
<td>P. Santhi Thilagam, Ph.D. Alwyn R. Pais, Ph.D.</td>
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<tr>
<td>Type of Event</td>
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</tr>
<tr>
<td>Expert Lecture</td>
<td>“Multicore Memory Hierarchy and SRAMs”, by Mr. Viveka K R</td>
<td>20&lt;sup&gt;th&lt;/sup&gt; September 2014</td>
<td>Institute fund</td>
<td>Basavaraj Talawa, Ph.D.</td>
</tr>
<tr>
<td>Expert Lecture</td>
<td>“Advanced Topics in Memories- eDRAM, PCMs, Flash” by Dr. Balaji Jayaram, Staff Research Engineer, IBM Pvt. Ltd., Bangalore</td>
<td>20&lt;sup&gt;th&lt;/sup&gt; September 2014</td>
<td>Institute fund</td>
<td>Basavaraj Talawar, Ph.D.</td>
</tr>
<tr>
<td>Workshop</td>
<td>Cloud Computing and Big Data</td>
<td>One day, 30&lt;sup&gt;th&lt;/sup&gt; September 2014</td>
<td>K. Chandrasekaran, Ph.D.</td>
<td></td>
</tr>
<tr>
<td>Talk</td>
<td>“A Deterministic Measure and an Information Computing Machine”, by Dr. Debabrata Saha, from USA</td>
<td>11&lt;sup&gt;th&lt;/sup&gt; November 2014</td>
<td>K. Chandrasekaran, Ph.D.</td>
<td></td>
</tr>
<tr>
<td>Webinar</td>
<td>In Memory Databases</td>
<td>13&lt;sup&gt;th&lt;/sup&gt; November 2014</td>
<td>Annappa, Ph.D.</td>
<td></td>
</tr>
<tr>
<td>Special Lectures</td>
<td>“Number Theory &amp; Cryptography”, by Prof. B.B. Amberker, Professor, Dept. of Computer Engineering, NIT Warangal</td>
<td>13-14&lt;sup&gt;th&lt;/sup&gt; November 2014</td>
<td>Mr. Alwyn R. Pai</td>
<td></td>
</tr>
<tr>
<td>A Meeting cum Interaction session</td>
<td>Prof. Satish K. Tripathi, President, University at Buffalo, NY, USA</td>
<td>14&lt;sup&gt;th&lt;/sup&gt; November 2014</td>
<td>K. Chandrasekaran, Ph.D.</td>
<td></td>
</tr>
<tr>
<td>Workshop</td>
<td>Mobile Health</td>
<td>One day, 21&lt;sup&gt;st&lt;/sup&gt; November 2014</td>
<td>Jeny Rajan, Ph.D.</td>
<td></td>
</tr>
<tr>
<td>Talk</td>
<td>“Open Power and Emerging Areas”, by Mr. Dipankar Sarma, Distinguished Engineer, IBM, Bangalore</td>
<td>28&lt;sup&gt;th&lt;/sup&gt; November 2014</td>
<td>K. Chandrasekaran, Ph.D.</td>
<td></td>
</tr>
<tr>
<td>Third International Conference</td>
<td>Eco-friendly Computing and Communication Systems – ICECCS 2014</td>
<td>Four days, 18&lt;sup&gt;th&lt;/sup&gt; – 21&lt;sup&gt;st&lt;/sup&gt; December, 2014</td>
<td>Institute fund</td>
<td>K. Chandrasekaran, Ph.D. Mohit P. Tahiliani</td>
</tr>
<tr>
<td>Workshop</td>
<td>Data Science</td>
<td>Two days 27&lt;sup&gt;th&lt;/sup&gt; – 28&lt;sup&gt;th&lt;/sup&gt; February 2015</td>
<td>Annappa, Ph.D. Mr. B.R. Chandavarkar</td>
<td></td>
</tr>
<tr>
<td>Type of Event</td>
<td>Name of Event</td>
<td>Dates &amp; Duration</td>
<td>Sponsor(s)</td>
<td>Coordinator(s)</td>
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<tr>
<td>Workshop</td>
<td>Microsoft HACKATHON</td>
<td>07-08 Feb 2015</td>
<td>--</td>
<td>K. Chandrasekaran, Ph.D.</td>
</tr>
<tr>
<td>Expert Lecture</td>
<td>“DNS Security” by Balaji Rejandran, Ph.D.</td>
<td>27th-28th March 2015</td>
<td>Institute fund</td>
<td>K. Chandrasekaran, Ph.D.</td>
</tr>
<tr>
<td>Expert Lecture</td>
<td>“Penetration Testing” by Mr. Manish Kumar</td>
<td>27th-28th March 2015</td>
<td>Institute fund</td>
<td>K. Chandrasekaran, Ph.D.</td>
</tr>
<tr>
<td>Expert Lecture</td>
<td>“Understanding the correctness requirements of software transactional memory systems” by Satya Peri, Ph.D.</td>
<td>25th March 2015</td>
<td>Institute fund</td>
<td>Annappa, Ph.D.</td>
</tr>
</tbody>
</table>

**Foreign Visitors to Department:**

<table>
<thead>
<tr>
<th>Name of the Visitor</th>
<th>Designation &amp; Affiliation</th>
<th>Purpose of visit</th>
<th>Date of Visit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. Raj Acharya</td>
<td>Dept. of CSE at Penn State University, U.S.A.</td>
<td>Opinion sharing on POs, PEOs, OBEs of NBA PG SAR &amp; Expert Speaker for Workshop Cloud Computing and Big Data</td>
<td>30th September 2014</td>
</tr>
<tr>
<td>Debabrata Saha, Ph.D.</td>
<td>USA</td>
<td>Gave a talk on “A Deterministic Measure and an Information Computing Machine”</td>
<td>11th November 2014</td>
</tr>
<tr>
<td>Prof. Satish K.Tripathi</td>
<td>President, University at Buffalo, NY, USA</td>
<td>A meeting cum interaction session with faculty members</td>
<td>14th November 2014</td>
</tr>
<tr>
<td>Dharma P. Agrawal, Ph.D.</td>
<td>Ohio Board of Regents Distinguished Professor and Director, Center for Distributed and Mobile Computing, EECS Department, University of</td>
<td>ICECCS 2014, delivered a keynote address on Magic of Wireless Sensor Networks</td>
<td>18th – 21st December, 2014</td>
</tr>
<tr>
<td>Name of the Visitor</td>
<td>Designation &amp; Affiliation</td>
<td>Purpose of visit</td>
<td>Date of Visit</td>
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<td>--------------------------</td>
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</tr>
<tr>
<td>Zoran Stamenkovic, Ph.D.</td>
<td>IHP, GmbH, Frankfurt (Oder), Germany</td>
<td>ICECCS 2014, delivered a keynote address on “Low Power Design for Integrated Circuits”</td>
<td>18th – 21st December, 2014</td>
</tr>
<tr>
<td>Prof. San Murugesan</td>
<td>BRITE Professional Services and University of Western Sydney, Australia and Editor in Chief, IEEE IT Professional</td>
<td>ICECCS 2014, delivered a keynote address on “Green Computing”</td>
<td>18th – 21st December, 2014</td>
</tr>
<tr>
<td>Professor Ashok Deshpande PhD</td>
<td>Founding Chair: Berkeley Initiative in Soft Computing (BISC) - UC Berkeley CA; Guest Faculty: University of California Berkeley; Visiting Professor: Indian Institute of Technology, Mumbai India; Adjunct Professor: College of Engineering Pune (COEP) India; Former Deputy Director: National Environmental Engineering Research Institute (NEERI)/CSIR</td>
<td>ICECCS 2014, delivered a keynote address on “Fuzzy Relational Calculus on Energy Options?—Towards Decision Making under Risk and Uncertainty”</td>
<td>18th – 21st December, 2014</td>
</tr>
<tr>
<td>Nirmalya Roy, Ph.D.</td>
<td>Analytics, by Assistant Professor, Department of Information Systems, University of Maryland Baltimore County, Baltimore, USA</td>
<td>ICECCS 2014, delivered a keynote address on “Green Building Energy”</td>
<td>18th – 21st December, 2014</td>
</tr>
<tr>
<td>Vinod Namboodiri, Ph.D.</td>
<td>Associate Professor and Graduate Coordinator, Wichita State University</td>
<td>ICECCS 2014, delivered a keynote address on “Smart Grids and Green Mobile Computing: Two Frontiers of Eco-friendly Computing and Communications”</td>
<td>18th – 21st December, 2014</td>
</tr>
<tr>
<td>Prof. D.K. Arvind</td>
<td>Professor, University of Edinburg</td>
<td>ICECCS 2014, delivered a keynote address on “Speckled Computing”</td>
<td>18th – 21st December, 2014</td>
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</tbody>
</table>
Name of the Visitor | Designation & Affiliation | Purpose of visit | Date of Visit
--- | --- | --- | ---
Mr. Yann Busnel and Mrs. Esther Lalau Keraly | Delegation from ENSAI (National Graduate School for Statistics and Data Analysis) | Interaction with CSE & IT faculty members and students | 26th February 2015

**Department of Chemistry**

<table>
<thead>
<tr>
<th>Type of Event</th>
<th>Name of Event</th>
<th>Dates &amp; Duration</th>
<th>Sponsor(s)</th>
<th>Coordinator(s)</th>
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</thead>
<tbody>
<tr>
<td>BARC Outreach program</td>
<td>BARC Outreach program</td>
<td>10th February 2015</td>
<td>BARC &amp; NITK Surathkal</td>
<td>Arun M. Isloor, Ph.D.</td>
</tr>
<tr>
<td>Plastic waste &amp; E-waste management awareness program</td>
<td>One day workshop</td>
<td>31st January 2015</td>
<td>Small industries &amp; plastic manufacturers association, Mangalore</td>
<td>Arun M. Isloor, Ph.D.</td>
</tr>
</tbody>
</table>

**Foreign Visitors to Department: 01**

<table>
<thead>
<tr>
<th>Name of Visitor</th>
<th>Designation &amp; Affiliation</th>
<th>Purpose of visit</th>
<th>Dates of Visit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valiyaveettil, Suresh</td>
<td>Associate Professor, National University of Singapore</td>
<td>Guest lecturer</td>
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</tbody>
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**Department of Electronics And Communication Engineering**

<table>
<thead>
<tr>
<th>Type of Event</th>
<th>Name of Event</th>
<th>Dates &amp; Duration</th>
<th>Sponsor</th>
<th>Coordinator(s)</th>
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</thead>
<tbody>
<tr>
<td>Seminar</td>
<td>Lecture on Micro-fluidic Biochips for Automating Biochemical Protocols – A Walk Through by Dr. Bhargab B. Bhattacharya Professor, Computer Science &amp; Engg, Indian Statistical Institute, Calcutta</td>
<td>5th March 2014</td>
<td>Dept. of ECE</td>
<td>Muralidhar Kulkarni, Ph.D. &amp; M S Bhat, Ph.D.</td>
</tr>
<tr>
<td>Finishing School</td>
<td>Finishing School conducted for PG students</td>
<td>between 12-08-2014 and 06-11-2014</td>
<td>TEQIP II</td>
<td>U Sriapti, Ph.D.</td>
</tr>
<tr>
<td>Workshop</td>
<td>FPGA Design - An Industry perspective</td>
<td>August 22-24, 2014</td>
<td>TEQIP II</td>
<td>U Sriapti, Ph.D.</td>
</tr>
<tr>
<td>STTP</td>
<td>Photonics, Optical Communication Systems and Networks</td>
<td>September 8-10, 2014</td>
<td>TEQIP II</td>
<td>Muralidhar Kulkarni, Ph.D. &amp; U Sripati, Ph.D.</td>
</tr>
<tr>
<td>Seminar</td>
<td>Reversible Computing: Low Power Applications by Dr. Hafizur</td>
<td>28th October 2014</td>
<td>Dept. of ECE</td>
<td>M S Bhat, Ph.D.</td>
</tr>
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</table>

Annual Report 2014-15
<table>
<thead>
<tr>
<th>Event Type</th>
<th>Event Details</th>
<th>Date(s)</th>
<th>Sponsor(s)</th>
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<tbody>
<tr>
<td>Winter School</td>
<td>NITK – CMU Joint Winter School 2014</td>
<td>December 10-24, 2014</td>
<td>TEQIP II</td>
</tr>
<tr>
<td></td>
<td>Rahaman Professor, Dept. of Information Technology, Indian Institute of Engg. Science &amp; Technology (IIEST), Kolkata</td>
<td></td>
<td>Prof Bhiksha Raj, Carnegie Mellon University, Pittsburgh, USA</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>Prof Sumam David S, NITK</td>
</tr>
<tr>
<td>Conference</td>
<td>ISED 2014</td>
<td>December 15-17, 2014</td>
<td>TEQIP II</td>
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<td>M S Bhat, Ph.D.</td>
</tr>
<tr>
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<td></td>
<td>Muralidhar Kulkarni, Ph.D.</td>
</tr>
<tr>
<td>Seminar</td>
<td>Internet of Things (IoT) by Atul Sharma, Gila Services Pvt. Ltd Bangalore</td>
<td>9th January 2015</td>
<td>Dept. of ECE</td>
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<tr>
<td></td>
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<td></td>
<td>Muralidhar Kulkarni, Ph.D.</td>
</tr>
<tr>
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<td></td>
<td>N S V Shet, Ph.D.</td>
</tr>
<tr>
<td>Seminar</td>
<td>Cardiology by Mr. Anand Madanagopal, Cardiac Design Labs, Bangalore</td>
<td>28th January 2015</td>
<td>Dept. of ECE</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>M S Bhat, Ph.D.</td>
</tr>
<tr>
<td>STTP</td>
<td>Introduction to Biomedical Electronics and Biomedical Imaging</td>
<td>March 2-3, 2015</td>
<td>TEQIP II</td>
</tr>
<tr>
<td>Workshop</td>
<td>Intel Galileo - Hands-on embedded system</td>
<td>March 13-14, 2015</td>
<td>TEQIP II</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>Ramesh Kini, Ph.D.</td>
</tr>
<tr>
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<td>Aparna P, Ph.D.</td>
</tr>
<tr>
<td>Seminar</td>
<td>Optimal Signaling for Multi-Level Amplitude-Shift Keying with Single-Input Multiple-Output and Noncoherent Reception by Ranjan K. Mallik Dept of Electrical Engg. IIT Delhi</td>
<td>16th March 2015</td>
<td>Dept. of ECE</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>M S Bhat, Ph.D.</td>
</tr>
</tbody>
</table>

### Foreign Visitors to Department

<table>
<thead>
<tr>
<th>Name of Visitor</th>
<th>Designation &amp; Affiliation</th>
<th>Purpose of visit</th>
<th>Dates of Visit</th>
</tr>
</thead>
</table>
| Dr. T Kirubarajan | Professor & Canada Research Chair in Information Fusion Associate Chair                  | Introduction to Radar Target Tracking  
Radar Target Tracking - I  
Radar Target Tracking - II  
Multiple Target Tracking  
Entrepreneurship  
Overview of Graduate Studies at McMaster University, Canada | August 21-23, 2014                                    |
<p>| Dr. Vijayan K Asari | Professor in Electrical and Computer Engineering Ohio Research Scholars              | Advanced Image Analysis for Automatic Object, Detection,                                               | 27th August                 |</p>
<table>
<thead>
<tr>
<th>Type of Event</th>
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<th>Dates &amp; Duration</th>
<th>Sponsor(s)</th>
<th>Coordinator(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short Term Course (STTP)</td>
<td>Power Electronics Applications and Technology in Present Energy Scenario</td>
<td>4th March 2015-6th March 2015</td>
<td>TEQIP – Phase II NITK Surathkal</td>
<td>Vinatha, Ph.D. and R. Kalpana, Ph.D.</td>
</tr>
</tbody>
</table>
### One day Expert lecture

**Expert lecture on Morphological aspects of Image Processing by Prof. B S Dayasagar**

- **Date:** 12-04-2014
- **Sponsor:** TEQIP-II
- **Coordinator:** A Chaturvedi, Ph.D.

**Expert lecture on Image Processing By Prof. B L Deekshatulu**

- **Date:** 8-08-2014
- **Sponsor:** TEQIP-II
- **Coordinator:** A Chaturvedi, Ph.D.

### Department of Humanities, Social Sciences and Management

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

<table>
<thead>
<tr>
<th>Type of Event</th>
<th>Name of Event</th>
<th>Dates &amp; Duration</th>
<th>Sponsor(s)</th>
<th>Coordinator(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conference</td>
<td>1) Two day national conference on outcome based education</td>
<td>16 &amp; 17 January</td>
<td>NITK</td>
<td>Bijuna C Mohan, Ph.D.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Suprabha K. R., Ph.D.</td>
</tr>
<tr>
<td>Workshop</td>
<td>1. Research Methodology</td>
<td>16th November 2014</td>
<td>NITK</td>
<td>Pavan S, Ph.D.</td>
</tr>
<tr>
<td></td>
<td>2. Mobile Health</td>
<td>21st November 2014</td>
<td></td>
<td>A.H. Sequeira, Ph.D.</td>
</tr>
<tr>
<td>Seminar</td>
<td>1. 'Capital Market Awareness Program' By Mr. Sumeet Nayak, Vice President, Lotus Knowledge</td>
<td>15 October 2014</td>
<td>NITK</td>
<td>Suprabha, Ph.D.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>A. H. Sequeira, Ph.D.</td>
</tr>
<tr>
<td></td>
<td>2. 'Monetary Economics and Business Cycles' By Dr. Kishore Chandra, EPGP IIM, Bangalore</td>
<td>10 October 2014</td>
<td>NITK</td>
<td>Prof. A. H. Sequeira, Ph.D.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Mr. C. Saho</td>
</tr>
<tr>
<td></td>
<td>3. 'Financial Education'- in collaboration with Securities and Exchange Board of India by Mr. Anil Kumar M, Research Scholar and SEBI Resource Person</td>
<td>19 September 2014</td>
<td>NITK</td>
<td>A.H. Sequeira, Ph.D.</td>
</tr>
</tbody>
</table>

### Foreign Visitors to Department

<table>
<thead>
<tr>
<th>Name of Visitor</th>
<th>Designation &amp; Affiliation</th>
<th>Purpose of visit</th>
<th>Dates of Visit</th>
</tr>
</thead>
</table>

*Annual Report 2014-15*
Department of Mathematical & Computational Sciences

<table>
<thead>
<tr>
<th>Type of Event</th>
<th>Name of Event</th>
<th>Dates &amp; Duration</th>
<th>Sponsor(s)</th>
<th>Coordinator(s)</th>
</tr>
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<tbody>
<tr>
<td>Workshop</td>
<td>Functional Analysis and Operator Algebras</td>
<td>02-07, June 2014</td>
<td>NBHM &amp; NITK Surathkal</td>
<td>P. Sam Johnson, Ph.D. and V. Murugan, Ph.D.</td>
</tr>
<tr>
<td>Conference</td>
<td>23rd International Conference on Interdisciplinary Mathematical, Statistical and Computational Techniques</td>
<td>18-20th December 2014</td>
<td>Forum for Interdisciplinary Mathematics, NITK, TEQIP NITK Surathkal, Karnataka Bank, Epson India, SBI NITK Surathkal Branch.</td>
<td>S.M. Hegde, Ph.D.</td>
</tr>
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Foreign Visitors to Department:

<table>
<thead>
<tr>
<th>Name of Visitor</th>
<th>Designation &amp; Affiliation</th>
<th>Purpose of visit</th>
<th>Dates of Visit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. Junzo Watada</td>
<td>Professor, Graduate School of Information, Production and Systems, Waseda University, Japan</td>
<td>Delivered a talk entitled &quot;Building Linear Regression Model: Statistical Model to Fuzzy Model&quot; on 16th of December, 2014 at 4 p.m.</td>
<td>16th of December, 2014.</td>
</tr>
</tbody>
</table>

Department of Information Technology

STTPs/Schools/Conferences/Seminars/Workshops, etc

<table>
<thead>
<tr>
<th>Type of Event</th>
<th>Name of Event</th>
<th>Dates &amp; Duration</th>
<th>Sponsor(s)</th>
<th>Coordinator(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expert Lecture</td>
<td>IT300-Parallel Computing by Dr. Prakash S R Principal Member of Technical Staff (PMTS) AMD India Pvt. Ltd. Bangalore</td>
<td>21/08/2014, 22/08/2014, 23/08/2014</td>
<td>IT Dept. NITK</td>
<td>Ananthanarayana V S, Ph.D.</td>
</tr>
<tr>
<td>Expert Lecture</td>
<td>Advances in Web Technologies - An Industry Perspective by Mr. Ashish Agarwal, Group Technology Manager, Infosys Technologies</td>
<td>1/9/2014</td>
<td>IT Dept. NITK</td>
<td>Ananthanarayana V S, Ph.D.</td>
</tr>
<tr>
<td>Expert</td>
<td>Internet of Things by Atul</td>
<td>9/1/2015</td>
<td>IT Dept.</td>
<td>Ananthanarayana V S,</td>
</tr>
<tr>
<td>Type of Event</td>
<td>Name of Event</td>
<td>Dates &amp; Duration</td>
<td>Sponsor(s)</td>
<td>Coordinator(s)</td>
</tr>
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</tr>
<tr>
<td>Expert Lecture</td>
<td>Expert Lecture on Heat Conduction</td>
<td>2/25/2015, 2 hr</td>
<td>Department of Mechanical Engineering</td>
<td>N. Gnanasekaran, Ph.D.</td>
</tr>
<tr>
<td>Expert Lecture</td>
<td>Expert Lecture on Mind and its Control</td>
<td>3/24/2015, 2 hr</td>
<td>TEQIP</td>
<td>N. Gnanasekaran, Ph.D.</td>
</tr>
<tr>
<td>Expert Lecture</td>
<td>Expert Lecture on Overview of intelligent manufacturing system on qualitative manufacturing of tools in the tooling industries</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Expert Lecture</td>
<td>Expert Lecture on Publication Ethics and Journal Paper writing</td>
<td>18th December 2014</td>
<td>Department of Mechanical Engineering</td>
<td>Mrityunjay Doddamani, Ph.D.</td>
</tr>
<tr>
<td>International Conference</td>
<td>International Conference on Polymer Composites (ICPC-2014)</td>
<td>19-20 DEC 2014</td>
<td>TEQIP &amp; CSIR</td>
<td>G C MOHAN KUMAR, Ph.D., RAMESH, Ph.D., P JEYRAJ AND MR DODDDMANI, Ph.D.</td>
</tr>
</tbody>
</table>

**Foreign Visitors to Department**

<table>
<thead>
<tr>
<th>Name of Visitor</th>
<th>Designation &amp; Affiliation</th>
<th>Purpose of visit</th>
<th>Dates of Visit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. Raj Acharya</td>
<td>Professor &amp; Head, Dept. of CSE, Pennsylvania state University USA</td>
<td>MOU</td>
<td>30th Sept. 2014</td>
</tr>
</tbody>
</table>

**Department Of Mechanical Engineering**

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

**Foreign visitors to Department**

<table>
<thead>
<tr>
<th>Name of the visitor</th>
<th>Designation and Affiliation</th>
<th>Purpose of visit</th>
<th>Date of visit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Prasanna Kumar T S</td>
<td>Former Professor, IIT Madras</td>
<td>Guest Lecture</td>
<td>2/25/2015</td>
</tr>
<tr>
<td>Swami</td>
<td>Editor, Vedanta</td>
<td>Guest Lecture</td>
<td>3/24/2015</td>
</tr>
</tbody>
</table>
National Institute of Technology Karnataka, Surathkal

Atmashraddanadha Kesari, Ramakrishna mission, Chennai

Dr. Nikhil Gupta Professor, New York University, New York, USA Guest Lecture 18th December 2014

Department Of Metallurgical & Materials Engineering

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

<table>
<thead>
<tr>
<th>Type of Event</th>
<th>Name of Event</th>
<th>Dates &amp; Duration</th>
<th>Sponsor(s)</th>
<th>Coordinator(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workshop</td>
<td>COMSOL Multiphysics modeling workshop</td>
<td>23 May 2014</td>
<td>COMSOL India, and MEA-NITK</td>
<td>Sreeram K. Kalpathy</td>
</tr>
</tbody>
</table>

Foreign Visitors to Department:

<table>
<thead>
<tr>
<th>Name of Visitor</th>
<th>Designation &amp; Affiliation</th>
<th>Purpose of visit</th>
<th>Date of visit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Robert Strehle</td>
<td>Zwick, Germany</td>
<td>Speaker, Workshop on Mechanical Testing &amp; Characterization of Materials</td>
<td>October 31, 2014</td>
</tr>
<tr>
<td>Dr. Taik Nam Kim</td>
<td>Professor Dept. of Materials Science &amp; Engineering, Paichai Univ., Daejeon, Korea</td>
<td>Special Lecture</td>
<td>4-12-2015</td>
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</tbody>
</table>

CONSULTANCY PROJECTS

Department of Applied Mechanics And Hydraulics

<table>
<thead>
<tr>
<th>Name of consultancy job</th>
<th>Client</th>
<th>Name of investigators (s)</th>
<th>Consultancy amount (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Topography survey work of the submergence area</td>
<td>M/s Sahasraligeshwara Power Pvt. Ltd., Bangalore</td>
<td>S.G. Mayya, Ph.D.</td>
<td>0.88</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>-------------------------------------------------</td>
<td>------------------</td>
<td>------</td>
</tr>
<tr>
<td>Towards collection &amp; testing of water sample from NMPT area</td>
<td>NMPT, Panambur</td>
<td>M.K. Nagaraj, Ph.D.</td>
<td>3.00</td>
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</tbody>
</table>

**Department of Chemical Engineering**

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

**Department of Civil Engineering**

<table>
<thead>
<tr>
<th>Name of Consultancy Job</th>
<th>Client</th>
<th>Name of Investigator(s)</th>
<th>Period</th>
<th>Consultancy Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proof checking of Structural drawings for upgradation of Rajaji Medical College, Madurai</td>
<td>HLL Lifecare Limited, Thiruvananthapuram</td>
<td>K Venkataramana, Ph.D. K S Babu Narayan, Ph.D.</td>
<td>2014-2016</td>
<td>Rs.7 lakhs</td>
</tr>
<tr>
<td>Proof checking of Structural drawings for BDA housing project, Bangalore</td>
<td>K Gowda &amp; Co. Bangalore</td>
<td>K Venkataramana, Ph.D. B R Jayakeshi, Ph.D.</td>
<td>2015-2016</td>
<td>Rs 5 lakhs</td>
</tr>
</tbody>
</table>
## Department of Electronics And Communication Engineering

<table>
<thead>
<tr>
<th>Name of Consultancy Job</th>
<th>Client</th>
<th>Name of Investigator(s)</th>
<th>Period</th>
<th>Consultancy Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical Consultancy for Selection of Currency Note Sorting Machines</td>
<td>Syndicate Bank</td>
<td>U Sripati, Ph.D. T Laxminidhi, Ph.D.</td>
<td>01-07-2013 to 01-05-2014</td>
<td>Rs. 9.0 Lakhs</td>
</tr>
<tr>
<td>Technical Consultancy for Selection of Currency Note Sorting Machines</td>
<td>Corporation Bank</td>
<td>U Sripati, Ph.D. T Laxminidhi, Ph.D.</td>
<td>15-10-2013 to 31-04-2014</td>
<td>Rs. 7.5 Lakhs</td>
</tr>
</tbody>
</table>

## Department of Humanities, Social Sciences & Management

<table>
<thead>
<tr>
<th>Name of Consultancy Job</th>
<th>Client</th>
<th>Name of Investigator(s)</th>
<th>Period</th>
<th>Consultancy Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Market study to find out distributor and consumer perception</td>
<td>Classic Fusion Metals</td>
<td>Bijuna C Mohan, Ph.D. &amp; K V Gangadharan, Ph.D.</td>
<td>Ongoing</td>
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</table>

## Department of Mechanical Engineering

<table>
<thead>
<tr>
<th>Name of Consultancy Job</th>
<th>Client</th>
<th>Name of Investigator(s)</th>
<th>Period</th>
<th>Consultancy Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Damping characterization of different material</td>
<td>Different clients</td>
<td>K V Gangadharan, Ph.D.</td>
<td>2013-2014</td>
<td>0.10 Lakhs</td>
</tr>
<tr>
<td>Vibration analysis of Sinter Plant</td>
<td>SESA Goa</td>
<td>K V Gangadharan, Ph.D.</td>
<td>2013-2014</td>
<td>1.00 Lakhs</td>
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</tbody>
</table>

## Department of Mining Engineering

<table>
<thead>
<tr>
<th>Name of Consultancy Job</th>
<th>Client</th>
<th>Name of Investigator(s)</th>
<th>Period</th>
<th>Consultancy Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ground Vibration Monitoring</td>
<td>The Deputy Director Dept. of Mines and Geology Tumkur Karnataka</td>
<td>V.R.Sastry, Ph.D.</td>
<td>From 1/04/2014 to 31/03/2015</td>
<td>84,270/-</td>
</tr>
<tr>
<td>Slope stability study and risk assessment at limestone mines</td>
<td>M/s. Ramco Cements Ltd. Govindapuram, Sendwai Road</td>
<td>M.Aruna, Ph.D.</td>
<td>From 1/04/2014 to 31/03/2015</td>
<td>4,49,440/-</td>
</tr>
<tr>
<td>Project Description</td>
<td>Organization Name and Address</td>
<td>Principal Investigator(s)</td>
<td>Duration</td>
<td>Funded Amount</td>
</tr>
<tr>
<td>----------------------------------------------------------</td>
<td>---------------------------------------------------------------------</td>
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</tr>
<tr>
<td>Rock Dredging of Iron Harbour Chand and TC in VPT</td>
<td>M/s. Dharti Dredging &amp; Infrastructure Ltd., Pun jagutta, Hyderabad</td>
<td>V.R. Sastry, Ph.D.</td>
<td>From 1/04/2014 to 31/03/2015</td>
<td>7,58,430/-</td>
</tr>
<tr>
<td>Impact of lasting operating on the stability of water tank of Kerala water Authority</td>
<td>Sri D. Bijulae, Muthathala Post, Kollam Dist. Kerala</td>
<td>V.R. Sastry, Ph.D.</td>
<td>From 1/04/2014 to 31/03/2015</td>
<td>2,24,720/-</td>
</tr>
<tr>
<td>Controlled Blasting Methodology</td>
<td>Bangalore Metro Railway Corporation LTD. K.H.Road, Shanthi Nagar, Bangalore</td>
<td>V.R. Sastry, Ph.D. &amp; K Ram Chandar, Ph.D.</td>
<td>From 1/04/2014 to 31/03/2015</td>
<td>35,00,000/-</td>
</tr>
<tr>
<td>Scientific study to determine optimum pit slop angle in opencast mines in the state of Karnataka</td>
<td>The Department of Mines &amp; Geology, Govt. of Karnataka</td>
<td>M. Aruna, Ph.D. &amp; Harsha Vardhan, Ph.D.</td>
<td>From 1/04/2014 to 31/03/2015</td>
<td>48,95,067/-</td>
</tr>
<tr>
<td>Ground vibration study</td>
<td>M/s. RNS Infrastructure Ltd. Bangalore</td>
<td>Prof. V.R. Sastry, Ph.D.</td>
<td>From 1/04/2014 to 31/03/2015</td>
<td>84,270/-</td>
</tr>
<tr>
<td>Survay and Demarrcation of M.L No. 2394 at Bagalkot</td>
<td>M/s. Doddannavar Brothers Heremagi Ramtal 7 H.S Ihole Iron Ore Mine Bagalkot.</td>
<td>M. Aruna, Ph.D. &amp; Harsha Vardhan, Ph.D.</td>
<td>From 1/04/2014 to 31/03/2015</td>
<td>80,000/-</td>
</tr>
<tr>
<td>Scientific study for usage and optimization of ANFO in OC Mines of SCCL</td>
<td>The General Manager (R&amp;D) M/s. Singareni colleries Company Ltd. Kothegudem</td>
<td>V.R. Sastry, Ph.D.</td>
<td>From 1/04/2014 to 31/03/2015</td>
<td>7,25,846/-</td>
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<tr>
<td>Description</td>
<td>Client Details</td>
<td>Person in Charge</td>
<td>Duration</td>
<td>Amount</td>
</tr>
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<td>-------------------------------------------------</td>
<td>---------------------------------------------------------------------------------</td>
<td>------------------------</td>
<td>-----------------------------------</td>
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</tr>
<tr>
<td>Slope Stability Studies at C.N.halli Mines</td>
<td>M/s. Mineral Enterprises Ltd. No.49, 3rd Floor, West Wing Khanija Bhavan Bangalore-560001</td>
<td>M. Aruna, Ph.D.</td>
<td>From 1/04/2014 to 31/03/2015</td>
<td>9,000/-</td>
</tr>
<tr>
<td>Slope Stability Studies at Ramghad iron ore Mines</td>
<td>M/s. Zeenath Transport Company, Bellary</td>
<td>Aruna, Ph.D. &amp; Harsha Vardhan, Ph.D.</td>
<td>From 1/04/2014 to 31/03/2015</td>
<td>1,24,720/-</td>
</tr>
<tr>
<td>Consultancy work for carrying out sub soil investigation.</td>
<td>M/s. New Mangalore Port Trust Panambur, Mangalore</td>
<td>V.R Sastry, Ph.D.</td>
<td>From 1/04/2014 to 31/03/2015</td>
<td>7,72,475/-</td>
</tr>
<tr>
<td>Slope Stability Study at Jambhunatha Iron Ore &amp; Red oxide Mine</td>
<td>M/s. Goggashanthi a &amp;Brothers Mine Owner P.B No.-4 Mehro, Co-operative Colony Hospet-583203 Bellary Dist.</td>
<td>V.R Sastry, Ph.D.</td>
<td>From 1/04/2014 to 31/03/2015</td>
<td>1,70,600/-</td>
</tr>
<tr>
<td>Study of Ground Vibrations in stone quarries Gollarihali village, Mandya</td>
<td>Department of Mines &amp; Geology Mandya</td>
<td>V.R Sastry, Ph.D.</td>
<td>From 1/04/2014 to 31/03/2015</td>
<td>84,270/-</td>
</tr>
<tr>
<td>Ground Vibration Study</td>
<td>M/s. New Bharath Stone crusher &amp; hallow Bricks Industries, Kannur, Kerala-670648</td>
<td>V.R Sastry, Ph.D.</td>
<td>From 1/04/2014 to 31/03/2015</td>
<td>84,270/-</td>
</tr>
<tr>
<td>Counter survey using total station</td>
<td>The Department of Mines &amp;Geology, Govt. of Karnataka</td>
<td>Aruna, Ph.D. &amp; Harsha Vardhan, Ph.D.</td>
<td>From 1/04/2014 to 31/03/2015</td>
<td>32,25,210/-</td>
</tr>
<tr>
<td>Description</td>
<td>Organization</td>
<td>Person</td>
<td>From Date</td>
<td>Cost</td>
</tr>
<tr>
<td>-----------------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>-------------------------</td>
<td>------------------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>Counter survey using total station</td>
<td>The Department of Mines &amp; Geology, Govt. of Karnataka</td>
<td>Aruna, Ph.D. &amp; Harsha Vardhan, Ph.D.</td>
<td>From 1/04/2014 to 31/03/2015</td>
<td>7,73,425/-</td>
</tr>
<tr>
<td>Ground Vibration Study due to Blasting</td>
<td>St. Mary's Stone Quarry Arakkuzha village Kerala</td>
<td>V.R. Sastry, Ph.D.</td>
<td>From 1/04/2014 to 31/03/2015</td>
<td>1,68,540/-</td>
</tr>
<tr>
<td>Slope stability Analysis – KIOM, NMDC Ltd.</td>
<td>Dy. Dy. General Manager (Mines) NMDC Ltd. Donimalai</td>
<td>V.R. Sastry, Ph.D.</td>
<td>From 1/04/2014 to 31/03/2015</td>
<td>2,02,248/-</td>
</tr>
<tr>
<td>Study for ground vibration due to blasting</td>
<td>Blue Mountain Granites Vellikulangara Post Trichur District Kerala-680693</td>
<td>V.R. Sastry, Ph.D.</td>
<td>From 1/04/2014 to 31/03/2015</td>
<td>84,270/-</td>
</tr>
<tr>
<td>Study of impact of blasting operations</td>
<td>Oommen Thomas, Bright House, Pattanapuram Post</td>
<td>V.R. Sastry, Ph.D.</td>
<td>From 1/04/2014 to 31/03/2015</td>
<td>2,24,720/-</td>
</tr>
<tr>
<td>Study of the impact of Ground vibrations caused due to Blasting operations</td>
<td>M/s. Unity Stone Industries Miyar Nalkur post Udupi</td>
<td>V.R. Sastry, Ph.D.</td>
<td>From 1/04/2014 to 31/03/2015</td>
<td>1,68,540/-</td>
</tr>
<tr>
<td>Ground vibration study at planters Stone Mine.</td>
<td>Planters stone Mine Ezathamugham Post Kerala</td>
<td>V.R. Sastry, Ph.D.</td>
<td>From 1/04/2014 to 31/03/2015</td>
<td>84,270/-</td>
</tr>
<tr>
<td>Study of Ground Vibration due to blasting</td>
<td>Esskay Industries Thayoor P.o. Velur Thrissure-680601, Kerala</td>
<td>V.R. Sastry, Ph.D.</td>
<td>From 1/04/2014 to 31/03/2015</td>
<td>84,270/-</td>
</tr>
</tbody>
</table>
**Department of Metallurgical & Materials Engineering**

<table>
<thead>
<tr>
<th>Name of Project</th>
<th>Funding Agency</th>
<th>Name of Investigator(s)</th>
<th>Period</th>
<th>Funding Amount (Rs)</th>
</tr>
</thead>
</table>
## 15 HUMAN RESOURCE DEVELOPMENT

### 15.1 TRAINING STATUS

#### Department of Chemical Engineering

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

#### Department of Computer Engineering

<table>
<thead>
<tr>
<th>Name of the faculty/staff</th>
<th>Title of the training program</th>
<th>Organization</th>
<th>Dates &amp; Duration of training</th>
</tr>
</thead>
<tbody>
<tr>
<td>P. Santhi Thilagam, Ph.D.</td>
<td>The sexual Harassment of Women at Workplace</td>
<td>Goa, organized by Institute of Public Administration, Bengaluru</td>
<td>May 16 &amp; 17, 2014</td>
</tr>
</tbody>
</table>

#### Department of Electrical & Electronics Engineering

<table>
<thead>
<tr>
<th>Name of faculty/staff</th>
<th>Title of training program</th>
<th>Organization</th>
<th>Dates &amp; Duration of training</th>
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</thead>
</table>

#### Department of Electronics & Communication Engineering

*Annual Report 2014-15*
### Total number of faculty & staff trained during the period of report

<table>
<thead>
<tr>
<th>Name of faculty/staff</th>
<th>Title of training program</th>
<th>Organization</th>
<th>Dates &amp; Duration of training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kalpana G Bhat</td>
<td>Analog Integrated Circuit Design using Cadence</td>
<td>Entuple Technologies, Bangalore</td>
<td>September 1-5, 2014</td>
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#### Department of Humanities Social Sciences & Management

<table>
<thead>
<tr>
<th>Name of faculty/staff</th>
<th>Title of training program</th>
<th>Organization</th>
<th>Dates &amp; Duration of training</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.H. Sequeira, Ph.D.</td>
<td>Good Governance for Enhancing the capabilities of Technical Education Institutions in India</td>
<td>NITK</td>
<td>13/02/2015 1 day</td>
</tr>
<tr>
<td>Pavan Kumar, Ph.D.</td>
<td>Good Governance for Enhancing the capabilities of Technical Education Institutions in India</td>
<td>NITK</td>
<td>13/02/2015 1 day</td>
</tr>
<tr>
<td>Dhishna P, Ph.D.</td>
<td>Good Governance for Enhancing the capabilities of Technical Education Institutions in India</td>
<td>NITK</td>
<td>13/02/2015 1 day</td>
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</table>

#### Department of Mechanical Engineering

<table>
<thead>
<tr>
<th>Name of faculty/staff</th>
<th>Title of training program</th>
<th>Organization</th>
<th>Dates &amp; Duration of training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ramesh M R</td>
<td>Research, Interaction to Understand the Processes Electrospinning Electrospaying used to Develop Ultra Fine Fibres</td>
<td>Centre of Nanofibers Nanotechnology, National University of Singapore, Singapore</td>
<td>July 1-11, 2014</td>
</tr>
<tr>
<td>Ramesh M R</td>
<td>Short Term Training program on &quot;Recent</td>
<td>Indian Institute of Technology Madras,</td>
<td>February 2-6, 2015</td>
</tr>
</tbody>
</table>
Department of Metallurgical & Materials Engineering

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

<table>
<thead>
<tr>
<th>Name of Faculty</th>
<th>Title of training program</th>
<th>Organization</th>
<th>Dates &amp; Duration of training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sreeram K. Kalpathy</td>
<td>Symposium on Teaching Learning in Higher Technical Education</td>
<td>IIT Madras</td>
<td>28 - 29 May 2014</td>
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</table>

PLACEMENT OF STAFF FOR ACADEMIC EXCELLENCE

Department Of Civil Engineering

<table>
<thead>
<tr>
<th>Name of Staff/Faculty</th>
<th>Assignment/Recognition/Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>Varghese George, Ph.D.</td>
<td>Awarded Certificate of Excellence for Outstanding Paper Presentation along with Citation and Gold Medallion, at the International Conference (ICITSEM-2015) held at Hyatt Place, Al-Rigga, Dubai, for the paper titled, “A Demonstration of a Single Variable Genetic Algorithm Optimization for a 2-Phase Traffic Signal”</td>
</tr>
</tbody>
</table>

Department of Computer Engineering

<table>
<thead>
<tr>
<th>Name of Staff/Faculty</th>
<th>Assignment/Recognition/Award</th>
</tr>
</thead>
</table>
Visit to Warsaw, Poland for presentation of paper “Stormgen – A Domain Specific Language to create Ad-hoc Storm Topologies” during 07th – 10th September 2014.  
Visited various universities in Japan for research interaction and MOU: Kagoshima University- Komamoto, Osaka University, National Institute of Informatics (NII) - Tokyo Japan, during 04th – 14th March 2015. |
| P. Santhi Thilagam, Ph.D.   | Visit to National University of New South Wales, Sydney, Australia during 03rd – 11th October 2014.                                                        |
Annappa, Ph.D.  
- Visit to Penn State University, Carnegie Mellon University, Ohio State University, University of Cincinnati, University of Dayton, Wright State University, Dayton for research interaction during 24th June to 04th July 2014.

Shashidhar G. Koolagudi, Ph.D.  
- Visit to National University of Singapore during 09th–18th September 2014

Mohit P. Tahiliani, Ph.D.  
- Dr. Mohit P. Tahiliani received the "EMC Young Achiever Awards 2015" from EMC Corporation on 12th February 2015 at Le-Meridian Chennai

**Department of Chemistry**

<table>
<thead>
<tr>
<th>Name of faculty</th>
<th>Assignment/Recognition/Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. VasudevaAdhikari, Ph.D.</td>
<td>Visited the Dr. Yiying Wu research group as a visiting scholar for collaboration on dye-sensitized solar cells, with Dr. Yiying Wu, Department of Chemistry and Biochemistry, The Ohio State University, Columbus, Ohio, USA, from 07 – 07 – 2014 to 22 - 07 – 2014, sponsored by TEQIP-2.</td>
</tr>
<tr>
<td>A. VasudevaAdhikari, Ph.D.</td>
<td>Principal Coordinator, DK District Biofuel Information and Demonstration Centre, NITK, Surathkal. This three year project is sponsored by &quot;Karnataka State Biofuel Development Board”, GoK, Bangalore.</td>
</tr>
<tr>
<td>B. Ramachandra Bhat, Ph.D.</td>
<td>Commonwealth Academic Fellowship at Northumbria University from 19.01.2015 to 18.04.2015</td>
</tr>
<tr>
<td>Arun M. Isloor, Ph.D.</td>
<td>Selected for the award of ‘Centre of excellence’ in membrane research by VGST, Govt. of Karnataka during December 2014 for amount Rs 60.00 Lakhs.</td>
</tr>
<tr>
<td>Arun M. Isloor, Ph.D.</td>
<td>‘Within Top 5 Researcher in India’ (Materials Research) as per the Scopus survey held during March 2014.</td>
</tr>
<tr>
<td>Arun M. Isloor, Ph.D.</td>
<td>Received ‘Certificate of Excellence in Reviewing’ (June 2014) from</td>
</tr>
</tbody>
</table>
Department of Electronics And Communication Engineering

<table>
<thead>
<tr>
<th>Name of Staff/Faculty</th>
<th>Assignment/Recognition/Award</th>
</tr>
</thead>
</table>
| M S Bhat, Ph.D.              | Member Board of Studies of Engineering, NMAMIT Nitte, Goa University, MSRSAS, B'lore  
| Sumam David S, Ph.D.         | Member Board of Studies of Engineering Manipal University  
Member, DASA 2015 Implementation & Technical Committee  
DASA 2015 coordinated by MNIT Jaipur  
Leveraging Technology for effective teaching, Keynote talk, National Conference on Outcome based Education, NITK Surathkal January 17, 2015  
Technology enabled learning, Faculty Development Program, MIT Manipal, December 4, 2014                                                                                                               |
| Muralidhar Kulkarni, Ph.D.   | Member, BOS Dept. of E & C, Dr. Ambedkar Institute of Technology, Bangalore.  
Member of Engineering and Technical Accreditation Evaluation Committee, National Board of Accreditation, AICTE  
Member, Board of Governors, Malnad College of Engineering, Hassan.  
Member, Academic Council, NIE Mysore  
Joint Secretary (Research and Academics), Vice Chair, IET (UK), Bangalore Local Network  
Member, Board of Studies, Department of Electronics & Communication Engineering, UVCE, Bangalore University  
Member, Board of Studies, Department of Electronics & Communication Engineering RVCE, Bangalore  
Member, Board of Studies, Department of Electronics & Communication Engineering, SIT, Tumkur, Karnataka  
Vice Chairman, IET(UK), Local Network, Joint Secretary Bangalore (Research and Academics)  
Delivered a technical talk on “How to orient oneself to research Methodologies”  
after presiding over as Chief Guest, Canara Engineering College, Mangalore, 19th August 2014  
Inaugurated the National Conference on Advances in Communication and Signal Processing NCACSP-2014 as the Chief Guest, later gave a key note address on ‘Research Challenges in Free Space Optical Communications”, Department of Electronics and Communication Engineering, SJEC, Mangalore, 13th August 2014 |
| Ramesh Kini M, Ph.D.         | Delivered lecture on Advances in Signal Processing and its implementation using VLSI, PA College of Engg, Mangalore, 23rd Jan 2014                                                                                       |
| Deepu Vijayasenan, Ph.D.     | Delivered lecture on Recent Advancements in Machine Learning, Central University of Kerala, Kasaragod December, 2014  
Delivered lecture on The Art of Data compression, College of                                                                                       |
Department of Information Technology

<table>
<thead>
<tr>
<th>Name of Staff/Faculty</th>
<th>Assignment/Recognition/Award</th>
</tr>
</thead>
</table>
| Geetha V              | **Best Paper Award**
| Sowmya Kamath         | **Best Paper Award**

Department of Metallurgical And Materials Engineering

<table>
<thead>
<tr>
<th>Name of Staff/Faculty</th>
<th>Assignment/Recognition/Award</th>
</tr>
</thead>
</table>
| A. O.Surendranathan, Ph.D. | 1. INDIRA GANDHI SADBHAWANA AWARD for outstanding achievements and contributions in my field of activities by International Business Council, Delhi  
2. BHARAT EXCELLENCE AWARD” AND GOLD MEDAL (Certificate of Excellence & Felicitation) for the year 2014 by FRIENDSHIP FORUM (Regd.), New Delhi  
3. RAJIV GANDHI ACHIEVERS’S AWARD FOR EDUCATION EXCELLENCE by the International Business Council, New Delhi  
4. RASHTRA RATAN AWARD by the ACHIEVER'S ASSOCIATION FOR ECONOMIC RESEARCH & DEVELOPMENT, Delhi.  
5. Glory of India Award by India International Friendship Society, New Delhi |
| Sreeram K. Kalpathy | Marquis Who's Who in the World 2015 |
16 STUDENT PLACEMENTS

16.1 PLACEMENT

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

Highlights

The year 2014-15 is a very successful year for the Dept. of Training & Placement. We had reasonably good Placements and Training slots.

Main Objectives

1. Placement for all students of the final year B.Tech., M.Tech, MCA, MBA and M.Sc.
2. Training for all students to be covered during the 5th, 6th and 7th Semester vacations. The compulsory training for B.Tech. Mining Engg. students is organized during the 5th and 6th Semester vacations.
3. Provide Career Counseling and facilitate development of Soft Skills and Personal Effectiveness to better equip students for their career.
4. Interface with Railways, Airlines and Bus services to provide travel concessions to students.

Performance Overview

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

PLACEMENT DETAILS 2014-15 :-

<table>
<thead>
<tr>
<th>SL. NO.</th>
<th>NAME OF THE COMPANY</th>
<th>TOTAL PLACED</th>
<th>PAY PACKAGE (Rs. in lakhs p.a.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>UG</td>
</tr>
<tr>
<td>1</td>
<td>MICROSOFT, HYD</td>
<td>3</td>
<td>17</td>
</tr>
<tr>
<td>2</td>
<td>BAJAJ AUTO, PUNE</td>
<td>3</td>
<td>7</td>
</tr>
<tr>
<td>3</td>
<td>AMAZON, B'LORE</td>
<td>4</td>
<td>23.5</td>
</tr>
<tr>
<td>4</td>
<td>CODE NATION, B'LORE</td>
<td>3</td>
<td>24</td>
</tr>
<tr>
<td>5</td>
<td>QUALCOMM, B'LORE</td>
<td>9</td>
<td>11.75</td>
</tr>
<tr>
<td>6</td>
<td>D E SHAW SOFTWARE, HYD</td>
<td>0</td>
<td>18.6</td>
</tr>
<tr>
<td>7</td>
<td>MYNTRA DESIGN, B'LORE</td>
<td>4</td>
<td>19</td>
</tr>
<tr>
<td>8</td>
<td>ADOBE SYSTEMS, B'LORE</td>
<td>3</td>
<td>17.61</td>
</tr>
<tr>
<td></td>
<td>Company Name</td>
<td>Shares</td>
<td>CAGR (%)</td>
</tr>
<tr>
<td>---</td>
<td>------------------------------------</td>
<td>--------</td>
<td>----------</td>
</tr>
<tr>
<td>9</td>
<td>HINDUSTAN UNILEVER, MUMBAI</td>
<td>4</td>
<td>9.6</td>
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<tr>
<td>10</td>
<td>TEXAS INSTRUMENTS, B'LORE</td>
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<td>11.9</td>
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<tr>
<td>11</td>
<td>WORKS APPLICATIONS, B'LORE</td>
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<td>35</td>
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<tr>
<td>12</td>
<td>NVIDIA, B'LORE</td>
<td>4</td>
<td>10</td>
</tr>
<tr>
<td>13</td>
<td>CITRIX R&amp;D, B'LORE</td>
<td>4</td>
<td>16.23</td>
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<td>14</td>
<td>INTUIT, B'LORE</td>
<td>11</td>
<td>16.2</td>
</tr>
<tr>
<td>15</td>
<td>ARM BMBEDDED, B'LORE</td>
<td>3</td>
<td>11</td>
</tr>
<tr>
<td>16</td>
<td>GOLDMAN SACHES, B'LORE</td>
<td>7</td>
<td>13</td>
</tr>
<tr>
<td>17</td>
<td>MORGAN STANLEY, MUMBAI</td>
<td>5</td>
<td>13.4</td>
</tr>
<tr>
<td>18</td>
<td>COMMVAULT, B'LORE</td>
<td>2</td>
<td>13.5</td>
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<td>19</td>
<td>DELL R&amp;D, B'LORE</td>
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<td>6.75</td>
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<tr>
<td>20</td>
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<td>21</td>
<td>SANDVINE TECH, B'LORE</td>
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<td>10.5</td>
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<td>22</td>
<td>ORACLE, B'LORE</td>
<td>31</td>
<td>12</td>
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<tr>
<td>23</td>
<td>GAURI TECH, MUMBAI</td>
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<td>-</td>
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<td>24</td>
<td>MARUTI SUZUKI, N DELHI</td>
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<td>5.6</td>
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<td>25</td>
<td>SERVICE NOW, B'LORE</td>
<td>2</td>
<td>14.52</td>
</tr>
<tr>
<td>26</td>
<td>FIDELITY, B'LORE</td>
<td>15</td>
<td>10</td>
</tr>
<tr>
<td>27</td>
<td>CITICORP, MUMBAI</td>
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<td>11.5</td>
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<td>28</td>
<td>SANDISK, B'LORE</td>
<td>5</td>
<td>11.39</td>
</tr>
<tr>
<td>29</td>
<td>MCAFEE S.W., B'LORE</td>
<td>4</td>
<td>9.25</td>
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<tr>
<td>30</td>
<td>WOOQER S.W., B'LORE</td>
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<td>17</td>
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<tr>
<td>31</td>
<td>TECHNOVATE, B'LORE</td>
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<td>7</td>
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<tr>
<td>32</td>
<td>LINKEDIN, B'LORE</td>
<td>2</td>
<td>19.25</td>
</tr>
<tr>
<td>33</td>
<td>CAVIUM NETWORKS, B'LORE</td>
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<tr>
<td>34</td>
<td>RIVERBED TECH, B'LORE</td>
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<td>-</td>
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<td>35</td>
<td>SCHNEIDER ELECTRIC, B'LORE</td>
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<td>4.75</td>
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<td>ACCOLITE S.W., B'LORE</td>
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<td>10</td>
</tr>
<tr>
<td>37</td>
<td>GOOGLE, B'LORE</td>
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<td>21.5</td>
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<td>38</td>
<td>THOROGOOD, B'LORE</td>
<td>5</td>
<td>11</td>
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<tr>
<td>39</td>
<td>CAPITAL ONE, B'LORE</td>
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<td>11.98</td>
</tr>
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<td>ITTIAM SYSTEMS, B'LORE</td>
<td>4</td>
<td>7.5</td>
</tr>
<tr>
<td>41</td>
<td>FUTURES FIRST, B'LORE</td>
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<td>8.9</td>
</tr>
<tr>
<td>42</td>
<td>L&amp;T CONSTN., CHENNAI</td>
<td>33</td>
<td>5</td>
</tr>
<tr>
<td>43</td>
<td>CREDIT SUISSE, MUMBAI</td>
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<td>9.75</td>
</tr>
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<td>44</td>
<td>TERADATA, HYD</td>
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</tr>
<tr>
<td>45</td>
<td>J P MORGAN, B'LORE</td>
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<td>12</td>
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<td>NATIONAL INSTRUMENTS, B'LORE</td>
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<td>47</td>
<td>C A TECH, B'LORE</td>
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<td>8</td>
</tr>
<tr>
<td>48</td>
<td>ARYAKA NETWORKS, B'LORE</td>
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<td>-</td>
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<td>49</td>
<td>MAQ SOFTWARE, B'LORE</td>
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<tr>
<td>50</td>
<td>ERNST &amp; YOUNG, B'LORE</td>
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<td>3.68</td>
</tr>
<tr>
<td>51</td>
<td>MU-SIGMA, B'LORE</td>
<td>38</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Company Name</td>
<td>City</td>
<td>Internship Duration</td>
</tr>
<tr>
<td>---</td>
<td>-----------------------------------</td>
<td>--------</td>
<td>---------------------</td>
</tr>
<tr>
<td>52</td>
<td>CERNER, B'LORE (Internship)</td>
<td>*</td>
<td>-</td>
</tr>
<tr>
<td>53</td>
<td>Z S ASSOCIATES, PUNE</td>
<td>17</td>
<td>6.68</td>
</tr>
<tr>
<td>54</td>
<td>ARISTA NETWORKS, B'LORE</td>
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<td>12.92</td>
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<tr>
<td>55</td>
<td>EXL SERVICES, B'LORE</td>
<td>10</td>
<td>6.25</td>
</tr>
<tr>
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**Companies:** 218  **Total Jobs:** 863
NEW ORGANIZATIONS VISITED NITK IN 2014-15 : 62

* Final Results awaited

BRANCHWISE PLACEMENTS 2014-15 :

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*TOTAL NO. OF PLACEMENTS - 863*
(with 97 students getting placed in two companies)

## Placement Breakup 2014-15

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<td>172</td>
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<td>173</td>
<td>AAKASH INSTITUTE, N. DELHI</td>
<td>JAN 19, 2015</td>
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<tr>
<td>174</td>
<td>RAMCO SYSTEMS, CHENNAI</td>
<td>JAN 20, 2015</td>
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<td>175</td>
<td>EXPICIENT S.W., B'LORE</td>
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<td>2 CS 01, MCA 01</td>
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<tr>
<td>176</td>
<td>AXIS BANK, MUMBAI</td>
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<td>RELIANCE JIO, MUMBAI</td>
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<td>178</td>
<td>ATKINS, B'LORE</td>
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<td>179</td>
<td>TATA HITACHI, JAMSHEDPUR</td>
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<td>181</td>
<td>TEJAS NETWORKS, B'LORE</td>
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<td>182</td>
<td>JOHNSON CONTROLS, B'LORE</td>
<td>FEB 03, 2015</td>
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<td>183</td>
<td>JSW STEEL, BELLARY</td>
<td>FEB 04, 2015</td>
<td>3 MET 03</td>
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<td>184</td>
<td>HOUSING.COM, MUMBAI</td>
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<td>URBAN LADER, B'LORE</td>
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<td>1 I.T 01</td>
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<td>188</td>
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<td>COUPON DUNIA, MUMBAI</td>
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<td>190</td>
<td>UB LTD, B'LORE</td>
<td>FEB 13, 2015</td>
<td>2 MECH 02</td>
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<tr>
<td>191</td>
<td>AMADA, B'LORE</td>
<td>FEB 17, 2015</td>
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<td>192</td>
<td>TECHNIP INDIA, CHENNAI</td>
<td>FEB 19, 2015</td>
<td>1 CIVIL 01</td>
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<td>NAUVATA ENGG., B'LORE</td>
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<td>195</td>
<td>RESONANCE ADVENTURES, KOTA</td>
<td>FEB 23, 2015</td>
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<td>196</td>
<td>FUTURE SUPPLY CHAIN, MUMBAI</td>
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<td>SANDUR GROUP, BELLARY</td>
<td>FEB 26, 2015</td>
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<tr>
<td>198</td>
<td>CSC, B'LORE</td>
<td>FEB 27, 2015</td>
<td>3 MCA 03</td>
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<td>199</td>
<td>SYNERGY PROPERTY, B'LORE</td>
<td>FEB 27, 2015</td>
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<td>EVIVE SOFTWARE, B'LORE</td>
<td>MAR 02, 2015</td>
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<td>201</td>
<td>SONATA SOFTWARE, B'LORE</td>
<td>MAR 02, 2015</td>
<td>4 CS 01, ECE 01 I.T 02</td>
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<tr>
<td>202</td>
<td>STAYZILLA, CHENNAI</td>
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<td>203</td>
<td>CARTESIAN CONSULTING, MUMBAI</td>
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<td>JUST UNFOLLOW, B'LORE</td>
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<td>205</td>
<td>KALKI COMMUNICAITON, B'LORE</td>
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<td>206</td>
<td>L&amp;W CONSTRUCTION, B'LORE</td>
<td>MAR 12, 2015</td>
<td>3 CIVIL 02, MECH 01</td>
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<td>207</td>
<td>COCUBES.COM, GURGAON</td>
<td>MAR 14, 2015</td>
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</table>
## Training Slots for the Academic Year 2014-15

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Branch</th>
<th>No. of Slots</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Chemical Engineering</td>
<td>98</td>
</tr>
<tr>
<td>02</td>
<td>Civil Engineering</td>
<td>60</td>
</tr>
<tr>
<td>03</td>
<td>Computer Engineering</td>
<td>66</td>
</tr>
<tr>
<td>04</td>
<td>Electronics &amp; Communication Engineering</td>
<td>43</td>
</tr>
<tr>
<td>05</td>
<td>Electrical &amp; Electronics Engineering</td>
<td>85</td>
</tr>
<tr>
<td>06</td>
<td>Information Technology</td>
<td>50</td>
</tr>
<tr>
<td>07</td>
<td>Mechanical Engineering</td>
<td>133</td>
</tr>
<tr>
<td>08</td>
<td>Metallurgical &amp; Material Engineering</td>
<td>71</td>
</tr>
<tr>
<td>09</td>
<td>Mining Engineering</td>
<td>83</td>
</tr>
<tr>
<td><strong>Total Number of Students</strong></td>
<td></td>
<td><strong>689</strong></td>
</tr>
</tbody>
</table>

### Number of Companies: 211  
Number of Training Slots: 689
17 SPECIAL INITIATIVES

17.1 Direct Admission of Students Abroad (DASA)

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

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

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

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

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

17.2 MEMORANDA OF UNDERSTANDING (MOUs)

<table>
<thead>
<tr>
<th>Date of signing MOU</th>
<th>Organization/Institute</th>
</tr>
</thead>
<tbody>
<tr>
<td>9th March 2015</td>
<td>Kagoshima University, Japan</td>
</tr>
<tr>
<td>28th Frbruary 2015</td>
<td>Faculty of Engineering and Graduate School of Science and Technology, Kumamoto University, Japan</td>
</tr>
<tr>
<td>10th February 2015</td>
<td>Father Muller Medical College</td>
</tr>
<tr>
<td>1st December 2014</td>
<td>National Institute of Technology Agartala, Tripura</td>
</tr>
<tr>
<td>26th September 2014</td>
<td>Kompetenzzentrum Holz GmbH</td>
</tr>
<tr>
<td>24th September 2014</td>
<td>Indian Institute of Technology Madras, Chennai</td>
</tr>
<tr>
<td>18th June 2014</td>
<td>The Indian Navy, New Delhi</td>
</tr>
<tr>
<td>15th May 2014</td>
<td>Management Development Institute, Gurgaon, India (MDI)</td>
</tr>
<tr>
<td>14th May 2014</td>
<td>Michigan State University, U. S. A.</td>
</tr>
</tbody>
</table>
17.3 Scholarships / Assistanceship

As per the guidelines of Govt. of India (MHRD) Merit and Merit cum Means Scholarship have been awarded to I B.Tech. students every year who have got 60% above marks in +2 exam and the same will be continued based on their performance in II, III & IV B.Tech. Examinations. In addition, based on performances at the semester Examinations scholarship have been awarded to the students of II, III and IV year B.Tech. Several other scholarship awarded by Central and State Govts., Endowments, Institution of Engineers etc., are enjoyed by the students. SC/ST students will be paid post-matric scholarship and facilities of Fee Concessions.

The Post Graduate students who have qualified with GATE are paid a sum of Rs.8,000/- as P.G. stipend per month. M.Tech. (Q.I.P.) Regular and (Q.I.P.) Poly are paid Rs.4,000/- per month and a contingent grant of Rs.3,000/- per year.

Full-Time Ph.D. Research Scholars are paid institute scholarship @ Rs.18,000/- per month (for Ph.D. in Engg.) and Rs.16,000/- per month (for Ph.D. in Science/Humanities & Social Sciences) and contingent grant of Rs.30,000/- per annum. Ph.D. (QIP) students are paid Fellowship of Rs.9,000/- per month and a contingent grant of Rs.10,000/- per year.

17.4 Innovations & Technology Transfer

Department of Chemistry

<table>
<thead>
<tr>
<th>Details of Innovations/patent</th>
<th>Name of faculty/Staff/ students involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indian patent filed on June 2014 ‘Novel synthesis of D-persomine’</td>
<td>Arun M. Isloor, Ph.D.</td>
</tr>
</tbody>
</table>

Department Of Electronics & Communication Engineering

<table>
<thead>
<tr>
<th>Details of Innovation/Patent</th>
<th>Names of faculty/staff/students involved</th>
</tr>
</thead>
</table>

17.5 Concessions For SCs, STs, Handicapped Students

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

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

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

- Under the Central Sector Scholarship Scheme for 12 SC students (Ministry of Social Justice and Empowerment) and 5 ST students (Ministry of Tribal Affairs) are providing full financial support for pursuing studies. During academic year 2014-2015, 48 SC students and 19 ST students got benefited.

- To cater the need of academic weaker students and support, Cell arranged the Special Coaching Classes for all theory subjects and Computer Programming Lab for first year B.Tech students belonging to SC/ST/OBCs, Minorities and PWDs.

- Coordinated Ambedkar Jayanthi celebration in the institute.

- To promote qualitative education in Engineering, following schemes drawn under financial assistance to the SC/ST students of the Institute to all academic programs whose family income from all sources doesn't exceed Rs.4.5 lakhs per annum.
  a) Book allowance- Rs.6000/- (Rs.3000/- per semester).
  b) Waiver of Hostel Fee (except caution deposit).
  c) Latest computer with full accessories limited to Rs.45000/- per student as one time assistance.
  d) Students Academic Performance Incentives (Rs.12,000-00 if CGPA is more than 6.5 and Rs.18,000-00 if CGPA is more than 8.0 in previous year).

- For Employability Enhancement and Entrepreneurship, Professional Skill Enhancement Programme conducted from 30th June to 16th July 2014 for pre final year B.Tech SC/ST students. Around 50 students participated in the programme and Personal Empowerment Programme conducted from 22nd to 29th December 2014 for PG students belonging to SC/ST category. Around 35 students actively participated in the programme and got benefited.

- Institute staff are deputed for various Training programme conducted by The Institute of Public Administration, Bangalore and The National Council for Training & Social Research, New Delhi.

17.7 NSS (National Service Scheme)

The NSS unit of the NITK Surathkal (formerly KREC Surathkal) has been actively rendering its services to the backward areas and villagers of Dakashina Kannada district since its inception in this institute in 1964. The NSS unit organizes regular activities like, tree plantation, clean up of the hostels and NIT K Beach, organizes blood donation, medical, dental and eye camp for the villagers. It also involves in promoting literacy to villagers irrespective of their age, and enhances educational tools and, motivates primary school children of the schools located in various villages. The NSS unit of the institute was initially part of the Mysore University,
Mangalore University and Vishvesvaraya Technological University. For the year 2010, the institute has already obtained permission from the Karnataka state NSS unit to have NSS unit which is independent to NIT K Surathkal.

17.8 RIGHT TO INFORMATION ACT (RTI 2005)

The Right to Information Act, 2005 empowers citizens to get information from any 'public authority'. The Central Public Information Officer (CPIO) of a public authority 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.


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

17.9 YOGA CENTRE

HISTORY

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

RECENT INITIATIVES

- We have planned to organize 6 batches in this year which is much more than last year in which only 3 batches were conducted in one year and previous years.
- We are also planning to conduct some special yoga practices for faculty members who are willing to join in large number. A large number of faculty members have enquired and wanted to join the yoga practices.
- We are planning to attract more number of B.TECH students by increasing the size of organizing members and also inducting 1st years into organizing committee.
 We are trying to make people aware of yoga programs more and more by notices as well through personal and group contacts.

**MAJOR ACHIEVEMENTS**

 180 people have been enrolled in this semester in different batches which is very large as compared to previous year enrolments and about same number of students are likely to enroll in the next semester yoga practices.

 More than 60 girl students have enrolled for yoga practices this year and are actively participating in almost all batches.

 Postgraduate students and Ph.D scholars have shown much more interest in practicing and learning yoga asanas and pranayams than undergraduate people.

**17.10 TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME (TEQIP)**

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

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

Out of the financial outlay of `125 million under TEQIP-II programme, a sum of `20.00 million was received on 21-06-2011, `41.70 million was received on 06-10-2012, `10.00 million was received on 28-03-2014, `25.00 million was received in 09-07-2014 and again `25.00 million was received on 23-12-2014. Hence a total of `121.70 million has been received up to the end of 31-03-2015. With the above fund flow the targets achieved and those under progress up to the end of March 2015 are as under:
1. Procurement of Assets (including Books, LRs, software, Equipments and Furniture) '52.403 million.

2. Providing Teaching and Research Assistantship '10.426 million

3. Enhancement of R & D activities '1.135 million

4. Faculty and Staff Development '9.131 million

5. Enhanced interaction with Industry '1.866 million

6. Academic support to week students '1.133 million

7. Incremental Operating Cost '14.924 million

8. Institutional Management Capacity Enhancement '0.428 million


**Total spent up to 31-03-2015** '100.801 million

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

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

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

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

(iii) Eight Faculty members from Chemical, Mechanical and Civil Engg. Departments and Dept. of Chemistry have participated and presented research papers in International conferences held in various places in India.
(iv) A total 32 Faculty members have undertaken foreign visits for Research Interaction (Top 200 Universities in the World as per QS ranking). An expenditure of ` 64.70 lakh was incurred to support this programme.

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

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

The NPIU nominated Mentor visited this Institution twice during December 2012 and December 2014 and interacted with all the concerned Nodal Officers, Departments, faculty members Non-Teaching Staff and students. He has submitted a comprehensive report to NPIU. The Performance Auditor appointed by NPIU also visited this Institute and has verified all the relevant data with reference to documentary evidence and submitted a comprehensive report to NPIU.

Annual financial accounts have been audited by a qualified Chartered Accountant as required in guidelines and audit reports thereon have been sent to NPIU. Six-monthly Internal Audit has been done by the Senior Internal Auditor of the Institute in accordance with the guidelines stipulated in Financial Management Manual and reports have been sent to NPIU.

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

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

All the updated MIS information have been uploaded. This has enabled NITK to obtain 100% points earmarked for various elements. Additionally we would like to place on record that NITK and NIT Nagpur are the only two Institutions to have bagged twelve out of twelve points earmarked for various performance indicators under TEQIP-II project.
18.1 Industry Institute Partnership Cell (I.I.P Cell)

The IIP Cell at NITK, Surathkal is engaged in building Institute Industry Collaboration for mutual benefit. The Cell is headed by a faculty member of Associate Professor or above grade supported by a Literate Assistant. The faculty in-charge reports to Dean (P & D)/Director. IIP Cell is mainly involved in handling of Testing and Consultancy works of all the departments and arranging endowment lectures. The Institute Revenue Generation through Testing and Consultancy has been improving substantially. The total revenue through Testing & Consultancy works for the year 2014-15 is Rs. 2.15 crores. IIP Cell has been encouraging industries in the local region to make use of the testing and experimental facilities of the Institute.

18.2 INDUSTRY INSTITUTE COLLABORATION

Department of Civil Engineering

<table>
<thead>
<tr>
<th>Name of Industry</th>
<th>Nature of Collaboration (academic, research, training, etc)</th>
<th>Period/Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kirloskar Ferrous Industries, Koppal</td>
<td>R &amp; D</td>
<td>2014 - 2016</td>
</tr>
<tr>
<td>L&amp;T Construction, Chennai</td>
<td>Academic, research and training</td>
<td>2014-2019</td>
</tr>
</tbody>
</table>

Department of Computer Engineering

<table>
<thead>
<tr>
<th>Name of Industry</th>
<th>Nature of Collaboration (academic, research, training, etc.)</th>
<th>Period/ Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-DAC Bangalore</td>
<td>Academic and Training</td>
<td>2014-15</td>
</tr>
<tr>
<td>Microsoft</td>
<td>Academic and Training</td>
<td>2014-15</td>
</tr>
<tr>
<td>IBM</td>
<td>Academic and Training</td>
<td>2014-15</td>
</tr>
<tr>
<td>SAP Labs, Bangalore</td>
<td>Academic and Training</td>
<td>2013-2015</td>
</tr>
<tr>
<td>DELL, Bangalore</td>
<td>Academic and Training</td>
<td>2013-2015</td>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Name of Industry</th>
<th>Nature of Collaboration (Academic, Research, Training, Etc.)</th>
<th>Period / Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viraj Alcohols and Allied Industries Ltd., Sangli</td>
<td>Training/Internship to B.Tech.&amp; M.Tech. students.</td>
<td>Two months during May to July 2014</td>
</tr>
<tr>
<td>Mangalore Chemicals &amp; Fertilizers Ltd, Panambur, Mangalore</td>
<td>Training/Internship to B.Tech.&amp; M.Tech. students.</td>
<td>One month during June to July 2014</td>
</tr>
<tr>
<td>Akshaya Patra Foundation, Bangalore</td>
<td>Training/Internship to B.Tech.&amp; M.Tech. students.</td>
<td>Two months during May to July 2014</td>
</tr>
<tr>
<td>Chemical Process Engineers, Bangalore</td>
<td>Training/Internship to B.Tech.&amp; M.Tech. students.</td>
<td>Two months during May to July 2014</td>
</tr>
<tr>
<td>The Travancore – Cochin Chemicals Ltd., Udyogmandal, Kochi.</td>
<td>Training/Internship to B.Tech.&amp; M.Tech. students.</td>
<td>Two months during May to July 2014</td>
</tr>
<tr>
<td>The Fertilizers and Chemicals Travancore Ltd.,</td>
<td>Training/Internship to B.Tech.&amp; M.Tech. students.</td>
<td>Two months during May to July 2014</td>
</tr>
<tr>
<td>Centre for Learning and Development, Bharat Electronics, Bangalore</td>
<td>Training/Internship to B.Tech.&amp; M.Tech. students.</td>
<td>Two months during May to July 2014</td>
</tr>
<tr>
<td>Tumkur Co-operative Milk Producers’ Societies Union Ltd.,</td>
<td>Training/Internship to B.Tech.&amp; M.Tech. students.</td>
<td>Two months during May to July 2014</td>
</tr>
<tr>
<td>Neyveli lignite corporation limited, Neyveli, Tamilnadu</td>
<td>Training/Internship to B.Tech.&amp; M.Tech. students.</td>
<td>Two months during May to July 2014</td>
</tr>
<tr>
<td>Bengaluru Urban, Begaluru Rural &amp; Ramnagar District Co-operative Milk Producers’ Societies Union Ltd., Bengaluru</td>
<td>Training/Internship to B.Tech.&amp; M.Tech. students.</td>
<td>Two months during May to July 2014</td>
</tr>
<tr>
<td>Nagarjuna Fertilizers and Chemicals Ltd., Kakinada,</td>
<td>Training/Internship to B.Tech.&amp; M.Tech. students.</td>
<td>Two months during May to July 2014</td>
</tr>
<tr>
<td>CIPLA Ltd., Bangalore</td>
<td>Training/Internship to B.Tech.&amp; M.Tech. students.</td>
<td>Two months during May to July 2014</td>
</tr>
<tr>
<td>The Kerala Minerals and Metals Ltd., Kollam, Kerala</td>
<td>Training/Internship to B.Tech.&amp; M.Tech. students.</td>
<td>Two months during May to July 2014</td>
</tr>
<tr>
<td>Amara Raja Batteries Limited, Tirupathi</td>
<td>Training/Internship to B.Tech.&amp; M.Tech. students.</td>
<td>Two months during May to July 2014</td>
</tr>
<tr>
<td>Delhi Pollution control Committee, Delhi</td>
<td>Training/Internship to B.Tech.&amp; M.Tech. students.</td>
<td>Two months during May to July 2014</td>
</tr>
<tr>
<td>NOCIL, Mumbai</td>
<td>Training/Internship to B.Tech.&amp; M.Tech. students.</td>
<td>One month during December 2014</td>
</tr>
</tbody>
</table>

*Annual Report 2014-15*
<table>
<thead>
<tr>
<th>Organization</th>
<th>Activity Description</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>BPCL, Kochi</td>
<td>Training/Internship to B.Tech.&amp; M.Tech. students.</td>
<td>Two months during May to July 2014</td>
</tr>
<tr>
<td>Yokogawa IA Technologies India</td>
<td>Training/Internship to B.Tech.&amp; M.Tech. students.</td>
<td>Two months during May to July 2014</td>
</tr>
<tr>
<td>Herdilia Chemicals, SI Group India Ltd, Turbine, Navi Mumbai</td>
<td>Training/Internship to B.Tech.&amp; M.Tech. students.</td>
<td>Two months during May to July 2014</td>
</tr>
<tr>
<td>BPCL Refinery Mahul Mumbai</td>
<td>Training/Internship to B.Tech.&amp; M.Tech. students.</td>
<td>Two months during May to July 2014</td>
</tr>
<tr>
<td>Hiyoshi Corporation, Japan</td>
<td>Training/Internship to B.Tech.&amp; M.Tech. students.</td>
<td>One month during June to July 2014</td>
</tr>
<tr>
<td>Nanyang Technological University (NTU, Singapore)</td>
<td>Research interaction to B.Tech. Students</td>
<td>Two months during May to July 2014</td>
</tr>
<tr>
<td>ICT, Mumbai</td>
<td>Research interaction to B.Tech./M.Tech. Students</td>
<td>Two months during May to July 2014</td>
</tr>
<tr>
<td>IISc., Bangalore</td>
<td>Research interaction to B.Tech./M.Tech. Students</td>
<td>Two months during May to July 2014</td>
</tr>
<tr>
<td>National Instt. Of Immunology, New Delhi under Summer Research Fellowship Programme jointly sponsored by IASc, INSA and NASI</td>
<td>Research interaction to B.Tech./M.Tech. Students</td>
<td>Two months during May to July 2014</td>
</tr>
<tr>
<td>Rajiv Gandhi Center for Biotechnology, Thiruvananthapuram</td>
<td>Research interaction to B.Tech./M.Tech. Students</td>
<td>Two months during May to July 2014</td>
</tr>
<tr>
<td>Indian Instt. Of Science Education and Research, Mohali</td>
<td>Research interaction to B.Tech./M.Tech. Students</td>
<td>Two months during May to July 2014</td>
</tr>
<tr>
<td>Indian Instt. Of Science Education and Research, Mohali</td>
<td>Research interaction to B.Tech./M.Tech. Students</td>
<td>Two months during May to July 2014</td>
</tr>
<tr>
<td>Indian Instt. Of Science Education and Research, Mohali</td>
<td>Research interaction to B.Tech./M.Tech. Students</td>
<td>Two months during May to July 2014</td>
</tr>
<tr>
<td>Dept. of Bioscience &amp; Bioengg., IIT, Mumbai</td>
<td>Research interaction to B.Tech./M.Tech. Students</td>
<td>One month during June to July 2014</td>
</tr>
<tr>
<td>Central Leather Research Institute, Chennai</td>
<td>Research interaction to B.Tech./M.Tech. Students</td>
<td>Two months during May to July 2014</td>
</tr>
<tr>
<td>Dept. of Biochemistry and Medical Biotechnology, Calcutta school of Tropical Medicine, Kolkata</td>
<td>Research interaction to B.Tech./M.Tech. Students</td>
<td>One month during June to July 2014</td>
</tr>
<tr>
<td>Dept. of Chemical Engg., IIT, Mumbai</td>
<td>Research interaction to B.Tech./M.Tech. Students</td>
<td>One month during June to July 2014</td>
</tr>
<tr>
<td>Central tuber crops research Institute, Thiruvananthapuram</td>
<td>Research interaction to B.Tech./M.Tech. Students</td>
<td>Two months during May to July 2014</td>
</tr>
</tbody>
</table>
# Department of Electrical & Electronics Engineering

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

# Department of Electronics & Communication Engineering

<table>
<thead>
<tr>
<th>Name of Industry</th>
<th>Nature of Collaboration (academic, research, training, etc)</th>
<th>Period/Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light and Electro Optics Laboratory (LEOS), ISRO</td>
<td>Design of Free Space Optical link from satellite to ground station (Research)</td>
<td>2012-2014</td>
</tr>
<tr>
<td>Texas Instruments</td>
<td>BTech Major Project</td>
<td>2014-2015</td>
</tr>
<tr>
<td>TIFR, Bombay</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dr. Sreeram Vajapeyam</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RRI, Bangalore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ittiam, Bangalore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intuvision Labs, Bangalore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FluxgenTech, Bangalore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rockwell Automation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TEXAS INSTRUMENTS INDIA Pvt Ltd.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Technophila Systems, Bangalore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Toyota Kirloskar Motors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Robert Bosch</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zurepro Online Services Pvt. Ltd.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schlumberger</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tata Elxsi</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tejas Networks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oman Cables Industries</td>
<td></td>
<td></td>
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<tr>
<td>Sushma Industries</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Annual Report 2014-15
<table>
<thead>
<tr>
<th>Name of Industry</th>
<th>Nature of Collaboration (academic, research, training, etc)</th>
<th>Period/Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rothschild India Pvt. Ltd.</td>
<td>MoU with AVL with Licensed Software of AVL FIRE and BOOST.</td>
<td>May 12, 2014 to June 27, 2014</td>
</tr>
<tr>
<td>Electronic Corporation of India Limited, Hyderabad</td>
<td></td>
<td>May 19, 2014 to June 18, 2014</td>
</tr>
<tr>
<td>Ananya Technology Pvt Ltd</td>
<td></td>
<td>Dec 4, 2014 to Dec 31, 2014</td>
</tr>
<tr>
<td>SimpleWealth</td>
<td></td>
<td>2 December 2014 to 2 January 2015</td>
</tr>
<tr>
<td>PLX Technology</td>
<td>MTech Major Project</td>
<td>2014-2015</td>
</tr>
<tr>
<td>Intel India</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Broadcom</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Infineon</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emulex</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cardiac Design Labs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calligo Technologies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Robert Bosch</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Department of Mechanical Engineering**

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

<table>
<thead>
<tr>
<th>Name of Industry</th>
<th>Nature of Collaboration (academic, research, training, etc)</th>
<th>Period/Duration</th>
</tr>
</thead>
</table>

## Department of Metallurgical & Materials Engineering

<table>
<thead>
<tr>
<th>Name of Industry</th>
<th>Nature of Collaboration (academic, research, training, etc)</th>
<th>Period/Duration</th>
</tr>
</thead>
</table>
19 SIGNIFICANT ACHIEVEMENTS

19.01 Notable Achievements

Department of Applied Mechanics and Hydraulics

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

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Subject/Head of Information</th>
<th>Name/Title</th>
<th>Dates</th>
<th>No. of participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Workshop</td>
<td>Conservation of Water Resources of West Flowing Rivers of Coastal Karnataka</td>
<td>14th –15th December, 2012</td>
<td>120</td>
</tr>
<tr>
<td>2</td>
<td>Workshop</td>
<td>Geoinformatics for Natural Resource Management</td>
<td>30 – 31, January 2013</td>
<td>55</td>
</tr>
<tr>
<td>3</td>
<td>Workshop</td>
<td>Geoinformatics for Water and Coastal Engineering</td>
<td>23-24, September 2013</td>
<td>90</td>
</tr>
<tr>
<td>4</td>
<td>Symposium</td>
<td>Outstanding Issues for Hydrological Research in India’</td>
<td>21st October 2013</td>
<td>112</td>
</tr>
<tr>
<td>5</td>
<td>Workshop</td>
<td>Recent trends in system application as applied to Civil Engineering</td>
<td>09.01.2015</td>
<td>100</td>
</tr>
<tr>
<td>6</td>
<td>International Conference</td>
<td>Water Resources, Coastal and Ocean Engineering (ICWRCOE’15)</td>
<td>12-14 March 2015</td>
<td>350</td>
</tr>
</tbody>
</table>

Visits abroad by Faculty members

<table>
<thead>
<tr>
<th>Name of the Faculty</th>
<th>University/Institute/Organisation</th>
<th>Place</th>
<th>Purpose</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Vittal Hegde, Ph.D.</td>
<td></td>
<td>Zurich, Switzerland</td>
<td>For attending International conf. ICCOE-2013</td>
<td></td>
</tr>
<tr>
<td>Kiran G. Shirlal, Ph.D.</td>
<td>University of Hamburg</td>
<td>Germany</td>
<td>11th International Conference on Hydrosience and Engineering, Hamburg, Germany</td>
<td>28 Sep to 2 Oct 2014</td>
</tr>
<tr>
<td>Manu, Ph.D.</td>
<td>University of Hamburg</td>
<td>Germany</td>
<td>11th International Conference on Hydrosience and Engineering, Hamburg, Germany</td>
<td>28 Sep to 2 Oct 2014</td>
</tr>
<tr>
<td>Pruthviraj U. Ph.D.</td>
<td>University of Hamburg</td>
<td>Germany</td>
<td>11th International Conference on Hydrosience and Engineering, Hamburg, Germany</td>
<td>28 Sep to 2 Oct 2014</td>
</tr>
<tr>
<td>G.S.Dwarakish,</td>
<td>Malaysian Kaula</td>
<td>To attend and present</td>
<td>14 to 17 April</td>
<td></td>
</tr>
</tbody>
</table>
National Institute of Technology Karnataka, Surathkal

| Ph.D. | University | Lumpur, Malaysia | paper in the International Conference 2014 IEEE Region 10 | 2014 |

Projects faculty members applied

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

Other details if any

Awards / Distinction

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

Department of Chemical Engg

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

Notable Achievements during the year

Guest Lectures Delivered By Faculty Members

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Subject / Topic of the Guest Lecture</th>
<th>Lecture Delivered by (Name &amp; Address)</th>
<th>Place &amp; Event of Lecture Delivered</th>
<th>Dates of Lecture</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Modelling and Simulation of Crystallization Reactor</td>
<td>Dr. B. Ashraf Ali</td>
<td>Two-day National Workshop on “Advanced Mathematical Approaches In Chemical and Environmental Engineering Using Matlab And Simulink” at NIT, Calicut. During period of 1st JANUARY 2015 To MARCH 2015,</td>
<td>February 28 &amp; March 1, 2015</td>
</tr>
</tbody>
</table>
Department Of Civil Engineering

<table>
<thead>
<tr>
<th>Achievements up to 31st March 2014</th>
<th>Achievements during 1st April 2014 to 31st March 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>➢</td>
<td>American Society of Civil Engineers has issued the charter for National Institute of Technology Karnataka Student Chapter.</td>
</tr>
<tr>
<td>➢</td>
<td>The Department received the financial support to the tune of INR 110.8 Lakh under FIST-2013 scheme of the Department of Science and Technology, Government of India.</td>
</tr>
</tbody>
</table>

Department of Computer Engineering

<table>
<thead>
<tr>
<th>Achievements up to 31st March 2014</th>
<th>Achievements during 1st April 2014 to 31st March 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty achievements:</td>
<td>Faculty achievements:</td>
</tr>
<tr>
<td>➢ Prof. Swapan Bhattacharya, the esteemed Director of NITK Surathkal was honoured with The ET NOW National Education Leadership Award.</td>
<td>➢ Dr. Mohit P. Tahiliani received the &quot;EMC Young Achiever Awards 2015&quot; from EMC Corporation on 12th February 2015 at Le-Meridian Chennai.</td>
</tr>
<tr>
<td>➢ Dr.K.Chandrasekaran is nominated as a member in the Editorial board of IEEE transactions on Cloud Computing.</td>
<td></td>
</tr>
<tr>
<td>➢ Dr.K.Chandrasekaran is selected as one of the members of the “IEEE Cloud Computing STC’s conference Executive TCS Committee”, USA.</td>
<td></td>
</tr>
<tr>
<td>➢ Three days workshop on “Cloud Computing and Internet of Things”, 23th-25th July 2012, Co-ordinator:Dr.K. Chandrasekaran.</td>
<td></td>
</tr>
<tr>
<td>➢ Three days International Symposium on “Cloud and Services Computing 2012</td>
<td></td>
</tr>
<tr>
<td>Students achievements:</td>
<td>Students achievements:</td>
</tr>
<tr>
<td>➢ Mr. Sreecharan Sankaranarayanan, IV year B.Tech.(CSE) has been accepted to the Ph.D. program of the Language Technologies Institute in the School of Computer Science at Carnegie Mellon University starting in the Fall 2015 semester with Research Fellowship.</td>
<td></td>
</tr>
<tr>
<td>➢ Ms. Shruthi Puranik, III year B.Tech. will be doing Research Internship on “Mining Mobile Software Repositories” at Queen’s University Kingston, Canada under the scheme of “Student research Mobility Programme” with MITACS, Canada during May-September 2015.</td>
<td></td>
</tr>
<tr>
<td>➢ Arun V. Hegde Memorial Cash Prize for Pranav Thulasiram Bhat (12CO65), VI semester B.Tech.(CSE) and Pranav Bhat T (11CO66), VIII B.Tech.(CSE) securing more than 7.5(S.G.P.A.).</td>
<td></td>
</tr>
<tr>
<td>➢ Prof. V. Rajaraman's Cash award to Pranav Bhat T (11CO66) for highest CGPA from I to VII semester for the year 2014-15.</td>
<td></td>
</tr>
</tbody>
</table>
### Achievements up to 31<sup>st</sup> March 2014

- (ISCOS 2012)”, 16-18 December 2012, Co-ordinator: Dr. K. Chandrasekaran.

- Arun V. Hegde Memorial Cash Prize for Karthik C (11CO47), VI semester B.Tech. (CSE) and Chetan Dugar (10CO106), VIII B.Tech. (CSE) securing more than 7.5 (S.G.P.A.).


- Prof. V. Rajaraman’s cash Award to Chetan Dugar (10CO106), VIII B.Tech. (CSE) for highest CGPA from I to VII semester for the year 2013-14.


- Harsha Vardhana (2009-13), Guinness world record, participated in largest mobile phone gaming party involved 343 participants on 15<sup>th</sup> March 2013.

- IEEE Xtreme 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).


- 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.

### Achievements during 1<sup>st</sup> April 2014 to 31<sup>st</sup> March 2015

- Aditya Kumar Mishra, II year M.Tech (CSE) published a journal paper “Supervised Learning Method to Cluster XML Documents with reduced Complexity”, in International Journal of Advanced Technology in Engineering and Science, Volume No.03, Special Issue No. 01, March 2015 ISSN (online): 2348 – 7550”.

- **Sumanta Chatterjee**, I year MTech CSE-IS) 2014-2016 won Infosys In-Step Business Plan Competition July 2014
### Achievements up to 31st March 2014

- Platform which are already been taken up as a project in IEEE Computer Society.

- Prof. V. Rajaraman’s Cash award to Abhinit Modi (2009-13 B.Tech.) for highest CGPA from I to VII semester for the year 2012-13.

- Arun V. Hegde Memorial Cash Prize for Dhivya A(10CO26), VI semester B.Tech.(CSE) and Abhinit Modi(09CO02), VIII B.Tech.(CSE) securing more than 7.5(S.G.P.A.).


- One day workshop for school teachers on “Information Security” on 04th February 2012, Co-ordinator: Mr. Alwyn Roshan Pais and Mr. K. Vinay Kumar.

- Dr. K. C. Shet and Dr. K. Chandrasekaran received: “SHIKSHA RATTAN” award.

### Department of Chemistry

**Achievements up to 31st March 2014**

- 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.

**Achievements during 1st April 2014 to 31st March, 2015**

- Commonwealth Academic Fellowship to Prof. B.Ramachandra Bhat

### Department of Electrical & Electronics Engineering

**Achievements up to 31st March 2014**

**Achievements during 1st April 2014 to 31st March, 2015**

- Commonwealth Academic Fellowship to Prof. B.Ramachandra Bhat
**Mr. Tukram Moger** received Best Paper Award in Power and Energy track for the paper title “An Improved Approach for Evaluation of Reactive Power Sources Contribution to Reactive Load and Loss”, in 2013 Annual IEEE India Conference (INDICON) held during 13th to 15th December 2013 at Department of Electrical Engineering, Indian Institute of Technology Bombay (IIT Bombay), India.

Following M-Tech students Conferred with POSOCO power system award (PPSA)-2014 by Power System Operation Corporation Ltd (POSOCO) and Foundation for Innovation and Technology Transfer (FITT) at IIT Delhi. The award includes cash prize of Rs. 30,000/- and a citation

- Mr Shaktii Prasad D (worked under G.S. Punekar, Ph.D.)
- Miss Arthi Sahaya Rones V (worked under K. P. Vittal, Ph.D.)
- Mr. Vinod. M. P (worked under K. P. Vittal, Ph.D.)

Following M-Tech students Conferred with POSOCO power system award (PPSA)-2015 by Power System Operation Corporation Ltd (POSOCO) and Foundation for Innovation and Technology Transfer (FITT) at IIT Delhi. The award includes cash prize of Rs. 30,000/- and a citation

- Ms. A.G Priyanka and Ms. Ritty raju (who worked under the guidance of Dr. K.N. Shubhanga) A G. Priyanka bagged 8th position and Ritty Raju secured 14th place out of 25 awards.)
- Ms Megahana R, (student of Dr G S Punekar)
- Miss Geethi krishnan, M-Tech (by Research) (worked under the guidance of Dr. Dattatraya N. Gaonkar)
- Mr. Vanjari Venkata Ramana- M-Tech (by research worked under the guidance of Dr. D. Jena)
# Department of Electronics And Communication Engineering

<table>
<thead>
<tr>
<th>Achievements up to 31st March 2014</th>
<th>Achievements during 1st April 2014 to 31st March 2015</th>
</tr>
</thead>
</table>
| Ajin Jiji Tom (13EC202), obtained WORLD RANK 14 in WORLD ROBOT OLYMPIAD, (WRO)Malaysia (http://www.wroboto.org), participated in the same competition in 2013 when it was held in Qatar and won the GOLD medal. | ➢ Our students have won the IEEE student Enterprise award 2014 (Asia Pacific Region)  
➤ Title of the project: Mapping of Greenhouse gases using wireless sensor networks.  
➤ Mr. Prajwal M V (11EC66) and Srinivas B S (11EC97) have bagged the first prize in Texas Instruments analog design contest, judged by Prof. K Radhakrishna Rao of IIT Madras, for the interns selected at TI.  
➤ Aatish Chandak (11EC04), Arjun A (11EC14) and Nithin Kamath (11EC59) were presented with the 'Top 30 Designer' Awards for their project 'Autobot - Autonomous Surveyor Robot' by the EFY Design Contest 2013-14 held at the EFY-Expo, New Delhi.  
➤ Mr. Karthik Hegde (11EC39), 8th sem BTech (E&C) student, awarded best paper award for his technical paper titled "High Speed FFT for low end GPGPUs"  
➤ Mr. Karthik Hegde (11EC39), Published a paper at Intl. conf. on High performance computing, International symposium on parallel & distributed processing.  
➤ Arjun A (11EC14), Arjun Raghunath (11EC16) presented a paper at International Conference on NCGL for Multi-Core Processors at HiPC SRS 2014.  
➤ Arjun Raghunath (11EC16) presented a paper in International Conference on NCGL for Multi-Core Processors at HiPC SRS 2014.  
➤ Raghavendra S H (11EC75) published a paper at IEEE International Humanitarian Technology Conference, Montreal, Canada. Won the first place for the Best Lighting Project conducted by the EFY (Electronics For You Magazine) Design Contest 2013-14 held at the EFY-Expo, New Delhi for his work on Remote |
Controlled Efficient Lighting. He was also given additional grant for further development of his work. All IEEE R10 Young Humanitarian Engineering Challenge (Top 25) in Asia Pacific Region, Selected to represent NITK in Festival of Innovations at Rashtrapati Bhavan, Runners Up of E-Pitch B-plan competition (Rs 35,000 Cash Prize)

- Supreeth Prajwal S (11EC101) "Improved Vowel Onset and Offset Points Detection using Bessel Features", presented at SPCOM 2014, IISc, India.
- Naveen John - Selected as the Google student ambassador representing NITK for the 2014-15 academic year. Only the top 177 from over 2000 applicants were selected as GSA.
- Pranav Chennakeshava: IET India Scholarship 2015- Selected for Regional Presentation Round for South India Region Entered the finals of Anveshana-2015 competition held by Synopsys. Team Members: Pranav Chennakeshava, Abhishek Rathan Kumar
- Abhinav Roy Burman (12EC01) – won 2nd place in Justice Tarkunde National parliamentary debating tournament, ILS, Pune 2) 3rd place in RV debating tournament, Bangalore 3) Gold medal, freestyle relay, swimming, Inter-NIT, Surathkal.
- Lakshmana Kumar and Alok Babu were part of the inter-NIT team which came first in Kabaddi competition

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

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

**Admissions to Universities abroad:**

- Ajaykrishnan N (11EC09) Got admission in University of Maryland, College Park for PhD for Fall 2015.
- Supreeth Prajwal S (11EC101) Got admission in Georgia Institute of Technology as
**Department of Humanities, Social Sciences and Management**

<table>
<thead>
<tr>
<th>Achievements up to 31&lt;sup&gt;st&lt;/sup&gt; March 2014</th>
<th>Achievements during 1&lt;sup&gt;st&lt;/sup&gt; April 2014 to 31&lt;sup&gt;st&lt;/sup&gt; March 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>➢ Sreejith Alathur: Received the Highly Commended Outstanding Doctoral Research Award in the Management and Governance category from Emerald in 2013</td>
<td>➢ Dr. Sreejith Alathur received the 2014 National Internet Exchange of India (NIXI) Fellowship, Govt. of India.</td>
</tr>
<tr>
<td>➢ Awarded Charles Wallace Short Research Grant to Dr. Shashikantha K. during the year 2014-15 to work in the British Library, London for 4 weeks' duration.</td>
<td>➢ Received the “Best Paper Award” certificate and memento in the category of Social Initiatives Study (empirical study) at the International Consortium for Innovation and Entrepreneurship research and IIM, Bangalore held at IIM, Bangalore from 29&lt;sup&gt;th&lt;/sup&gt; to 31&lt;sup&gt;st&lt;/sup&gt; January, 2015.</td>
</tr>
</tbody>
</table>
## Department of Information Technology

### Achievements up to 31st March 2014

**Best Paper Awards**


### Achievements during 1st April 2014 to 31st March 2015

- Twelve batches of UG (B.Tech) and Three batch of PG(M.Tech) students have successfully completed their graduation in IT stream so far.
- Prof. Ananthanarayana V S Visited Carnegie Mellon University, USA and Penn State University, USA during 23rd June - 6th July 2014 for research interaction.
- Mr. Biju R Mohan visited Qatar Foundation for Education, Science and Community Development.
- Mr. Biju R Mohan visited Korea Institute of Information Scientists and Engineers (KIISE).

**Best Paper Awards**

- **Geetha V** and K Chandrasekaran, "Identification of parameters for trust management in wireless sensor networks" at Eighth International Conference on Communication Networks (ICCN 2014) organised by University Vishveshwariah Engineering College (UVCE), Bangalore, July 25th – 27th, 2014
- Mr. Shridhar Domanal (Research Scholar of Prof G Ram Mohana Reddy, IT Dept, NITK) has visited the University of Melbourne, Australia during January 26-February 10, 2015. In particular, he visited CLOUDS Lab in the Department of Computing and Information
Systems and interacted with Professor Rajkumar Buyya and his research team members and explored possible collaboration areas in the area of Cloud computing environments.

**IT Student Admissions to Top Universities**

<table>
<thead>
<tr>
<th>Name</th>
<th>University</th>
<th>Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Divya Venugopalan</td>
<td>Carnegie Mellon University, USA</td>
<td>M.S in Computer Science</td>
</tr>
<tr>
<td>Susmitha P</td>
<td>Carnegie Mellon University, USA</td>
<td>M.S in Computer Science</td>
</tr>
<tr>
<td>Vikas Mohandoss</td>
<td>Columbia University, USA</td>
<td>M.S in Computer Science</td>
</tr>
<tr>
<td>Ruchika Shivaswamy</td>
<td>University of California San Diego, USA</td>
<td>M.S in Computer Science</td>
</tr>
</tbody>
</table>

**Department of Mathematical & Computational Sciences**

**Achievements up to 31st March 2015**

- Dr. Harsha Vardhan and Dr. M. Aruna are working with Govt. of Karnataka in connection with Lease Boundary mine survey.

- Dr.K.Ram Chandar appointed as Technical Committee member for procurement of ANFO for M/s. Mysore Minerals Limited under KTPP Act, 1999 under sec-4(b).

**Department Of Mechanical Engineering**

**Achievements during the period of report** - Prof. Santhosh George and Dr. P. Jidesh, in collaboration with others organized the International Conference on Mathematical and Computational Sciences, at Don Bosco College, Kannur, Kerala, during 22nd to 24th of January, 2015, (sponsored by NBHM).
The department had started M.Tech Program in Design and Precession in collaboration with Central Manufacturing Technology Institute, Bangalore

- The department has Awarded 6 PhD degree
- The department has Published 57 papers in international Journals, 39 papers in international conferences.
- The Department has MoU with Volvo for academic and research purpose
- The department is granted with external funded projects worth Rs. 1124.65 Lakhs
- The department conducted one international conference.
- One new faculty members joined in the department

### Department of Metallurgical And Materials Engineering

<table>
<thead>
<tr>
<th>Achievements up to 31st March 2014</th>
<th>Achievements during 1st April 2014 to 31st March 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total no. of Ph.Ds = 25</td>
<td>10</td>
</tr>
<tr>
<td>Total No. of Paper Published = 387</td>
<td>Total No. of Paper Published = 76</td>
</tr>
</tbody>
</table>

### Department of Physics

<table>
<thead>
<tr>
<th>Achievements up to 31st March 2014</th>
<th>Achievements during 1st April 2014 to 31st March 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aparna Bisht,  M.Sc.(Physics) student of Batch 2012-14 has joined as Ph.D student at the International Max Plank Research School (IMPRS), Albert Einstein Institute of Gravitational Physics, Hannover, Germany.</td>
<td></td>
</tr>
<tr>
<td>Vaishali B. Adya,  M.Sc.(Physics) student of Batch 2011-13 has joined as Ph.D student at the International Max Plank Research School (IMPRS), Albert Einstein Institute of Gravitational Physics, Hannover, Germany.</td>
<td></td>
</tr>
<tr>
<td>Yogananda D,  M.Sc.(Physics) student of Batch 2011-13 cleared CSIR-UGC NET (JRF) examination.</td>
<td></td>
</tr>
</tbody>
</table>
Addition(s) to Building Infrastructure

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

Department Of Computer Engineering
- New building for the department is being constructed

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

Department Of Metallurgical & Materias Engineering

Special talk from Industries/R&D

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Name of the Guest</th>
<th>Topic</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Chief Scientist &amp; Head Electodes &amp; Electrolysis Division CSIR, Karaikudi</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Sukumar Roy, BHEL, Bangalore</td>
<td>Industrial nanotechnology – Activities in BHEL</td>
<td>25 – 07 – 2014</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Taik Nam Kim, Professor Dept. of Materials Science &amp; Engineering, Paichai Univ., Daejeon, Korea</td>
<td>Synthesis of Hydroxyapatite from biowaste</td>
<td>04 – 12 – 2014</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. A. M. Shanmugharaj, Assistant Professor Kyung Hee University, Korea</td>
<td>Nanomaterials Energy Conversion and Storage</td>
<td>12 – 01 – 2015</td>
</tr>
</tbody>
</table>

CHEMICAL ENGINEERING

Details of Book written by Full time faculty members

Books published during the year
<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Name of the Faculty members</th>
<th>Name of the Book</th>
<th>Publication name</th>
<th>Year of Publication</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ritu Raval, Keyur Raval, Satinder Brar Kaur, Mausam Verma</td>
<td>Book chapter published in Enzymes in Value addition of wastes</td>
<td>Nova Publishers, USA</td>
<td>2014</td>
</tr>
</tbody>
</table>

**Department of Metallurgical & Materials Engineering**

**Books Published:**


**Department of Physical Education & Sports**

<table>
<thead>
<tr>
<th>Achievements up to 31st March 2014</th>
<th>Achievements during 1st April 2014 to 31st March 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education and Sports: Institute teams formed, trained and coached were allowed to participate in different Taluk, District, State and National level tournaments/Competitions.</td>
<td>Physical Education and Sports: Institute teams formed, trained and coached were allowed to participate in different Taluk, District, State and National level tournaments/Competitions.</td>
</tr>
<tr>
<td>➢ Dasara Tournaments: Basketball(Men) District: Runners-up, Badminton(Men) District Runners-up, Table Tennis (Men) District: runners-up.</td>
<td>➢ All India Inter NIT Sports in Aquatics Men &amp; Women have been organized by our Institute:</td>
</tr>
<tr>
<td>➢ DK District Basketball Association conducted James Neismith Intercollegiate Basketball Tournament: Institute Men Basketball team was Winners. B S A Kumar Inter Collegiate Basketball Tournament Conducted by Yenepoya University: Institute Men Basketball Team were Winners. Zest All India Inter Collegiate Basketball Tournament conducted by Gove College of Engineering, Poona: Winners. Slam Dunk South zone inter collegiate Basketball Tournament conducted during 4th to 08th March, 2015- Institute Men and Women Basketball teams were Runner-Ups. Ragam Cup inter Collegiate Basketball Tournament held at NIT Calicut: Men- Winners, Women-Runners-Up.</td>
<td></td>
</tr>
</tbody>
</table>

Annual Report 2014-15
Our Institute Aquatics (Men): Winners of Team Championships, Aquatics (Women): Winners of Team Championship. Other results of All India Inter NIT Tournaments held at other NITs: Badminton(Men)- Winners, Badminton Women: Runners-Up, Basketball(Men) – Runner-up, Basketball Women : Runners-Up Hockey (Men) : Winners, Kabaddi (Men) Winners, Table Tennis (Men): Runners-up, Tennis (Men): Winners, Weight Lifting, Power Lifting and Best Physique competitions: Team won 8 medals including 4 gold medals. Due to excellent performance of all teams we won Overall Championship this time.

- Spike Fest, Invitational Inter Engineering collegiate Volleyball Tournament: Women team: Runners.
- D K District T-20 Cricket tournament for Professional colleges, conducted by DKCA: Winners,
- DKCA Inter Club Cricket tournament: Won IV place and KSCA Mangalore Zone Third Division League tournament 2014: Third Place.
- Karavali Staff Intercollegiate Tennis ball Cricket tournament : Staff Team are Winners.

Intra-Mural Competitions in Aquatics and Athletics conducted during the month of January, 2015 attracted large number of student participants. Prize money, Medals and Certificates were distributed to 3 place winners of each event. Institute Aquatics and Athletics teams were selected on the basis of these results. Phoenix, a gala of sports (An Inter year competitions for students) has been conducted in the even semester and by enthusiastic huge participation, students responded overwhelmingly and spontaneously.
20 ASSOCIATED CENTRES

20.1 National Institute Of Technology Karnataka (STEP)

NITK is equipped with a Science & Technology Entrepreneurs’ Park (STEP) in a separate earmarked zone of the vast complex of NITK. STEP has been formed as an independent registered society in the year 1994 by the erstwhile KREC. It became functional in 1998 by setting up its administrative & entrepreneurs’ block along with other required infrastructure. Since 2005 it is a self-sustaining entity.

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

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

Status of occupancy by Incubate units in 2014-15:

<table>
<thead>
<tr>
<th>S No</th>
<th>Unit Size</th>
<th>Name of the unit</th>
<th>Technology Domain</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>500 sq.ft</td>
<td>Expert Vision Labs Pvt Ltd</td>
<td>Imaging Technology Products</td>
</tr>
<tr>
<td>2</td>
<td>250 sq.ft</td>
<td>Recherche Technologies</td>
<td>Web Design and Development</td>
</tr>
<tr>
<td>3</td>
<td>300 sq.ft</td>
<td>Mindstack Technologies</td>
<td>Web Design and Development</td>
</tr>
<tr>
<td>4</td>
<td>500 sq.ft</td>
<td>NGCN Infosolutions Pvt Ltd.</td>
<td>Networking and Cloud Computing Applications</td>
</tr>
<tr>
<td>5</td>
<td>500 sq.ft</td>
<td>Pixelabz</td>
<td>Multi Media applications</td>
</tr>
<tr>
<td>6</td>
<td>650 sq.ft</td>
<td>Automation Apps LLP</td>
<td>Web Design and Mobile Applications</td>
</tr>
<tr>
<td>7</td>
<td>500 sq.ft</td>
<td>Skill Soft Technologies</td>
<td>Skill Development, IT Infrastructure Management</td>
</tr>
</tbody>
</table>
Faculty Development Programs held in the region:

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

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

Activities:

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

Objectives:

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

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

<table>
<thead>
<tr>
<th>Sl No</th>
<th>Name of the Startup</th>
<th>Team members</th>
<th>Name of the project</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CybrSys</td>
<td>Shubham Badal</td>
<td>Cyberhome</td>
</tr>
<tr>
<td></td>
<td>(cybrsys.com)</td>
<td>Ashish Gupta</td>
<td><a href="http://www.cyberhome.com">www.cyberhome.com</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ajeet Lakhani</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Cosine Solution</td>
<td>Ananthu V</td>
<td>Foldschools App</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Anshej Habin</td>
<td></td>
</tr>
</tbody>
</table>
20.2 CENTRE FOR CONTINUING EDUCATION (C.C.E)

Details of Activities during the year 2014-15

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Title of the Course</th>
<th>Duration</th>
<th>Organized by</th>
<th>Name of the Course Coordinators</th>
<th>No. of Participants attended</th>
<th>Course Intended for</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Design, Construction &amp; Maintenance of all Weather Roads</td>
<td>01-09-2014 to 05-09-2014</td>
<td>Department of Civil Engineering</td>
<td>Prof. A.U. Ravishankar &amp; Prof. Sitaram Nayak</td>
<td>14</td>
<td>The Practicing Engineers deputed from various Karnataka Government Departments</td>
</tr>
</tbody>
</table>
20.3 Research & Development Centre for Clay Roofing Tiles, Bricks and Other Ceramic Products.

1. ACTIVITIES:

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

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

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Product Details</th>
<th>Technology Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Bricks</td>
<td>Ready</td>
</tr>
<tr>
<td>2.</td>
<td>Hollow Blocks</td>
<td>Ready</td>
</tr>
<tr>
<td>3.</td>
<td>Cavity Bricks</td>
<td>Ready</td>
</tr>
<tr>
<td>4.</td>
<td>Hollow Roof Block</td>
<td>Ready</td>
</tr>
<tr>
<td>5.</td>
<td>Roof Tiles</td>
<td>Ready</td>
</tr>
<tr>
<td>6.</td>
<td>Decorative Tiles</td>
<td>Ready</td>
</tr>
<tr>
<td>7.</td>
<td>Pavement Block</td>
<td>Ready</td>
</tr>
<tr>
<td>8.</td>
<td>Interlock Wall Block</td>
<td>Ready</td>
</tr>
</tbody>
</table>

3. Facilities at R & D Centre:
### 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.
21.0  FINANCE AND ACCOUNTS

The Financial Status

SOURCE OF FUNDS

<table>
<thead>
<tr>
<th></th>
<th>Rs. in lakhs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plan Grants</td>
<td>4300.00</td>
</tr>
<tr>
<td>Non Plan Grants</td>
<td>6000.48</td>
</tr>
<tr>
<td>Project Grants</td>
<td>892.93</td>
</tr>
</tbody>
</table>

Expenditure position for last three years

<table>
<thead>
<tr>
<th>Year</th>
<th>Plan</th>
<th>Non Plan</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012-13</td>
<td>7031.75</td>
<td>6475.97</td>
<td>13507.72</td>
</tr>
<tr>
<td>2013-14</td>
<td>4671.77</td>
<td>7319.30</td>
<td>11991.07</td>
</tr>
<tr>
<td>2014-15</td>
<td>7790.51</td>
<td>8536.88</td>
<td>16327.39</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>19494.03</strong></td>
<td><strong>22332.15</strong></td>
<td><strong>41826.18</strong></td>
</tr>
</tbody>
</table>
## FINANCE AND ACCOUNTS DETAILS

**BALANCE SHEET AS AT 31-03-2015**

<table>
<thead>
<tr>
<th>PARTICULARS</th>
<th>CURRENT YEAR</th>
<th>PREVIOUS YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SOURCE OF FUNDS:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CORPUS/CAPITAL FUND</td>
<td>3,027,881,111</td>
<td>3,070,304,564</td>
</tr>
<tr>
<td>DESIGNATED/ EARMARKED/ ENDOWMENT FUNDS</td>
<td>1,438,552,695</td>
<td>1,165,165,900</td>
</tr>
<tr>
<td>CURRENT LIABILITIES AND PROVISIONS</td>
<td>513,667,191</td>
<td>373,776,371</td>
</tr>
<tr>
<td>TEQIP PROJECT - PHASE I</td>
<td>184,237,765</td>
<td>184,237,765</td>
</tr>
<tr>
<td>TEQIP PROJECT - PHASE II</td>
<td>78,525,242</td>
<td>47,602,933</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>5,242,864,004</td>
<td>4,841,087,533</td>
</tr>
</tbody>
</table>

| **APPLICATION OF FUNDS:**                        |               |               |
| FIXED ASSETS                                     |               |               |
| Tangible Assets                                 | 2,032,195,241 | 2,167,598,458 |
| Intangible Assets                               | 7,321,351     | -             |
| Capital Works-In-Progress                       | 520,439,419   | 77,111,988    |
| INVESTMENTS FROM EARMARKED/ ENDOWMENT FUNDS      |               |               |
| Long Term                                       | 1,081,054,278 | 819,517,246   |
| Short Term                                      | -             | -             |
| INVESTMENTS - OTHERS                            |               |               |
| CURRENT ASSETS                                  | 426,673,276   | 401,700,243   |
| LOANS, ADVANCES & DEPOSITES                     | 912,417,431   | 1,143,318,900 |
| TEQIP PROJECT - PHASE I                         | 184,237,765   | 184,237,765   |
| TEQIP PROJECT - PHASE II                        | 78,525,242    | 47,602,933    |
| **TOTAL**                                       | 5,242,864,004 | 4,841,087,533 |
## INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31-03-2015

### (AMOUNT - Rs.)

<table>
<thead>
<tr>
<th>PARTICULARS</th>
<th>CURRENT YEAR</th>
<th>PREVIOUS YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INCOME:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACADEMIC RECEIPTS</td>
<td>282,461,218</td>
<td>216,067,859</td>
</tr>
<tr>
<td>GRANTS/SUBSIDIES</td>
<td>814,326,101</td>
<td>641,379,820</td>
</tr>
<tr>
<td>INCOME FROM INVESTMENTS</td>
<td>19,204,532</td>
<td>16,427,470</td>
</tr>
<tr>
<td>INTEREST EARNED</td>
<td>4,835,981</td>
<td>2,395,472</td>
</tr>
<tr>
<td>OTHER INCOME</td>
<td>53,249,824</td>
<td>53,359,793</td>
</tr>
<tr>
<td>OTHER RESEARCH PROJECTS</td>
<td>21,744,293</td>
<td>18,405,702</td>
</tr>
<tr>
<td>PRIOR PERIOD INCOME</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>TOTAL (A)</strong></td>
<td>1,195,821,949</td>
<td>948,036,116</td>
</tr>
<tr>
<td><strong>EXPENDITURE:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>STAFF PAYMENTS &amp; BENEFITS</td>
<td>615,878,193</td>
<td>523,472,008</td>
</tr>
<tr>
<td>ACADEMIC EXPENSES</td>
<td>247,682,402</td>
<td>177,265,155</td>
</tr>
<tr>
<td>ADMINISTRATIVE &amp; GENERAL EXPENSES</td>
<td>112,698,155</td>
<td>102,257,533</td>
</tr>
<tr>
<td>TRANSPORTATION EXPENSES</td>
<td>1,054,035</td>
<td>961,627</td>
</tr>
<tr>
<td>REPAIRS &amp; MAINTENANCE</td>
<td>99,690,421</td>
<td>49,156,337</td>
</tr>
<tr>
<td>FINANCE COST</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>DEPRECIATION</td>
<td>246,219,797</td>
<td>238,996,569</td>
</tr>
<tr>
<td>OTHER EXPENSES</td>
<td>124,123,773</td>
<td>86,819,068</td>
</tr>
<tr>
<td>PRIOR PERIOD EXPENSES</td>
<td>36,786,151</td>
<td>-</td>
</tr>
<tr>
<td><strong>TOTAL (B)</strong></td>
<td>1,484,132,927</td>
<td>1,178,928,297</td>
</tr>
</tbody>
</table>

### BALANCE:

- **EXCESS OF EXPENDITURE OVER INCOME (A-B)**
  - **CURRENT YEAR**: 288,310,977
  - **PREVIOUS YEAR**: 230,892,181
## Receipts & Payments for the year ended 31.03.2015

<table>
<thead>
<tr>
<th>RECEIPTS</th>
<th>Current Year</th>
<th>Previous Year</th>
<th>PAYMENTS</th>
<th>Current Year</th>
<th>Previous Year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Opening Balances:</strong></td>
<td></td>
<td></td>
<td>Expenses:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(a) Cash in hand</td>
<td>32,738</td>
<td>80,336</td>
<td>(a) Establishment Expenses</td>
<td>530,579,273</td>
<td>473,001,259</td>
</tr>
<tr>
<td>(b) <strong>Bank Balances:</strong></td>
<td></td>
<td></td>
<td>(b) Administrative Expenses</td>
<td>405,160,415</td>
<td>935,739,689</td>
</tr>
<tr>
<td>(i) In current accounts</td>
<td>73,674,809</td>
<td>14,715,776</td>
<td>Payments Against Earmarked/Endowment Funds</td>
<td>26,865,939</td>
<td>51,043,743</td>
</tr>
<tr>
<td>(ii) Savings accounts</td>
<td>105,713,168</td>
<td>179,420,715</td>
<td>Investments Made Out of Earmarked/Endowment Fund Out of Own Fund</td>
<td>763,054,602</td>
<td>859,125,601</td>
</tr>
<tr>
<td><strong>Grants Received:</strong></td>
<td></td>
<td></td>
<td>Expenditure on Fixed Assets &amp; Capital Work - in - progress:</td>
<td>734,285,158</td>
<td>249,738,121</td>
</tr>
<tr>
<td>(a) From Govt. of India Plan Grant - General</td>
<td>386,934,000</td>
<td>836,934,000</td>
<td>Payments made against Funds for various projects:</td>
<td>963,753,825</td>
<td>1,304,439,694</td>
</tr>
<tr>
<td>Non -Plan Grant</td>
<td>450,000,000</td>
<td>1,044,921,181</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>b) From State Govt.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Academic Receipts</strong></td>
<td>340,523,835</td>
<td>408,488,416</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Receipts Against Earmarked/Endowment Funds</strong></td>
<td>91,588,894</td>
<td>342,205,635</td>
<td>Deposits &amp; Advances</td>
<td>698,306,060</td>
<td>810,406,272</td>
</tr>
<tr>
<td><strong>Receipts Against Sponsored Projects/Schmes</strong></td>
<td>97,264,482</td>
<td>66,431,786</td>
<td>Payments made against Funds for various projects:</td>
<td>963,753,825</td>
<td>1,304,439,694</td>
</tr>
<tr>
<td><strong>Income on Investments</strong></td>
<td>14,784,348</td>
<td>13,450,051</td>
<td>Any Other Payments :</td>
<td>67,007,522</td>
<td>546,445,574</td>
</tr>
<tr>
<td><strong>Interest Received</strong></td>
<td>4,358,055</td>
<td>2,395,472</td>
<td>Closing Balances:</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Deposits &amp; Advances</strong></td>
<td>977,527,652</td>
<td>395,943,287</td>
<td>(a) Cash in hand</td>
<td>182,639</td>
<td>32,738</td>
</tr>
<tr>
<td><strong>Investments Encashed</strong></td>
<td>707,560,149</td>
<td>908,890,866</td>
<td>(b) Bank Balances:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(i) In current accounts</td>
<td></td>
<td></td>
<td>(i) In current accounts</td>
<td>31,367,042</td>
<td>73,674,809</td>
</tr>
<tr>
<td>(ii) Savings accounts</td>
<td>1,163,941,917</td>
<td>1,629,094,927</td>
<td>(ii) Savings accounts</td>
<td>111,742,297</td>
<td>105,713,168</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>4,413,904,046</td>
<td>4,877,402,388</td>
<td><strong>TOTAL</strong></td>
<td>4,413,904,046</td>
<td>4,877,402,388</td>
</tr>
</tbody>
</table>