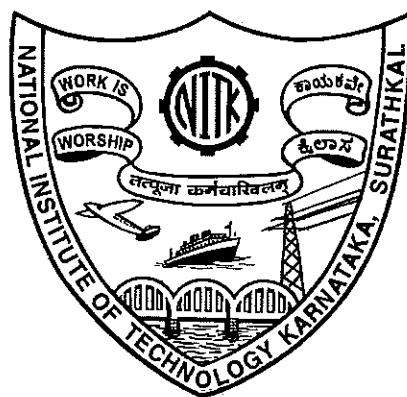


National Institute of Technology Karnataka Surathkal
Mangalore - 575 025, INDIA



**ANNUAL REPORT
2011 - 2012**

Website : www.nitk.ac.in
E-mail : director@nitk.ac.in

Tel : 0824-2474000 (7 Lines)
Fax : 0824- 2474033

NITK Surathkal – At a Glance

GOVERNANCE

NITK is governed by the Board of Governor, which consists of representatives of the Government of India, Government of Karnataka, Industry, Alumni and other nominees. The Chairman of the Board is nominated by the Government of India. The Director is the administrative head of the Institute. NITK an 'Institute of National Importance', is governed by NIT Act 2007 and statutes laid down by Government of India. Reconstituted Board of Governors is in place since September 2011.

TEAM NITK

14 Departments
15 Supporting Centers
195+ highly qualified and dedicated faculty
300+ Committed supporting staff
5000+ talented and motivated students
20500+ distinguished alumni

DIVISIONS AND DEPARTMENTS

Division of Civil Engineering Systems
Applied Mechanics and Hydraulics
Civil Engineering
Mining Engineering
Division of Electrical, Electronics and Computing Systems
Computer Engineering
Electrical and Electronics Engineering
Electronics and Communication Engineering
Information Technology
Division of Mechanical and Chemical Systems
Chemical Engineering
Mechanical Engineering
Metallurgical and Material Engineering
Division of Basic Sciences, Humanities, Social Sciences and Management Systems
Physics
Chemistry
Mathematical & Computational Sciences
Humanities, Social Sciences and Management
ACADEMIC PROGRAMS
B.Tech – 9 disciplines
M.Tech -24 Specializations
M.Tech(Research)- All Specializations

MBA

MCA

M.Sc - Chemistry

M.Sc - Physics

Ph.D – offered in all departments

All the 9 UG programs and 16 PG programs that have completed 5 years of existence have been accredited by NBA in 2008- most of them with the highest rating. All the Departments of the Institute are recognized QIP centres for admission of teachers of both Engg. Colleges and Polytechnics for their post-graduate & doctoral studies.

INTERDISCIPLINARY CENTERS OF EXCELLENCE

Disaster Risk Reduction
Innovation
Material Research
Sustainable Technologies
System Design(Virtual Instrumentation)
Wireless Sensor Networks

ASSOCIATED CENTRES

Centre for Continuing Education ; R&D center for Clay, Roofing Tiles & Ceramic Products; National Technology Manpower Information Systems (NTMS) Nodal Centre; Industry Institute Partnership Cell; NITK Science and Technology Entrepreneurs Park (NITK-STEP);IGNOU Study Centre; D.K NIRMITHI Kendra.

CAMPUS

300 acres of lush green beach-side campus located at Srinivasnagar, Surathkal Mangalore. Departments & facilities on Eastern and Western sides of NH-66 with connectivity through a 2-lane vehicular underpass. Well connected by rail and road to the rest of country. Flights available to major Indian cities and International destinations.

FACILITIES & SUPPORT

100+ classrooms, 100+ laboratories
11 hostel blocks for boys, 5 hostel blocks for girls. Mega Hostel for boys with 1512 single-seater rooms. New Ladies Hostel with 347 single-seater room. Internet Connectivity (1Gbps, 155 mbps, 6000 nodes) Central Computer Center, Central Library, E-Library, On-line access to journals 1200-capacity Auditorium, 1800-capacity Open-air Theatre, Co-

operatives stores, Post office, Banks, ATMs, Health Care Centre with many visiting specialist doctors, Yoga Centre
3 Campus schools (Kannada & English Medium) Guest House, Food Court and Canteens
International standard Swimming-pool,
Sports Grounds for cricket, hockey, football,
Floodlit Courts for Basketball, Volley ball and Tennis
NCC – 2nd Karnataka Engineering Company
Surathkal Innovation Challenge(SIC)
Student Internship Programme(SIP)

BUDGET (2011-2012)

Total Financial Outlay -₹ 94.67 Crores
Internal Revenue Generated ₹ 24.36 Crores
Consultancy & Testing Earnings ₹ 4.00 Crores
Corpus Fund of more than ₹ 44.60 Crores

RESEARCH & DEVELOPMENT

Rs. 13.17 Crores funding available currently
100 full-time institutional scholarships for Ph.D
4 chair-professorships
Virtual Instrumentation Laboratory
NPMASS (National Project on Smart Systems)
NPTEL (National Proj.on Tech. Enhanced Learning)
SMDP-VLSI
FIST programs funded by DST

PUBLICATIONS (2011-12)

International & National Journals -285
International & National Conferences - 302

DOCTORAL OUTPUT

2010-11 - 40 Candidates
2011-12 - 16 Candidates
2012-13 - 33 Candidates
Doctoral students on rolls - 406

MoUs signed with International institutions

KAIST, Korea; Kagoshima University, Japan; Eindhoven University, Netherlands; Pennsylvania State University, USA; Chonnam National University, Korea; IRD, France; Dublin City University, Ireland; Uni. Of Applied Sciences, Switzerland; Deakin University, Australia; Kumamoto University, Japan; Michigan State University, USA; Consortium of Finnish and Spain Universities; University of Catalonia; Ulsan University, South Korea, Mitaes Inc. Canada; National Technical University of Ukraine.

MoUs Signed with other Institutions/Organizations

IBM; BOSCH;ROBERT BOSCH,EMC;Hewlett-Packard; Accenture; Bhabha Atomic Research Centre, Mumbai; Central Power Research Institute, Bangalore; RV College of Engineering, Bangalore; CSTAR, Chennai; ALSTOM, New Delhi; SIT, Tumkur; MRPL,Mangalore;CMTI, Bangalore; CREST, Calicut, NIT Calicut, ITI Bangalore. IOCL, New Delhi; IISC Bangalore, IIT Madras, NAL, Bangalore; ECAM, France. AMD

TEQIP

One of the best performing Lead Institutions with a total financial support of Rs. 240 million in Phase-1. Phase II has been initiated with a funding of Rs. 125 million with focus on PG education and research.

DASA

Direct admission of students Abroad, a Govt. of India scheme is coordinated by NITK, Surathkal, offering admission to NRIs/PIOs/Foreign Students in more than 30 centrally funded institutions for UG and PG programs. A completely online process developed and implemented by NITK during 2010-11, 2011-12 & 2012-13.

SCHOLARSHIPS & MEDALS

Several well known and prestigious scholarship (25), awards and medals (35) are on offer for students at all levels. This is in addition to all regular scholarship of Govt. of India and other State Governments. SPARSH and several other scholarship opportunities.

EXTRA AND CO-CURRICULAR ACTIVITIES

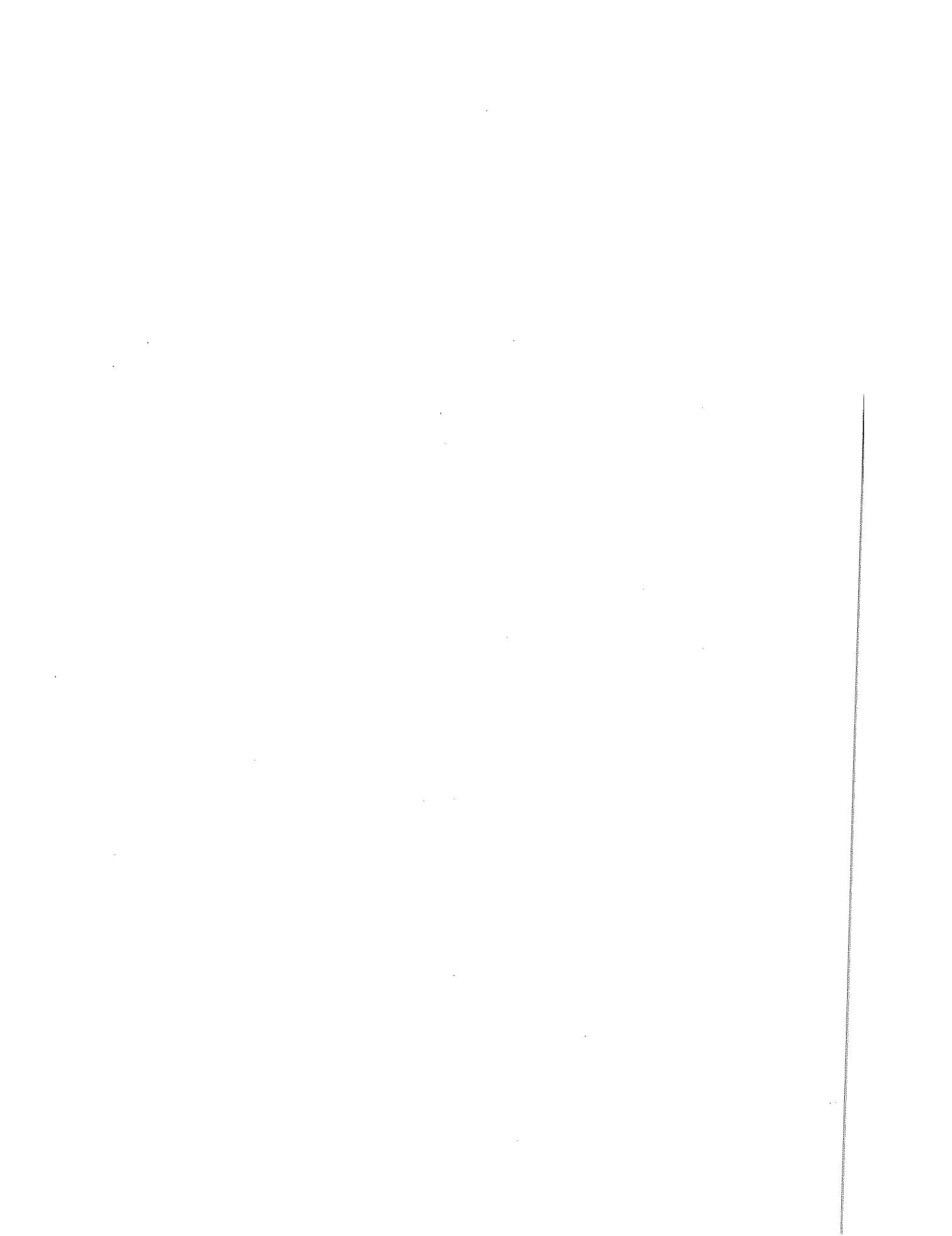
More than 30 clubs, societies and professional body chapters are active conducting regular activities through elected leaders and representatives. "INCIDENT and ENGINEER" are popular cultural and technical annual festivals. NITK won the overall championship of Inter NIT Sports consecutively for the last 3 years.

TRAINING AND PLACEMENT

NITK is ranked among the top institutions for student placements. During 2011-12 about 185 companies visited. UG placements 93%; PG placement 51%; Internships provided within India and Abroad.

Annual Report 2011-2012

| Contents | Page No. |
|--------------------------------------|-----------------|
| 1. The Institute | 1 |
| 2. Governance & Administration | 2 |
| 3. Divisions/Departments | 9 |
| 4. Academic Programmes | 10 |
| 5. Admission Policies | 12 |
| 6. Admissions for 2011-2012 | 13 |
| 7. Evaluation and Examination | 29 |
| 8. Examination Results for 2010-2011 | 30 |
| 9. PhD Programmes & Doctoral Degrees | 33 |
| 10. Human Resources | 41 |
| 11. Facilities/Amenities | 51 |
| 12. Student Activities | 68 |
| 13. Research and Development | 69 |
| 14. Events organized | 144 |
| 15. Human Resource Development | 154 |
| 16. Student Placements | 167 |
| 17. Special Initiatives | 183 |
| 18. Industry Institute Interaction | 190 |
| 19. Significant Achievements | 193 |
| 20. Associated Centres | 210 |
| 21. Finance and Accounts | 216 |



1.0 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 7 Departments offering BE programs in Civil, Mechanical and Electrical Engineering. Initially the College was affiliated to the University of Mysore but in 1980 the affiliation was transferred to the Mangalore University. Since then KREC grew from strength to strength and set unprecedented records in the field of technical education in the country. 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. 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.

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.

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 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 Vast 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 West Side and East Side, the West Side on the beach front houses the Departments of E&E, E&C, Computer and Information Technology, besides Guest Houses, STEP, Yoga centre and pristine beach.

2.0 GOVERNANCE & ADMINISTRATION

2.1 ADMINISTRATION

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

COUNCIL, BOG AND OTHER COMMITTEES

COUNCIL OF NITs

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

BOARD OF GOVERNORS

| | |
|---|----------|
| 1. Shri. Sushil Chandra Tripathi, Former Secretary, Ministry of HRD, House No: 27, Sector 15- A, Noida – 201301(Uttar Pradesh) | Chairman |
| 2. Shri R.D.Sahay, Joint Secretary (TE), Room No. 516-C Wing, Shastri Bhavan, New Delhi – 110115. | Member |
| 3. Sri.A.N.Jha, Joint Secretary and Financial Advisor, Ministry of Human Resource Development, Dept. of Higher Education, Technical Education Bureau Shastri Bhavan, New Delhi – 110 001 | Member |

National Institute of Technology Karnataka, Surathkal

4. Dr.P.Dayanand Pai, Member
Managing Director,
Century Building Industries Private Limited,
Palace Road,
Bangalore - 560 052
5. Sri. Mudda Kedarnath, Member
Advisor – Aditya Birla Group,
#17, Shankar Nilaya,
8th Main , 18th Cross,
Upper Palace Orchard,
Sadashivnagar,
Bangalore - 560080.
6. Mrs.Sudha Murthy Member
Chairperson, Infosys Foundation
C/O Infosys Towers,
No. 27, J.P. Nagar, 3rd Phase,
Bannerghatta Main Road,
Bangalore 560 076, Karnataka, India
7. Padma Bhushan Prof. (Dr.) B.M.Hegde, Member
Former Vice- Chancellor,
Manipal University,
Manjunath, Pais Hills,
Bejai- Mangalore- 575004.
8. Prof. Sandeep Sancheti Member
Director,
N.I.T.K. SURATHKAL.
9. Dr.K.N.Lokesh, Member
Professor,
Dept. of Civil Engineering,
NITK, Surathkal.
10. Sri.Suresh Kumar Y. Member
Associate Professor,
Dept. of Mechanical Engineering,
NITK, Surathkal.
11. Dr. M. Govinda Raj, Secretary
Registrar,
NITK, Surathkal

FINANCE COMMITTEE

1. Shri. Sushil Chandra Tripathi, Chairman
Former Secretary, Ministry of HRD,
House No: 27, Sector 15- A,
Noida – 201301(Uttar Pradesh)
2. Shri R.D.Sahay, Member
Joint Secretary (TE),
Room No. 516-C Wing,
Shastri Bhavan,
New Delhi – 110115.

National Institute of Technology Karnataka, Surathkal

3. Sri.A.N.Jha, Member
Joint Secretary and Financial Advisor,
Ministry of Human Resource Development,
Dept. of Higher Education,
Technical Education Bureau
Shastri Bhavan, New Delhi – 110 001
4. Sri. Mudda Kedarnath, Member
Advisor – Aditya Birla Group,
#17, Shankar Nilaya,
8th Main , 18th Cross,
Upper Palace Orchard,
Sadashivnagar,
Bangalore-560080
5. Prof. Sandeep Sancheti Member
Director,
N.I.T.K. SURATHKAL.
6. Dr.K.N.Lokesh, Member
Professor,
Dept. of Civil Engineering,
NITK, Surathkal.
7. Dr. M. Govinda Raj, Member Secretary
Registrar,
NITK, Surathkal

BUILDING AND WORKS COMMITTEE

1. Dr. Sandeep Sancheti Chairman
Director,
N.I.T.K., Surathkal,
Post Srinivasnagar-575 025.
2. Sri K Uday, Member
Principal Chief Architect,
PW, P and IWT, State PWD
K R Circle, Bangalore – 560 001
3. Prof. Lakshman Nandagiri , Member
Dean (P&D),
NITK, Surathkal, Mangalore – 575 025,
4. Sri.K N Chandra Prasad Member
Executive Engineer,
Central PWD, Mysore Central Division,
T.Narasipura Road, Siddarthnagar,
Mysore- 570 011.
5. Sri.V K Khetan, Member
Executive Engineer (Ele),
CPWD, BCED – II, Kendriya Sadana
Koramgala, Bangalore – 560 054

National Institute of Technology Karnataka, Surathkal

6. Prof.M. Govinda Raj
Registrar,
NITK, Surathkal,
Post Srinivasnagar,
Mangalore-575 025

Member Secretary

OTHER COMMITTEES

SENATE

| | | |
|----------------------|-----|-----------|
| Dr. Sandeep Sancheti | ... | Chairman |
| Dr. M.Govinda Raj | ... | Secretary |

External Members

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

Internal Members

1. Dr. Sandeep Sancheti
2. Dr. G.K. Shivakumar
3. Dr. N. Lakshman
4. Dr. Gopal Mugeraya
5. Dr. K.N. Lokesh
6. Dr. G. Umesh
7. Dr. M.K. Nagaraj
8. Dr. Subba Rao
9. Dr. A. Vittal Hegde
10. Dr. S. G. Mayya
11. Dr. A.U. Ravi Shankar
12. Dr. M.C. Narasimhan
13. Dr. D. Venkat Reddy
14. Dr.K.Swaminathan
15. Dr. R. Shivashankar
16. Dr. Jagannath Nayak
17. Dr. Varghese George
18. Dr. M.B. Saidutta
19. Dr. D.V.R. Murthy
20. Dr. G. Srinikethan
35. Dr. Keshava Prasad Halemane
36. Dr. Robert John D'Souza
37. Dr. G.C. Mohan Kumar
38. Dr. P. Mohanan
39. Dr. T.P. Ashok Babu
40. Dr. H. Suresh Hebbar
41. Dr. K. N. Prabhu
42. Dr. Prasad Krishna
43. Dr. K. Rajendra Udupa
44. Dr. A.O. Surendranathan
45. Dr. Harsha Vardhan
46. Dr. V. Rama Sastry
47. Dr. Ch.S.N. Murthy
48. Dr. Subhas C Yaragal
49. Dr. Kasturi V. Bangera
50. Sri P.G. Mohanan
51. Dr. A Mahesha
52. Dr. Dwarakish G S
53. Dr. S Shrihari
54. Dr. Sitaram Nayak

National Institute of Technology Karnataka, Surathkal

- | | |
|--------------------------------|-----------------------------|
| 21. Dr. A. Nityananda Shetty | 55. Dr. Katta Venkataramana |
| 22. Dr. K. Panduranga Vittal | 56. Dr. Chitharanjan Hegde |
| 23. Dr. Udayakumar R.Y. | 57. Dr. Shashikantha K |
| 24. Dr. A.V. Adhikari | 58. Dr. Ravikiran Kadoli |
| 25. Dr. Santhi Tilagam | 59. Dr. Gangadharan K V |
| 26. Dr. K. Chandrashekhar Shet | 60. Dr. Vijay Desai |
| 27. Dr. K. Chandrasekaran | 61. Dr. S M Kulkarni |
| 28. Dr. S. Sumam David | 62. Dr. Y V Rao |
| 29. Dr. M.S. Bhat | 63. Dr. N K Udayashankar |
| 30. Dr. A.H. Sequeira | 64. Dr. H D Shashikala |
| 31. Dr. G. Ram Mohana Reddy | 65. Smt. Anusuya Chakari |
| 32. Dr. Ananthanarayana V.S. | 66. Dr. Krishna Kant Prasad |
| 33. Dr. S.M. Hegde | 67. Dr. M. Govinda Raj |
| 34. Dr. A. Kandaswamy | 68. Dr. Muralidhar Kulkarni |

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

Constitution:

| | |
|--|-----------|
| 1. Dean (AA) | Chairman |
| 2. Dean (Administration) | Member |
| 3. Dean (Planning & Development) | Member |
| 4. Dean (Students' Welfare) | Member |
| 5. Dean (R&C) | Member |
| 5. H.O.D. of DUGC/DPGC/DRPC Chairpersons | Members |
| 6. BOG member representing the faculty | Member |
| 7. Dr. V Ramachandra | Member |
| 8. Prof. N B Ballal | Member |
| 9. Dr. Lillykutty Jacob | Member |
| 10. Prof. K B R Varma | Member |
| 11. Registrar | Member |
| 12. Associate Deans | Members |
| 13. Dy. Registrar (Academic) | Secretary |

QUARTERS ALLOTMENT COMMITTEE

| | |
|---|------------------|
| 1. Dr. Sandeep Sancheti, Director | President |
| 2. Dr.G.K. Shivakumar till 30.9.2011 | Chairman |
| 3. Dr. K. C. Shet, from 1.10.2011 | Member |
| 4. Sri.Suresh Kumar Y BOG Member | Member |
| 5. Sri Laxmisha Yadiyal, Resident Engineer till 29.8.2011 | Member |
| 6. Sri. Shashidhar Shetty, RE from 30.8.2011 | Member |
| 7. Dr.M.Govinda Raj, Registrar | Member |
| 8. Sri N. S. V. Shet, Lecturer | Member |
| 9. Sri K.Ravindranath, Dy. Registrar (Academic) | Member |
| 10. Sri C.Vairavanathan, Programmer | Member |
| 11. Dr. H.D. Shashikala | Member |
| 12. Dr.A.U.Ravishankar, Faculty Incharge (Est. & W) till 3.5.2011 | Member |
| 13. Dr. Sunil B M, from 4.5.2011 | Member/Secretary |
| | Member |

INSTITUTE GRIEVANCE COMMITTEE

| | |
|--|----------|
| 1. Dr. K P Halemane, Prof. Dept of MACS, 1.8.2011 | Chairman |
| 2. Dr. K.R. Udupa, Professor, Dept. of Met. & Mat. Engg. | Member |

National Institute of Technology Karnataka, Surathkal

| | |
|--|-----------------|
| 3. Dr. A.C. Hegde, Asst. Professor, Dept. of Chemistry | Member |
| 4. Sri N.S.V. Shet, Lecturer, Dept. of E&C Engg. | Member |
| 5. Mrs. Pushpalatha, Foreman, Dept. of E&C Engg. | Member |
| 6. Mrs. Shashikala D.K., Supdt., Purchase Section | Member |
| 7. Dr. K. Varija, Asso. Professor, Applied Mechanics | Member |
| 8. Dr. M. Govinda Raj, Registrar | special Invitee |
| 9. Sri. Ram Mohan Y, Dy. Registrar (A/cs) | special Invitee |

SECURITY COMMITTEE

| | |
|--|-------------------|
| 1. Dr. K C Shet (Faculty Welfare) | Chairman |
| 2. Prof. Laxman Nandgiri, Dean (P&D) | Member |
| 3. Dr. M. Govinda Raj, Registrar | Member |
| 4. Dr. Sunil B M, Faculty in charge Estate & Works | Member |
| 5. Sri Shashidhar Shetty, Resident Engineer | Member |
| 6. Dr. A. Nithyananda Shetty | Member |
| 7. Dr. Udaykumar R. Yaragati | Member |
| 8. Dr. Jagannath Nayak | Member |
| 9. Dr. Shanthi Tilagam | Member |
| 10. Sri Y. Ram Mohan, Dy. Registrar (A/c's) | Member |
| 11. Mrs. Yashavanti, Dept. of E&C | Member |
| 12. Mr. Babu Shetty | Member |
| 13. President Students' Union | Member |
| 14. Girls' Representative | Member |
| 15. Watch & Ward Officer | Member/ Secretary |

LIBRARY ADVISORY COMMITTEE

| | |
|----------------------------|---------------------------------------|
| 1. Dr. D V R Murthy | : Chairman |
| 2. Mrs. Anasuya C Chakari | : Secretary |
| 3. Dr. B R Jayalakshmi | : Civil |
| 4. Dr. Amba Shetty | : Applied Mechanics and Hydraulics |
| 5. Dr. S M Kulkarni | : Mechanical |
| 6. Mr. K Manjunath Sharma | : Electrical And Electronics Engg. |
| 7. Mr Ramesh Kini | : Electronics And Communication Engg. |
| 8. Dr. Vidya Shetty | : Chemical Engg. |
| 9. Mr. Rijesh M | : Metallurgical And Materials Engg. |
| 10. Dr. K C Shet | : Computer Engg. |
| 11. Dr. Ch. S. N. Murthy | : Mining Engg. |
| 12. Dr. D Sukumar | : MACS Dept. |
| 13. Dr. N K Udayashankar | : Physics |
| 14. Dr. Chittaranjan Hegde | : Chemistry |
| 15. Dr. A H Sequeira | : Humanities |
| 16. Ms Sowmya Kamath | : Information Technology |

SPORTS ADVISORY COMMITTEE

| | |
|--------------------------|-------------|
| 1. Director | : President |
| 2. Dean Students Welfare | : Chairman |
| 3. Associate Dean (S.W.) | : Member |
| 4. Dy. Registrar (A/cs) | : Member |
| 5. Resident Engineer | : Member |
| 6. Dr. Subba Rao | : Member |
| 7. Dr. Udaykumar R Y | : Member |
| 8. Dr. M B Saidutta | : Member |

National Institute of Technology Karnataka, Surathkal

| | | | |
|-----|-------------------------------------|---|-----------------------------|
| 9. | Dr. Narendranath S | : | Member |
| 10. | Dr. A O Surendranathan | : | Member |
| 11. | Mrs. Rashmi Uchil | : | Member |
| 12. | Dr. Laxminidhi T | : | Member |
| 13. | Dr. Kiran K B | : | Member |
| 14. | Dr. Shashikanth | : | Member |
| 15. | Dr. B M Dodamani | : | Member |
| 16. | Dr. Aruna M | : | Member |
| 17. | Dr. Prakash S R | : | Member |
| 18. | Dr. Prasanna B D | : | Member |
| 19. | Dr. Murugan | : | Member |
| 20. | President Student Union | : | Member |
| 21. | Girls Representative | : | Member |
| 22. | R. C. Convenor | : | Member |
| 23. | All Institute Team Captains | : | Member |
| 24. | Physical Director/Asst Phy Director | : | Members Member Secretary |

NITK HEALTH CARE COMMITTEE

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

COMPLAINTS COMMITTEE

| | | |
|----|---|-------------|
| 1. | Dr. K Varija | Chairperson |
| 2. | Smt. Pushpalatha | Member |
| 3. | Smt. Shashikala D.K. | Member |
| 4. | Secretary/President, Ladies Club, NITK, Surathkal | Member |
| 5. | Dr. P Mohanan | Member |
| 6. | Dr. V.R. Sastry | Member |
| 7. | Mrs. Hilda Rayappan | Member |

3.0 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) |

4.0 ACADEMIC PROGRAMMES

4.1 PROGRAMMES OFFERED

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

1. CIVIL ENGINEERING
2. MECHANICAL ENGINEERING
3. ELECTRICAL AND ELECTRONICS ENGINEERING
4. ELECTRONICS & COMMUNICATION ENGINEERING
5. CHEMICAL ENGINEERING
6. METALLURGICAL & MATERIALS ENGINEERING
7. MINING ENGINEERING
8. COMPUTER ENGINEERING
9. INFORMATION TECHNOLOGY

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

1. STRUCTURAL ENGG.
2. GEOTECHNICAL ENGG.
3. ENVIRONMENTAL ENGG.
4. TRANSPORTATION SYSTEMS ENGG.
5. CONSTRUCTION TECHNOLOGY & MANAGEMENT
6. MARINE STRUCTURES
7. WATER RESOURCES ENGINEERING AND MANAGEMENT
8. REMOTE SENSING AND GEOGRAPHIC INFORMATION SYSTEMS
9. MANUFACTURING ENGINEERING
10. MECHATRONICS ENGINEERING
11. THERMAL ENGG.
12. POWER & ENERGY SYSTEMS
13. VLSI DESIGN
14. COMMUNICATIONS ENGINEERING.
15. CHEMICAL PLANT DESIGN
16. INDUSTRIAL POLLUTION CONTROL ENGG.
17. INDUSTRIAL BIOTECHNOLOGY
18. SYSTEMS ANALYSIS & COMPUTER APPLICATIONS
19. MATERIALS ENGG.
20. PROCESS METALLURGY
21. NANOTECHNOLOGY
22. COMPUTER SCIENCE & ENGG.
23. COMPUTER SCIENCE & ENGG. – INFORMATION SECURITY
24. 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)

VII. Ph. D. Programme: Ph.D. Programmes are offered in 14 Departments in various core and interdisciplinary specializations.

4.2 ACADEMIC CALENDAR

After summer vacation, the institute reopened for 2011-12 academic session on 25.07.2011. The undergraduate admissions commenced on 18.07.2011 and closed on 26.08.2011. For Post Graduate Programme - M.Tech/M.Tech (Research) admissions commenced on 18.07.2011 and closed on 23.08.2011. For M.C.A. the admissions commenced on 22.07.2011 and closed on 04.08.2011. For M.B.A., the admission commenced on 26.04.2011 and closed on 27.07.2011. Admissions to M.Sc. (Physics & Chemistry) commenced on 21.07.2011 and closed on 03.08.2011. For Ph.D. Programmes, admissions commenced on 13.07.2011 and closed on 01.08.2011. For January Session 2012 admissions commenced on 13.12.2011 & closed on 23.12.2011& for Ph.D. admission for M.Tech (Research) commenced on 13.12.2011 & closed on 29.12.2011.

5.0 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 AIEEE. On the basis of All India Rank secured in AIEEE conducted by CBSE New Delhi, seats will be allotted in the centralized on-line campus counseling. 50% of the seats are filled by the eligible candidates of Home State and rest 50% of the seats is filled on All India Merit Basis through AIEEE. Admissions will be strictly on the basis of merit. Seats are reserved for candidates belonging to Scheduled Caste, Scheduled Tribes, and Physically Handicapped & 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) are made in the centralized on-line common Admission process coordinated by NIT Trichy.

M.Tech. (Non Scholarship) seats:-

The vacant seats after the M.Tech. common Admission Process were allotted to GATE/Non-GATE/Non sponsored candidates during the spot admission held on 25.7.2011 on the basis of academic performance in qualifying examination/written aptitude test/interview etc. as decided by the DPGC of the concerned department offering the M.Tech. programme.

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

Selection of candidates for admission is 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.

MCA:

Selection of candidates for admissions is made on the basis of NIMCET. Admissions are made through a centralized counselling.

MBA:

Selection of candidates for admission is made on the basis of CAT score among the candidates applied, Group Discussion and interview.

M.Sc (Chemistry & Physics):

Selection of candidates is made 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 is 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.

6.0 ADMISSIONS FOR 2011-2012

6.1 The Number of candidates admitted are as follows:-

I. B.Tech.

| | |
|--|------------|
| 1. Admission through AIEEE Rank | 735 |
| 2. G.O.I. Nominee- through Ministry of External Affairs (Education & Welfare) | 09 |
| 3. DASA Scheme | 84 |
| 4. Admission of Meghalaya candidates (Supernumerary allotment) | 03 |
| Total | 831 |

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

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

| | |
|--|------------|
| 1. With GATE qualifications for scholarship seat s | 419 |
| 2. Non-GATE candidates and sponsored candidates | 87 |
| 3. Admissions of foreign nationals through ICCR sponsored candidates and DASA | 03 |
| 4. QIP candidates | 0 9 |
| Total | 518 |

M.Tech. (By Research)

| | |
|------------------------------------|-----------|
| 1. GATE qualified with Scholarship | 16 |
| 2. Non Scholarship | 12 |
| Total | 28 |

III. MCA:-

Selection of candidates for admission to MCA, are made on the basis of rank obtained in NIT MCA Common Entrance Test (NIMCET). Admission made through a Centralized counseling conducted by M.A.N.I.T. Bhopal. A total 90 candidates are admitted are as follows:-

| | |
|--------------|-------------|
| GN | 48 + 1 OPPH |
| OBC | 21 |
| SC | 13 |
| ST | 07 |
| Total | 90 |

IV. MBA:

Selection of candidates were made on the basis of CAT 2011 among candidates applied to NITK Surathkal, Group Discussion and Interview. A total number of 33 candidates were admitted as follows:-

| | |
|--------------|-----------|
| GN | 28 |
| OBC | 01 |
| SC | 04 |
| ST | -- |
| Total | 33 |

V. M.Sc (Chemistry & Physics):-

Admission to M.Sc (in Physics & Chemistry) 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)**

| | |
|-----|----|
| GN | 13 |
| OBC | 07 |
| SC | - |
| ST | -- |

Total 20

ii **M.Sc (Physics)**

| | |
|-----|----|
| GN | 12 |
| OBC | 06 |
| SC | 02 |
| ST | - |

Total 20

VI. Ph.D. Programme:

| | |
|----------------|----|
| GN | 48 |
| SC | 02 |
| ST | 01 |
| QIP | 07 |
| Sponsored | 02 |
| Ethiopian Govt | |
| Sponsored | 01 |

Total 61

Part Time

| | |
|----|----|
| OP | 19 |
| SC | 01 |
| ST | 03 |

Total 23

A total number of 831 candidates have been admitted to the First Year B.Tech. Programmes according to the guidelines, instructions issued by the MHRD.

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

6.2 B.Tech. Students Strength for the year 2011-12.

| Branch (I Year B.Tech.) | SC | | | ST | | | OBC | | | DASA | | | GOI | | | ICCR | | | GENERAL | | | TOTAL | | |
|---|-----------|-----------|------------|-----------|----------|-----------|------------|-----------|------------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|------------|-----------|------------|------------|------------|------------|
| | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To |
| Civil Engg. | 12 | 2 | 14 | 6 | 1 | 7 | 22 | 1 | 23 | 11 | 0 | 11 | 1 | 0 | 1 | 1 | 0 | 1 | 41 | 6 | 47 | 94 | 10 | 104 |
| Mechanical Engg. | 17 | 1 | 18 | 10 | 1 | 11 | 37 | 0 | 37 | 14 | 0 | 14 | 2 | 0 | 2 | 0 | 0 | 0 | 69 | 0 | 69 | 149 | 2 | 151 |
| Electrical & Electronics Engg. | 12 | 2 | 14 | 6 | 0 | 6 | 21 | 4 | 25 | 7 | 6 | 13 | 1 | 0 | 1 | 0 | 0 | 0 | 41 | 5 | 46 | 88 | 17 | 105 |
| Electronics & Communication Engg. | 12 | 3 | 15 | 6 | 1 | 7 | 20 | 4 | 24 | 14 | 0 | 14 | 0 | 2 | 2 | 0 | 0 | 0 | 44 | 3 | 47 | 96 | 13 | 109 |
| Chemical Engg. | 7 | 0 | 7 | 4 | 0 | 4 | 10 | 2 | 12 | 3 | 2 | 5 | 0 | 1 | 1 | 0 | 0 | 0 | 18 | 4 | 22 | 42 | 9 | 51 |
| Metallurgical & Materials Engg. | 5 | 2 | 7 | 3 | 1 | 4 | 10 | 2 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 1 | 22 | 39 | 6 | 45 |
| Mining Engg. | 7 | 0 | 7 | 6 | 1 | 7 | 9 | 1 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 2 | 22 | 42 | 4 | 46 |
| Computer Engg. | 12 | 2 | 14 | 7 | 0 | 7 | 19 | 5 | 24 | 12 | 2 | 14 | 1 | 0 | 1 | 0 | 0 | 0 | 41 | 5 | 46 | 92 | 14 | 106 |
| Information Technology | 13 | 1 | 14 | 4 | 2 | 6 | 19 | 8 | 27 | 9 | 3 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 11 | 45 | 79 | 25 | 104 |
| TOTAL | 97 | 13 | 110 | 52 | 7 | 59 | 167 | 27 | 194 | 70 | 13 | 83 | 5 | 3 | 8 | 1 | 0 | 1 | 329 | 37 | 366 | 721 | 100 | 821 |

| Branch (II Year B.Tech.) | SC | | | ST | | | OBC | | | DASA | | | GOI | | | ICCR | | | GENERAL | | | TOTAL | | |
|---|-----------|-----------|------------|-----------|-----------|-----------|------------|-----------|------------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|------------|-----------|------------|------------|------------|------------|
| | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To |
| Civil Engg. | 13 | 0 | 13 | 7 | 0 | 7 | 21 | 2 | 23 | 9 | 5 | 14 | 0 | 1 | 1 | 1 | 0 | 1 | 37 | 4 | 41 | 88 | 12 | 100 |
| Mechanical Engg. | 18 | 1 | 19 | 9 | 0 | 9 | 38 | 0 | 38 | 13 | 1 | 14 | 1 | 0 | 1 | 0 | 0 | 0 | 68 | 2 | 70 | 147 | 4 | 151 |
| Electrical & Electronics Engg. | 10 | 4 | 14 | 4 | 2 | 6 | 22 | 4 | 26 | 9 | 5 | 14 | 1 | 0 | 1 | 3 | 0 | 3 | 42 | 6 | 48 | 91 | 21 | 112 |
| Electronics & Communication Engg. | 13 | 0 | 13 | 7 | 0 | 7 | 21 | 4 | 25 | 8 | 6 | 14 | 0 | 1 | 1 | 0 | 0 | 0 | 39 | 8 | 47 | 88 | 19 | 107 |
| Chemical Engg. | 3 | 2 | 5 | 4 | 0 | 4 | 11 | 1 | 12 | 6 | 1 | 7 | 1 | 0 | 1 | 0 | 0 | 0 | 16 | 4 | 20 | 41 | 8 | 49 |
| Metallurgical & Materials Engg. | 4 | 3 | 7 | 3 | 0 | 3 | 11 | 0 | 11 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 3 | 20 | 37 | 6 | 43 |
| Mining Engg. | 6 | 0 | 6 | 5 | 1 | 6 | 8 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 2 | 14 | 31 | 3 | 34 |
| Computer Engg. | 10 | 4 | 14 | 2 | 5 | 7 | 22 | 1 | 23 | 8 | 6 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 43 | 5 | 48 | 85 | 21 | 106 |
| Information Technology | 10 | 4 | 14 | 4 | 2 | 6 | 23 | 4 | 27 | 4 | 8 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 37 | 6 | 43 | 78 | 24 | 102 |
| TOTAL | 87 | 18 | 105 | 45 | 10 | 55 | 177 | 16 | 193 | 59 | 32 | 91 | 3 | 2 | 5 | 4 | 0 | 4 | 311 | 40 | 351 | 686 | 118 | 804 |

| Branch (III Year B.Tech.) | SC | | | ST | | | OBC | | | DASA | | | GOI | | | ICCR | | | GENERAL | | | TOTAL | | |
|---|-----------|-----------|------------|-----------|----------|-----------|------------|-----------|------------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|------------|-----------|------------|------------|------------|------------|
| | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To |
| Civil Engg. | 15 | 0 | 15 | 6 | 0 | 6 | 23 | 1 | 24 | 3 | 5 | 8 | 0 | 0 | 0 | 1 | 1 | 2 | 43 | 4 | 47 | 91 | 11 | 102 |
| Mechanical Engg. | 18 | 0 | 18 | 11 | 0 | 11 | 35 | 4 | 39 | 13 | 1 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 66 | 4 | 70 | 143 | 9 | 152 |
| Electrical & Electronics Engg. | 10 | 4 | 14 | 5 | 1 | 6 | 23 | 2 | 25 | 8 | 1 | 9 | 1 | 1 | 2 | 0 | 0 | 0 | 34 | 13 | 47 | 81 | 22 | 103 |
| Electronics & Communication Engg. | 13 | 1 | 14 | 6 | 1 | 7 | 24 | 0 | 24 | 6 | 3 | 9 | 1 | 1 | 2 | 0 | 0 | 0 | 41 | 10 | 51 | 91 | 16 | 107 |
| Chemical Engg. | 7 | 1 | 8 | 3 | 2 | 5 | 11 | 1 | 12 | 4 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 4 | 21 | 42 | 9 | 51 |
| Metallurgical & Materials Engg. | 5 | 0 | 5 | 1 | 0 | 1 | 10 | 2 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 3 | 17 | 30 | 5 | 35 |
| Mining Engg. | 7 | 1 | 8 | 4 | 1 | 5 | 8 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 | 26 | 2 | 28 |
| Computer Engg. | 12 | 3 | 15 | 7 | 1 | 8 | 18 | 7 | 25 | 6 | 3 | 9 | 0 | 1 | 1 | 0 | 1 | 0 | 41 | 7 | 48 | 85 | 22 | 107 |
| Information Technology | 9 | 7 | 16 | 4 | 2 | 6 | 24 | 3 | 27 | 3 | 6 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 36 | 10 | 46 | 76 | 28 | 104 |
| TOTAL | 96 | 17 | 113 | 47 | 8 | 55 | 176 | 20 | 196 | 43 | 20 | 63 | 2 | 3 | 5 | 2 | 1 | 3 | 299 | 55 | 354 | 665 | 124 | 789 |

| Branch (IV Year B.Tech.) | SC | | | ST | | | OBC | | | DASA | | | GOI | | | ICCR | | | GENERAL | | | TOTAL | | |
|--------------------------------------|-----------|-----------|-----------|-----------|----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|------------|-----------|------------|------------|-----------|------------|
| | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To |
| Civil Engg. | 8 | 1 | 9 | 5 | 1 | 6 | 10 | 3 | 13 | 7 | 1 | 8 | 0 | 0 | 0 | 2 | 0 | 2 | 38 | 9 | 47 | 70 | 15 | 85 |
| Mechanical Engg. | 15 | 0 | 15 | 9 | 0 | 9 | 19 | 0 | 19 | 13 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 68 | 4 | 72 | 124 | 4 | 128 |
| Electrical & Electronics Engg. | 6 | 5 | 11 | 4 | 1 | 5 | 11 | 1 | 12 | 7 | 1 | 8 | 3 | 0 | 3 | 0 | 0 | 0 | 45 | 4 | 49 | 76 | 12 | 88 |
| Electronics & Communication Engg. | 9 | 1 | 10 | 5 | 1 | 6 | 13 | 0 | 13 | 5 | 3 | 8 | 2 | 1 | 3 | 0 | 0 | 0 | 40 | 7 | 47 | 74 | 13 | 87 |
| Chemical Engg. | 5 | 1 | 6 | 3 | 0 | 3 | 5 | 1 | 6 | 2 | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 4 | 23 | 34 | 9 | 43 |
| Metallurgical & Materials Engg. | 4 | 1 | 5 | 2 | 1 | 3 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 4 | 18 | 22 | 6 | 28 |
| Mining Engg. | 4 | 0 | 4 | 4 | 0 | 4 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 16 | 1 | 17 | 26 | 1 | 27 |
| Computer Engg. | 9 | 3 | 12 | 6 | 0 | 6 | 12 | 0 | 12 | 5 | 4 | 9 | 1 | 1 | 2 | 0 | 0 | 0 | 43 | 5 | 48 | 76 | 13 | 89 |
| Information Technology | 9 | 4 | 13 | 2 | 2 | 4 | 12 | 1 | 13 | 4 | 5 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 13 | 47 | 61 | 25 | 86 |
| TOTAL | 69 | 16 | 85 | 40 | 6 | 46 | 85 | 6 | 91 | 43 | 17 | 60 | 7 | 2 | 9 | 2 | 0 | 2 | 317 | 51 | 368 | 563 | 98 | 661 |

M.Tech. Students Strength for the year 2011-12

| Branch (II Year) | SC | | | | ST | | | | OBC | | | | ICCR | | | | QIP | | | | Sponsored | | | | GENERAL | | | | TOTAL | | | |
|---|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|------------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|------------|-----------|------------|------------|------------|------------|---------|---|----|----|-------|---|----|--|
| | M | F | To | M | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To | |
| Structural Engg. | 3 | 0 | 3 | 2 | 0 | 2 | 6 | 1 | 7 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 11 | 3 | 14 | 23 | 4 | 27 | | | | | | | |
| Geo-Technical Engg. | 1 | 0 | 1 | 0 | 0 | 0 | 2 | 1 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 8 | 6 | 7 | 13 | | | | | | | |
| Environmental Engg. | 1 | 2 | 3 | 1 | 0 | 1 | 4 | 2 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 4 | 9 | 13 | 10 | 14 | 24 | | | | | | | | |
| Transportation Systems Engg. | 4 | 0 | 4 | 0 | 0 | 0 | 3 | 4 | 7 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 4 | 13 | 17 | 8 | 25 | | | | | | | |
| Construction Technology & Mgt. | 2 | 1 | 3 | 1 | 0 | 1 | 3 | 4 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 3 | 13 | 16 | 8 | 24 | | | | | | | |
| Water Resources Engg. & Management | 1 | 0 | 1 | 0 | 0 | 0 | 2 | 2 | 4 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 7 | 8 | 6 | 14 | | | | | | | |
| Marine Structures | 1 | 0 | 1 | 0 | 0 | 0 | 4 | 2 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 5 | 11 | 11 | 7 | 18 | | | | | | | |
| Remote Sensing & GIS | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 6 | 9 | 6 | 7 | 13 | | | | | | | |
| Thermal Engg. | 1 | 1 | 2 | 1 | 0 | 1 | 3 | 0 | 3 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 1 | 0 | 1 | 6 | 0 | 6 | 14 | 1 | 15 | | | | | | | |
| Mechatronics Engg. | 3 | 1 | 4 | 1 | 0 | 1 | 5 | 1 | 6 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 8 | 2 | 10 | 18 | 5 | 23 | | | | | |
| Manufacturing Engg. | 2 | 0 | 2 | 1 | 0 | 1 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 7 | 0 | 7 | 15 | 0 | 15 | | | | | |
| Power & Energy Systems | 3 | 0 | 3 | 1 | 1 | 2 | 5 | 2 | 7 | 1 | 1 | 2 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 10 | 2 | 12 | 21 | 6 | 27 | | | | | | | |
| VLSI Design | 3 | 1 | 4 | 2 | 0 | 2 | 6 | 1 | 7 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 11 | 2 | 13 | 23 | 5 | 28 | | | | | | | |
| Communication Engg. | 1 | 1 | 2 | 1 | 0 | 1 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 6 | 1 | 7 | 11 | 3 | 14 | | | | | |
| Chemical Plant Design | 1 | 0 | 1 | 0 | 0 | 0 | 2 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 4 | 9 | 8 | 5 | 13 | | | | | | | |
| Industrial Pollution Control | 2 | 2 | 4 | 0 | 0 | 0 | 4 | 2 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 10 | 15 | 11 | 14 | 25 | | | | | | | |
| Industrial Biotechnology | 3 | 1 | 4 | 2 | 0 | 2 | 2 | 4 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 8 | 5 | 13 | 16 | 10 | 26 | | | | | | | |
| Process Metallurgy | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 | 9 | 0 | 9 | | | | | | | |
| Materials Engg. | 3 | 2 | 5 | 0 | 0 | 0 | 6 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 10 | 2 | 12 | 20 | 4 | 24 | | | | | | | |
| Computer Science & Engg. - Information Security | 2 | 1 | 3 | 2 | 0 | 2 | 7 | 1 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 2 | 13 | 22 | 4 | 26 | | | | | | | |
| Systems Analysis & Computer Applications | 1 | 1 | 2 | 0 | 0 | 0 | 3 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 10 | 3 | 13 | 14 | 7 | 21 | | | | | | | | |
| Information Technology | 3 | 1 | 4 | 0 | 0 | 0 | 5 | 2 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 9 | 3 | 12 | 18 | 6 | 24 | | | | | | | |
| TOTAL | 46 | 15 | 61 | 17 | 2 | 19 | 89 | 34 | 123 | 5 | 1 | 6 | 6 | 1 | 7 | 6 | 4 | 10 | 169 | 78 | 247 | 338 | 135 | 473 | | | | | | | | |

M.Tech. Students Strength for the year 2011-12

| Branch (I Year) | SC | | ST | | OBC | | ICCR | | QIP | | DASA | | Sponsored | | GENERAL | | TOTAL | | | | |
|--|-----------|----------|----------------|-----------|----------|----------------|------------|-----------|----------------|----------|----------|----------------|-----------|----------|----------------|-------------|-----------|----------------|------------|------------|------------|
| | M | F | T _o | M | F | T _o | M | F | T _o | M | F | T _o | M | F | T _o | M | F | T _o | | | |
| Structural Engg. | 4 | 0 | 4 | 2 | 0 | 2 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Geo-Technical Engg. | 1 | 1 | 2 | 1 | 0 | 1 | 2 | 3 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Environmental Engg. | 4 | 0 | 4 | 2 | 0 | 2 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 25 | | | |
| Transportation Systems Engg. | 3 | 1 | 4 | 2 | 0 | 2 | 4 | 3 | 7 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 4 | 15 | | | |
| Construction Technology & Mgt. | 2 | 2 | 4 | 1 | 1 | 2 | 6 | 1 | 7 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 16 | | | |
| Marine Structures | 3 | 0 | 3 | 1 | 0 | 1 | 5 | 2 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 9 | | | |
| Water Resources Engg. & Management | 1 | 1 | 2 | 0 | 0 | 0 | 2 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 | | | |
| Remote Sensing & GIS | 2 | 0 | 2 | 0 | 0 | 0 | 4 | 2 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | | | |
| Thermal Engg. | 1 | 0 | 1 | 1 | 0 | 1 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 27 | | | |
| Mechatronics Engg. | 3 | 0 | 3 | 1 | 0 | 1 | 6 | 0 | 6 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 13 | | | |
| Manufacturing Engg. | 2 | 0 | 2 | 1 | 0 | 1 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 24 | | | |
| Power & Energy Systems | 4 | 0 | 4 | 1 | 0 | 1 | 6 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 14 | | | |
| VLSI Design | 4 | 0 | 4 | 2 | 0 | 2 | 6 | 1 | 7 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 25 | | | |
| Communication Engg. | 4 | 0 | 4 | 2 | 0 | 2 | 5 | 1 | 6 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 28 | | | |
| Chemical Plant Design | 2 | 1 | 3 | 0 | 0 | 3 | 1 | 4 | 0 | 0 | 0 | 0 | 1 | 4 | 0 | 0 | 1 | 30 | | | |
| Industrial Pollution Control | 0 | 0 | 0 | 1 | 0 | 1 | 4 | 3 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 14 | | | |
| Industrial Biotechnology | 4 | 0 | 4 | 2 | 0 | 2 | 5 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 8 | 19 | | | |
| Process Metallurgy | 1 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 8 | 13 | | | |
| Materials Engg. | 2 | 0 | 2 | 0 | 0 | 0 | 3 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 10 | | | |
| Nanoscience & Nanotechnology | 2 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 3 | 18 | | | |
| Computer Science & Engg | 3 | 1 | 4 | 2 | 0 | 2 | 6 | 0 | 6 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 2 | 8 | | | |
| Computer Science & Engg. - IS | 4 | 0 | 4 | 1 | 1 | 2 | 6 | 1 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 27 | | | |
| Systems Analysis & Computer Applications | 3 | 0 | 3 | 0 | 0 | 0 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 24 | | | |
| Information Technology | 4 | 0 | 4 | 2 | 0 | 2 | 5 | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 23 | | | |
| TOTAL | 63 | 7 | 70 | 25 | 2 | 27 | 101 | 27 | 128 | 2 | 7 | 2 | 9 | 1 | 0 | 1188 | 69 | 257 | 396 | 109 | 505 |

M.Tech by Research 2011-12

| Branch (I Year) | SC | | | OBC | | | GENERAL | | | TOTAL | | |
|--|----------|----------|----------|----------|----------|----------|-----------|----------|-----------|-----------|----------|-----------|
| | M | F | To | M | F | To | M | F | To | M | F | To |
| APPLIED MECHANICS & HYDRAULICS:- | | | | | | | | | | | | |
| Remote Sensing & Geographic Information System | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 |
| Water Resources Engg. & Mgt. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 2 | 2 |
| CHEMICAL ENGG:- | | | | | | | | | | | | |
| Industrial Biotechnology | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 3 | 3 |
| Chemical Plant Design | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 3 | 0 | 3 |
| MECHANICAL ENGG :- | | | | | | | | | | | | |
| Mechatronics Engg. | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 2 | 0 | 2 |
| Manufacturing Engg | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 |
| Thermal Engg. | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 |
| ELECTRICAL & ELECTRONICS ENGG:- | | | | | | | | | | | | |
| Power & Energy Systems | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 4 | 1 | 3 | 4 |
| ELECTRONICS & COMMUNICATION ENGG:- | | | | | | | | | | | | |
| VLSI Design | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 2 | 0 | 2 |
| Communication Engg. | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 2 | 0 | 2 |
| COMPUTER ENGG:- | | | | | | | | | | | | |
| Computer Science & Engg.-Information Security | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 |
| Computer Science & Engg | 0 | 1 | 1 | | | | 0 | | | 0 | 0 | 1 |
| MINING ENGG:- Rock Excavation Technology & Management | | | | | | | | | | | | |
| Process Metallurgy | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 2 | 0 | 2 |
| Nanotechnology | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |
| INFORMATION TECHNOLOGY | | | | | | | | | | | | |
| TOTAL | 0 | 1 | 1 | 1 | 0 | 1 | 18 | 8 | 26 | 19 | 9 | 28 |

| Branch (II Year) | OBC | | | GENERAL | | | TOTAL | | |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | M | F | To | M | F | To | M | F | To |
| CHEMICAL ENGG:-Industrial Biotechnology | | | | | | | | | |
| Industrial Biotechnology | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 2 | 2 |
| INFORMATION TECHNOLOGY:- Information Technology | | | | | | | | | |
| Information Technology | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 |
| MECHANICAL ENGG :-Mechatronics Engg. | | | | | | | | | |
| Mechatronics Engg. | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 2 | 2 |
| MECHANICAL ENGG :Thermal Engg. | | | | | | | | | |
| Thermal Engg. | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 |
| CIVIL ENGG :- Structural Engg. | | | | | | | | | |
| Structural Engg. | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| ELECTRONICS & COMMUNICATION ENGG:- | | | | | | | | | |
| VLSI Design | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 |
| TOTAL | 0 | 2 | 2 | 3 | 3 | 6 | 3 | 5 | 8 |

MCA

| Branch | SC | | | ST | | | OBC | | | GN | | | Total | | |
|--------------|-----------|----------|-----------|-----------|----------|-----------|-----------|----------|-----------|-----------|-----------|------------|------------|-----------|------------|
| | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To |
| I YEAR | 9 | 4 | 13 | 4 | 3 | 7 | 19 | 2 | 21 | 35 | 14 | 49 | 67 | 23 | 90 |
| II YEAR | 10 | 3 | 13 | 4 | 2 | 6 | 19 | 5 | 24 | 35 | 10 | 45 | 68 | 20 | 88 |
| III YEAR | 10 | 1 | 11 | 5 | 0 | 5 | 23 | 0 | 23 | 26 | 12 | 38 | 64 | 13 | 77 |
| TOTAL | 29 | 8 | 37 | 13 | 5 | 18 | 61 | 7 | 68 | 96 | 36 | 132 | 199 | 56 | 255 |

MBA

| Branch | SC | | | ST | | | OBC | | | GN | | | Total | | |
|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To |
| I YEAR | 2 | 1 | 3 | 0 | 0 | 0 | 1 | 0 | 1 | 22 | 5 | 27 | 25 | 6 | 31 |
| II YEAR | 2 | 0 | 2 | 0 | 0 | 0 | 6 | 1 | 7 | 20 | 7 | 27 | 28 | 8 | 36 |
| Total | 4 | 1 | 5 | 0 | 0 | 0 | 7 | 1 | 8 | 42 | 12 | 54 | 53 | 14 | 67 |

M.Sc. (Chemistry)

| Branch | SC | | | ST | | | OBC | | | GN | | | Total | | |
|--------------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|
| | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To |
| I YEAR | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 6 | 9 | 2 | 9 | 11 | 5 | 15 | 20 |
| II YEAR | 1 | 1 | 2 | 0 | 1 | 1 | 2 | 4 | 6 | 3 | 11 | 14 | 6 | 17 | 23 |
| Total | 1 | 1 | 2 | 0 | 1 | 1 | 5 | 10 | 15 | 5 | 20 | 25 | 11 | 32 | 43 |

M.Sc. (Physics)

| Branch | SC | | | ST | | | OBC | | | GN | | | Total | | |
|--------------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To |
| I YEAR | 1 | 1 | 2 | 0 | 0 | 0 | 3 | 3 | 6 | 6 | 6 | 12 | 10 | 10 | 20 |
| II YEAR | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 6 | 7 | 4 | 10 | 14 | 7 | 16 | 23 |
| Total | 2 | 1 | 3 | 1 | 0 | 1 | 4 | 9 | 13 | 10 | 16 | 26 | 17 | 26 | 43 |

Ph.D. Students Strength for the year 2011-12

| Branch | SC | | | ST | | | QIP | | | ICCR | | | GENERAL | | | TOTAL | | |
|------------------------|-----------|----------|-----------|----------|----------|----------|-----------|----------|-----------|----------|----------|----------|------------|-----------|------------|------------|-----------|------------|
| | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To | M | F | To |
| Civil | 1 | 0 | 1 | 1 | 0 | 1 | 5 | 0 | 5 | 0 | 0 | 0 | 23 | 11 | 34 | 30 | 11 | 41 |
| App. Mechanics | 2 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 23 | 9 | 32 | 26 | 9 | 35 |
| Mechanical | 4 | 0 | 4 | 1 | 0 | 1 | 2 | 0 | 2 | 0 | 0 | 0 | 52 | 1 | 53 | 59 | 1 | 60 |
| E&E | 2 | 0 | 2 | 1 | 0 | 1 | 2 | 0 | 2 | 0 | 0 | 0 | 19 | 4 | 23 | 24 | 4 | 28 |
| E&C | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 2 | 1 | 0 | 1 | 9 | 5 | 14 | 12 | 6 | 18 |
| Chemical | 1 | 1 | 2 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 5 | 16 | 21 | 7 | 18 | 25 |
| Metallurgy | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 4 | 21 | 19 | 4 | 23 |
| Mining | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 16 | 16 | 0 | 16 |
| Computer | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 2 | 9 | 7 | 4 | 11 |
| Information Technology | 2 | 0 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 7 | 10 | 6 | 7 | 13 |
| Physics | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 4 | 23 | 19 | 4 | 23 |
| Chemistry | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 12 | 39 | 29 | 12 | 41 |
| Maths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 7 | 20 | 13 | 7 | 20 |
| Humanities | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 6 | 6 | 12 | 8 | 6 | 14 |
| Total | 15 | 2 | 17 | 7 | 1 | 8 | 13 | 2 | 15 | 1 | 0 | 1 | 239 | 88 | 327 | 275 | 93 | 368 |

6.3 ADMISSION STATISTICS

6.3(a) Undergraduate Programmes – B.Tech.

Particulars of sanctioned intake and admissions made during 2011-12

| Sl. No. | Courses offered | Sanctioned intake | | | | Admissions made to Undergraduate Programmes | | | | | | Total Adminis- tion | |
|---------|-----------------------------------|-------------------|---------------------|---------------|------------|---|--------------------|--|---------------------|------------|----------|------------------------|----------------|
| | | D.A.S.A. | | Normal Intake | | | | D.A.S.A. (Direct Admission of Students Abroad) | | | | | |
| | | Total | G.O.I. Nominees* | SC | ST | OBC | PH | OP | G.O.I. Nominees* | | | | |
| 1 | Civil Engineering | 92 | 3 | 14 | 109 | 14 | 7 | 23 | 3OP | 44 | 2 | 11 | 104 |
| 2 | Mechanical Engineering | 139 | 3 | 14 | 156 | 18 | 9 | 38 | 2OP 1SC 2ST | 68 | 2 | 14 | 154 |
| 3 | Electrical & Electronics Engg. | 93 | 4 | 14 | 111 | 14 | 6 | 26 | 2OP | 45 | 1 | 13 | 107 |
| 4 | Electronics & Communication Engg. | 93 | 3 | 14 | 110 | 14 | 7 | 24 | - | 47 | 2 | 14 | 108 |
| 5 | Chemical Engg. | 46 | 2 | 7 | 55 | 7 | 4 | 11 | 1OBC | 23 | 1 | 6 | 53 |
| 6 | Metallurgical & Materials Engg | 46 | - | 7 | 53 | 7 | 4 | 12 | - | 23 | - | - | 46 |
| 7 | Mining Engg. | 46+3** | - | 7 | 53+ | 7 | 4+ | 12 | - | 22 | - | - | 45+ 3** |
| 8 | Computer Engg. | 92 | 2 | 14 | 108 | 14 | 7 | 23 | 2OP 1OBC | 44 | 1 | 14 | 106 |
| 9 | Information Technology | 93 | - | 14 | 107 | 13 | 6 | 26 | 2OP 1OBC 1SC | 44 | - | 12 | 105 |
| | TOTAL | 740+ 3** | 17 | 105 | 865 | 108 | 54+ 3** | 195 | 18 | 360 | 9 | 84 | 828 +3* |

* 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.

** Additional allocation of seats in Mining Engg. for Meghalaya candidates and admitted.

6.3(b) ADMISSION STATISTICS – B.TECH. 2011-12

Details of Male & Female admissions – coursewise and categorywise

| Sl. No. | Programme | OP | | OBC | | SC | | ST | | GOI Nominee | | DASA (Direct Admission of Students Abroad) | | Total | | |
|------------|-----------------------------------|----------------|---------------|----------------|---------------|------------|-----------|---------------|----------|----------------|----------|--|-----------|--------------|------------|------------|
| | | M | F | M | F | M | F | M | F | M | F | M | F | | | |
| 1 | Civil Engg | 39+2PH | 5+1PH | 22 | 1 | 12 | 2 | 6 | 1 | 2 | - | 11 | - | 94 | 10 | 104 |
| 2 | Mechanical Engg | 68+2PH | - | 38 | - | 17+ | 1 | 8+2PH | 1 | 2 | - | 14 | - | 152 | 2 | 154 |
| 3 | Electrical & Electronics Engg | 40+2PH | 5 | 22 | 4 | 12 | 2 | 6 | - | 1 | - | 7 | 6 | 90 | 17 | 107 |
| 4 | Electronics & Communications | 44 | 3 | 20 | 4 | 11 | 3 | 6 | 1 | - | 2 | 14 | - | 95 | 13 | 108 |
| 5 | Chemical Engg | 19 | 4 | 9+1PH | 2 | 7 | - | 4 | - | - | 1 | 4 | 2 | 44 | 9 | 53 |
| 6 | Metallurgical & Materials Engg | 22 | 1 | 10 | 2 | 5 | 2 | 3 | 1 | - | - | - | - | 40 | 6 | 46 |
| 7 | Mining Engg | 20 | 2 | 11 | 1 | 7 | - | 4+2* | 1* | - | - | - | - | 44 | 4 | 48 |
| 8 | Computer Engg | 40+1PH | 4+1PH | 19 | 4+1PH | 12 | 2 | 7 | - | 1 | - | 12 | 2 | 92 | 14 | 106 |
| 9 | Information Technology | 33+2PH | 11 | 18+1PH | 8 | 12+ | 1 | 4 | 2 | - | - | 9 | 3 | 80 | 25 | 105 |
| | Total | 325+9PH | 35+2PH | 169+2PH | 26+1PH | 95+ | 13 | 50+2PH | 7 | 6 | 3 | 71 | 13 | 731 | 100 | 831 |

* Admission made as per additional allocation of seats for Meghalaya candidates.

6.3 (c) ADMISSION STATISTICS – POST GRADUATE PROGRAMMES

(a) M.Tech. Programme – Particulars of Intake and Admissions during 2011-12

| Sl. No. | Name of the Programme | Intake | Gate (scholarshi p seats) | Non-Gate & Sponsored + QIP seats +Foreign Nationals+ DASA | Admitted | | | Out of the total admissions – candidates belonging to | | | | | | | | | |
|------------|---|--------|---------------------------------|--|----------|----|-------|---|---|------------|----|---|-------|--------|--------|---|---|
| | | | | | Total | | | SC | | | ST | | | OBC | | | |
| | | | | | M | F | Total | M | F | Total | M | F | Total | M | F | M | F |
| 1. | Structural Engg. | 27 | 26 | 22 | 4 | 26 | 4 | 2 | - | 7 | - | - | - | - | - | - | - |
| 2. | Geotechnical Engg. | 15+1* | 12 | 2+1 Sponsored + QIP (Poly) | 10 | 6 | 16 | 1 | 1 | 2 | 1 | - | 2 | 1 (OP) | - | - | - |
| 3. | Environmental Engg. | 27 | 20 | 4+1 QIP (Poly) | 16 | 9 | 25 | 4 | - | 2 | - | 5 | - | - | - | - | - |
| 4. | Transportation Engg. | 27 | 23 | 3+1 (Foreign National – ICCR) + 1 Sponsored | 21 | 7 | 28 | 3 | 1 | 2 | - | 4 | 3 | - | - | - | - |
| 5. | Construction Technology & Management | 27 | 22 | 4+1 (Sponsored) | 21 | 6 | 27 | 2 | 2 | 1 | 1 | 6 | 1 | - | - | - | - |
| 6. | Marine Structures | 27+1* | 18 | 7 | 20 | 5 | 25 | 3 | 1 | 1 | - | 5 | 2 | - | - | - | - |
| 7. | Water Resources Engineering & Management | 15 | 3 | 10 | 7 | 6 | 13 | 1 | 1 | - | - | 2 | 2 | - | - | - | - |
| 8. | Remote Sensing & Graphic Information Systems | 27+1* | 2 | 17+1 Sponsored | 11 | 9 | 20 | 2 | - | - | - | 4 | 2 | - | - | - | - |
| 9. | Manufacturing Engg. | 15 | 13 | 1 (Sponsored) | 14 | - | 14 | 2 | - | 1 | - | 4 | - | - | - | - | - |
| 10. | Mechatronics Engg. | 27 | 22 | 1+1 Sponsored | 22 | 2 | 24 | 3 | - | 1 | - | 6 | - | - | - | - | - |
| 11. | Thermal Engineering | 15+1* | 11 | 1+1 (Sponsored)+ 1 QIP (Poly) | 14 | - | 14 | 2 | - | 1 | - | 2 | - | - | - | - | - |
| 12. | Power & Energy Systems | 27 | 26 | 1 Sponsored | 24 | 3 | 27 | 4 | - | 2 | - | 6 | - | - | - | - | - |
| 13. | VLSI Design | 27+1* | 25 | 1 Sponsored + 1 QIP (Regular)+1 DASA | 27 | 1 | 28 | 4 | - | 2 | - | 6 | 1 | - | - | - | - |
| 14. | Communication Engg. | 27+1* | 26 | 1 Sponsored + 4 QIP (3 Regular+1 Poly)+1 Foreign National (ICCR) | 27 | 5 | 32 | 4 | - | 2+1 QIP | - | 6 | 1 | - | 1 (OP) | - | - |
| 15. | Chemical Plant Design | 15 | 13 | 1 | 9 | 5 | 14 | 2 | 1 | - | - | 3 | 1 | - | - | - | - |
| 16. | Industrial Pollution Control Engg. | 27 | 14 | 6 | 9 | 11 | 20 | - | - | 1 | - | 4 | 3 | - | - | - | - |
| 17. | Industrial Biotechnology | 27 | 26 | - | 13 | 13 | 26 | 4 | - | 2 | - | 2 | 5 | - | - | - | - |
| 18. | Systems Analysis & Computer Applications | 27 | 21 | 2+1 Sponsored | 21 | 3 | 24 | 4 | - | - | - | 5 | - | - | - | - | - |

| Sl. No. | Name of the Programme | Intake | Gate (scholarshi p seats) | Non-Gate & Sponsored + QIP seats +Foreign Nationals+ DASA | Admitted | | | | Out of the total admissions – candidates belonging to | | | |
|------------|--|----------------|---------------------------------|--|------------|------------|------------|-----------|---|-----------|----------|------------|
| | | | | | Total | SC | ST | OBC | PC | PC | PC | PC |
| 19. | Materials Engg. | 27 | 11 | 7 | 14 | 4 | 18 | 2 | - | - | 3 | 1 |
| 20. | Process Metallurgy | 15+1* | 4 | 6+1 Sponsored | 11 | - | 11 | 1 | - | - | 2 | - |
| 21. | Nanotechnology | 15 | 6 | 2 | 6 | 2 | 8 | 2 | - | - | 1 | - |
| 22. | Computer Science & Engg. | 27+1* | 25 | 1 QIP (Regular) + Sponsored | 24 | 3 | 27 | 3 | 1 | 2 | - | - |
| 23. | Computer Science & Engg. – Information Security | 27 | 24 | - | 21 | 3 | 24 | 4 | -- | 1 | 1 | 6 |
| 24. | Information Technology | 27 | 26 | 1 Sponsored | 25 | 2 | 27 | 4 | - | 2 | - | 6 |
| | TOTAL | 564+8 * | 419 | 73+9 QIP + 14 Sponsored + 3 Foreign Nationals/ DASA | 409 | 109 | 518 | 65 | 8 | 27 | 2 | 103 |
| | | | | | | | | | | | | 26 |
| | | | | | | | | | | | | 2 |
| | | | | | | | | | | | | 1 |

* Seats sanctioned for DASA Candidates

The above intake of M.Tech. excluding the intake of QIP allotted by AICTE and 15% over and above the sanctioned intake for NRI, foreign nationals, etc.

PC: Physically Challenged

6.3 (d) M.TECH. PROGRAMME (BY RESEARCH) 2011-12

| Sl. No. | Name of the Programme | No. of candidates admitted | | Total admitted | | |
|------------|---|-----------------------------|----------------------------|----------------|-------------|--------------|
| | | Gate Scholarship Seat | Non-Scholarship Seat | Male | Female | Total |
| 1 | Water Resources Engg. & Management | - | 2 | - | 2 | 2 |
| 2 | Remote Sensing & Geographic Information Systems | - | 1 | 1 | - | 1 |
| 3 | Thermal Engg. | - | 1 | 1 | - | 1 |
| 4 | Manufacturing Engg. | - | 1* (External Registrant) | 1* | - | 1* |
| 5 | Mechatronics Engg. | 1+1* | - | 1+1* | - | 1+1* |
| 6 | VLSI Design | 2 | - | 2 | - | 2 |
| 7 | Communication Engg. | 2 | - | 2 | - | 2 |
| 8 | Chemical Plant Design | - | 2+1* (External Registrant) | 2+1* | - | 2+1* |
| 9 | Industrial Biotechnology | 2+1* | - | - | 2+1* | 2+1* |
| 10 | Process Metallurgy | - | 1 | 1 | - | 1 |
| 11 | Nanotechnology | 1* | - | 1* | - | 1* |
| 12 | Power & Energy Systems | 3 | 1 | 1 | 3 | 4 |
| 13 | Computer Science & Engg. | 1* (SC) | - | - | 1* | 1* |
| 14 | Computer Science & Engg. – Information Security | 1 | - | 1 | - | 1 |
| 15 | Information Technology | 1* | - | 1* | - | 1* |
| 16 | Rock Excavation Technology & Mgmt. | | 2 | 2 | - | 2 |
| | Total | 11+5* | 10+2* | 14+5* | 7+2* | 21+7* |

* Admitted in January 2012 session.

6.3(e) M.C.A., M.B.A. AND M.Sc. PROGRAMMES

Particulars of Admissions during 2011-12

| Sl. No. | Programme | Intake | Total admitted | | | Out of the total candidates - candidates belonging to | | | | | | | |
|------------|---|---------------|----------------|-----------|------------|--|----------|----------|----------|-----------|-----------|----------|----------|
| | | | Boys | Girls | Total | SC | | ST | | OBC | | PC | |
| | | | | | | M | F | M | F | M | F | M | F |
| 1 | Master of Computer Applications (MCA) | 92 | 67 | 23 | 90 | 9 | 4 | 4 | 3 | 19 | 2 | 1OP | - |
| 2 | Master of Business Administration (MBA) | 64+5* | 27 | 6 | 33 | 3 | 1 | - | - | 1 | - | - | - |
| 3 | M.Sc. (Chemistry) | 27 | 5 | 15 | 20 | - | - | - | - | 2 | 5 | - | - |
| 4 | M.Sc. (Physics) | 27 | 10 | 10 | 20 | 1 | 1 | - | - | 3 | 3 | - | - |
| | Total | 210+5* | 109 | 54 | 163 | 13 | 6 | 4 | 3 | 25 | 10 | 1 | - |

* Seats reserved for DASA Candidates
 PC – Physically Challenged

6.3(f) Ph.D. PROGRAMME

Particulars of Admissions made during 2011-12

| Sl. No. | Name of the Department | Full Time | | Part time | | Total | | Out of the total - Number of candidates - Candidates belongs to | | | |
|------------|---|--|-------------------|--------------|-------------|--------------------------|-----------|---|----------|----------|----------|
| | | | | | | Full Time + Part Time | | SC | | ST | |
| | | M | F | M | F | M | F | M | F | M | F |
| 1 | Civil Engg. | 2+1(spon 1*) 4 QIP | 2* | 2+1* | - | 11 | 2 | 1 QIP 1(PT) | - | 1(PT) | - |
| 2 | Applied Mech. & Hydraulics | 4+1 QIP 2* | 1* | 3 | 1* | 10 | 2 | 1 QIP | - | - | - |
| 3 | Mechanical Engg. | 5+1(Fore ign National Sponsore d) 3* | - | 5+2* | - | 16 | - | - | - | 1 (PT) | - |
| 4 | Electrical & Electronics Engg. | 1+1 Sponsored | - | - | - | 2 | - | - | - | - | - |
| 5 | Electronics & Communication Engg. | 1 | 1QIP | - | - | 1 | 1 | - | - | - | - |
| 6 | Chemical Engg. | 1* | 2+1 QIP 1 * | - | - | 1 | 4 | 1* | 1 * | - | - |
| 7 | Metallurgical & Materials Engg. | 3 | 1 | 1* | - | 4 | 1 | - | - | - | - |
| 8 | Mining Engg. | - | - | 3 | - | 3 | - | - | - | - | - |
| 9 | Computer Science & Engg. | 1 | 1* | - | - | 1 | 1 | - | - | - | - |
| 10 | Information Technology | - | 1 | 1 | 1 | 2 | 1 | - | - | 1 (PT) | - |
| 11 | Physics | 5+4* | - | - | - | 9 | - | - | - | - | - |
| 12 | Chemistry | 2+1* | 2+1* | 1* | - | 4 | 3 | - | - | 1 | - |
| 13 | Mathematical & Computational Science | 1+1* | - | - | 1* | 2 | 1 | - | - | - | - |
| 14 | Humanities, Social Sciences & Management | 1 | - | 1 | - | 1 | 1 | - | - | - | - |
| | Total | 34+13* | 8+6* | 15+5* | 1+2* | 67 | 17 | 4 | 1 | 4 | - |

* admissions made during January session 2012.

PT = PART TIME

SP - Sponsored

6.4 STUDENT'S TOTAL STRENGTH

| <u>Programme</u> | <u>Strength</u> |
|--|-----------------|
| 1. Undergraduate | 3075 |
| 2. Post Graduate (Including MCA/M.Tech./M.Tech – by research MBA/M.Sc.) | 1422 |
| 3. Ph.D. Programme | 368 |
| | ----- |
| | 4865 |
| | ===== |

7.0 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.

8.0 EXAMINATION RESULTS FOR 2010-2011

EXAMINATION DETAILS

Under Graduate Courses

| Sl. No. | Branch | Total No. Appeared | No. of students passed in | | | | Percent- age of passes | No. of SC/ST candidates passed |
|------------|---|-----------------------|-------------------------------------|------------------------------------|------------------------------------|--------------------|------------------------------|---|
| | | | CGPA above 7 & below 10 | CGPA above 6 & below 7 | CGPA above 5 & below 6 | CGPA below 5 | | |
| 1. | Civil Engineering | 69+1* | 48 | 8 | 7 | 3 | 66 | 94.29 |
| 2. | Mechanical Engineering | 102+1* | 72 | 18 | 8+1* | 1 | 100 | 97.09 |
| 3. | Electrical And Electronics Engineering | 67 | 44 | 15 | 5 | 2 | 66 | 98.51 |
| 4. | Electronics And Communication Engineering | 68 | 38 | 19 | 5 | 3 | 65 | 95.59 |
| 5. | Chemical Engineering | 33 | 24 | 4 | 4 | 1 | 33 | 100.00 |
| 6. | Metallurgical And Materials Engineering | 26 | 13 | 8 | 4 | 1 | 26 | 100.00 |
| 7. | Mining Engineering | 22 | 17 | 3 | 2 | - | 22 | 100.00 |
| 8. | Computer Engineering | 69 | 47 | 12 | 4 | 3 | 66 | 95.65 |
| 9. | Information Technology | 66 | 53 | 8 | 4 | - | 65 | 98.48 |
| | | 523 | | | | | 509 | |

* Post Graduate Programme - Repeater Students

| Sl.No. | Branch | Total No. Appeared | No. of students passed | | | Total Pass | Percentage of passes | No. of SC/ST candidates passed |
|--------|--|-----------------------|---|------------------------------------|--|---------------|-------------------------|---|
| | | | in CGPA above 7 & below 10 | CGPA above 6 & below 7 | CGPA above 5.50 & below 6 | | | |
| 1. | Construction Management Technology | 28 | 26 | 2 | -- | 28 | 100.00 | 6 |
| 2. | Structural Engineering | 26 | 21 | 5 | -- | 26 | 100.00 | 5 |
| 3. | Geotechnical Engineering | 14 | 13 | 1 | -- | 14 | 100.00 | 2 |
| 4. | Environmental Engineering | 25 | 22 | 3 | -- | 25 | 100.00 | 2 |
| 5. | Transportation Systems Engineering | 22 | 22 | -- | -- | 22 | 100.00 | 2 |
| 6. | Marine Structures Remote Sensing & Geographic Information System | 19 | 13 | 5 | -- | 18 | 94.74 | 1 |
| 7. | Water Resources Engineering & Management | 17 | 16 | 1 | -- | 17 | 100.00 | |
| 8. | Manufacturing Engineering | 11 | 9 | 1 | -- | 10 | 90.91 | |
| 9. | Mechatronics Engineering | 17 | 17 | -- | -- | 17 | 100.00 | 3 |
| 10. | Thermal Engineering | 28 | 24 | 4 | -- | 28 | 100.00 | 6 |
| 11. | | 14 | 12 | 1 | -- | 13 | 92.86 | 2 |

National Institute of Technology Karnataka, Surathkal

| | | | | | | | | |
|-----|--|----|----|----|----|----|--------|----|
| 12. | Power & Energy Systems | 25 | 17 | 8 | -- | 25 | 100.00 | 5 |
| 13. | VLSI Design | 27 | 19 | 6 | 2 | 27 | 100.00 | 6 |
| 14. | Communication Engineering | 19 | 10 | 8 | 1 | 19 | 100.00 | 3 |
| 15. | Chemical Plant Design | 13 | 7 | 3 | 3 | 13 | 100.00 | 1 |
| 16. | Industrial Biotechnology | 24 | 17 | 4 | 2 | 23 | 95.83 | 3 |
| 17. | Industrial Pollution Control | 22 | 14 | 6 | 2 | 22 | 100.00 | 3 |
| 18. | Process Metallurgy | 10 | 9 | 1 | - | 10 | 100.00 | |
| 19. | Materials Engineering Systems Analysis & Computer Applications | 26 | 14 | 8 | 3 | 25 | 96.15 | 5 |
| 20. | Computer Science and Engineering | 20 | 18 | 2 | -- | 20 | 100.00 | 3 |
| 21. | Computer Science and Engineering - Information Security | 27 | 19 | 7 | 1 | 27 | 100.00 | 6 |
| 22. | Master of Computer Applications | 25 | 16 | 7 | 1 | 24 | 96.00 | 4 |
| 23. | Master of Business Administration | 72 | 56 | 14 | -- | 70 | 97.22 | 15 |
| 24. | Master of Science (Chemistry) | 41 | 32 | 8 | -- | 40 | 97.56 | 1 |
| 25. | Master of Science (Physics) | 22 | 20 | 2 | - | 22 | 100.00 | 2 |
| 26. | | 20 | 16 | 4 | -- | 20 | 100.00 | |

*- Part time Students

**Ranks secured by the UG students of the Institute in the
Examination held in April/May, 2011**

| Sl.No. | Name of the Branch | Name of the Rank Holder |
|--------|--------------------------------------|------------------------------|
| 1. | Civil Engineering | POOJA BHAT |
| 2. | Mechanical Engineering | MOHANA T RAJAN |
| 3. | Electrical & Electronics Engineering | KETAKI GOSWAMI AJAYRAMA K |
| 4. | Electronics & Communication Engg. | MITCHEL VALENTINA DSOUZA |
| 5. | Chemical Engg. | BHARAT BHUSHAN SAKLANI |
| 6. | Metallurgical Engg. | ROHIT SARKAR |
| 7. | Mining Engg. | RASHMI SHENOY ADYAR |
| 8. | Computer Engineering | ROSHNI CHADRASHEKHAR |
| 9. | Information Technology | SRIVATSA S BHAT |

**Ranks secured by the M.Tech. students of the Institute in the
Examination held in April-May, 2011**

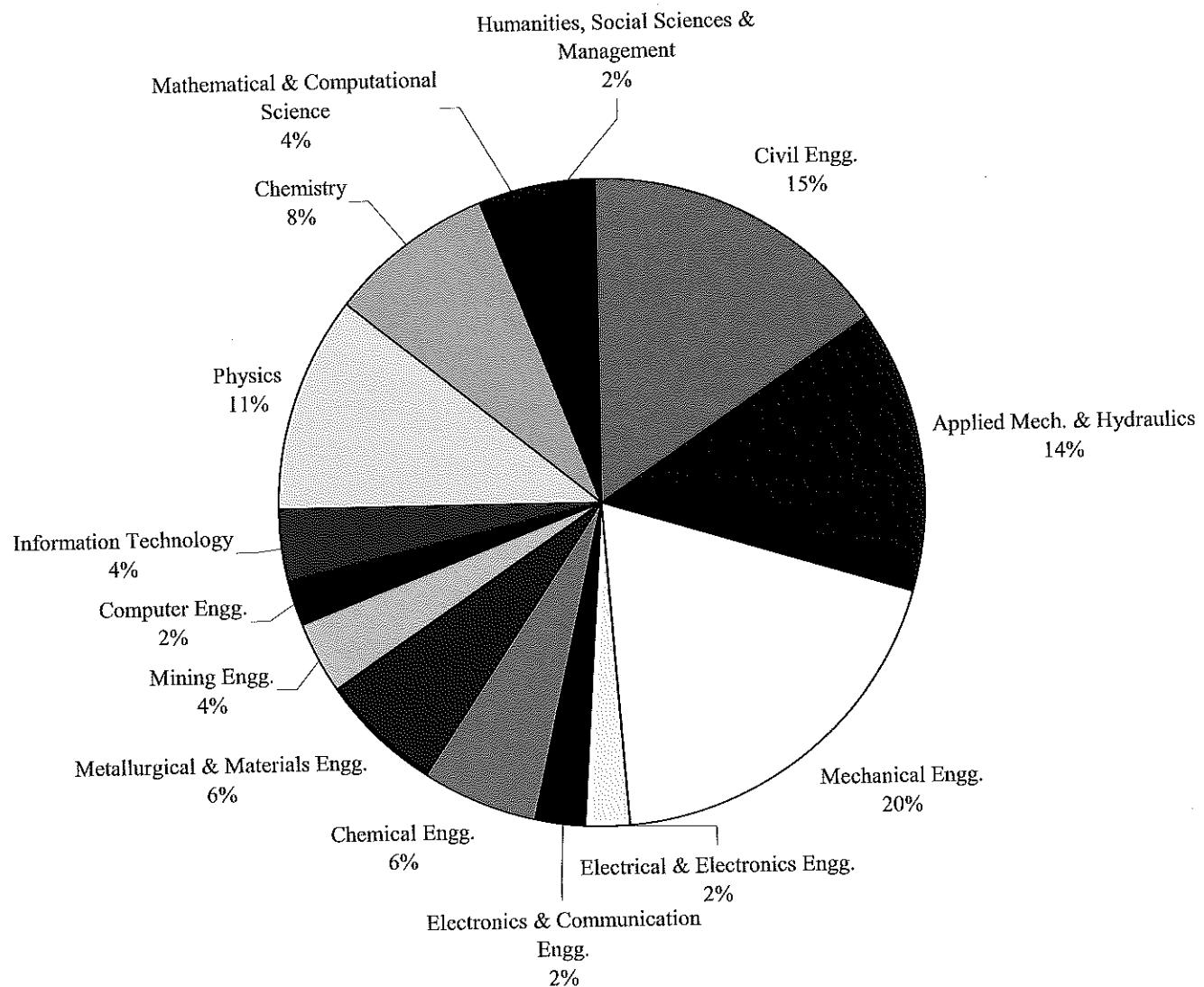
| Sl.No. | Name of the Branch | Name of the Rank Holder |
|--------|-------------------------------------|--------------------------|
| 1. | Structural Engineering | DEEJA A |
| 2. | Geo-Technical Engg. | RASHMA R S V |
| 3. | Environmental Engineering | ROHIT J |
| 4. | Transportation Systems Engineering. | M VISHNU VARDHANA |
| 5. | Construction Tech. and Management | SHILPA J |
| 6. | Marine Structures | AJEEESH NR |
| 7. | Water Resources Engg. & Management | NRUTHYA K |
| 8. | Remote Sensing and GIS | MADHURASHREE KANIVE S |
| 9. | Manufacturing Engineering | RAGHAVENDRA S GUDADAIGOL |
| 10. | Thermal Engineering | RAGHAVENDRA N CH |
| 11. | Mechatronics Engineering | RAJANI M DIXIT |

| | | |
|-----|---|------------------------|
| 12. | Power & Energy Systems | SURENDRA DANDA |
| 13. | VLSI Design | RADHIKA C |
| 14. | Communication Engineering | AVADHOOT KHANDEKAR |
| 15. | Chemical Plant Design | SHAMNAMOL G K |
| 16. | Industrial Pollution Control | BODDU SHIVA A KUMAR |
| 17. | Process Metallurgy | SHANTHARAMA |
| 18. | Materials Engineering | JITHIN JOSEPH |
| 19. | Systems Analysis & Computer Applications | SALUNKHE ANIKET ARUN |
| 20. | Computer Science & Engineering | PRASANNA KULKARNI |
| 21. | Industrial Bio Technology | MANSI PAHWA |
| 22. | Computer Science and Engg. – Information Security | SANDEEP NAIR NARAYANAN |

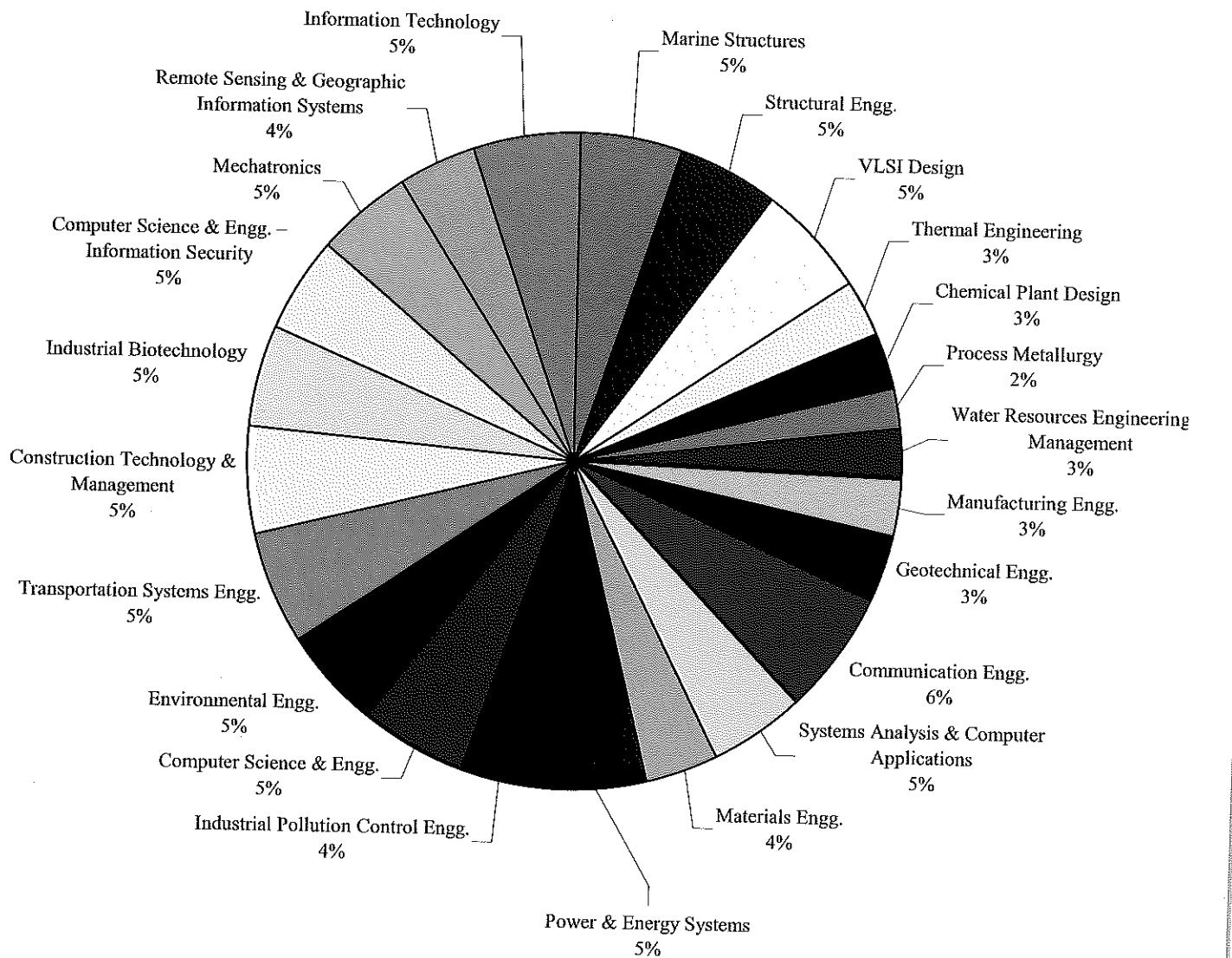
Ranks secured by the MCA/MBA/M.Sc.(Chemistry) students of the Institute in the Examination held in April/May, 2011

| Name of the Branch | Name of the Rank Holder |
|--------------------------------------|-------------------------|
| 1. Master of Computer Applications | BHANU CHOWDHARY |
| 2. Master of Business Administration | DEEPAK B |
| 3. M.Sc. (Chemistry) | NANDINI K |
| 4. M.Sc. (Physics) | SHRILATHA |

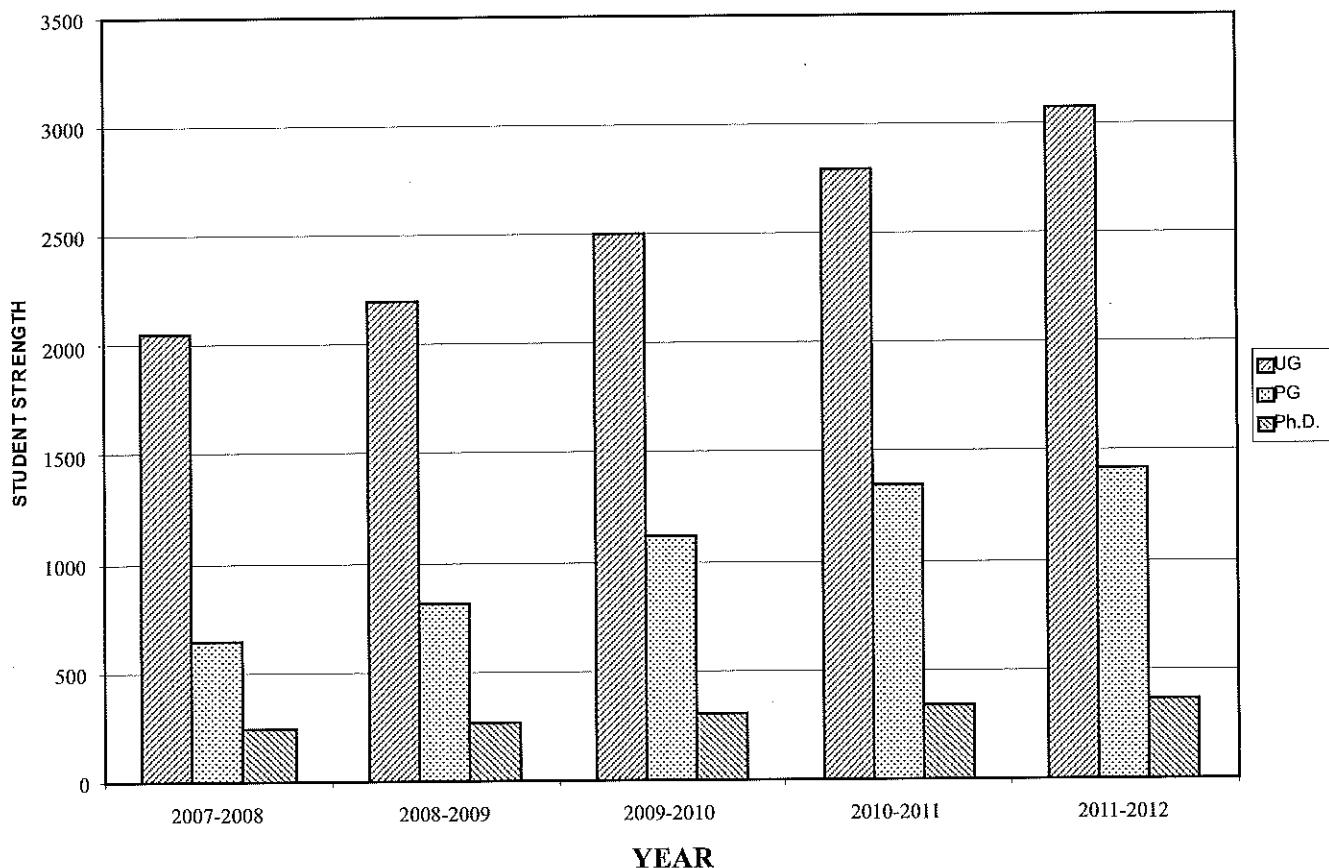
Pie-chart showing discipline wise Ph.D. admissions 2011-2012



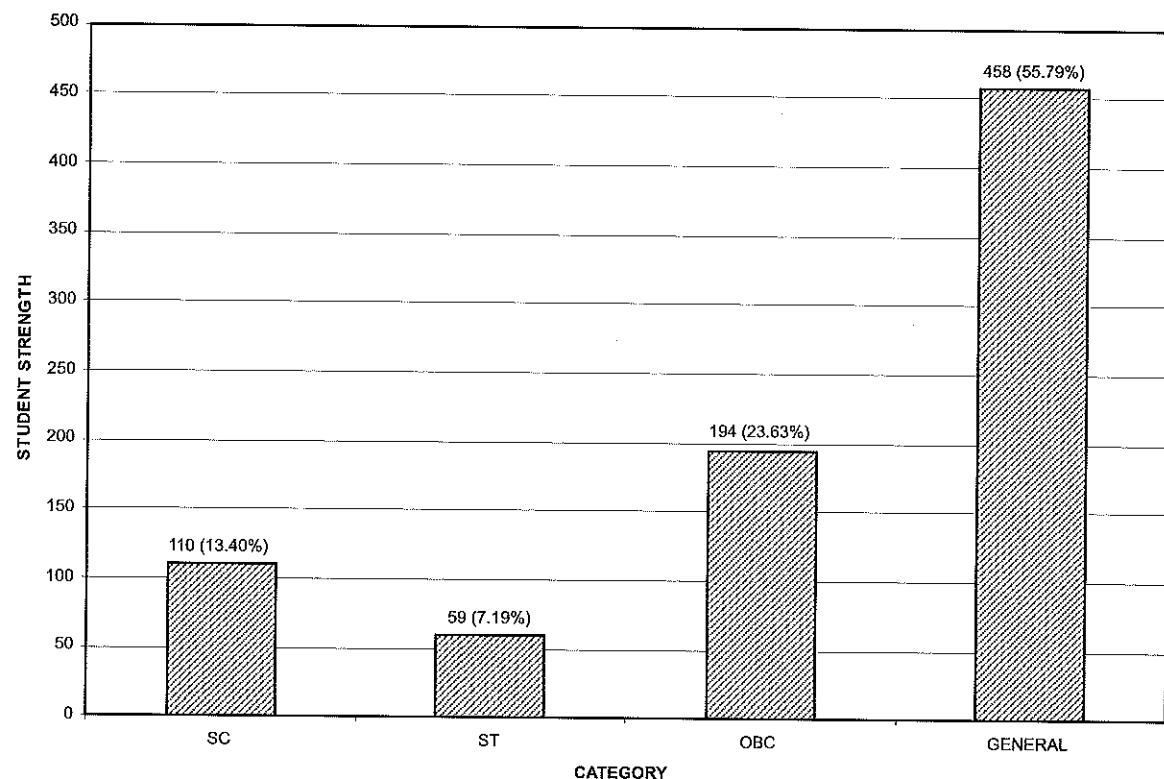
Pie-chart showing discipline wise M.Tech. admissions 2011-2012



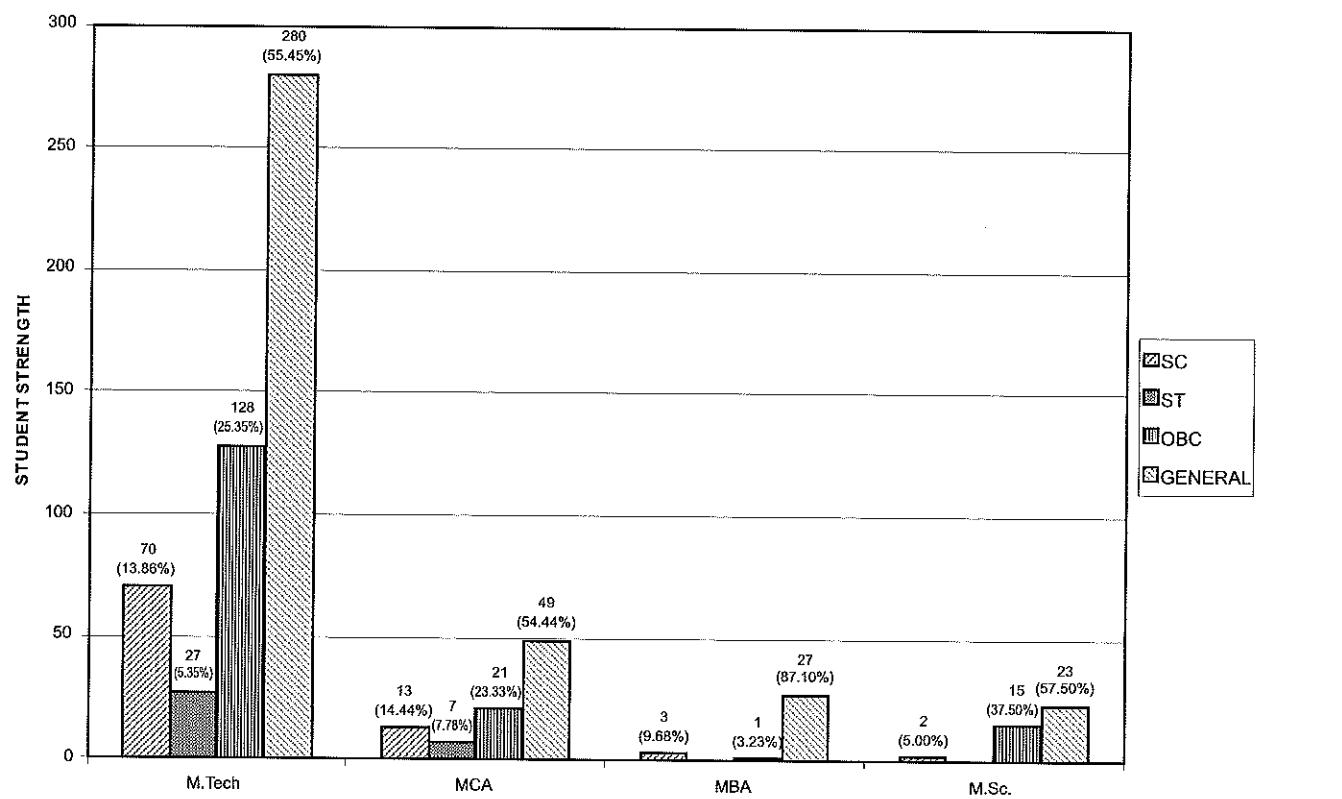
Growth in Enrolment of UG/PG/Ph.D. students during the Last Five Years (2007-2012)



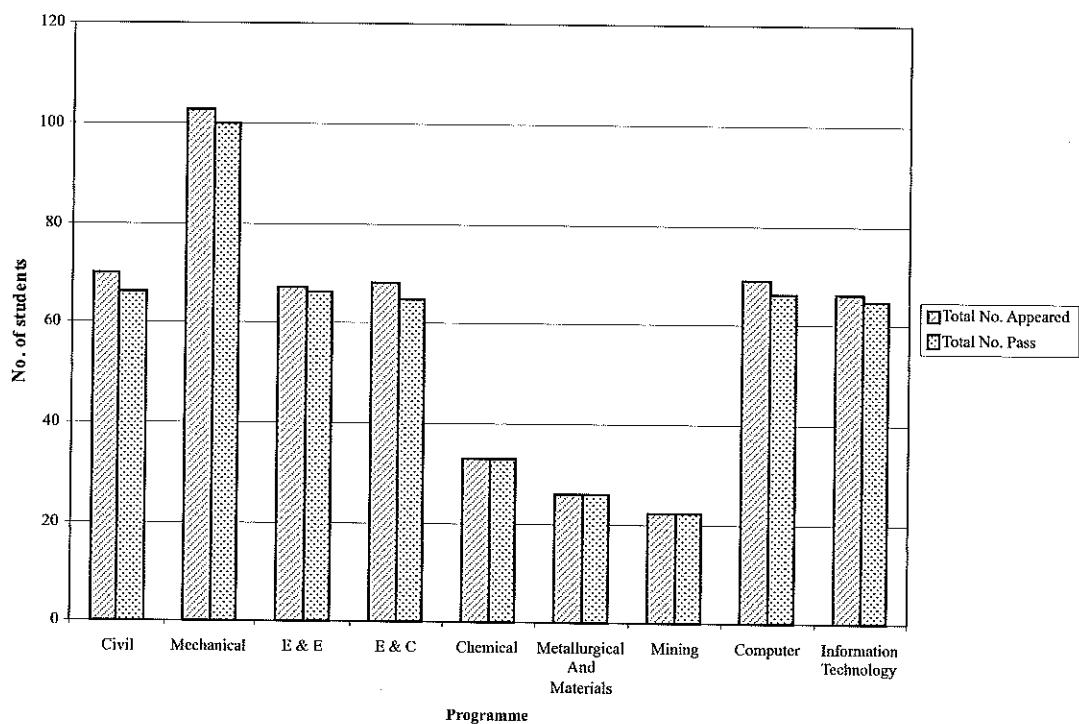
Category wise details of UG admissions 2011-2012



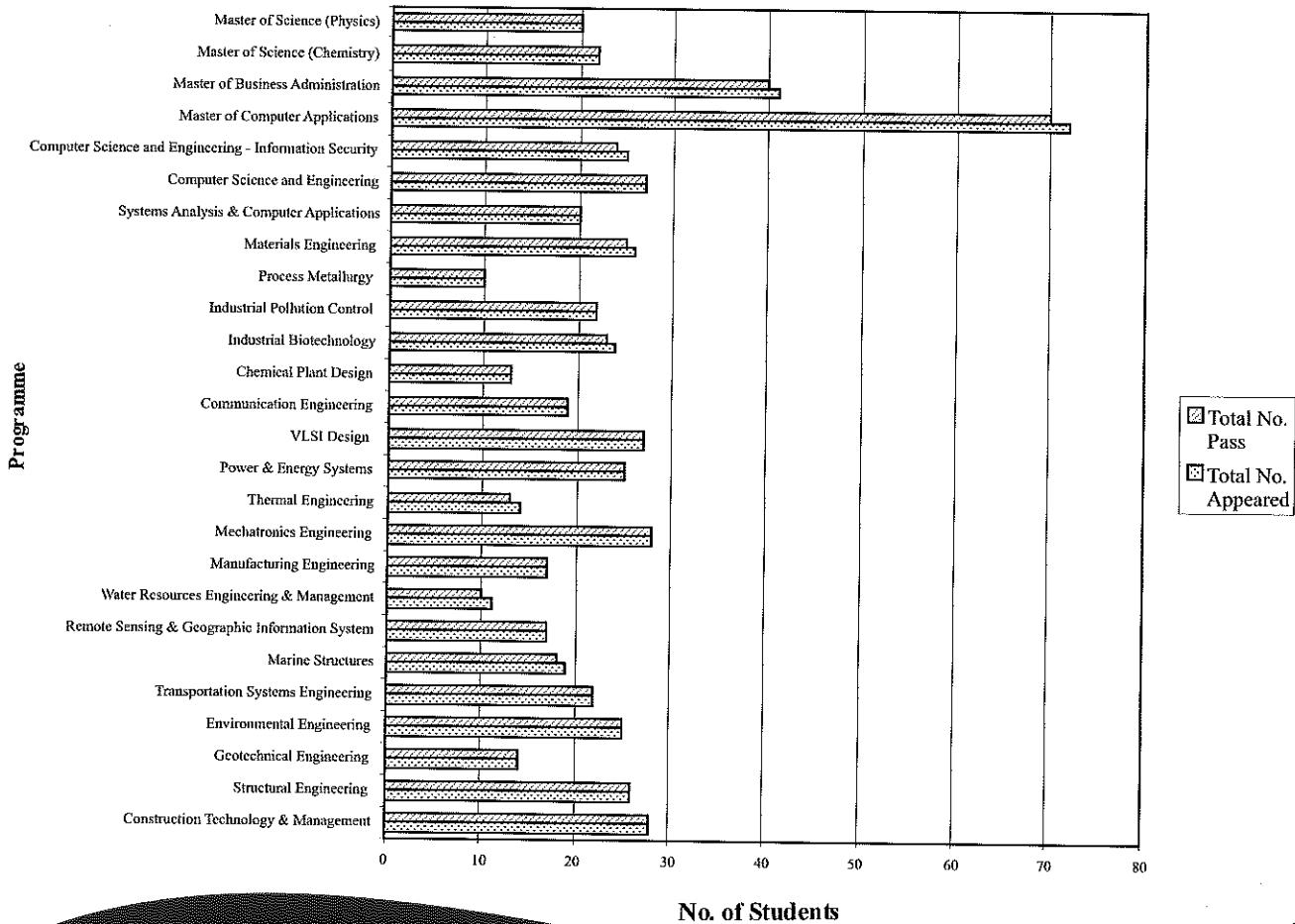
Category wise details of PG admissions 2011-2012



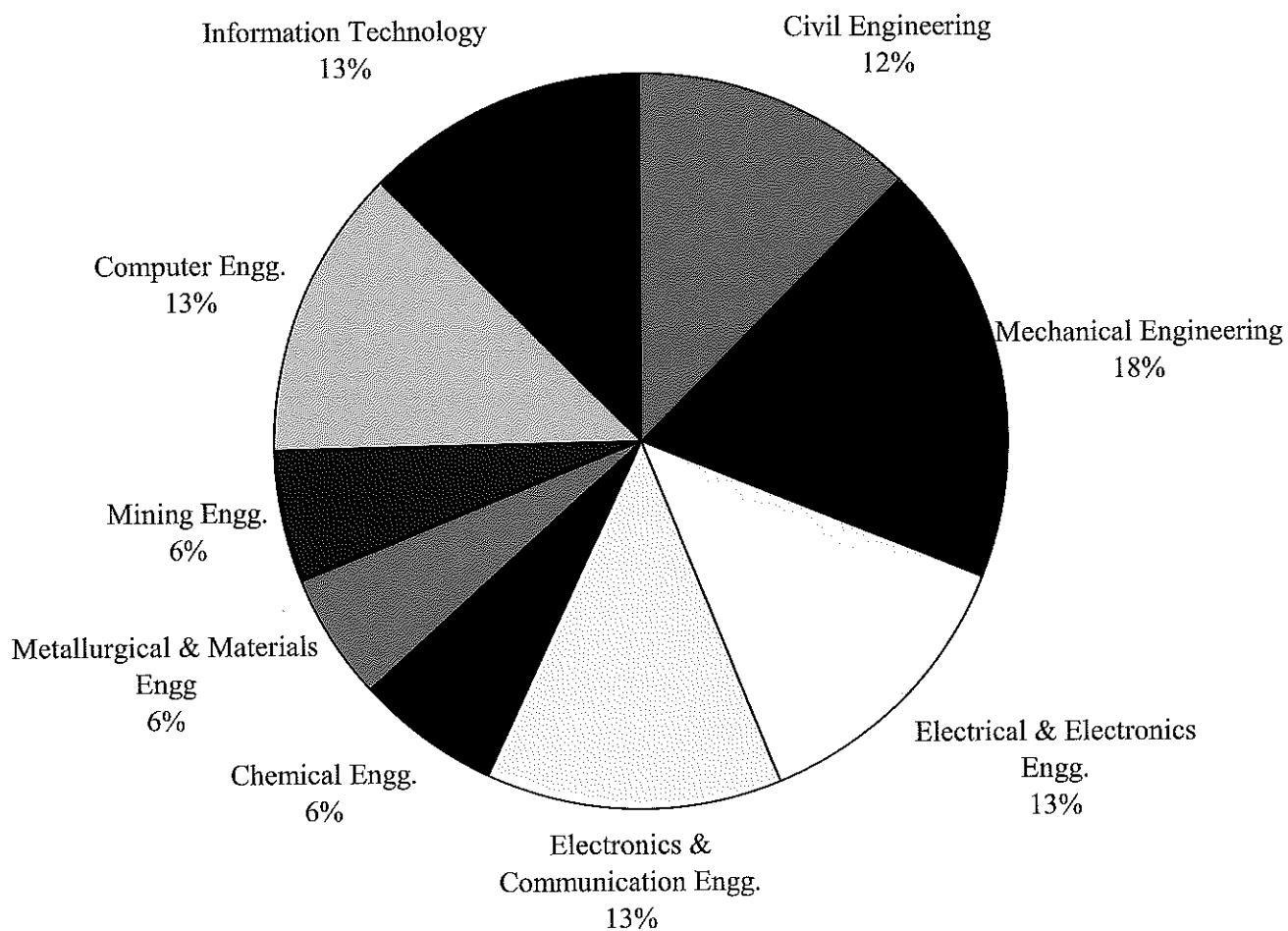
Examination Results (UG)



Examination Results (PG)



Pie-chart showing discipline wise B.Tech. admissions 2011-2012



9.0 PH.D PROGRAMMES & DOCTORATES AWARDED

Ph.D PROGRAMMES – EXISTING & PROPOSED

Department of Applied Mechanics And Hydraulics

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

Department of Chemical Engineering

| Specialisation | |
|-----------------------|---|
| Existing | Chemical Engg., Biotechnology; Environmental Engg. Transfer Operations. Synthesis and characterization of Smart Polymers |
| Proposed | -- |

Department of Civil Engineering

| Specializations | |
|------------------------|--|
| Existing | 1. Structural Engineering 2. Geotechnical Engineering 3. Transportation Engineering 4. Environmental Engineering 5. Geology and Earth-Sciences |
| Proposed | ----- |

Department of Computer Engineering

| Specialization | |
|-----------------------|--|
| Existing | Software Engineering, Computer Networks, Data Management, Data Mining, Distributed Computing, Information Security, Image Processing |
| Proposed | Wireless Networks, Cloud Computing |

Department of Chemistry

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

| | |
|----------|---|
| | <ul style="list-style-type: none"> 1) Nano materials 2) Solution chemistry 3) Polymer composites 4) Polymer blends 5) Biodegradable polymers 6) Nano multilayer coating) 7) Corrosion study 8) Supercapacitor materials <p>III Organic Chemistry</p> <ul style="list-style-type: none"> 1) Synthetic organic chemistry 2) Polymer chemistry-Conducting polymers 3) Medicinal chemistry 4) Liquid crystal polymers 5) Membrane technology 6) Polymer nanocomposites 7) Supramolecular chemistry 8) Green Chemistry |
| Proposed | <ul style="list-style-type: none"> 1) Crystallographic studies of new single crystals 2) Crystal engineering 3) Solar cells 4) OLED materials 5) NLO Materials 6) New catalysts for biodiesel |

Department of Electronics And Communication Engineering

| | Specialization |
|----------|---|
| Existing | In the areas of VLSI, Digital Signal Processing, Digital Communication, Error Control Coding, Free Space Optics, RF MEMS, Microwave and RF Circuits, Wireless Sensor Networks, High Frequency Electronics, Semiconductor Devices. |
| Proposed | |

Department of Electrical And Electronics Engineering

| | Specialization |
|----------|--|
| Existing | Power System, Power Electronics, Energy Systems, Control Systems, And High Voltage Engineering |
| Proposed | NIL |

Department of Humanities, Social Sciences and Management

| | Specialization |
|----------|---|
| Existing | <ul style="list-style-type: none"> - Productivity Management - Organisational Behaviour - Service Marketing - Brand Management - Strategic Management - Retail Marketing - Marketing Challenges of Garment Units - Micro Health Insurance - Sustainability of Competitive Advantage - Behavioural Finance |

| | |
|----------|---|
| | <ul style="list-style-type: none"> - Micro Finance - Modern Indian Fiction - Diasporic Studies |
| Proposed | Nil |

Department of Information Technology

| | Specialization |
|----------|---|
| Existing | Multidatabase based Mining, Clustering of Large Dataset, Quantitative Datamining, Webservices & Compositions, QOS Aware Bio-Inspired MANETS, Multimedia Information Retrieval, Mobile IPV6, Super Resolution Image Processing Algorithms, Web Usage mining, GPGPU Computing – Optimizations and Network stack optimization, Software Engineering, Applied Perception, Cloud Computing, Distributed/High Performance Computing, Human Computer Interaction, Information Technology for Healthcare, Virtual Reality, Wireless Sensor Networks |

Department of Mathematical And Computational Sciences

| | Specialization |
|----------|---|
| Existing | Computational Fluid Dynamics, Optimization, Graph Theory, Reliability Engineering, Stochastic Process, Number Theory, Computational Science, Cryptography, Finite Fields, Functional Analysis |
| Proposed | Nil |

Department of Mechanical Engineering

| | |
|----------|--|
| Existing | Manufacturing Engg Thermal Engg Mechatronics Engg Design Engg |
| Proposed | Nil |

Department of Mining Engineering

| | Specialization |
|----------|---|
| Existing | Rock Mechanics and Ground Control, Drilling and Blasting, Mine Planning, Environmental Management |

Department of Metallurgical And Materials Engg.:-

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

Department of Physics

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

DOCTORATES AWARDED

Department of Applied Mechanics and Hydraulics:-

| No. Awarded | |
|---|----|
| Upto 31 st March 2012 | 32 |
| During period 1 st April 2011 to 31 st March 2012 | 2 |

| Name of the candidate | Title of the thesis | Year of Award | Guide (s) |
|-----------------------|---|---------------|--------------------------|
| B.Venkatesh | Measurement and modeling of Hydraulic responses under different land covers in Sahayadri mountains, India | 2012 | Prof. Lakshman Nandagiri |
| Manu | Studies on Tandem breakwater – A physical model approach | 2012 | Dr. Kiran G. Shirlal |

Department of Chemical Engineering

| No. awarded (including those for which viva has been successfully completed) | |
|--|----|
| Upto 31 st March 2011 | 02 |
| During period 1 st April 2011 to 31 st March 2012 | 02 |

(For period of Reporting only)

| Name of Candidate | Title of Thesis | Year of Award | Guide(s) |
|----------------------|--|-------------------------------|---|
| Mr.Maheesan P.M. | Studies On The Aquatic Macrophyte Based Waste-Water Treatment Systems (Ams). | 2011 | Dr. G. Srinikethan & Dr. Hari Kumar, Scientist, CWRDM, Kerala |
| Mr. Ramanand Bhat M. | Slow Release Studies on Urea Briquettes | 28 th January 2012 | Dr. D.V.R.Murthy & Dr. M.B. Saidutta |

Department of Civil Engineering

| Number of candidates awarded the degree | |
|---|----|
| During the Period 1 st Apr 2010 to 31 st March 2011 | 04 |
| During the Period 1 st Apr 2011 to 31 st March 2012 | 03 |

| Name of the Candidate | Title of the Thesis | Year of Award | Guides (S) |
|-----------------------|---|---------------|--------------------------------------|
| Dr. Virupaksha | Thermal Ecology of Kadra Reservoir with Special Reference to Benthic Macro-invertebrates | 2011 | Dr. S.Shrihari & Dr.N.M.Madhyastha |
| Dr. Dheerendra Babu | Studies on the Behaviour of Plain and Reinforced Stone-columns in Soft and Layered Soils. | 2011 | Dr.R.Shivashankar & Dr.Sitaram Nayak |
| Dr. Nazeer M | Strength and Durability studies of High Performance Concrete in Marine Environment. | 2011 | Dr.M.C.Narasimhan & Dr.S.V. Rajeeva |

Department of Computer Engineering

| | No. awarded (including those for which viva has been successfully completed) |
|---|--|
| Up to 31 st March 2011 | 11 |
| During period 1 st April 2011 to 31 st March 2012 | - |

Department of Chemistry

| | No. awarded (including those for which viva has been successfully completed) |
|---|--|
| Up to 31 st March 2012 | 22 |
| During period 1 st April 2011 to 31 st March 2012 | 6 |

| Name of Candidate | Title of Thesis | Year of Award | Guide(s) |
|-----------------------|---|---------------|--|
| Geetha Mable Pinto | Studies on Corrosion Inhibition of 6061 Al-15 Vol. Pct. SiC _(p) composites in Acid Medium | 2011 | Dr. A. N. Shetty And Dr. Jagannath Nayak |
| Poornima T | Studies on corrosion behavior of 18% Ni M250 grade maraging steel in acidic medium and its inhibition | 2011 | Dr. A. N. Shetty And Dr. Jagannath Nayak |
| Nagaraja Upadhyaya P. | Development and Evaluation of Novel Glass Ionomer Cement Compositions for Luting Applications | 2011 | Prof. A.V. Adhikari, NITK and Prof. K. K. Srinivasan |

National Institute of Technology Karnataka, Surathkal

| | | | |
|------------------------|---|------|----------------------------------|
| Yogesha S. | Development of Nanostructured multilayer coatings for Industrial Applications | 2011 | MIT, Manipal. Prof. A.C.Hegde |
| Ramesh Bhat CY07P01 | Development of characterization of compositionally modulated multilayered alloys of zinc based alloys | 2012 | Prof.A.C.Hegde |
| Vijesh A.M | Synthesis, characterization and biological activity of some pyrazole derivatives | 2012 | Dr. Arun M Isloor |

Department of Electrical And Electronics Engineering

| | | No. Awarded (including those for which viva has been successfully completed) |
|---|--|--|
| Up to 31 st March 2012 | | |
| During period 1 st April 2011 to 31 st March 2012 | | |

Department of Electronics And Communication Engineering

| | | No. awarded (including those for which viva has been successfully completed) |
|---|---|--|
| Up to 31 st March 2011 | 4 | |
| During period 1 st April 2011 to 31 st March 2012 | 1 | |

| Name of Candidate | Title of Thesis | Year of Award | Guide(s) |
|-------------------|--|---------------|-------------------|
| Aparna P | Development of an efficient video codec based on distributed source coding | 2012 | Dr. Sumam David S |

Department of Humanities, Social Sciences and Management

| | | No. awarded (including those for which viva has been successfully completed) |
|---|--|--|
| Up to 31 st March 2012 | | 4 |
| During period 1 st April 2011 to 31 st March 2012 | | 1 |

| Name of Candidate | Title of Thesis | Year of Award | Guide(s) |
|-------------------|--|---------------|-------------------|
| Sunil C D'Souza | A Study on Service Quality and Performance in Healthcare Organizations | 2012 | Dr. A.H. Sequeira |

Department of Information Technology

| | No. awarded (including those for which viva has been successfully completed) |
|---|--|
| Up to 31 st March 2012 | 4 |
| During period 1 st April 2011 to 31 st March 2012 | - |

Department of Mathematical And Computational Sciences

| | No. awarded (including those for which viva has been successfully completed) |
|---|--|
| Up to 31 st March 2012 | 12 |
| During period 1 st April 2011 to 31 st March 2012 | 4 |

| Name of Candidate | Title of Thesis | Year of Award | Guide(s) |
|-------------------|--|---------------|--------------|
| Vasudeva M | An Analytical Study of Sum and Difference Labelings of Graphs and their Applications | 2011 | S.M. Hegde |
| A.I Elmahdy | Iterative methods for nonlinear ill-posed Problems | 2011 | S.George |
| Vadiraja Bhatta | Aspects of Permutation Polynomials over Finite Fields | 2011 | B.R. Shankar |
| B.N. Rajani | Numerical Simulation of Flow around a Circular Cylinder | 2012 | A. Kandasamy |

Department of Mechanical Engineering

| | No. awarded |
|---|-------------|
| Upto 31st March 2012 | 21 |
| During period 1st April 2011 to 31st March 2012 | 2 |

| Name of the candidate | Title of thesis | Year of award | Guide(s) |
|----------------------------|---|---------------|-----------------------------------|
| Anil Kumar H Chavadannavar | Mechanical and tribological characterization of fly ash reinforced Aluminium alloy 6061 composites | June 2011 | Dr.H.Suresh Hebbar |
| Umashankar K S | Studies on damping and machining characteristics of multiwall carbon nano-tube reinforced Al and Al-Si alloy composites | July 2011 | Dr.Vijay Desai and KV.Gangadharan |

Department of Mining Engineering

| | | No. awarded (including those for which viva has been successfully completed) |
|---|--|--|
| Up to 31 st March 2012 | | — |
| During period 1 st April 2011 to 31 st March 2012 | | 1 |

| Name of Candidate | Title of Thesis | Year of Award | Guide(s) |
|-------------------|--|---------------|-----------------|
| K. Ram Chandar | Study of Influence of Initiation System and Initiation Pattern on Blast Results. | 2011 | Prof.V.R Sastry |

Department of Metallurgical and Materials Engineering

| | | No. awarded (including those for which viva has been successfully completed) |
|---|--|--|
| Up to 31 st March 2012 | | 21 |
| During period 1 st April 2011 to 31 st March 2012 | | 3 |

Department of Physics

| | | No. awarded (including those for which viva has been successfully completed) |
|---|--|--|
| Up to 31 st March 2010 | | 8 |
| During period 1 st April 2010 to 31 st March 2011 | | 3 |

(For period of report only)

| Name of Candidate | Title of Thesis | Year of Award | Guide(s) |
|----------------------|--|---------------|--|
| Prakasha Shenoy | Growth and Characterization of mixed Orthophosphates | 2012 | Prof. G. K. Shivakumar Prof. Kasturi V. Bangera |
| K. Mahesha Upadhyaya | Growth and characterization of Antimony Thiourea Bromide Monohydrate and Antimony Thiourea Tetra Chloride Crystals | 2011 | Prof. N. K. Udayashankar |
| Mr. R. Lokesh | Electrical Switching Studies on Bulk and Thin film Amorphous Chalcogenide glasses. | 2012 | Prof. N. K. Udayashankar |

10.0 HUMAN RESOURCES

10.1 STAFF POSITION

| a) Teaching Staff | Number |
|---------------------------------------|-------------------|
| Professors | 64 |
| Associate Professors | 36 |
| Assistant Professors | 73 |
| Other staff, A.P.D. & System Manager} | 02 |
| | --- |
| | <u>175</u> |
| b) Non-Teaching Staff | |
| Administrative Officers | 5 |
| Technical supporting staff | 44 |
| Non-technical supporting staff | 184 |
| | --- |
| | 233 |

THE STAFF

(A) Administration Staff (Teaching)

Director: (Head of the Institution)

Dr. Sandeep Sancheti till 16.11.2011

Dr. G Umesh, Director (i/c) from 17.11.2011 to 28.11.2011

Dr. Sandeep Sancheti, (i/c) from 29.11.2011

Dr. G Umesh, Director (Officiating) 29.11.2011

Dean (Academic)

Dr. Gopal Mugeraya till 30.9.2011

Dr. (Mrs) Sumam David from 1.10.2011

Dean (Planning and Development)

Dr. Lakshman Nandagiri

Dean (Faculty Welfare)

Dr. G.K. Shivakumar till 30.9.2011

Dr. K. C. Shet from 1.10.2011

Dean (Student's Welfare)

Dr. K.N. Lokesh till 30.9.2011

Dr. Gopal Mugeraya from 1.10.2011

Dean (Research & Consultancy)

Dr. G Umesh

Associate Deans

Dr. Jagannath Nayak (PG)

Dr. Varghese George (R&C)

Dr. Subhas C Yaragal (UG)

National Institute of Technology Karnataka, Surathkal

Dr. Dwarakish G.S. (Students Welfare)
Dr. A.N. Shetty (FW)

ACADEMIC STAFF (TEACHING)

Department of Applied Mechanics And Hydraulics

Professors:

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

Associate Professors

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

Assistant Professor:

K. Subrahmanyam, M.Tech, (Mangalore University)
Manu, M.Tech. (Ph.D. NITK)
Pruthviraj U., M.Tech. (NITK)
H.Ramesh, Ph.D. (NITK)

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)
M.B. Saidutta, Ph.D. (I.I.T. Bombay) HOD

Associate Professor:

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

Assistant Professors:

S. Gangamma, B.E. (Bangalore University) on EOL for Doctoral studies
Jitendra Pal S., M.Tech. (VTU Belgaum)
Prasanna B.D., M.E. (Ph.D. NITK)
Regupathi, Ph.D., (Anna University, Chennai)
P.E. Jagadeeshbabu, Ph.D. (Anna Univ. Chennai)

Department of Civil Engineering

Professors:

R. Shivashankar, Ph.D. (A.I.T. Bangkok)

National Institute of Technology Karnataka, Surathkal

K.N. Lokesh, Ph.D. (Geology) (Gulbarga University)
M.C. Narasimhan, Ph.D. (IIT Madras)
Katta Venkataramana, Dr.Eng. (Kyoto University, Japan) on subbatical leave
A.U. Ravi Shankar, Ph.D (Univ. of Roorkee) HOD
D. Venkata Reddy, Ph.D. (Geology) (Osmania University)
K. Swaminathan, Ph.D. (I.I.T. Bombay)
Varghese George, Ph.D. (I.I.T. Bombay)
S. Shrihari, Ph.D. (Univ. of Roorkee)
Seetharama Nayak, Ph.D. (I.I.Sc. Bangalore)

Associate Professor:

Subhas C. Yaragal, Ph.D. (IISc., Bangalore)
K.S. Babunarayan, Ph.D. (NITK)
B.R. Jayalekshmy, Ph.D. (NITK)

Assistant Professor :

Sunil B. Malegole, Ph.D. (NITK)
Prashanth M.H., M.Tech. (NITK)
Basavaraj Manu, Ph.D. (IIT, Bombay)
Raviraj H. Mulangi, M.E. (RGPV-Bhopal), QIP, IISc

Department of Computer Engineering

Professors:

K. Chandrashekhar Shet, Ph.D. (I.I.T. Mumbai)
K. Chandrasekaran, Ph.D. (J.N.T.U.)

Associate Professor

K. Vinayakumar, M.Tech. (I.I.T. Bombay)
Shanthi Thilagam, Ph.D. (NITK) HOD
Vani M., M.Tech. (NITK, Surathkal) (on QIP deputation)
Annappa, M.Tech.. (NITK, Surathkal)

Assistant Professor:

B.R. Chandavarkar, M.Tech. (VTU, Belgaum)
Mahendra Patap Singh, M.Tech. (Karunya University)
Alwyn Roshan Pais, M.Tech. (IIT., Bombay)
Saumya A. Hegde, M.Tech. (NITK)

Department of Chemistry

Professors:

A. Nityananda Shetty, Ph.D. (Mangalore Univ.)
A. Vasudeva Adhikari, Ph.D. (Karnatak Univ.) (H.O.D.)
A. Chitharanjan Hegde, Ph.D. (Mangalore Univ.)

Associate Professors:

B. Ramachandra Bhat, Ph.D. (Mangalore Univ.)
Krishna Bhat, Ph.D. (Mangalore Univ.)
Arun Mohan Isloor, Ph.D. (Mangalore University)

National Institute of Technology Karnataka, Surathkal

Assistant Professors :

Udaya Kumar D., Ph.D. (NITK, Surathkal)
Darshak R. Bhai Trivedi, Ph.D. (Bhavnagar University)

Department of Electronics And Communication Engineering
Professors:

S. Sumam David, Ph.D. (I.I.T. Madras)
Muralidhar Kulkarni, Ph.D. (JMI – New Delhi), HOD
M. Shankarnarayan Bhat, Ph.D. (I.I.Sc., Bangalore)

Associate Professors:

M. Ramesh Kini, M.Tech. (Mangalore University)
U. Sripati, Ph.D., (I.I.Sc., Bangalore)
John D'Souza, Ph.D. (I.I.T.Kharagpur)
Neelavar Shekar Shet, M.E. (University of Roorkee)
Laxminidhi T., Ph.D. (IIT, Madras)

Assistant Professors:

Rekha S., M.Tech. (Mangalore University)
Kalpana G. Bhat, M.E. (BVB Hubli)
Aparna P., Ph.D. (NITK)
Joseph Antony A., M.E. (Anna Univ., Chennai)
B. Nagavel, M.E., (Jadavpur University) on QIP at IIT Kharagpur
Krishna Moorthy K., M.E. (Anna Univ., Chennai)

Department of Electrical And Electronics Engineering
Professors:

H.S. Yajnanarayana Shastry, Ph.D. (I.I.T. Kanpur) till 31.7.2011 (Retired)
Udayakumar R.Y., Ph.D. (IIT Bombay)
K. Panduranga Vittal, Ph.D. (Mangalore Univ.) HOD

Associate Professors:

Jora M. Gonda, M.E. (I.I.Sc. Bangalore)
Shubhangi K.N., Ph.D. (IIT, Bombay)
K. Rajagopal, M.Tech. (I.I.T. Kharagpur)
Vinatha U., M.Tech (Mangalore Univ.)
Gururaj S. Punekar, Ph.D. (IIT, Kharagpur)
K. Manjunatha Sharma, M.E. (Bharathiya University, Coimbatore)
Ashwini Chaturvedi, Ph.D. (MUM Malaysia)

Assistant Professor :

Iddya Raghavendra Rao M.Tech. (Mangalore Univ.)
Nagendrappa H., M.Tech. (N.I.T.K.), QIP Deputation
Dattatraya N. Goankar, Ph.D. (IIT, Roorkee)
Tukaram Moger, M.Tech. (IIT, Kanpur)
Parthiban, Ph.D. (IIT, Roorkee)
Debashisha Jena, Ph.D. (NIT Rourkela)
Girisha Navada, M.Tech. (University of Calicut)

National Institute of Technology Karnataka, Surathkal

Department of Humanities, Social Sciences & Management

Professor

A.H. Sequeira, Ph.D., (Mysore University)

Associate Professor:

K.B.Kiran, Ph.D. (Mangalore Univ.) (H.O.D.)
Shashikantha K., Ph.D. (University of Hyderabad)

Assistant Professor:

Bijuna C. Mohan, MBA (Calicut University)
Rashmi Uchil, PCPBA (MCC, Bangalore)

Department of Information Technology

Professor

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

Associate Professor:

Prakash S.R., Ph.D. (I.I.Sc., Bangalore)

Assistant Professor:

Dinesh Naik, M.Tech. (VTU, Belgaum)
Geetha V., M.Tech. (VTU, Belgaum)
Biju R. Mohan, M.Tech. (Pondicherry University)
Sowmya Kamath S., M.Tech. (MIT, Manipal)

Department of Mathematical & Computational Sciences

Professors:

Keshava Prasad Halemane, Ph.D. (Carnegie-Mellon Univ. U.S.A.)
Robert John D'Souza, Ph.D. (I.I.T. Delhi)
A. Kandaswamy, Ph.D. (I.I.T. Bombay)
Suresh M. Hegde, Ph.D. (Delhi Univ.) (HOD)

Associate Professors:

Murulidhar N.N., Ph.D. (I.I.T. Bombay)
Shyam Srinivas Kamath, Ph.D. (Karnataka Univ.)
Santhosh George, Ph.D. (Goa University)
B.R. Shankar, Ph.D. (I.I.Sc., Bangalore)
Sujatha D. Achar, M.Sc. (Karnatak Univ.)
R. Madhusudhan., M.Tech. (Mangalore University)

Assistant Professors:

D. Pushparaj Shetty, M.E. (on QIP deputation for Ph.D.)
Vivek Sinha, Ph.D (IIT, Bombay)
V. Murugan, Ph.D. (IIT, Madras)
P. Sam Johnson, Ph.D. (Alagappa University)
Sukumar D., Ph.D. (IIT, Madras)
Jidesh P., M.Tech. (University of Kerala)

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) (HOD)
H. Suresh Hebbar, Ph.D. (I.I.T. Delhi)
Prasad Krishna, Ph.D., (Univ. of Michigan, Ann Arbor, USA)
Satyabodh M Kulkarni, Ph.D. (I.I.Sc., Bangalore)
Gangadharan K.V., Ph.D. (I.I.T., Madras)
Ravi Kiran Kadoli, Ph.D. (IIT, Madras)
Vijay Desai, M.E. (Ph.D. NITK)

Associate Professors

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

Assistant Professros

Mohiyuddin Masood, M.Tech. (I.I.T. Madras)
Mervin A. Herbert, Ph.D. (I.I.T., Kharagpur)
Vasudeva M., M.Tech. (I.I.T. Bombay) (on QIP deputation for Ph.D)
Guruprasad K.R., Ph.D. (I.I.Sc., Bangalore)
Kumar G.N., Ph.D. (IIT, Delhi)
Shivananda Nayak H., M.Tech. (Mangalore University)
Veersetty Gumtapure, M.Tech. (I.I.T., Madras)
Navin Karanth P., M.Tech. (Mangalore University)
Subhaschandra Kattimani, M.Tech., (QIP Deputation)
Sudhakar Jambagi, M.Tech. (QIP Deputation)
Vijay Kumar H, M.Tech. (QIP Deputation)
Ajay Kumar Yadav, M.Tech. (I.I.T. Kharagpur) on EOL

Department of Mining Engineering

Professors:

Y. Venkateshwara Rao, Dr.Ing. (Freiberg)
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) HOD
M. Aruna, B.E. Ph.D. (University of Dhanbad)

Assistant Professor:

K. Ramachander, Ph.D. (NITK)

Department Of Metallurgical & Materials Engineering

Professors:

P. Prasad Rao, Ph.D. (I.I.T. Bombay) Retired on 31.7.2011
K. Laxminarayana Bhat, Ph.D. (Mysore Univ.) Retired on 30.4.2011
K. Rajendra Udupa, Ph.D. (I.I.Sc. Bangalore)
A.O. Surendranathan, Ph.D. (Mangalore University) (H.O.D.)
K. Narayana Prabhu, Ph.D. (Mangalore Univ.)
Jagannatha Nayak, Ph.D. (NITK)

Associate Professor:

P. Laxshminarayana Reddy, Ph.D. (I.I.T. Bombay)
Udaya Bhat, Ph.D. (I.I.Sc., Bangalore)

Assistant Professor:

Shashi Bhushan Arya, M.E., (NIT, Jaipur)
Ravishankar K.S., Ph.D. (NITK)
Anandan Srinivasan, Ph.D. (I.I.T., Kharagpur)

Department of Physics

Professor:

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

Assistant Professors:

M.N. Satyanarayan, Ph.D. (I.I.Sc., Bangalore)
Nagaraj H.S., Ph.D. (Mangalore University)
Ajith K. Madam, Ph.D. (University of Hyderabad)

ADMINISTRATIVE AND OTHER STAFF

Registrar:

Dr. M.Govinda Raj (officiating)

Deputy Registrar (Academic):

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

Deputy Registrar (Accounts):

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

Sri Chandra Shekara Shetty, Internal Audit Officer contract basis from 17.10.2007

Resident Engineer:

B. Laxmisha Yadiyal contract basis till 29.8.2011

Shashidhar Shetty from 30.8.2011

National Institute of Technology Karnataka, Surathkal

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 Affairs:

Dr. Udaya Kumar R Y

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

Col. MG HS Rajan

Associated NCC Officer Incharge (ANO):

Dr. D Sukumar

N.S.S. Officer:

Watch and Ward Officer:

Manohar Karanth

Chief Vigilance Officer:

vacant

Central Public Information Officer (CPIO):

K. Ravindranath, Dy. Registrar(Academic)

OTHER SECTIONS

Department of Training & Placement

Professor:

Dr. R Shivashankar

Assistant Proctor:

S.R. Kumbhar, M.A., B.Lib.Sc. ADISC

Industry Institute Partnership Cell

Professor I/c.:

Full Time Officer:

Dr. S. Shrihari

SC/ST Cell

Professor

B Raj Mohan

Physical Education

Physical Director:

Vacant

Assistant Physical Director Sr. Scale:

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

Library

Librarian:

Dr. Purushotham Gowda, Deputy Librarian on Deputation till 12.5.2011

Vacant from 17.5.2011

Asst. Librarian:

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

Central Computer Centre

Chairman / System Manager:

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

System Analyst:

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

NITK - Science & Technology Entrepreneurs' Park

Director:

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

Administration-cum-Finance Officer:

Jayakrishna H.R., M.Com. (Karnatak University), C.A (Inter), M.B.A., M.A. Economic (Mangalore University)

R&D Centre on Clay Roofing Tiles

Faculty Incharge:

Dr. S.M. Kulkarni

NTMIS - Nodal Centre - Karnataka State

Project Officer I/c.:

Prof. A.Vittal Hegde till 31.1.2011

Dr. B M Doddamani

Research Associate:

T. Gopal Bhandary, M.A (Mysore Univ.), MBA, Dip.T.D.(ISTD) till 31.5.2011

Computer Programmer Cum Operator:

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

National Institute of Technology Karnataka, Surathkal

Centre for Continuing Education

Chairman:

Secretary:

Dakshina Kannada Nirmithi Kendra

Cordinator:

Dr.K.S Babu Narayan

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

NON-ACADEMIC STAFF (NON-TEACHING)

| Sl.No | Name of Posts | In Position |
|--------------|--|--------------------|
| 1. | Registrar | 1 |
| 2. | Dy.Registrar(Academic) | 1 |
| 3. | Dy.Registrar(Accounts) | 1 |
| 4. | Resident Medical Officer | 1 |
| 5. | Medical Officer | 1 |
| 6. | Resident Engineer | 1* |
| 7. | System Analyst | 1 |
| 8. | Asst. Librarian | 1 |
| 9. | Jr. Engineer | 1 |
| 10. | Foremen | 17 |
| 11. | Programmer/Operator | 7 |
| 12. | Superintendent | 5 |
| 13. | Watch and Ward Officer | 1 |
| 14. | Draftsman | 7 |
| 15. | Library Asst. | 2 |
| 16. | Store-keeper/F.D.A./Cashier | 6 |
| 17. | Stenographer | 5 |
| 18. | Typist | 3 |
| 19. | S.D.A./Asst.Cashier | 18 |
| 20. | Jr. Lib.Asst. | 7 |
| 21. | Blue Print Operator | 1 |
| 22. | Clerk-cum-typist | 7 |
| 23. | Telephone Operator | 1** |
| 24. | Laboratory Asst. | 2 |
| 25. | Mechanics | 10 |
| 26. | Work Inspector/Garden Superintendent | 1 |
| 27. | Lab Technician | 1 |
| 28. | Pharmacist | 2 |
| 29. | Cook | 1** |
| 30. | Attenders/Helpers/Hostel Asst. /Daffedar | 34 |
| Sl.No | Name of Posts | In Position |
| 31. | Manager/Caretaker | 1 |
| 32. | Peon/Male Servant/Masalchi/Watchman/Sweeper/Cleaner/Gardener/Nursing orderly | 55 |
| 33. | Driver | 3 |
| 34. | Asst.Mechanic/Wireman/Mechanic Grade II | 15 |
| 35. | Asst.Programmer | 3 |
| | Total | 224 |

* On deputation

** On contract basis

11.0 FACILITIES/AMENITIES

11.1 HOSTELS

The Institute reopened on 25/7/2011 for Under-graduate and Post-graduate studies as per Academic calendar for the year 2011-12. All the students including foreign students are accommodated in the hostels as follows:

| | Male | Female | Total No. of Hostellers |
|---------------------------------|-------------|------------|-------------------------|
| Undergraduate Programmes | 2558 | 419 | 2977 |
| Postgraduate Programmes(M.Tech) | 665 | 208 | 873 |
| Ph.D | 89 | 17 | 106 |
| M.B.A., | 47 | 11 | 58 |
| M.Sc., | 17 | 24 | 41 |
| MCA | 202 | 49 | 251 |
| Total | 3578 | 728 | 4306 |

Male students are accommodated in Eleven hostel blocks. P.G. students have been accommodated in PG Block, VII block, VIII Block, & V Block and Mega Hostel and Ph.D. students have been accommodated in Mega Hostel. There are four hostels for Lady Students with total accommodation capacity of 792 Nos.

Nine messes of different types are provided in the boys hostels with necessary infrastructure to cater to the different food habits of the students drawn from all parts of the country. The girls hostel has a separate mess. The messes are run with active participation of the elected Mess Managers in preparation of the menu and management of the messes. The average mess bill rate for the month of March 2012 is as follows:

| | |
|---------------------|------------|
| 1. I Block Mess | Rs.1413.00 |
| 2. II Block Mess | Rs.1413.00 |
| 3. III Block Mess | Rs.1413.00 |
| 4. IV Block Mess | Rs.1850.00 |
| 5. V Block Mess | Rs.1413.00 |
| 6. VII Block Mess | Rs.1413.00 |
| 7. VIII Block Mess | Rs.1413.00 |
| 8. PG Block Mess | Rs.1413.00 |
| 9. Mega Hostel Mess | Rs.1413.00 |
| 10. GH Mess | Rs.1244.00 |
| 11. IH Mess | Rs.1244.00 |

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

During the year under report, Medical Relief to the tune of Rs. 26,240.00 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

National Institute of Technology Karnataka, Surathkal

amount is met out of the fund created under “Self Sustaining Medicare Scheme” which is created by collecting Rs. 20/- per student per semester.

Students Advisory Committee are formed per each block for proper-interaction between the Wardens and students. To improve the Accounting process, computerization of accounts have already been initiated.

The accounts of the hostels are audited by a Chartered Accountant.

Dr. Udayakumar R Y is working as Chief Warden of NITKS Hostels.

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

| | |
|----------------------------------|------------------------------|
| Dr. Udayakumar R Y | - Chief Warden |
| Dr. Narendranath S | - Warden, (Finance) |
| Dr. Prasanna B D | - Warden,I Hostel Block |
| Dr. I Raghupathi | - Warden,II Hostel Block |
| Dr. Arun M Isloor | - Warden, III Hostel Block |
| Dr. Merwin A Herbert | - Warden, IV Hostel Block |
| Dr. Kumar G N | - Warden, V Hostel Block |
| Dr. N K Udayashankar | - Warden, PG Hostel Block |
| Dr. Nagaraja H S | - Warden, VII Hostel Block |
| Dr. B.M.Dodamani | - Warden, VIII Hostel Block |
| Dr. G C Mohan Kumar | - Warden, Mega Hostel Block |
| Dr. Ajith K M | - Warden, Mega Hostel Block |
| Dr Sunil B M | - Warden, Mega Hostel Block |
| Dr. Aruna M | - Warden, Mega Hostel Block |
| Mr. K Ram Chandar | - Warden, Mega Hostel Block |
| Mrs. Rekha S & Mrs. Kalpana Bhat | - Warden, Girls Hostel Block |

Dr. Sandeep Sancheti, 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 SERVICES CENTRE

General

Computing in NITK was started in a modest way with departmental and Central LANs. These are integrated through campus LAN and the Central Computer Centre supports the academic environment as Network Operations Centre, Server Space Facilitator, Internet Access Provider , Lab support and Digital Library access for Scientific Resources.

The CCC occupies the ground and first floor of the building opposite to the Silver Jubilee Auditorium. CCC was established in 1995 as a service providing/supporting facility that augments to the computing facilities in the teaching departments.

The facility has a 200KVA Diesel generator that was established in 1994 itself and one 20KVA and two 15 KVA online UPS systems providing backup power during the changeover. The recently established 33KV electrical substation is expected to improve the reliability of electricity and hence that of the campus LAN.

CCC is headed by Prof Anantha Narayana V S, from the IT department. CCC has the following permanent staff associated to it. One Systems Manager, One Systems Analyst , Four Programmers, Two

National Institute of Technology Karnataka, Surathkal

Assistant Programmers, One Assistant Mechanic, One Helper and One Peon. CCC also has a Literate Assistant and an ITI trained person working on contract basis.

CCC works in multiple shifts and is kept open on almost all days at least for one shift. CCC takes all possible steps in its capacity to make the network accessible round-the-clock.

Efforts are being made to improve the reliability to meet the expectations of the user-base.

The Network

CCC provides the campus backbone services with about 15 kms of 12 core OFC using 1 Gbps, 10 Gbps and broad band to the residences.

The Data centre acts as an integration hub of OFC/backbone. It houses the 50 Mbps (which will be raised to 155 Mbps in the near future) Internet connection to BSNL , the 1 Gbps link to the National Knowledge Network, associated networking equipments and sufficient hardware to handle the critical backbone network services.

Internet Connection

The institute has one 50 Mbps (which will be raised to 155 Mbps in the near future) Internet connection to BSNL , the 1 Gbps link to the National Knowledge Network.These are connected to the core-switch.

Main servers are connected to the data centre network. Critical services are accessible from inside and outside the network.

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

LAN

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 2600 nodes which will increase to 4112 nodes.

The Administrative LAN and academic LAN are separated through a firewall in the main building. The academic LAN is about the same size as that of the megahostel network (i.e. more than 2000 nodes) at present. However, this is likely to go up once the new buildings are included.

Services/Facilities at CCC

CCC has taken lead in building a good IT infrastructure for the Institute. CCC strives to make this infrastructure adequate to the academic need, by providing quality IT services from the user perspective to support teaching, learning, research and innovations.

CCC still augments the academic departments' needs through its own modest LAN of about 90 nodes. The first floor has about 40 computers and the ground floor has 50. Some of these computers will be replaced in the near future.

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 & browsing.The computers of CCC are expected to support First year Computational Practice Labs, General Purpose Learning & Internet access, On-Line tests (Training & Placement) & Various co-curricular and other student activities.

Facility Management

The infrastructure facility management of NITK is outsourced. Computers parts replacement at present has a replacement rate contract and Comprehensive on-site AMC is available for the Network switches.There is a helpdesk number 3085.

Future Plans

CCC plans to meet the following goals.

- To setup a reliable and secure network access: To run 24 x 7 computer and network services with single sign on for every Faculty, staff and student, enforcing a network wide acceptable usage policy. Identify unique ID for each student, staff, faculty for all network services and create a compatible network environment. The network administration and control through dedicated appliances has been installed.
- To reduce the wastage of Internet Bandwidth: Increasing the internet bandwidth should be complemented with proper wastage prevention, So that adequate bandwidth is available to the right services. By controlling the bandwidth hungry malware, this is expected to be tackled.
- To expand the Data Centre facilities: The present data centre is quite small considering the need and demands. The Data centre needs to be expanded to the entire ground floor of CCC so that Departments can keep their servers and do remote administration. The data centre has to be functional 24 x 7 with adequate power and bandwidth. New Blade Servers are to be procured and installed for taking care of the Network services such as Web and Mail. Virtualisation is also to be used to take care of the Network Back end services.
- CCC's Long term goal: CCC has a long term goal to become the Nodal Centre of an integrated IT service platform for NITK that meets the user expectations of a highly available, anytime anywhere connectivity with convergence of voice, data and multimedia for an all purpose, mobile computing and communication device.

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 1,25,072 including Book-Bank books, subscribes 342 journals for all the disciplines. We have access to 2000 plus online Journals through INDEST. This year we have purchased 420 online full text journals from Taylor & Francis Database Vendors. The total area is 2758.56sq. meters including the extended floors as an additional space for reading hall.

1. The Statistical figures of the Library Books, Periodicals, Codes, etc. are as follows:

| Sl. No. | Item or Facilities | Numbers added during the year 2011-12 | Cost added during the year 2011-12 | Total nos. up to 31-3-2012 | Total cost up to 31-3-2012 |
|--------------------|--|--|---|---|---------------------------------------|
| 1 | General Library Books (Including TEQIP books) | 2082 | 35,16,593.00 | 95023 | 6,15,13,078.00 |
| 2 | Book-Bank Books | -- | -- | 22704 | 26,99,138.77 |
| 3 | Book-Bank Books SC/ST | -- | -- | 7345 | 12,06,498.90 |
| 4 | ISI Codes | -- | -- | 15454 | -- |
| 5 | Microfilm | -- | -- | 1510 | -- |
| 6 | Video Cassettes | -- | -- | 58 | -- |
| 7 | Periodicals Subscribed | 342 | -- | 342 | 93,98,319 |
| 8 | CD-ROM collection: Purchased Received along with books | -- 185 | -- -- | 40 1352 | 2,88,755.00 -- |
| 9 | Books received under TEQIP | -- | -- | 656 | 30,34,570.00 |

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 600 students/users at a time. At present, the library has a collection of around 1,25,072 books besides subscribing to around 342 National and International Journals.

Infrastructure:

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

Recent Initiatives

To facilitate the library users, we have initiated an air conditioned reading room facility in the library. The A.C. reference-cum-reading room has sitting capacity of around 100 users at a time. This section will be kept open from 8.00 a.m. to 8.00 p.m. on all days for the benefit of users.

Digital Library

A separate Digital Library has been established under funding from TEQIP Phase-I with resources being shared with 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 the digital form.
- ON-LINE search for books using on-line public access catalog (OPAC).
- ON-LINE electronic journal access through INDEST consortium.
- CD ROM server with reference materials like Encyclopedias, Engineering index, hand books.
- Technical reports of Bureau of Indian Standards (BIS) in digital form.
- Promotion of research publication of the Institute.
- ON-LINE access to other libraries such as IIT's, NIT's, DELNET, etc.
- Intranet and internet services.

E-Resources

Apart from the print journals, library is subscribing e-journals from 15 databases through Indian National Digital Library in Engineering Science and Technology Consortium (INDEST-AICTE consortium). About 2000 full texts (including Library purchased 420 Journals from Taylor & Francis database) and about 7500 abstracting e-journals are available in our campus network. It provides access to various full text and abstract databases like ACM, ASCE, ASTM Standard IEL online (IEEE), J-gate, Science Direct,

National Institute of Technology Karnataka, Surathkal

Springer Verlang, MathScinet and Indian Standards. Documents delivery facility also provided through JCCC. Necessary links are provided through our library and institution home pages (www.nitk.ac.in)

Professional Staff

Dr. D V R Murthy, Chairman, Library Advisory Committee

Mrs. Anasuya C. Chakari, M.A., M.L.I.Sc., Asst. Librarian

Sri Umar Itagi, Library Assistant

Sri Krishnappa M, Library Assistant

Future Plans

- Establishment of separate building for the library.
- Resource sharing with NIT's IIT's and industries.
- E-journal and E-books subscription.
- Preservation and protection of the rare books in digital form.
- On line Information to industries.

LABORATORIES

Department of Applied Mechanics And Hydraulics

| Sl. No | Name of the lab. | Major equipements/facilities |
|---------------|----------------------------------|--|
| 1 | Hydraulics Laboratory | <ul style="list-style-type: none">- Flow Measuring Units- Pumps , Water meters- Calibration Device- Hydraulic Machines- Pressure Gauges- Valves- Tilting flume- Pipe bursting unit- Ultrasound flow meter- Basic Hydrology Unit |
| 2 | Strength of Materials Laboratory | <ul style="list-style-type: none">- U.T.M 5 T, 40 T, 100 T, 200 T (Electronic)- Hardness Testing M/c- Torsion Testing M/c |
| 3 | Marine – Geotechnical Laboratory | <ul style="list-style-type: none">- Triaxial Apparatus- Marine Soil Investigation- Consolidation Apparatus- Direct Shear Apparatus- Photo Elastic Bench- Corrosion Measurement Voltage system |
| 4 | Wave Mechanics Laboratory | <ul style="list-style-type: none">- Regular Wave Flume [50 X 0.71 X 1.1 m] – 2 No.s- Digital Storage Oscilloscope with software- Wave probe with software |

| | | |
|---|----------------------------------|---|
| 5 | Hydraulic measurement Laboratory | <ul style="list-style-type: none"> - Ultrasonic Testing Kit - Pen Type pH meter - TDS meter - Electronic Balance - Conductivity meter - Turbidity meter - Spectrophotometer |
| 6 | Remote Sensing & GIS Laboratory | <ul style="list-style-type: none"> - Computer systems : 20 No.s - Printer, scanner - Procom -II - Stereoscopes - Ground truth Radiometer - Digital Planimeters - Aerial & Satellite Photographs - ARCPAD GPS <p>Softwares : ENVI, ERDAS- Imagine, PC ARCINFO Master Lab. Kit , Geomedia Professional.</p> |
| 7 | Computer Laboratory | <ul style="list-style-type: none"> - Computer systems : 15 No.s - Dot matrix printer, Laser printer, Inkjet printer - Scanner |

Department of Chemical Engineering

| Name of Laboratory | Major Equipment/Facilities |
|---|---|
| Heat Transfer Laboratory | Parallel flow / Counter flow / Double pipe Head Exchanger Shell and Tube Exchanger, Vertical condenser, Horizontal condenser, Bare & Finned tube heat exchanger, Forced convection & Natural Convention Heat Transfer, Heat Transfer in Packed Bed, Heat transfer through Helical coils, Boiling Heat transfer, Electrically heated boiler, Thermal conductivity of Powders and Liquids, Stefan holtzmann apparatus, |
| Mass Transfer Laboratory | Wetted wall column, Spray Tower, Liquid-Liquid Extraction in Packed Bed, Absorption in Packed Tower, Batch Crystallizer, Fluidized Bed Dryer, Sieve Plate Column for Distillation, Bubble Cap Column for Distillation, Cooling Towers, Forced Draft Tray Dryer, Single Effect Evaporator |
| Chemical Reaction Engg. & Process Control Lab. | Batch Reactor, Plug Flow Reactor(PFR), Continuous Stirred Tank reactor(CSTR), PFR and CSTR in series, Packed Bed Reactor, Program temperature control System, |
| Fluid Particle & Fluid Mechanics Lab. | Air compressor |
| Momenutm Transfer Lab. & Mechanical Operations Lab. | Bead Mill (Batch type sand mill, |
| Industrial Biotechnology Lab. | Gas chromatograph-MS, Compound Microscope, Volta's 300 Lit Deep Freezer (Cooler), D O Probe & D O |

| | |
|----------------------------|---|
| | Transmitter, Lyophilizer, Gel Electrophoresis, Probe Sonicator, Gel Documents, Continuous Homogenizer, Incubator - Electronic orbitek Refrigerated LE, |
| Instrumentation Lab. | Hand Vacuum Pump, Autoclave (vertical), Orbital Shaker, Multiparameter YSI 85 (DO Cond, Temper, salinity, Electrochemical Workstation, cell, carbon electrode, Water bath, CO ₂ Incubator, Digital Colony Counter with pen, Water purification Ultra SYS, Laminar Ai Flow -Horizontal 4'x2'x2', Micro balance, Bioreactor with variable Volume Fixtures and Magnetic stirrer, TG -DTA 6300 (Thermo Gravimetric Analyser), TOC Analyser, CO ₂ Incubator, Incubator - Electronic orbitek LT, Incubator - Electronic orbitek Refrigerated LE, ozone Generator-L4g, Eppendorf Centrifuge, |
| Testing & Consultancy Lab. | Gas chromatograph, Digital nephelometer (turbidity meter), Flame Photometer, UV-VIS Spectrophotometer Cintra, Digital pH Meter, Digital bomb calorimeter, Brook field Viscometer, UV-VIS Spectrophotometer LABOMED, Iso Kintic Stack monitoring kit, Distillation unit - Automatic cabinet water still And Aqua soft Water softener, High Pressure high Flow Gas Purification & Control panel Zero air, H ₂ , He & N ₂ , Respirable dust sampler, High Pressure high temperature gas liquid phase reactor SS316, |
| Computer Lab. | 20 Dell Computers and 2 HP computers. |

Department of Civil Engineering

| Name of the Laboratory | Major Equipment/Facilities procured during the period of Report |
|--|---|
| a. Structures Laboratory | |
| b. Material Testing Laboratory | |
| c. Transportation Engineering Laboratory | 5-Tonne Fatigue Testing Machine |
| d. Geotechnical Laboratory | - |
| e. Environmental Engineering Department | - |
| f. Earthquake Engineering Lab | |
| f. Geology Laboratory | - |
| f. Survey Stores | - |

Department of Computer Engineering

| Name of Laboratory | Major Equipment/Facilities |
|--------------------|---|
| Windows Lab | 35 Intel Dual Core Computers with Windows XP/Linux Operating System built with Internet facility and Campus wide network. Used for conducting regular UG Lab classes. |
| Intel Lab | 20 Intel Core2 Duo Computers with Windows XP/Linux OS connected to campus wide network. Used for conducting regular UG labs. |

| | |
|--------------------------------------|---|
| Software Lab | 30 Intel Pentium IV Computers with Windows XP Operating System built with Internet facility and Campus wide network. Used for conducting regular UG Lab classes. |
| MHRD Lab | 25 Intel Pentium IV Computers with Windows XP Operating System built with Internet facility and Campus wide network. Used for conducting regular UG Lab classes. |
| I PG Lab | 55 Intel Core2 Duo Computers with Windows XP/Linux Operating System connected to Internet/ LAN. Used for regular Lab work for First Year PG Students. |
| Information Security Lab | 30 Intel Core-i5/i7 Computers with Windows 7/Linux Operating System connected to Internet/ LAN with wireless access points. Used for second year M.Tech (IS) Project Students. |
| PG Project Lab I | 20 Intel Core-i7 Computers with Windows 7/Linux OS for second year M.Tech.(CSE) Project Work. |
| PG Project Lab II | 10 Intel Core-i7 Computers with Windows 7/Linux for second year M.Tech (CSE) Project Work. |
| Research Lab | 10 Pentium Core-i5/i7 Computers with Windows 7/Linux OS with Internet and LAN facility Ph.D /Research Work |
| Digital Systems Lab | Hardware Lab for experiments on Counters, Flip-Flops, Multiplexer, Adders etc. |
| Server Lab/IBM Open Power System Lab | 6 High End IBM Xeon Series Servers with Windows 2000, Windows 2003, Linux, Netware Operating Systems. 1 IBM P-Series Open Power Server with HMC Firmware. These servers are used for system Administration and Conducting regular laboratory classes, Project and Research Works. |

Department of Electrical and Electronics Engineering

| Name of Laboratory | Major Equipment/Facilities |
|---|---|
| High voltage testing laboratory | 100kV impulse generator, HV standard capacitor, 5kV Insulation tester, Oil test kit |
| Electric Machines and Drives laboratory | DSP Based drive control units V/F controls, Machine Design software (Speed, Motorpro), Filed analysis software (MAXWELL 3DFS) Rexroth INDRAMAT drive unit with AC servo motors |
| Power Electronics Laboratory | DSPACE – Rapid prototyping unit, Converter / Inverter modules, Power Device (SCR, IGMT, GTO) modules |
| Power system Dynamics lab | RMEXPERT, SKM POWER TOOLS, POWERWORLD, EMTDC PSCAD, MATLAB, MATHCAD, 70 Work station grade computers |
| Virtual Instrumentation lab | NIDAQ systems, PXI1010 units with High Voltage measurement unit, NI-ELVIS Stations, LABVIEW software, dSPACE 32xx rapid prototyping platform |
| Embedded systems lab | OSEK RTOS, KEIL RTOS, KEIL IDE for 805x, ARM, CODEWARRIOR IDE for 68HCXX, 56F8XX, TI DSC Code Composer Studio for 28XX, MOTOROLA, INTEL, ARM, PIC DSC / MC units |
| Industrial Automation lab | Distributed Control Systems [YOKOGAWA CS1000], PLC ROCKWELL RSLOGIX5000, ABB RTU232. |

Department of Electronics And Communication Engineering

| Name of Laboratory | Major Equipment/Facilities |
|--|---|
| Analog Electronics Lab | Digital Storage Oscilloscope Function Generator DC Regulated Power Supply Analog/Digital IC Tester |
| Digital Electronics Lab | Logic Analyzer benchtop 34 Channel Digital Trainer Analog/Digital IC Tester |
| Integrated Electronics Lab (Research Lab for Ph. D. Students) | HP VA206AV Z200 Workstations Dell Optiplex 755 Workstations Access to all design tools in the other labs |
| Communication Lab | Digital Storage Oscilloscope Function Generator DC Regulated Power Supply Microwave X band benches Antenna Trainer Outdoor FSO Link Setup (Lightpoint) Wireless Comm Trainer Kits(2 set ups) Workstations LD Driver LD Module PD Module Power Meter Fibre Optic Power Source Optical Fibre Trainer LD Modulator (Transmitter) FORX-200m(Receiver) Fiber Optics Kits Wireless Sensor Network Professional Kit with Tools Qualnet Network Simulator Qualnet Network Simulator Tools Wireless digital communication training system (Wi-Communication-T) Outdoor free space optic (FSO) link. |
| RF Communication Lab | RF Equipments: 3GHz Spectrum Analyzer RF Training Kit RF Signal Generator 3GHz Network Analyzer 100MHz Mixed Signal Oscilloscope 80MHz Function/Arbitrary Waveform Generator Digital Multimeter 6.5 digit Triple Output DC Regulator Power Supply Electronic Instrumentation Training Kit RF EDA Tools Digital Sourcemeter (2400) Safety universal Test Lead kit Vector Network analyzer 40GHz & Accessories Software: Genesis Core Bundle License |

| | |
|--|--|
| | Agilent VEE 8.5 , ADS 10 User Licence Optsim 5 User Licence |
| VLSI Lab | File Server Synopsys Tools Mentor Graphics Tools Magma EDA tools Xilinx Tools Tanner Tools |
| DSP Lab | Dell Precision T1500 with Intel core I7-870 Workstations Matlab, Simulink Mathematica DSP development boards – TI & AD, fixed and floating bit based DSP Code development tools – TI & AD Mentor Graphics FPGA Advantage tools FPGA development boards – Xilinx & Altera FPGA based development tools for system design – Xilinx & Altera Stretch S55DB30, Development Board & AVM20 Audio Visual Module, Stretch Code Development Tools Video Evaluation Boards Lab View |
| Microprocessor & Embedded Systems Lab | Cadance ORCAD PSPICE A/D, PCB design tools Matlab, Simulink ARM based code development tools |
| Network Management Lab | Foundry N/w's FastIron Edge X424 |
| R&D Lab (Research Lab for MTech) | Workstations Access to all design tools in the other labs |

Department of Humanities, Social Sciences and Management

| Name of Laboratory | Major Equipment/Facilities |
|--------------------|--|
| Computer Lab | It has the capacity of 22 terminals and provides access to a host of essential software like SAP, Open-office, Clarity Language Teaching Modules, etc. |

Department of Information Technology

| Name of Laboratory | Major Equipment/Facilities |
|---|---|
| Research laboratory | HP Integrity Server – 1 no |
| System Software Laboratory | GPU Computing Server – 1 no |
| Data Processing Laboratory | Tesla HPC Workstation -1 no |
| Internet Technology Laboratory | Lab computer Table – 32 nos |
| Digital System & Interfacing Laboratory | computer Chair with arm- 166 nos |
| PG Lab I | Hykon Make 10 KVA Online UPS –3 nos |
| PG Lab II | Desktop Computers CMPQ8100 - 30 nos (i5 processor) |
| UG Laboratory | Lenovo Think Centre M90 – 60 nos (i7 processor) |
| Project Lab | HP Comp 8200 I7 BX383AV -60 nos |

Department of Mathematical And Computational Sciences

| Name of Laboratory | Major Equipment/Facilities |
|--------------------|----------------------------|
| SACA Lab | 65 P.C.s |

Department of Mechanical Engineering

| Name of Laboratory | Major Equipment/Facilities |
|----------------------------|--|
| Metrology Lab | Precision / Measuring instruments |
| Engines Lab | Computerized IC Engine test set up Steam boiler and engines |
| Dynamics Lab | Vibration measurement equipments |
| Fuels lab | Fuel testing facilities |
| Refrigeration & AC lab | Refrigeration testing set up AC testing equipments |
| CAD lab | Computers and Servers to accommodate 50 students CAD/CAM/CAE software |
| Mechatronics lab | Mechatronics Instruments |
| Micro systems Lab | Modeling and Simulation of MEMS |
| Automotive Electronics Lab | Engine Simulation equipments (RBEI lab) |

Department of Mining Engineering

| Name of Laboratory | Major Equipment/Facilities |
|--|---|
| 1. Rock Mechanics Laboratory (including Ground Control) | Rock cutting machine Ultrasonic wave velocity apparatus Compression testing machine Schmidt hammer Digital inclinometer Core drilling machine Losangels index apparatus Brazilian test apparatus Point load index apparatus |
| 2. Rock Blasting Laboratory | Minimate Blastmate Minimate plus Panasonic high speed video camera |
| 3. Rock Drilling Laboratory | Jack hammer drilling machine Air compressor Horizontal core drilling machine |

| | |
|--|---|
| 4. Mine Environmental Engineering Laboratory | Inclined Manometer Digital hygrometer Digital vane anemometer Whirling hygrometer Inflammability index apparatus Caplamp setup Multi gas detector Exhaust gas analyzer Ventilation duct setup Heat stress monitoring equipment Self contained breathing apparatus Oxygen escape apparatus Water level indicator Crossing point temperature apparatus Digital methano meter Wate pollution monitoring kit Respirable dust sampler Sound level meter Gas testing set up |
| 5. Mineral Processing Laboratory | Jaw crusher Roll crusher Ball mill Rod mill Magnetic separator Sieve shaker Hot air oven Wilfley's table Jigging apparatus Froath flotation apparatus |
| 6. Mine surveying Laboratory | Digital theodolite Dumpy level Micro-optic theodolite Vernier theodolite Total station Digital auto level Handheld GPS system |
| 7. Mine Planning and Design Laboratory | HP Compaq Presario computer D-link manageable switch HP 3200 A4 scanner HP 1010/1015 Laser printer HP plotter Surpac software Reliability software Sirovision software Sim blast software |
| 8. Mine Health & Safety Laboratory | Human vibration measuring apparatus Digital millivolt meter Machine vibration measuring apparatus Larson & Davis noise dose meter |

| | |
|------------------------------|--|
| 9. Mine Pollution Laboratory | Merc SQ118 water quality analyzer High volume air sampler Respirable dust sampler Sound level meter |
|------------------------------|--|

Department of Metallurgical And Materials Engineering

| Name of Laboratory | Major Equipment/Facilities |
|---|---|
| Extractive Metallurgy Lab | Crushers, Ball mill, Floatation cells, C&S analyzer, Sieve analyzer |
| Testing of materials lab | UTM, Instron, Wear testing machine, Hardness testers, NDT, Fatigue testing machine |
| Physical Metallurgy Lab | Metallography, Microhardness, X-Ray Diffractometer, Image Analyser, Dilatometer |
| Ceramics & Polymer Lab | UTM, Extruder, Mechanical simulator, Tg determinator, Viscometer, Electro spinning equipment |
| Heat treatment lab | Heat treatment furnaces, Thermal cycle furnaces |
| Metal finishing lab | Plating facilities |
| Foundry lab | Induction furnace, Permeability meter |
| Scanning Electron Micoscope Lab | Scanning Electron Microscope with EDAX |
| Casting Research Lab | Data logger, Hot stage microscope, Wettability meter, Image analyzer Stereo microscope, 2D Surface Profiler, Thermocalc & Solid Cast Software, Ultrsonicator, Ultrasound velocity meter, Thermal property analyser |
| Powder Metallurgy & Nano technology Lab | Particle size analyzer, Programmable furnaces, High energy planetary ball mill, Sintering furnaces |
| Transmission Electron Micoscope Lab | Transmission electron microscope |
| Metal Processing Lab | Rolling mill, Precision Cutting Machines, 250 ton Hydraulic Press |
| Corrosion Lab | Potentialstat and Impedance Analyser |

Department of Physics

| Name of Laboratory | Major Equipment/Facilities |
|------------------------|---|
| UG Laboratory | • Experimental Kits (8 expt.s of 5 sets each) |
| PG Laboratory I | • Experimental Kits (7 expt.s of 2 sets each) |
| PG Laboratory II | • Experimental Kits (7 expt.s) • Vacuum Coating Unit (2 no.s) |
| Research Laboratories: | |
| Thin Film Laboratory | • Thermal evaporation Unit • Planar Magnetron RF- DC Sputtering Unit • Spray Pyrolysis Unit • X-Ray Diffractometer |

| | |
|--|--|
| Optoelectronics Laboratory | <ul style="list-style-type: none"> • Linear Translation Stage • RF Probe Station • Nd: YAG Laser, Stabilizer, Power Supply • Spin Coater with controlling unit and vacuum pump • Optical Absorption Spectrometer • Optical Chopper • LCZ Meter • Z-Scan Setup • ISO Meter Precision Cutting Machine • Jobin Spectrometer |
| Crystal Growth Lab & Material Processing Lab | <ul style="list-style-type: none"> • Solution growth system for crystal growth • High temperature furnace • Magnetron sputtering system • Thin film coating unit • Fume Head • Vacuum deposition system-Thermal, DC, RF coating system |
| Material Processing Laboratory | <ul style="list-style-type: none"> • CLEMEX Microhardness Tester • Physical vapour deposition • Polishing Machine • Muffle furnace (Max Temp 1000°C) • Low speed Diamond saw cutting Blade |

WORKSHOPS

Department of Applied Mechanics and Hydraulics

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

Department of Chemical Engineering

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

Department of Civil Engineering

| Name of the Workshop | Major Equipment and Facilities |
|-----------------------|---|
| Departmental Workshop | <ul style="list-style-type: none"> (a) A Lathe (b) A Shearing Machine (c) Electrically operated Power saw (d) Welding Transformer |

Department of Electrical & Electronics Engineering

| Name of Workshop | Major Equipment/Facilities |
|---|--|
| Electrical machining and winding workshop | Lathe, Drilling machine, Motor winding machine |
| PCB workshop | PCB Prototyping machine (COLLINBUS) |

Department Of Mechanical Engineering

| Name of Workshop | Major Equipment/Facilities |
|-------------------------|---|
| Bosch Power tools lab | Power hand tools |
| CNC Lab | CNC Machining Center, CNC turning Center |
| Rapid Manufacturing lab | Rapid Manufacturing Machine |
| Machine Shop | Milling machines, Center Lathes, Planer and Shapers |

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.

PHYSICAL EDUCATION FACILITIES

Dept. of Physical Education and Games

Sports and Games:-

Department of Physical Education and Sports of this Institute has got excellent Sports infrastructure 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 (2 Turf and 1 Matting), 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(Girls Hostel), 3 Volleyball, 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 24 hours of the day for students use. Weight training hall with Multi Gym, Mini Gym, Individual stations for all sorts of exercises, Weight Lifting and Power Lifting Barbell sets, Fitness equipments like Jogger Treadmills, steppers, Rowing Machines, Bicycle Ergometers, Peck Decks and Abdominal shapers is open for use of everybody even during early mornings and late evenings. Above all these, like a jewel on the

National Institute of Technology Karnataka, Surathkal

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 the campus residents are 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 and students of the campus schools are charged 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 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. A Volleyball, Throw ball and Badminton court has 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. 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.

STAFF QUARTERS

Most of the permanent employees of the Institute are provided with residential accommodation. A total number of 202 quarters for teaching faculty and 120 quarters for Non-Teaching Staff are available.

12.0 STUDENT ACTIVITIES

12.1 STUDENTS UNION

Election to the Students' Union of the Institute was held on 4.4.2009 and the following office bearers were elected:

- | | |
|---------------------------|------------------------|
| 1. Mr. Siddharth M H | - President |
| 2. Mr. Manoj Kumar Mahato | - Secretary |
| 3. Mr. Ashish Gupta | - Joint Secretary |
| 4. Ms. Shama Gupta | - Girls representative |

12.2 GAMES AND SPORTS

This Institution had a long history of glorious achievements in the field of sports winning overall team championships of Mysore University, Mangalore University and All India Inter NIT sports championships when ever organized and participated. Physical Education Department has been putting all efforts to maintain the same standard all these days. All Sports and Games activities are systematically planned and implemented throughout the year by the Department of Physical Education and Sports, with a mission of all round development of Physical fitness and good health among all, through active participation in Sports and Games. The Institution has well maintained, excellent Sports infrastructures like separate play fields of standard measurements for all major Games and Sports, Indoor Hall for minor Games, International standard Swimming Pool, well equipped Weight training Hall (Gym) etc. High quality sports equipments are provided for the use of all residents of the campus and surrounding community.

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)Hockey, 11) Kabaddi, 12) Kho-Kho, 13) Table Tennis 14) Tennis, 15) Volleyball, 16) Weight Lifting and Power Lifting, in Boys section and 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 Football, Basketball 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.

13.0 RESEARCH, DEVELOPMENT & CONSULTANCY PROJECTS

13.1 R&D PROJECTS (ONGOING & SANCTIONED)

Department of Applied Mechanics And Hydraulics

a. On-going Research Projects

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs.) |
|--|----------------|--|------------------------|----------------------|
| Laboratory investigation on berm breakwater | MES | Dr. Subba Rao, Dr. Kiran G. Shirali | 3 years (2010-2013) | Rs. 14.88 Lakhs |
| Hydrogeological Studies of Coastal Wetlands – A Case Study | INCGW | Dr. A. Mahesha & Mr. Subrahmanyam K. | Sanctioned | Rs. 43.3 Lakhs |

Department of Chemical Engineering

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs.) |
|---|---|-------------------------|--------------------------------|---|
| Batch and Continuous Photocatalytic Degradation of Azodyes using Ag core-TiO ₂ Shell Structured Nanoparticles in Free and Immobilized Form | DST, Govt. of India, MHRD | Dr. Vidya Shetty K. | 2 years (from 2011 to 2013) | Rs. 20.37 lakhs |
| Virtual lab-Process Control Reaction Engg. & Unit Operations lab. | MHRD-NMEICT | Dr. Vidya Shetty K. | 2 years (from 2010 to 2012) | Instt. level Grant of Rs. 100 lakhs in First phase and Dept. share of Rs. 16 lakhs. |
| Studies on Removal of VOC's and NO by Activated Carbon from <i>Anacardium occidentale</i> seed husk in Packed Bed Column | SERC -DST-Fast Track for Young Scientists scheme under Govt. of India | Dr. B. Raj Mohan | 3 years (April 2010 to 2013) | Rs. 25.0 lakhs |

National Institute of Technology Karnataka, Surathkal

| | | | | |
|---|---|------------------------------------|-----------------------------------|-------------|
| Development of Polyethylene Glycol (PEG) Based Effective Aqueous Two Phase Systems (ATP's) for the Extraction of Value Added Compounds in Large Scale from the Effluent Streams of Fish Processing Industry | Council for Scientific and Industrial Research (CSIR), Govt. of India | Dr.I.Regupathi & Dr.Gopal Mugeraya | 3 Years (Jan 2010 to Jan 2013) | 14.00 Lakhs |
|---|---|------------------------------------|-----------------------------------|-------------|

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs.) |
|--|--|-------------------------------------|-----------------------------------|----------------------|
| Development of Aqueous Two Phase Systems (ATP's) for the Separation of α - Lactalbumin (α - La) and β - Lactoglobulin (β - Lg) from Whey for Large Scale Commercial Applications | Department of Biotechnology (DBT), Govt. of India. | Dr.I.Regupathi & Dr. Gopal Mugeraya | 3 Years (Sep 2010 to Sep 2013) | 26.00 Lakhs |
| Synthesis and Characterization of Thermo responsive Nano hydro-gel Particles for drug delivery system and for artificial glands | Fast Track project for Young Scientists scheme under Govt. of India , DST fund | Dr.P.E.Jagadeeshbabu | 3 Yrs Oct.2009 to Oct.2012) | 18.0 lakhs |

Department of Civil Engineering

| Name of the Project | Funding Agency | Names of the Investigators | Period | Funding Amount (Lakh Rs) |
|---|----------------|--|---------|--------------------------|
| Effect of Corrosion on Residual Capacity of RCC Beams and Beam-column Joints in Coastal Environment | BRNS, Mumbai | Dr.Katta Venkataramana Dr.Indrani Gogoi Er.M.H.Prashanth | 2009-12 | 35.35 |

Department of Computer Engineering

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs) |
|--|--|-------------------------|----------|---------------------|
| Information Security Education and awareness | Ministry of Communication & Information Technology | Mr. Alwyn Roshan Pais | 2004 -11 | 1.2 crore |

National Institute of Technology Karnataka, Surathkal

| | | | | |
|--|--|--|----------|-------------|
| Development of tool for Detection of SQL injection vulnerability in Web Applications | Ministry of Communication & Information Technology | Chief Investigator: Mr. Alwyn R Pais Co Investigators: Dr. John D'Souza Mr. K. Vinay Kumar | 2010 -12 | 33.22 Lakhs |
| National Mission Project on Education through ICT - "Developing suitable pedagogical methods for various classes, intellectual calibers and research in e-learning" Course: Cryptography and Applications | MHRD , New Delhi | Chief Developer : Dr. B. B. Amberker Co Developers : Dr. Asoke Talukder Mr. Alwyn R. Pais | 2009 -11 | 8 Lakhs |

Department of Chemistry

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs) |
|---|----------------|---|------------------------------|---------------------|
| Augmentation of Research Facilities, i.e. Single Crystal X-Ray Diffractometer | DST-FIST | Prof. A.V Adhikari, Coordinator and Dr. Darshak R. T. as co-coordinator Chemistry Dept. | 2010-2014 5 Years Ongoing | 128 Lakhs |
| Carbon nanotubes by catalytic pyrolysis and its hydrogen storage properties | DRDO | Dr. B. Ramachandra Bhat & Prof. A. V. Adhikari | 2009-2012 Ongoing | 20.6 Lakhs |
| Preparation of novel nanoporous polymer membranes for Desalination | BRNS | Dr. Arun M Islor | Mar 2009 – Mar 2013 | Rs 15.9 Lakhs |
| Synthesis of nanoporous polymer membranes for the Controlled release of fertilizer | DRDO | Dr. Arun M Islor Dr. D.R Trivedi | Aug 2010 - Aug 2013 | Rs 14.9 Lakhs |
| Synthesis of novel organic materials for Blue Light Emitting Diodes (BOLED) application | DIT | Dr. Arun M Islor Dr. Satyanarayana | Aug 2010 - Aug 2012 | Rs 74.5 Lakhs |

Department of Electrical and Electronics Engineering

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs) |
|--|----------------|--|---------|--|
| Virtual lab – Substation automation and Industrial Electric Drives | MHRD, NMEICT | K P Vittal, K N Shubhangi, Vinata U, K M Sharma. | 2 Years | Institution level grant of Rs.100 Lakhs in first phase and department share of Rs.16 Lakhs |

| | | | | |
|---|--|--|---|---------------|
| Investigation on the operation and control of multiple distributed generation sources in microgrid (phase I) | CPRI Bangalore | Principal Invetigator: Dr. D. N. Gaonkar Co. Investigator: Prof. Udaykumar R. Y. | 1 and half year | 25 Lakh |
| Innovative task lighting for reading table of a library”, 35 th series of Student Project Program (SPP) with | KSCST Sponsored UG project | Dr G S Punekar as guide and Mr. Madhav Shekhar, Mr. Pratap Singh Yadav, Mr. Ritabrata Bhattacharya and Mr. Suhas K | | |
| Oil Refinery tank earthing resistance measurement | ONGC MRPL | Faculty members, foreman and staff of the department. Coordinated by dr. G.S. Punekar | Two months (Twice a year of One month duration) | Rs. 4.5 Lakhs |
| Cable testing and HV source test, calibration works and consultancy, carried out for | Local industries at the high voltage laboratory of NITK EED. | G.S.Punekar and Mr.K.M.Naik | On going | Rs. 1 Lakhs |

Department of Electronics And Communication Engineering

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs) |
|---|---------------------------|--|---------------------------|-------------------------------|
| Special Man Power Development Programme for VLSI Design and Related Software (Phase II) | DIT, MCIT, Govt. of India | Mr. Ramesh Kini M | 2005 - 2012 | 28.3 lakhs (for 3 years only) |
| RF MEMS switches for Wideband reconfigurable RF Microsystems | DIT, MCIT, Govt. of India | Dr M.S. Bhat Dr.T Laxminidhi | 3 Years (from March 2010) | 175.49 lakhs |
| Secure Turbulence Resistant Free Space Optical (FSO) links for Broadband Wireless Access Networks | DIT, MCIT, Govt. of India | Dr. Muralidhar Kulkarni Dr. U Sripati | 3 Year (from July 2010) | 116.76 lakhs |

Department of Information Technology

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs) |
|--|--|--|--------|---------------------|
| “Content Based Video Copy Detection and Prevention of In-Theater Piracy” | DST Project under Women Scientist Scheme A | 1) Prof. G. Ram Mohana Reddy 2) Mrs. R Roopalakshmi | 3 year | 18,20,000/- |

Completed

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs) |
|--|------------------------|-------------------------|-----------|---------------------|
| Research in High Performance Computing | Start-up grant of NITK | Dr. Prakash S.R | 2009-2011 | 5 lakhs |
| Design and Development of eFMR for World Bank | NPIU/World Bank | Dr. Prakash S R | 2010-2011 | 1 Lakh |
| Design and Development of DASA portal for online admission | NITK Surathkal | Dr. Prakash S R | 2009-2011 | About Rs 10 Lakhs |

Department of Mathematical And Computational Sciences

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs) |
|--|-------------------------|-------------------------|---------|---------------------|
| Uncertainty and Sensitivity analysis of pushover method for R.C. framed structures with brick infill walls | BRNS/BARC/DAE | K.P. Halemane | 3 years | 20 lakhs |
| Graceful Direct Graphs | DST | S.M. Hegde | 3 years | 15 lakhs |
| Approximation Methods for linear/nonlinear ill-posed operator equations | MHRD (Seed Money Grant) | Santhosh George | 2 years | 2.5 lakhs |
| Study of BV Integrals | MHRD (Seed Money Grant) | Vivek Sinha | 2 years | 1.41 lakhs |
| Smooth Solutions of iterative functional Equations | MHRD (Seed Money Grant) | V. Murugan | 2 years | 4.2 lakhs |
| A study on closed range operators | MHRD (Seed Money Grant) | Sam Johnson | 2 years | 2.5 lakhs |
| A Secured | MHRD (Seed | P. Jidesh | 2 years | 3.75 lakhs |

| | | | | |
|---|--------------|--|--|--|
| Steganographic approach using biometric (fingerprint) information | Money Grant) | | | |
|---|--------------|--|--|--|

Department Of Mining Engineering

| Name of the Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs) |
|--|---|-------------------------------------|------------|---------------------|
| Consultancy Project on Controlled Blasting Methodology | Bangalore Metro Railway Corporation LTD. K.H.Road,Shanthi Nagar,Bangalore-560027 | Prof. V.R Sastry & Dr.K.Ram Chandar | 18/04/2011 | 2,20,600=00 |
| Controlled Blasting at Gajnur Dam Site | M/s Mysore Construction co.Ltd. Gajnur Dam Site SHIMOGA | Prof. V.R Sastry & Dr.K.Ram Chandar | 18/04/2011 | 1,32,360=00 |
| Controlled Blasting Methodology for Minimizing the effects of Ground Vibrations & Fly rock | M/s K.N.R Constructions Ltd. c/o DIX Engineering, NMC Complex Beach Road, Panambur, Mangalore-5750 | Prof. V.R Sastry & Dr.K.Ram Chandar | 19/04/2011 | 55,150=00 |
| Controlled Blasting at LPG import facility HPL,Katippalla,Mangalore | The Manager, HPCL LPG Commercial 3 rd Floor, Hindusthan Bhavan, Ballard Estate,Mumbai-400001 | Prof. V.R Sastry & Dr.K.Ram Chandar | 20/4/2011 | 110300=00 |
| Computation of Mine excavation cost | M/S. Mysore Minerals Ltd,No-39,M.G Road,Bangalore | Prof. V.R Sastry | 30/05/2011 | 82,725=00 |
| Effects of Ground Vibrations on NH-16 and Built up area | The CGM(R&D) Singareni Colleries Co.Ltd Kotthegeudem-5017101 | Prof. V.R Sastry | 27/05/2012 | 2,15,085=00 |
| Blasting effect on village | Mr.B.K Shetty Quarry Owner, Sl no-102, Karangalpady,Udupi | Prof. V.R Sastry | 30/05/2011 | 33,090=00 |
| Consultancy project on Controlled Blasting Methodology | Bangalore Metro Railway Corporation LTD. K.H.Road,Shanthi Nagar,Bangalore-560027 | Prof. V.R Sastry & Dr.K.Ram Chandar | 13/06/2011 | 2,20,600=00 |
| Effects of Ground Vibrations on NH-16 and Built up area | The CGM(R&D) Singareni Colleries Co.Ltd Kotthegeudem-5017101 | Prof. V.R Sastry | 13/06/2012 | 2,15,085=00 |
| Controlled Blasting at MPRL phase 3 site | M/S.Jai hind Projects Ltd. C/O MRPL Phase-II Project Site,Bala,Mangalore | Prof. V.R Sastry | 16/06/2011 | 55,150=00 |

National Institute of Technology Karnataka, Surathkal

| | | | | |
|---|---|-------------------------------------|------------|--------------|
| Rock Dredging Project at Mumbai Port Area | M/s Jaisu Shipping Co.Ltd. B/1, Common wealth, 181, Madame Cama Road, opp. Air India Building Mumbai-400020 | Prof. V.R Sastry | 16/06/2011 | 1,10,300=00 |
| Mine Lease Boundary Survey | Department of Mines & Geology – Govt.of karnataka | Dr.Harsha Vardhan and Dr. M. Aruna | 20/06/2012 | 60,61,800=00 |
| Consultancy Project on Controlled Blasting Methodology | Bangalore Metro Railway Corporation LTD. K.H.Road,Shanthi Nagar,Bangalore-560027 | Prof. V.R Sastry & Dr.K.Ram Chandar | 18/07/2011 | 2,20,600=00 |
| Scientific Study of Slope Stability | Mine Scape Minerals Private Limited, M.G Road , Panaji, Gao-403 001 | Dr.Harsha Vardhan and Dr. M. Aruna | 19-07-2011 | 89,789=00 |
| Scientific Study of Slope Stability | Mine Scape & Khadar ores M Private Limited,MGRoad , Panaji, Gao-403 001 | Dr.Harsha Vardhan and Dr. M. Aruna | 19-07-2011 | 89,789=00 |
| Assessment of the Impact of Blasting Operations | M/S Robo Silicon Private Ltd.,Hyderabad | Prof. V.R Sastry | 26/07/2011 | 55,150=00 |
| Blast Design at MSEZ Site | M/s.Coastal Housing,Derebail,Konchadi,Mangalore 575008 | Prof. V.R Sastry | 03/08/2011 | 33,090=00 |
| Controlled Blasting at LPG import facility HPL,Katippalla,Mangalore | The Manager, LPG Commercial 3 rd Floor, Hindusthan Bhavan, Ballard Estate,Mumbai-400001 | Prof. V.R Sastry | 16/08/2011 | 1,10,300=00 |
| Rock Dredging Project at Mumbai Port Area | M/s Jaisu Shipping Co.Ltd. B/1, Common wealth, 181, Madame Cama Road, opp. Air India Building Mumbai-400020 | Prof. V.R Sastry | 16/08/2011 | 40,535=00 |
| Rock Dredging Project at Mumbai Port Area | M/s Jaisu Shipping Co.Ltd. B/1, Common Wealth, 181, Madame Cama Road, opp. Air India Building Mumbai-400020 | Prof. V.R Sastry | 16/08/2011 | 1,10,300=00 |
| Consultancy Project on Controlled Blasting Methodology | Bangalore Metro Railway Corporation LTD. K.H.Road,Shanthi Nagar,Bangalore-560027 | Prof. V.R Sastry & Dr.K.Ram Chandar | 16/08/2011 | 2,20,600=00 |
| Assessment of Vibration levels caused due to Road/Rail traffic at CMIL area --BMRCL | Bangalore Metro Railway Corporation LTD. K.H.Road,Shanthi Nagar,Bangalore-560027 | Prof. V.R Sastry & Dr.K.Ram Chandar | 26/08/2011 | 2,09,570=00 |
| Study of Bore Hole data-cpt | M/s Jaisu Shipping Co.Ltd Grounig Floor,Balard Estate ,Mumbai-400038 | Prof. V.R Sastry | 26/08/2011 | 2,20,600=00 |

National Institute of Technology Karnataka, Surathkal

| | | | | |
|---|---|-------------------------------------|------------|-------------|
| Scientific Study of Slope Stability of | M/s Sri Lakshmi Narasimha Mining Co. Pvt. Ltd. Mahalakshmi Layout, Holalkere Road, Hosadurga-577 527, Chitradurga | Dr.Harsha Vardhan and Dr. M. Aruna | 07-09-2011 | 90,999=00 |
| Verification of Blast Vibrating in Stone Querries | D.Sudhakar Shetty,Murgodi Constructions,Kavoor,Mangalore-15 | Dr.Harsha Vardhan and Dr. M. Aruna | 12-09-2011 | 33,098=00 |
| Verification of Blast Vibrating in Stone querries | Stone Crushers owner Asoociation,Chitradurga Dist.1 st main road,Chitradurga | Prof. V.R Sastry | 12-09-2011 | 60,180=00 |
| Providing Controlled Blasting Procedure | SAS Infra Projects (India)Pvt.Ltd 8-3-1021,Krishna Vihar Srinagar Colony,Hyderabad | Prof. V.R Sastry | 23/09/2011 | 33,090=00 |
| Rock Dredging Project at Mumbai Port Area. | M/s Jaisu Shipping Co.Ltd Groung Floor,Balard Estate ,Mumbai-400038 | Prof. V.R Sastry | 26/09/2011 | 1,10,300=00 |
| Consultancy Project on Controlled Blasting Methodology | Bangalore Metro Railway Corporation LTD. K.H.Road,Shanthi Nagar,Bangalore-560027 | Prof. V.R Sastry & Dr.K.Ram Chandar | 26/09/2011 | 2,20,600=00 |
| Study of ground Vibrating in quarry. | M/s.Zero .G.Exim Pvt.Ltd. KG Devapattana Kunigal Tq, Tumkur Dist. | Prof. V.R Sastry | 14/10/2011 | 55,150=00 |
| Study of Impact of Blasting Operations on Jambunatheshwara Temple ,Hospet. | The Director,Dept.of Archyological Measures,Mysore | Prof. V.R Sastry | 14/11/2011 | 2,50,000=00 |
| Consultancy Project on Controlled Blasting Methodology | Bangalore Metro Railway Corporation LTD. K.H.Road,Shanthi Nagar,Bangalore-560027 | Prof. V.R Sastry & Dr.K.Ram Chandar | 15/11/2011 | 4,41,200=00 |
| Rock Dredging Project at Mumbai Port Area | M/s Jaisu Shipping Co.Ltd Groung Floor,Balard Estate ,Mumbai-400038 | Prof. V.R Sastry | 15/11/2011 | 55,150=00 |
| Assessment of Blast Vibrating on Shaft Lining of GDK-10 Incline Man Winding Shaft | The CGM(R&D) Singareni Collieries Co.Ltd Kottherudem-5017101 | Prof. V.R Sastry | 15/11/2011 | 1,07,542=50 |
| Rock Dredging Project at Mumbai Port Area | M/s Jaisu Shipping Co.Ltd Groung Floor,Balard Estate ,Mumbai-400038 | Prof. V.R Sastry | 14/12/2011 | 1,10,300=00 |
| Testing of Rock Samples | M.s. Nirman Associates ,HPCL,LPG Fecilities site, Bala, Mangalore | Prof. V.R Sastry | 21/12/2011 | 49,365=00 |

National Institute of Technology Karnataka, Surathkal

| | | | | |
|---|--|-------------------------------------|------------|-------------|
| Controlled Blasting at LPG import facility HPL, Katippalla, Mangalore | The Manager,LPG Commercial, 3 rd Floor,Hinustan Bhavan,Ballard Estate,Mumbai-400001 | Prof. V.R Sastry | 21/12/2011 | 1,10,300=00 |
| Assessment of Blasting on Surrounding Structures. | M/s. Parashakthi Cements Ltd. Guntor Dist Andra Pradesh | Prof. V.R Sastry | 02/01/2012 | 82,511=00 |
| Mine Lease Survey | M/s Doddanavar Brothers Pvt. Ltd Heremagi Ramthal and H.S Aihole Iron ore Mine Bagalkote | Dr.Harsha Vardhan and Dr. M. Aruna | 06/01/2012 | 3,00,000 |
| Rock Dredging Project at Mumbai Port Area | M/s Jaisu Shipping Co.Ltd, Mumbai-Port Trust ,Mumbai 400020 | Prof. V.R Sastry | 17/02/2012 | 55,150=00 |
| Consultancy Project on Controlled Blasting Methodology | Bangalore Metro Railway Corporation LTD. K.H.Road,Shanthi Nagar,Bangalore-560027 | Prof. V.R Sastry & Dr.K.Ram Chandar | 17/01/2012 | 2,20,600=00 |
| Ground Vibration Monitoring in Stone Quarries, | Vijaya Stone Workers and Crushers Subhash Nagar, Bangalore | Prof. V.R Sastry | 18/01/2012 | 99,270=00 |
| Consultancy Project on Controlled Blasting Methodology | Bangalore Metro Railway Corporation LTD. K.H.Road,Shanthi Nagar,Bangalore-560027 | Prof. V.R Sastry & Dr.K.Ram Chandar | 02/02/2012 | 2,20,600=00 |
| Rock Dredging Project at Mumbai Port Area. | M/s Jaisu Shipping Co. Ltd Groung Floor, Balard Estate ,Mumbai-400038 | Prof. V.R Sastry | 02/02/2012 | 55,150=00 |
| Assessment of Blast Vibrating on Shaft lining of GDK-10 Incline Man Winding Shaft | The CGM(R&D) Singareni Colleries Co.Ltd Kothegudem-5017101 | Prof. V.R Sastry | 03/02/2012 | 1,07,543=00 |
| Assessment of Blasting on Surrounding Structures. | M/s. Parashakthi Cements Ltd. Guntor Dist. Andra Pradesh | Prof. V.R Sastry | 03/02/2012 | 82,725=00 |
| Scientific Study of Slope Stability | Mine Scape & Khadar ores M Private Limited,M.G Road , Panaji, Gao-403 001 | Dr.Harsha Vardhan and Dr. M. Aruna | 06/02/2012 | 9,977=00 |
| Scientific Study of Slope Stability | Mine Scape Minerals Private Limited, MGRoad , Panaji, Gao-403 001 | Dr.Harsha Vardhan and Dr. M. Aruna | 06/02/2012 | 9,977=00 |
| Study of Impact of Blasting Operations on Jambunatheshwara Temple , Hospet. | The Director,Dept.of Archyological Measures,Mysore-10 | Prof. V.R Sastry | 08/02/2011 | 80,900=00 |

| | | | | |
|---|--|------------------|------------|-------------|
| Controlled Blasting at LPG import facility HPL,Katippalla,Mangalore | The Manager, LPG Commercial 3 rd Floor, Hindusthan Bhavan, Ballard Estate,Mumbai-400001 | Prof. V.R Sastry | 09/02/2012 | 1,10,300=00 |
| Controlled Blasting at Gajnur Dam Site | M/s Mysore Construction Co.Ltd. Gajnur Dam Site Shimoga. | Prof. V.R Sastry | 16/02/2012 | 33,096=00 |
| Blast vibration studies at Vanchithanatha metal mine | M/s.Vanchithanatha Metal Crusher Unit, Kunthalampura Kattappana | Prof. V.R Sastry | 17/02/2012 | 1,00,000=00 |
| Blast vibration studies at Jayan Metal Mine | Sri P.S. Sukumaran Owner Jayan Metal Mine,Puthenpurackal House, Kunthalampura Kattappana Village, South Kattappana Post,Iduki Dist,Kerala-685508 | Prof. V.R Sastry | 17/02/2012 | 75,000=00 |
| Optimizations of Blast Design Parameters. | M/S.Ultra tech Cements,Boga Samudran,Tadipatri Mandal,Ananthapura Dist.A.P | Prof. V.R Sastry | 24/02/2012 | 24,8175=00 |
| Study of Ground Vibrates | M/s. D.B and Associates Malleshwaram Bangalore-560055 | Prof. V.R Sastry | 24/02/2012 | 99,270=00 |

Department of Metallurgical And Materials Engineering

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs) |
|---|---------------------------------------|--|-------------|---------------------|
| Meaurement of Heat Transfer Coefficients during Solidification of Alloys under Normal Cavity Conditions | DRDO | Dr. K. N. Prabhu | 2007 – 2011 | 15.00 Lakhs |
| Low Temperature Embrittlement (LTE) studies on SS304 LN Material | BARC | Prof. K. R. Hebbar Prof. K. L. Bhat Prof. K. R. Udupa Dr. Jagannath Nayak | 2005 - 2012 | 22.0 Lakhs |
| Preparation of Preformed Yarn to Synthesize C-C composite | DRDO | Dr. A. O. Surendranathan | 2008 | 21 lakhs |
| Metallurgical Investigation on Thermally Aged SS304 LN welds | BRNS | Dr. K. Rajendra Udupa Dr. Jagannath Nayak | 2009 | 18,81,650 |
| Laser Shock Peening Technique for Surface Treatment of Welded SS Parts | Institute for Plasma Research (BRFST) | Prof. G. Umesh Prof. K. R. Udupa Dr. Udaya Bhat K. Dr. Sathyaranayanan | 2010 – 2012 | 15.24 lakhs |
| Assessment of Solder Joint Reliability and Effect of Cooling Rate on Mechanical Properties of Lead free Solders | DRDO | Prof. K. N. Prabhu | 13.9.2011 | 80.26 lakhs |

Department of Physics

| Name of Project | Funding Agency | Name of Investigator(s) | Period | Funding Amount (Rs) |
|--|--|--|---|---------------------|
| RF MEMS Switch for Ka-Band mm-Wave Circuits | NPMASS, ADA, Bangalore. | Prof. G. Umesh, Dept. of Physics, Dr. M.S. Bhat, Dept. of E&C, NITK Surathkal | Oct. 2009 – Oct. 2012 | Rs. 67.60 Lakhs |
| Fabrication and Characterization of Blue Organic Light Emitting Diodes | DIT, India. | Dr. M. N.Satyanarayan, Prof. G. Umesh, Dept. of Physics, Dr. Arun M. Isloor, Dept. of Chemistry, NITK, Surathkal. | March 2010- Sep. 2012 (30 months) | Rs. 77.37 Lakhs |
| Laser Shock Peening technique for surface treatment of welded SS parts | Board of Research in Fusion Science & Technology (BRFST) | Prof. G. Umesh Dr.M.N.Satyanarayan, Dept. of Physics, Prof. K. R. Udupa, Dr. Udaya Bhat K, Dept. of Metallurgical & Materials Engg., NITK Surathkal. B.Ramesh Kumar, Scientist-SD, Prototype VV & Pellet Injector Division, Institute for Plasma Research, Gandhinagar. | Aug. 2010-ongoing | Rs. 18.93 Lakhs. |

13.2 PROPOSED PLAN FOR RESEARCH

Department of Chemical Engineering

| New Labs / Equipment | Coordinators for Sponsored R&D projects | New Areas of Research | Institutions/Organisations for future collaborations |
|----------------------|--|---|---|
| | Dr. I.Regupathi, (Project Investigator), Dr.M.B. Saidutta (Co- Project Investigator), Dr G. Umesh (Co- Project Investigator) | A New Technology Development Project Proposal on “ Microwave Irradiation Assisted Continuous Process Development For Biodiesel” | Submitted to “Karnataka State Biofuel Development Board”, # 116, 8th Cross, Railway Parallel Road, Kumara Park West Bengaluru-560 020 |

Department of Chemistry

| New Labs/Equipment | Target for Sponsored R&D projects | New Areas of Research | Institutions/ organizations for future collaborations |
|---|-----------------------------------|--|---|
| X-ray Diffractometer UV vis Spectrophotometer Glove box Profilometer Biotage purifier PV Measurement systems | TEQIP, DST, DIT, MNRE | Solar cells OLED materials Catalysts for trans-esterification - Biodiesel NLO materials Fluorescent materials Conjugated polymer nanocomposites | Abroad universities |
| UV-Vis-NIR spectrophotometer | Plan fund | UV-Vis-NIR spectrophotometer | Plan fund |
| Gel permeable Chromatograph | TEQIP fund | Supercapacitor materials | - |
| Electrochemical Work station | DST/DRDO | Nano-materials research | Chulaalongcorn University, Bangkok. |

Department of Electrical And Electronics Engineering

| New Labs/Equipment | Target for Sponsored R&D projects | New Areas of Research | Institutions/organizations for future collaborations |
|--|---|---|---|
| <ul style="list-style-type: none"> Power system relaying lab (Numerical relays of various types) Smart grid lab (smart meters, | <ul style="list-style-type: none"> Studies on Smart grid with funding request from Ministry of Power Distributed energy resources | <ul style="list-style-type: none"> Multi machine dynamics study Power apparatus diagnostics Virtual lab on theme area of | <ul style="list-style-type: none"> IIT – Bombay IIT - Madras IISc- Bangalore MESCOM |

National Institute of Technology Karnataka, Surathkal

| | | | |
|--|---|--|------------------------|
| communication IEDs) • Micro-grid lab (wind, solar, fuel cell based DG system and energy storage devices) | integration to utility networks • Distribution system Automation | Substation automation and Industrial Electric Drives • Distributed generation and smart grid technology | |
| <u>Dr.G.S.Punekar:</u> • AE Partial discharge measurements | RSOP or DST or DRDO | Condition monitoring of power apparatus | CPRI and IIT Kharagpur |
| <u>Dr. D.N.Gaonkar:</u> Development of Micro grid laboratory | CPRI Bangalore | Distributed Generation | -- |

Department of Electronics And Communication Engineering

| New Labs/Equipment | Target for Sponsored R&D projects | New Areas of Research | Institutions/organizations for future collaborations |
|--------------------|---|------------------------------------|--|
| RF Lab | 2010-2012 (3 years) 2010- 2012 (3 years) | 1. Free Space Optics 2. RF MEMS | MCIT Project MCIT Project |

Department of Humanities, Social Sciences and Management

| New Labs/Equipment | Target for Sponsored R&D projects | New Areas of Research | Institutions/organizations for future collaborations |
|--|-----------------------------------|--|--|
| Procurement of SPSS Software and EBSCO | Two | <ul style="list-style-type: none"> • Diasporic Studies • Translation Studies | HEIG-VD, School of Business and Engineering |

Department of Information Technology

| New Labs/Equipment | Target for Sponsored R&D projects | New Areas of Research | Institutions/organizations for future collaborations |
|--|---|--|---|
| <ul style="list-style-type: none"> • Cluster Computing (HPC) Lab • Social Networks Lab • VR Lab / Computer Vision • Data Mining / Warehouse Lab • HCI Lab • Network Design Lab | <ul style="list-style-type: none"> • IBM, HP • India Innovation Lab | <ul style="list-style-type: none"> • HPC • HCI • MMVR | <ul style="list-style-type: none"> • MICT, • DST, BRNS, ISRO, HP Research Lab |

Department of Mechanical Engineering

| New labs/ Equipment | Target for sponsored R&D projects | New Areas of Research | Institute/Organizations for future collaborations |
|-------------------------------|--|--|--|
| Material characterization lab | Research work at department and R&D Projects | Polymer composites, alloys and Materials | -- |

Department of Mining Engineering

| New Labs/ Equipment | Target for Sponsored R&D projects | New Areas of Research | Institutions/ organizations for future collaborations |
|------------------------|---|--|--|
| Rock Blasting Lab | R&D Project sanctioned from Coal India Ltd. Rs.1.234 Crore (2010-2013) | Assessment of Performance of Explosives/Blast results based on Explosive Energy Utilization. | Collaboration with Central Mine Planning and Design Institute, Ranchi. |
| | R&D Project on Coal S&T- sanctioned from Ministry of Coal – Govt.of India. Rs.81.07Lakhs (2011-2014) | Modeling of Airborne Dust In Opencast Coal Mines”. | --- |

Department of Metallurgical And Materials Engineering

| New Labs/Equipment | Target for Sponsored R&D projects | New Areas of Research | Institutions/organizations for future collaborations |
|---|--|--|--|
| 1. Surface Engineering Lab 2. Yarn – making equipment 3. Transmission Electron Equipment 4. Vacuum System 5. In-situ Metallograph 6. Atomic Emission Spectrometer 7.Thermal conductivity meter 8. Rotary tube test apparatus for reduction of ores | To get at least one sponsored R&D project per year | 1. Nano Technology 2. Composite 3. Surface Engg. 4. Smart Materials 5. Data base on liquid quenchants 6. Possibility of utilising ferruginous manganese ore via solid state reduction plus electric melting route | 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 Ferro – alloy producers |

TECHNICAL PAPERS PUBLISHED IN REFEREED JOURNALS

Table: List of publications during the period under report

| Sl. No. | DEPARTMENT | PUBLICATIONS | | | | Total |
|--------------------|--|-----------------------|------------------|--------------------------|---------------------|------------|
| | | International Journal | National Journal | International Conference | National Conference | |
| 1. | Applied Mechanics & Hydraulics | 16 | 2 | 20 | 11 | 49 |
| 2. | Chemical Engineering | 15 | - | 20 | 6 | 41 |
| 3. | Chemistry | 97 | - | 52 | - | 149 |
| 4. | Civil Engineering | 24 | 2 | 26 | 11 | 63 |
| 5. | Computer Engineering | 9 | - | 27 | 2 | 38 |
| 6. | Electrical and Electronics Engineering | 12 | 1 | 28 | 2 | 43 |
| 7. | Electronics & Communication Engineering | 6 | 2 | 6 | 2 | 16 |
| 8. | Humanities, Social Sciences and Management | 3 | 3 | 5 | 2 | 13 |
| 9. | Information Technology | 10 | - | 29 | 0 | 39 |
| 10. | Mathematical and Computational Sciences | 12 | - | 3 | - | 15 |
| 11. | Mechanical Engineering | 1 | - | 4 | 6 | 11 |
| 12. | Metallurgical And Materials Engineering | 40 | 3 | 12 | 3 | 58 |
| 13. | Mining Engineering | 9 | 6 | 3 | 2 | 20 |
| 14. | Physics | 12 | - | 16 | 3 | 31 |
| Grand Total | | 266 | 19 | 251 | 50 | 586 |

INTERNATIONAL JOURNAL :-

Department of Applied Mechanics And Hydraulics

| Sl. No. | Title of paper | Journal name, Vol. Issue, Page No.s | Author(s)* |
|---------|--|--|---|
| 1. | Wave Steepness and Relative Width: Influence on Transmission Coefficient of Horizontal Interlaced Multilayered Moored Floating Pipe Breakwater (HIMMFPB) with Five Layer | Marine Technology Society (MTS) Journal, Vol. 45, No. 5, September/October 2011, pp. 20-27 | Hegde, A.V, Subba Rao, Sacchi Rajappa and Veena, C. |

| | | | |
|-----|--|--|--|
| 2. | Time history analysis of berthing structure including soil- structure interaction | International Journal of Advances in Science and Technology, Vol. 3, No. 2 , 2011, pp. 77-85. | Shanthala B, Subba Rao and Katta Venkataramana |
| 3. | Tropical, seasonal river basin development: Hydrogeological analysis | J. Hydrologic Engg., ASCE, 16(3), 280-291 | Shetkar R.V. and A.Mahesha |
| 4. | Hydro-geomorphology of Shambhavi and Pavanje river Basins using remote sensing and GIS | Int. J. Earth Sciences & Engineering, 4(3), 54-62 | Vyshali and A.Mahesha |
| 5. | Physical model studies on stability of concrete armoured breakwaters | ISH Journal of Hydraulic Engineering, vol. 17 (Sp. 1), 2011, pp. 51-60 | Manu, Subba Rao, Kiran. G. Shirlal, Prashanth J and Balakrishna Rao K. |
| 6. | Development of Concrete Armoured Protected Breakwater Structure | International Journal of Earth Sciences and Engineering, Vol. 04, No. 05, September, 2011, pp 253-260 | Manu, Kiran G. Shirlal and Subba Rao (2011). |
| 7. | Neuro-Fuzzy based Approach for Wave Transmission Prediction of Horizontally Interlaced Multilayer Moored Floating Pipe Breakwater | Ocean Engineering, 38, pp. 186-196. 2011 | Patil, S.G., Mandal, S., Hegde, A.V. and Srinivasan Alavandar |
| 8. | Genetic algorithm based support vector machine regression in predicting wave transmission of horizontally interlaced multi-layer moored floating pipe breakwater | Jnl. of Advances in Engineering Software, Elsevier, 2011 | Patil, S.G., Mandal, S. and Hegde, A.V |
| 9. | Seawalls: Performance and their Failure Analysis along Southern Karnataka, West Coast of India | International Journal of Earth Sciences and Engineering, Vol. 05, February 2012, No. 01, 2012. | Subba Rao, Arkal Vittal Hegde, G. S. Dwarakish, Prashanth. J and D. Venkat Reddy |
| 10. | Investigation of the effects of meteorological parameters on groundwater level using ANN | CiiT International journal of Artificial Intelligent Systems and Machine Learning(ISSN-0974-9667) <u>Impact factor-0.763</u> January'2012, Vol-4(1) pp..39-44 | Sreenivasulu D, Pares Chandra Deka ,Nagaraj Gumageri |
| 11. | Discrete Wavelet Neural Network approach in significant wave height forecasting for multistep lead time | Ocean Engineering (ISSN-0029-8018) <u>Impact factor-1.038</u> April'2012, Vol-43pp..32-42 | Pares Chandra Deka &Prahla R |
| 12. | Hybrid Wavelet Neural Network Model For Improving Forecasting Accuracy Of Time | International journal of Earth sciences and Engineering (ISSN-0974-5904) <u>Impact</u> | Prahla R & Pares Chandra Deka |

| | | | |
|-----|---|--|---|
| | Series Significant Wave Height | <u>factor-0.233</u> October'2011, Vol-4(5)pp..857-866 | |
| 13. | Ground water level forecasting using Radial Basis Function with Limited data | International journal of Earth sciences and Engineering (ISSN-0974-5904) <u>Impact factor-0.233</u> Oct(special issue)'2011, Vol-4(6)pp.1064-1067 | Sreenivasulu D & Paresh Chandra Deka |
| 14. | Modeling Compressive Strength of Ready Mix Concrete Using Soft Computing Techniques | International journal of Earth sciences and Engineering (ISSN-0974-5904) <u>Impact factor-0.233</u> Oct.(special issue)'2011, Vol-4(6)pp.793-796 | Paresh Chandra Deka & Somanath N Diwate |
| 15. | A comparative study on RBF and NARX based methods for Forecasting of Ground water level | International journal of Earth sciences and Engineering (ISSN-0974-5904) <u>Impact factor-0.233</u> August'2011, Vol-4(4)pp.743-756 | Sreenivasulu D & Paresh Chandra Deka |
| 16. | fuzzy logic modeling for groundwater level forecasting of west coast region in india | International journal of Earth sciences and Engineering (ISSN-0974-5904) <u>Impact factor-0.233</u> June'2011, Vol-4(3) pp.488-497 | Sreenivasulu D & Paresh Chandra Deka |

Department of Chemical Engineering

| Sl. No. | Title of Paper | Journal Name, Vol., Issue, Page Nos. | Author(s)* |
|---------|---|---|--|
| 1. | Modelling and simulation of steady-state phenol degradation in a pulsed plate bioreactor with immobilised cells of Nocardia hydrocarbonoxydans | <u>Bioprocess Biosyst Eng.</u> 34(1):45-56, (springer) Jan 2011. | Vidya Shetty K, Verma DK, Srinikethan G. |
| 2. | Mixing and solid–liquid mass transfer characteristics in a three phase pulsed plate column with packed bed of solids in interplate spaces—a novel aerobic immobilized cell bioreactor | Journal of Chemical Technology and Biotechnology, June 2011. 86,2011,1310–1320(Wiley) | Vidya Shetty K*, Srinikethan G |
| 3. | Mushrooms in the Remediation of Heavy Metals from Soil. | International Journal of Environmental Pollution Control and Management, 3 (1): 89- 101. 2011 | Dilna Damodaran, Raj Mohan B., Vidya Shetty K., |
| 4. | Development and evaluation of PEG-lithium citrate salt based aqueous two | Separation Science and Technology, 47: 1–8, 2012. | I.Regupathi; B.D Prasanna, B. Girish ^a ; H.N. Vishwanatha |

| | | | |
|-----|--|--|---|
| | phase system and its application in partitioning of proteins from fish industry effluent | | |
| 5. | Pyrolysis Of Municipal Solid Waste For Syn Gas Production By Microwave Irradiation | Natural Resources Research, Vol. 21, No. 1, March 2012, 75-82 | Vidyadhar V.G. and I. Regupathi |
| 6 | Interfacial Area and Mass Transfer Coefficients in Liquid-Gas Ejectors | Theoretical Foundations of Chemical Engineering, 2011, Vol. 45, No. 6, pp. 818–823 | A. Arunagiri, I. Regupathi, and T. Murugesan |
| 7. | Liquid-Liquid Equilibrium of Poly(ethylene glycol) 2000 + di-ammonium hydrogen citrate + Water Systems at Different Temperatures | <i>Journal of Chemical & Engineering Data</i> , 2011, 56 (9), pp 3643–3650 | I. Regupathi; Chunduru, K. Srikanth; Nangarthody, Sindhu. |
| 8. | Optimization Of Two Step Karanja Biodiesel Synthesis Under Microwave Irradiation | <i>Fuel Processing Technology</i> , 2011, 92, pp. 100–105 | Venkatesh Kamath H., I. Regupathi, M.B. Saidutta |
| 9. | Optimization of Culture Medium for Novel Cell-Associated Tannase Production from <i>Bacillus massiliensis</i> Using Response Surface Methodology | <i>Journal of Microbiology Biotechnology</i> , 22(2): 199-206, 2012 | Prasanna D. Belur, Rakesh Goud, and Dinesh C. Goudar |
| 10. | Enhancing gallic acid content in green tea extract by using novel cell-associated tannase of <i>Bacillus massiliensis</i> | <i>Journal of Food Biochemistry (Accepted for Publication)</i> | Basavaraj Pallabhanvi and Prasanna D.Belur |
| 11. | Experimental Investigation and Artificial Neural Network-Based Modeling of Batch Reduction of Hexavalent Chromium by Immobilized Cells of Newly Isolated Strain of Chromium-Resistant Bacteria | <u>Water, Air, & Soil Pollution</u> , 223(4),2012,1877-1893(Springer) | VidyaShetty K., Namitha L. Shama N. Rao , Narayani M., |
| 12. | Chromium Resistant Bacteria And Their Environmental Condition For Hexavalent Chromium Removal-A Review ,Critical Reviews in Environmental Science and Technology | posted online as forthcoming article)(Taylor &Francis) DOI:10.1080/10643389.2011.627022 | Narayani M and VidyaShetty K |
| 13. | Characteristics of a novel <i>Acinetobacter</i> sp. and its kinetics in hexavalent chromium bioreduction | <u>J Microbiol Biotechnol</u> , 22(5),2012, 690-698.(Korean Society) | <u>Narayani M, VidyaShetty K</u> |
| 14. | <u>Modeling and genetic algorithm-based multi-objective optimization of the MED-TVC desalination system</u> | <u>Desalination</u> , 292, 2012, 87-104(Elsevier) | ImanJanghorbanEsfahani, AbtinAtaei, <u>VidyaShetty K</u> , TaeSuk Oh, Jae Hyung Park, ChangKyooYoo |
| 15. | A real-time monitoring and assessment method for calculation of total amounts of indoor air pollutants emitted in subway stations | <i>Journal of the Air & Waste Management Association</i> , 62(5), 2012,517–526(Taylor & Francis) | TaeSeok Oh, MinJeong Kim, JungJin Lim, OnYu Kang, K. VidyaShetty , B. SankaraRao, ChangKyooYoo, Jae Hyung Park, and Jeong Tai Kim, |

Department of Civil Engineering

| Sl.No | Title of the Paper | Journal Name, Vol., Issue, Page Nos | Author (s) |
|-------|---|---|--|
| 01 | High Temperature Performance of Self-Compacting High Volume Fly-Ash Concrete Mixes | Journal of Structural Fire Engineering, 2,2, 2011, pp 81-90 | Amrutha, Gopinatha Nayak, Mattur C. Narasimhan and S.V.Rajeeva |
| 02 | March 2011, Tsunami Disaster in Japan - Editorial Note | International Journal of Earth Sciences and Engineering, 4, 02 2011 | Neelima Satyam, D. Dr.D.V.Reddy |
| 03 | Application of Chlorophyll in Multi-parametric Shallow marine Environment off the Coast of Karnataka-Kerala Coast | International Journal of Earth Sciences and Engineering, 4,02 2011, pp 198-205 | Raghavan B.R. Shylini S.K Deepthi T, Kumaraswamu M Ahwini S Prakash Chauhan Mini Raman Dr.D.V.Reddy |
| 04 | Uni-axial Compressive Strength of Laterite Prisms – An Evaluation | International Journal of Earth Sciences and Engineering, 4,02 2011, pp 336-350 | Sujatha Unnikrishnan, Mattur C. Narasimhan and Katta Venkataramana |
| 05 | Chloride-ion Impermeability of Self-compacting High-volume Fly- ash Concrete Mixes | International Journal of Civil & Environmental Engineering, 2011, Vol.11. No.04 pp.29-36. | Amrutha, Gopinatha Nayak, Mattur C. Narasimhan and S.V.Rajeeva |
| 06 | Development and Study of the Strength of Self-compacting Mortar Mixes Using Local Materials | ASCE Journal of Materials in Civil Engineering, Vol 23,5, 2011, pp 525-532 | M.Rame Gowda, M.C.Narasimhan and Karisiddappa |
| 07 | <u>A Novel Catalytic Route To Degrade Paracetamol By Fenton Process,</u> | International Journal of Research in Chemistry and Environment, 1 (1), 2011, 157-164. | Basavaraju Manu, Mahamood S, Vittal H, and Shrihari . |
| 08 | Bending of Functionally Graded plates – Analytical Evaluation of First Order Computational Model | International Journal of Earth Sciences And Engineering, October 2011 Volume 04 No 06 Spl Issn 0974-5904, 612-615 | K. Swaminathan, Anup Bhansali, Suprabhat Jakati |
| 09 | Morphometric Evidences for Neotechonism in the Mulki River Basin of Coastal Karnataka, India | International Journal of Earth Sciences and Engineering, Vol 4 (4), Aug 2011, pp 643-650. | Radhakrishnan K, and Lokesh K.N, |

| | | | |
|----|--|--|--|
| 10 | Development of digital Terrain Modeling Using CARTOSAT-I sateelite stereo Imagery- (A case-study of Manipal City, Udupi District, Karnataka State, India | International Journal of Earth Sciences and Engineering, Vol 04 No 07 November 2011, pp 71- 80 | K.N.Lokesh, Naveenchandra, Usha and Gangadhara Bhat, |
| 11 | Hydro-geochemical Studies of Ground Water along Coastal Region of Mulki-Udupi, Karnatka State, India | <i>International Journal of Earth Sciences and Engineering</i> , Vol 04 No 07 Nov.2011 Pp | Radhakrishnan K.,, K.N.Lokesh, and K. Narayana Shenoy |
| 12 | Effect of cement and quarry dust on shear strength characteristics of lithomargic clay | Journal of Geotechnical and Geological Engineering, Springer, Nov, 2011. | Sitaram Nayak, and Purushotam G. Sarvade |
| 13 | Hydrogen Production from Dairy Manure by Methano-genesis Inhibited dark-Fermentation using Carbon Tetrachloride | International Journal of Current Sciences, Jan 2012 No 1, pp 98-106 | Rohith Anupama.S, and Shrihari. S, |
| 14 | Hydrogen Production from Dairy Manure by Methano-genesis Inhibited dark-Fermentation using Chloroform | International Journal of Current Sciences, Jan 2012 No. 2, pp 41-50 | Anupama.S, Rohith, and Shrihari. S |
| 15 | Experimental Investigation of RC frames using fibers | International Journal of Earth Sciences And Engineering, Oct 2011, Vol 04 No 06, pp 826-829, | Prashanth. M.H, K.S. Babu Narayan and Mahesh. P |
| 16 | Effect of Urbanization on Water Service Net Work in Urban Areas - Editorial Note | International Journal of Earth Sciences And Engineering, Feb 2012, Vol 05 No 01 | S.C.Puranik and D.Venkat Reddy |
| 17 | A Model Study on Accelerated Consolidation of Coir Reinforced Laterite and Blended Shedi Soil with Vertical Sand Drains For Pavement Foundations | International Journal of Earth Sciences And Engineering, Feb 2012, Vol 05 No 01, pp 138-145 | Varghese George, Santhosh G Ramakrishma Hegde Durga Prashath L Dwarika Gotamey and A.U.Ravishankar |
| 18 | Performance Evaluation of Rebar in Accelerated Corrosion by Gravimetric Loss Method | International Journal of Earth Sciences And Engineering, Feb 2012, Vol 05 No 01, pp 154-159, | Akshatha Shetty Katta Venkataramana and Indrani Gogoi |
| 19 | Enhanced Degradation Of Paracetamol In Aqueous Solution By Uv-C Supported Photo-Fenton Process Over | Water Science and Technology, Article in | Basavaraju Manu and Shaik Mahamood |

| | | | |
|----|---|---|---|
| | Fenton Oxidation | press, 2011 | |
| 20 | Degradation Of Paracetamol In Aqueous Solution By Fenton Oxidation And Photo-Fenton Oxidation Processes Using Iron From Laterite Soil As Catalyst | International Journal of Earth Sciences and Engineering, Article in press, 2011. | Basavaraju Manu and S. Mahamood, |
| 21 | A Model Study on Accelerated Consolidation of Coir Reinforced Laterite and Blended Shedi Soil with Vertical Sand Drains for Pavement Foundations | International Journal of Earth Sciences and Engineering Vol.5, No.1, pp.138-145 | Varghese George Santosh, G Ramakrishna Hegde Durga Prashanth L Gotmey Diwaker and A.U. Ravi Shankar |
| 22 | Some Studies of Strip Footing on Granular bed overlying Weak Soil | Intl. Journal of Applied Engg. Research, ISSN 0973-452 vol. 6, No.15, pp.1883-1892. | Srinath Shetty R. Shivashankar and K. Shailesh |
| 23 | Experimental Studies on Behaviour of Stone Columns in Layered Soils | J. of Geotechnical and Geological Engg., Springer Publications, vol.29, No.5, pp.749-757. | R. Shivashankar, M.R.Dheerendra Babu, Sitaram Nayak and V. Rajath Kumar |
| 24 | Performance of Stone Columns with Circumferential Nails | Ground Improvement Journal of ICE, 164(2):97-106, May 2011 | Sitaram Nayak, R. Shivashankar and M.R. Dheerendra Babu |

Department of Computer Engineering

| Sl. No. | Title of paper | Journal Name, Vol., Issue, Page Nos. | Author(s)* |
|---------|---|---|--|
| 1. | "A Novel Approach to Evaluating and detecting Low Rate SIP Flooding Attack" | International Journal of Computer Applications 26(1):31-36, July 2011 | Abhishek Kumar, P. Santhi Thilagam |
| 2. | "Protection of Web User's Privacy by Securing Browser from Web Privacy Attacks" | IJCTA Volume 2, Issue 4 pp 1058 – 1061, July – Aug 2011 | Baviskar Sanket, P. Santhi Thilagam |
| 3. | "Model Based Approach to Prevent SQL Injection Attacks on .NET Applications" | International Journal of Computer Science & Informatics, Volume-I, Issue-II, pp.43-47, 2011 | Shikhar Jain, Alwyn R. Pais |
| 4. | "Automatic Shadow Removal Algorithm for VOP, DWT Based Watermarking Algorithm for VOP and Generation of Super Resolved VOP" | International Journal of Multimedia and Ubiquitous Engineering Vol. 6, No. 3, July 2011 | Alwyn R. Pais, John D'Souza, Ram Mohana Reddy, P. Hari Krishna |
| 5. | "The Current State of Battle against Spam" | International Journal of Computer Science & Information Technologies (IJCSIT) 2011, Vol 2 (4) 1529 -1536, December 2011 | Rochak Gupta, K. Vinay Kumar |

| | | | |
|----|---|---|--------------------------------------|
| 6. | "Fast Face Detection using Graphic Processor" | International Journal of Computer Science & Information Technologies (IJCSIT) 2011, Vol 2 (3), 1082 – 1086, December 2011 | Kailash Devrari, K. Vinay Kumar |
| 7. | "Anonymity and Verifiability in Multi-Attribute Reverse Auction" | International Journal of Information Technology Convergence and Services, Vol.1, No.4, August 2011 | T. R. Srinath, Mahendra Pratap Singh |
| 8. | "Cared: Cautious Adaptive Red Gateways For TCP/IP Networks" | Elsevier Journal of Network & Computer Applications, Vol.35, doi:10.1016/j.jnca.2011.12.003, pp 857-864, December 2011 | Mohit T.P., K.C.Shet |
| 9. | "Comparative study of High speed TCP variants in Multi-hop wireless networks" | Elsevier Journal Procedia, 2011 Dubai congress on Science and Engg. (GCSE 2011), December 2011 | Mohit T.P., K.C.Shet, T.G.Basavaraj |

Department of Chemistry

| Sl. No. | Title of paper | Journal Name, Vol., Issue, Page Nos. | Author(s)* |
|---------|--|--|---|
| 1. | 3-Methyl-4-amino-5-mercaptop-1,2,4-triazole as corrosion inhibitor for 6061 Al alloy in 0.5 M sodium hydroxide solution | J. Coat. Technol. Res., 8 (2011) 685–695. | P. D. Reena Kumari, Jagannath Nayak, A. Nityananda Shetty |
| 2. | 3-Methyl-4-amino-5-mercaptop-1,2,4-triazole as corrosion inhibitor for 6061/Al - 15 (vol -%) SiC(p) composite in 0.5 M sodium hydroxide solution | J. Mater. Environ. Sci. 2 (2011) 387-402. | P. D. Reena Kumari, Jagannath Nayak, A. Nityananda Shetty |
| 3. | 3-Ethyl-4-amino-5-mercaptop-1,2,4-triazole as a CorrosionInhibitor for 6061/Al –15 vol% SiCp Composite in a Sodium Hydroxide Solution | Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry, 41 (2011) 774–784. | P. D. Reena Kumari, Jagannath Nayak, A. Nityananda Shetty |
| 4. | Effect of 4-(N,N-diethylamino)benzaldehyde thiosemicarbazone on the corrosion of aged 18 Ni 250 grade maraging steel in phosphoric acid solution | Corrosion Science, 53 (2011) 3688 – 3696. | T. Poornima, Jagannath Nayak and A. Nityananda Shetty |
| 5. | Corrosion behavior of 6061/Al-15 vol. pct. SiC _p composite and its base alloy in sodium hydroxide Solution | Arabian Journal of Chemistry. DOI: 10.1016/j.arabjc.2011.12.003. | Reena Kumari, P. D, Jagannath Nayak, A. Nityananda Shetty |
| 6. | 3-Ethyl-4-amino-5-mercaptop-1,2,4-triazole as corrosion inhibitor for 6061-alloy in sodium hydroxide solution. | Portugaliae Electrochimica Acta, 29 (6), (2011) 445-462. | Reena Kumari, P. D, Jagannath Nayak, A. Nityananda Shetty |
| 7. | The fabrication, characterization and electrochemical corrosion behavior of Zn-TiO ₂ composite coatings. | Physica Scripta, 84 (2011) 035601. doi:10.1088/0031- | Venkatesha, M K Pavithra and A Nithyananda Shetty |

| | | | |
|-----|--|---|--|
| | | 8949/84/03/035601 | |
| 8. | Corrosion behavior of 18% Ni M250 grade maraging steel under weld aged condition in hydrochloric acid medium. | Chemical Sciences Journal, Volume 2011: CSJ-37 | BS Sanatkumar, J Nayak, AN Shetty |
| 9. | The corrosion inhibition of maraging steel under weld aged condition by 1(2E)-1-(4- aminophenyl)-3-(2-thienyl)prop-2-en-1-one in 1.5 M hydrochloric acid medium. | Journal of Coatings Technology and Research, DOI 10.1007/s11998-011-9379-1. | B. S. Sanatkumar, Jagannath Nayak & A. Nityananda Shetty |
| 10. | Investigation of adsorption and corrosion inhibitive effect of 1(2E)-1-(4 amino phenyl)-3-(2- thienyl) prop-2-en-1-one on corrosion of weld aged maraging steel in 0.5 M sulfuric acid media | J. Electrochem Soc. India, 60 - 4- (2011) 153-161. | Jagannath Nayak and A. Nityananda Shetty |
| 11. | Influence of 2-(4-chlorophenyl)-2-oxoethyl benzoate on the hydrogen evolution and corrosion inhibition of 18 Ni 250 grade weld aged maraging steel in 1.0 M sulfuric acid medium. | <i>Int. J Hydr. Energy.</i> 37 (2011) 9431 – 9442. | Jagannath Nayak & A. Nityananda Shetty |
| 12. | Large third order nonlinearity of new π -conjugated donor-acceptor polymers with substituted thiophene and 1,3,4-oxadiazole moieties.” | International Journal of Polymeric Materials, 61(2012) 1–22. | M.S. Sunitha, A. V. Adhikari, K.A. Vishnumurthy, K. Safakath, R. Philip. |
| 13. | “Electrochemical and nonlinear optical properties of new D-A type π -conjugated polymers carrying 3,4-benzylxythiophene, oxadiazole and 3,4-alkoxythiophene systems.” | <i>Chemistry Letters</i> , 41 (2012) 234-236. | M.S. Sunitha, A.V. Adhikari, K.A. Vishnumurthy, N. Smijesh N, R. Philip. |
| 14. | “Synthesis, electrochemical and optical studies of new cyanopyridine based conjugated polymers as potential fluorescent materials.” | Polymer, 52 4174-4183 (2011) | K.A. Vishnumurthy, M.S. Sunitha, K. Safakath, Reji Philip, Airody Vasudeva Adhikari, |
| 15. | “Design and synthesis of a new thiophene based donor–acceptor type conjugated polymer with large third order nonlinear optical activity.” | Synthetic Metals 161, 1699– 1706 (2011) | K.A. Vishnumurthy, A. Vasudeva Adhikari, M.S. Sunitha, K.A. Ann Mary, Reji Philip, |
| 16. | “New diphenylamine-based donor–acceptor-type conjugated polymers as potential photonic materials.” | Reactive & Functional Polymers, 71, 1119–1128 (2011) | K.A. Vishnumurthy, M.S. Sunitha, Reji Philip, Airody Vasudeva Adhikari, |

| | | | |
|-----|---|--|--|
| 17. | "New quinolin-4-yl-1,2,3-triazoles carrying amides, sulphonamides and amidopiperazines as potential antitubercular agents." | European Journal of Medicinal Chemistry, Volume 46, Issue 6, June 2011, 2503-2512. | K. D. Thomas, Airody Vasudeva Adhikari, Imran H. Chowdhury, Sumesh Eswaran, Nishith K. Pal, |
| 18. | "Design, synthesis and docking studies of quinoline-oxazolidinone hybrid molecules and its antitubercular properties." | European Journal of Medicinal Chemistry, Online, June, 2011. | K. D. Thomas, Airody Vasudeva Adhikari, Imran H. Chowdhury, Sandeep Telkar, Riaz Mahmood, Nishith K. Pal, Sumesh. E, |
| 19. | "New quinolin-4-yl-1,2,3-triazoles carrying amides, sulphonamides and amidopiperazines as potential antitubercular agents." | European Journal of Medicinal Chemistry, 46 (6) 2011, 2503-2512. | K. D. Thomas, Airody Vasudeva Adhikari, Imran H. Chowdhury, Sumesh Eswaran, Nishith K. Pal, |
| 20. | Development of Layered Zn-Fe Coatings for Better Corrosion Protection | Journal of Metals, Materials and Minerals (2011) 20(2), 43-51. | Ramesh S. Bhat, K. Rajendra Udupa and A. Chitharanjan Hegde |
| 21. | Development of anti-corrosive multilayered coatings of zinc-nickel alloy | Anticorrosion methods and materials, (2011) 58(2), 84-89. | Yogesha S. and A. Chitharanjan Hegde |
| 22. | Optimization of deposition conditions for development of high corrosion resistant Zn-Fe alloy multilayers | Journal of Materials Processing Technology, (2011) 211, 1409-1415 | Yogesha, S. and A. Chitharanjan Hegde |
| 23. | Development of Nano-Structured Cyclic Multilayer Zn-Ni Alloy Coatings Using Triangular Current Pulses | Surface Engineering and Applied Electrochemistry, (2011) Vol. 47, 112–119. | Ramesh S. Bhat and A. Chitharanjan Hegde |
| 24. | Development of Composition Modulated Multilayer Alloy Coatings and their Corrosion Behavior | Journal of Metals, Materials and Minerals, (2011) Vol.21, 83-92. | Yogesha S. and Ampar Chitharanjan Hegde |
| 25. | Corrosion resistant Zn-Co alloy coatings deposited using saw-tooth current pulse | Bull. Mater. Sci., (2011) 34 (7) 1699–1706. | S Yogesha and A Chitharanjan Hegde |
| 26. | Corrosion Behavior of Electrodeposited Zn-Ni, Zn-Co and Zn-Ni-Co Alloys, | Anal. Bioanal. Electrochem., (2011) Vol. 3(3) 302 – 315. | Ramesh S. Bhat and A. Chitharanjan Hegde |

| | | | |
|-----|---|---|---|
| 27. | Composition modulated multilayer Zn-Fe alloy coatings on mild steel for better corrosion resistance, | Journal of Materials and Manufacturing process, (2011) 211, 1409-1415. | Venkatakrishna K and A. Chitharanjan Hegde*,. |
| 28. | Effect of Current Density on Deposit Characters of Zn-Co Alloy and their Corrosion Behaviors | Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry, (2011) 41 (7), 405-411. | Yogesha S. and A. Chitharanjan Hegde* |
| 29. | Surface modification by multilayered Zn-Co alloys coatings, | Surface Engineering, (2012), Vol. 28(1) 49-56. | Yogesha, S. and A. Chitharanjan Hegde, |
| 30. | Magnetic property and corrosion resistance of electrodeposited nanocrystalline iron-nickel alloys, | Applied Surface Science, (2012) 258, 6884– 6890. | G.P. Pavithra, A. Chitharanjan Hegde |
| 31. | Green Conversion of Alcohols to Carbonyls Catalyzed by Novel Ruthenium-Schiff base-triphenylphosphine complexes. | Inorg. Chem. Comm., 14, 2011, 155-158. | Dileep Ramakrishna and Badekai Ramachandra Bhat, |
| 32. | Transition metal complexes of 5-bromosalicylidene-4-amino-3-mercaptop-1,2,4-triazine-5-one: Synthesis, characterization, catalytic and antibacterial studies | J. Serb. Chem. Soc., 76, 2011, 75-83. | A.S.Ramasubramanian, B.Ramachandra Bhat, R. Dileep and Sandya Rani |
| 33. | Synthesis characterization and third-order nonlinear optical studies of copper complexes containing 1,10-Phenanthroline-5,6-dione and triphenylphosphine ligands. | Synth. Met., 161 (2011) 535–539. | B. J. Rudresha, B. Ramachandra Bhat, K. I. Shiva Kumar, K. Safakath and Reji Philip |
| 34. | A catalytic process for the selective oxidation of alcohols by copper (II) complexes, | Inorg. Chem. Comm., 14, 2011, 690-693. | Ramakrishna Dileep and Badekai Ramachandra Bhat |
| 35. | High yield synthesis of carbon nanofibers in an environmental friendly route. | Appl. Nanosci., 1, 103, 2011, 2190-5517. | R. Ravindra and Badekai Ramachandra Bhat. |
| 36. | " Crystallinity, magnetic and electrochemical studies of PVDF/Co ₃ O ₄ polymer electrolyte", | Materials Science and Engineering B, 2012, 177(2) 127-131. | Aarti Sripathi Bhatt and Denthaje Krishna Bhat |

| | | | |
|-----|---|--|--|
| 37. | "Influence of nanoscale NiO on magnetic and electrochemical behavior of PVDF based polymer nanocomposites." | Polym. Bull. 2012, 68, 253–261. | A. S. Bhatt, D. K. Bhat. |
| 38. | 'Electrochemical properties of Co ₃ O ₄ - chitosan nano composite films' | J Electroanalytical Chemistry, 2011, 657, 135–143 | Aarti Sripathi Bhatt, Denthaje Krishna Bhat*, Mysore Sridhar Santosh |
| 39. | Chitosan/nio nanocomposites: potential new dielectric material' | a J. Mater. Chem., 2011, 21(35), 13490-97. | Aarti Sripathi Bhatt, Denthaje Krishna Bhat, Mysore Sridhar Santosh, Cheuk-wai Tai. |
| 40. | Solute-Solvent Interactions: Acoustical and Molecular Dynamics Perspective." | J. Solution Chem. 2011, 40, 1657–1671 | Santosh, M.S., Bhat, D.K. |
| 41. | New polypropylene supported chitosan NF-membrane for desalination application | Desalination, 280, 1-3, 419-423, 2011 | Mahesh Padaki, Arun M. Isloor, Jenifer Fernandes, K. Narayan Prabhu |
| 42. | Conversion of microfiltration membrane into nanofiltration membrane by vapour phase deposition of aluminium for desalination application | Desalination, 274, 1-3, 177-181, 2011 | Mahesh Padaki, Arun M. Isloor, K.K. Nagaraja, H.S. Nagaraja, Manjunatha Pattabi |
| 43. | Polysulfone/N-phthaloylchitosan novel composite membranes for salt rejection application | Desalination, 279, 1-3, 409-414, 2011 | Mahesh Padaki, Arun M. Isloor, Pkul Wanichapichart |
| 44. | Synthesis of some new pyrazolone derivatives as potent antimicrobial agents | Der Pharma Chemica, 3,4, 454-463, 2011 | A.M. Vijesh, Arun M. Isloor, S. Isloor, K.N. Shivananda, P.C. Shyma, T. Arulmoli |
| 45. | Hantzsch reaction: Synthesis and characterization of some new 1,4-dihdropyridine derivatives as potent antimicrobial and antioxidant agents | European Journal of Medicinal Chemistry, 46, 11, 5591–5597, 2011 | A.M. Vijesh, Arun M. Isloor, S.K. Peethambar, K.N. Shivananda, T. Arulmoli, Nishitha A. Isloor |
| 46. | Molecular docking studies of some new imidazole derivatives for antimicrobial properties | Arabian Journal of Chemistry, doi:10.1016/j.arabjc.2011.10.007 | A.M. Vijesh, Arun M. Isloor, Sandeep Telkar, T. Arulmoli |
| 47. | Synthesis, characterization and antibacterial activity of some new pyrazole based Schiff bases | Arabian Journal of Chemistry, Available online 15 October 2011 | Shridhar Malladi, Arun M. Isloor, Shrikrishna Isloor, D.S. Akhila |

| | | | |
|-----|--|---|--|
| 48. | Synthesis, characterization and antimicrobial studies of some new pyrazole incorporated imidazole derivatives | European Journal of Medicinal Chemistry, 46, 8, 3531–3536, 2011 | A.M. Vijesh, Arun M. Isloor, Sandeep Telkar, S.K. Peethambar, Sankappa Rai, Nishitha Isloor |
| 49. | Synthesis and anti-inflammatory evaluation of some new 3,6-disubstituted-1,2,4-triazolo-[3,4-b]-1,3,4-thiadiazoles bearing pyrazole moiety | Medicinal Chemistry Research, DOI 10.1007/s00044-011-9865-0, 2011 | Shridhar Malladi, Arun M. Isloor, Prashanth Shetty, Hoong Kun Fun, Sandeep Telkar, Riaz Mahmood, Nishitha Isloor |
| 50. | Synthesis and antimicrobial activity of some new pyrazole containing cyanopyridone derivatives | Der Pharma Chemica, 4, 1, 43-52, 2012 | Shridhar Malladi, Arun M Isloor, Peethambar S. K, Ganesh B. M, Palusa SanathKumar Goud. |
| 51. | Synthesis, characterization and antimicrobial activity of novel ethyl 1-(N-substituted)-5-phenyl-1H-pyrazole-4-carboxylate derivatives | Medicinal Chemistry Research, DOI 10.1007/s00044-011-9796-9, 2011 | B. Chandrakantha, Arun M. Isloor, Prakash Shetty, Shrikrishna Isloor, Shridhar Malladi, Hoong Kun Fun |
| 52. | 2-(4-Chlorophenyl)-2-oxoethyl 3,4-dimethoxybenzoate | Acta Crystallographica Section E, E67, 3351, 2011 | H.-K. Fun, C. K. Quah, A. M. Vijesh, A. M. Isloor and T. Arulmoli |
| 53. | 2-(4-Chloroanilino)-1-(4-chlorophenyl)ethanone | Acta Crystallographica Section E, E67, 3373, 2011 | H.K. Fun, C. K. Quah, A. M. Vijesh, A. M. Isloor and T. Arulmoli |
| 54. | Diethyl 4-[5-(biphenyl-4-yl)-1H-pyrazol-4-yl]-2,6-dimethyl-1,4-dihydropyridine-3,5-dicarboxylate ethanol monosolvate | Acta Crystallographica Section E, E67, 1768-1769, 2011 | H.K. Fun, M. Hemamalini, A.M. Vijesh, Arun M. Isloor, T. Arulmoli |
| 55. | 2-(4-Chlorophenyl)-2-oxoethyl 2,4-difluorobenzoate | Acta Crystallographica Section E, E67, 1599, 2011 | Hoong-Kun Fun, SuhanaArshad, B. Garudachari,Arun M. Isloor and M. N. Satyanarayan |
| 56. | 2-(4-Bromophenyl)-2-oxoethyl 4-chlorobenzoate | Acta Crystallographica Section E, E67, 1723, 2011 | Hoong-Kun Fun, Chin Sing Yeap, B. Garudachari,Arun M. Isloor and M. N. Satyanarayan |
| 57. | 2-(4-Chlorophenyl)-2-oxoethyl benzoate | Acta Crystallographica Section E, E67, 1802, 2011 | Hoong-Kun Fun, Tara Shahani, B. Garudachari,Arun M. Isloor and M. N. Satyanarayan |

| | | | |
|-----|---|--|---|
| 58. | 2-(4-Chlorophenyl)-2-oxoethyl-3-(trifluoromethyl)benzoate | Acta Crystallographica Section E, E67, 1597, 2011 | Hoong-Kun Fun, Wan-Sin Loh, B. Garudachari, Arun M. Isloor and M. N. Satyanarayan |
| 59. | 2-(4-Chlorophenyl)-2-oxoethyl-2-methoxybenzoate | Acta Crystallographica Section E, E67, 1687, 2011 | Hoong-Kun Fun, SafraIzuaniJamaAsik, B. Garudachari, Arun M. Isloor and M. N. Satyanarayan |
| 60. | 2-(4-Bromophenyl)-2-oxoethyl 2-methoxybenzoate | Acta Crystallographica Section E, E67, 1724, 2011 | Hoong-Kun Fun, ChingKhengQuah, B. Garudachari, Arun M. Isloor and M. N. Satyanarayan |
| 61. | 2-(4-Bromophenyl)-2-oxoethyl-4-hydroxybenzoate | Acta Crystallographica Section E, E67, 2854, 2011 | Hoong-Kun Fun, Wan-Sin Loh, B. Garudachari, Arun M. Isloor and M. N. Satyanarayana |
| 62. | 2-(4-Fluorophenyl)-2-oxoethyl-3-(trifluoromethyl)benzoate | Acta Crystallographica Section E, E67, 2836, 2011 | Hoong-Kun Fun, SuhanaArshad, B. Garudachari, A. M. Isloor and Kammasandra N Shivananda |
| 63. | 2-(4-Bromophenyl)-2-oxoethyl-4-methoxybenzoate | Acta Crystallographica Section E, E67, o1529, 2011 | Hoong-Kun Fun, Wan-Sin Loh, B. Garudachari, Arun M. Isloor and M. N. Satyanarayan |
| 64. | 2-(4-Fluorophenyl)-2-oxoethyl 4-methoxybenzoate | Acta Crystallographica Section E, E67, o3456, 2011 | Hoong-Kun Fun, Wan-Sin Loh, B. Garudachari, Arun M. Isloor and M. N. Satyanarayan |
| 65. | Ethyl 1-(2,4-dichlorobenzyl)-4-oxo-7-trifluoromethyl-1,4-dihydroquinoline-3-carboxylate | Acta Crystallographica Section E, E68, 435–436, 2012 | Hoong-Kun Fun, Chin Wei Ooi, B. Garudachari, Arun M. Isloorb and GurumurthyHegde |
| 66. | 2-(4-Bromophenyl)-2-oxoethyl 2-methylbenzoate | Acta Crystallographica Section E, E67, o3119, 2011 | Hoong-Kun Fun, Chin Wei Ooi, B. Garudachari, Arun M. Isloor and M. N. Satyanarayan |
| 67. | 2-(4-Bromophenyl)-2-oxoethyl 4-methylbenzoate | Acta Crystallographica Section E, E67, o3154, 2011 | Hoong-Kun Fun, Tara Shahani, B. Garudachari, Arun M. Isloor and M. N. Satyanarayan |
| 68. | 4-(4-Methylpiperazin-1-yl)-3-(5-phenyl-1,3,4-oxadiazol-2-yl)-7-(trifluoromethyl)quinoline | Acta Crystallographica Section E, E67, o3117–o3118, 2011 | Hoong-Kun Fun, SuhanaArshad, B. Garudachari, Arun M. Isloor and M. N. Satyanarayan |

| | | | |
|-----|--|--|--|
| 69. | 2-(4-Chlorophenyl)-2-oxoethyl 4-methylbenzoate | Acta Crystallographica Section E, E67, o3030, 2011 | Hoong-Kun Fun, Wan-Sin Loh, B. Garudachari, Arun M. Isloor and M. N. Satyanarayana |
| 70. | 2-(4-Fluorophenyl)-2-oxoethyl 2-methoxybenzoate | Acta Crystallographica Section E, E68, o513, 2012 | Arun M. Isloor, B. Garudachari, M. N. Satyanarayana, Thomas Gerber, Eric Hosten and Richard Betz |
| 71. | Diethyl 2-{[2-(trifluoromethyl)anilino]-methylidene}propanedioate | Acta Crystallographica Section E, E68, o514–o515, 2012 | B. Garudachari, Arun M. Isloor, M. N. Satyanarayana, Thomas Gerber, Eric Hosten and Richard |
| 72. | 1-Cyclohexyl-5-(4-methoxyphenyl)-1Hpyrazole-4-carboxylic acid | Acta Crystallographica Section E, E67, o3513, 2011 | Hoong-Kun Fun, Ching Kheng Quah, B. Chandrakantha, A. M. Isloor and Prakash Shetty |
| 73. | 2,6-Dichloro-3-nitropyridine | Acta Crystallographica Section E, E67, o1785, 2011 | Hoong-Kun Fun, Suhana Arshad, B. Chandrakantha, Arun M. Isloor and Prakash Shetty |
| 74. | 4-(o-Tolyl)piperazin-1-i um chloride | Acta Crystallographica Section E, E67, o3115, 2011 | Hoong-Kun Fun, Safra Izuani Jama Asik, B. Chandrakantha, Arun M. Isloor and Prakash Shetty |
| 75. | Ethyl 1-cyclohexyl-5-(4-methoxyphenyl)-1H-pyrazole-4-carboxylate | Acta Crystallographica Section E, E67, o3460–o3461, 2011 | Hoong-Kun Fun, Ching Kheng Quah, B. Chandrakantha, A. M. Isloor and Prakash Shetty |
| 76. | 4-(3-Chlorophenyl)-3-[(2,6-difluorobenzyl) sulfanyl]-5-(3,4,5-trimethoxyphenyl)-4H-1,2,4-triazole | Acta Crystallographica Section E, E67, o3422–o3423, 2011 | Hoong-Kun Fun, Safra Izuani Jama Asik, B. Chandrakantha, Arun M. Isloor and Prakash Shetty |
| 77. | 4-(4-Bromophenyl)-1-(2,6-difluorobenzyl)-3-(3,4,5-trimethoxyphenyl)-1H-1,2,4-triazole-5(4H)-thione | Acta Crystallographica Section E, E68, o89, 2012 | Hoong-Kun Fun, Chin Wei Ooi, B. Chandrakantha, Arun M. Isloor and Prakash Shetty |
| 78. | Diethyl 4-[2-(4-methoxyphenyl)-1Hpyrazol-3-yl]-2,6-dimethyl-1,4-dihydropyridine-3,5-dicarboxylate | Acta Crystallographica Section E, E67, o1417–o1418, 2011 | Hoong-Kun Fun, Madhukar Hemamalini, A. M. Vijesh, A. M. Isloor and Shridhar Malladi |
| 79. | (E)-1-(2,4-Dichlorophenyl)-3-(1,3-diphenyl-1H-pyrazol-4-yl)prop-2-en-1-one | Acta Crystallographica Section E, E67, o3102–o3103, 2011 | Hoong-Kun Fun, Ching Kheng Quah, Shridhar Malladi, Arun M. Isloor and Kammasandra N. Shivananda |

| | | | |
|-----|---|--|--|
| 80. | 4-(1,3-Diphenyl-4,5-dihydro-1H-pyrazol-5-yl)-1,3-diphenyl-1H-pyrazole | Acta Crystallographica Section E, E67, o2822–o2823, 2011 | Hoong-Kun Fun, Tze Shyang Chia, Shridhar Malladi, Arun M. Isloor and Kammasandra N. Shivananda |
| 81. | (2E)-2-(4-Fluorobenzylidene)-hydrazinecarboxamide | Acta Crystallographica Section E, E67, o2885–o2886, 2011 | Hoong-Kun Fun, Tze Shyang Chia, Shridhar Malladi, Arun M. Isloor and Kammasandra N. Shivananda |
| 82. | (E)-1-(2,4-Dichlorophenyl)-3-[3-(4-methoxyphenyl)-1-phenyl-1H-pyrazol-4-yl]-prop-2-en-1-one | Acta Crystallographica Section E, E67, o3105, 2011 | Hoong-Kun Fun, Ching Kheng Quah, Shridhar Malladi, Raghavendra Hebbar and Arun M. Isloor |
| 83. | (E)-3-[3-(4-Bromophenyl)-1-phenyl-1Hpyrazol-4-yl]-1-(2,4-dichlorophenyl)-prop-2-en-1-one | Acta Crystallographica Section E, E67, o3104, 2011 | Hoong-Kun Fun, Ching Kheng Quah, Shridhar Malladi, Arun M. Isloor and Kammasandra N. Shivananda |
| 84. | N-[(E)-(3-Phenyl-1H-pyrazol-4-yl)-methylidene]naphtho[2,1-b]furan-2-carbohydrazide monohydrate | Acta Crystallographica Section E, E67, o3471–o3472, 2011 | Hoong-Kun Fun, Wan-Sin Loh, Shridhar Malladi, B. M. Ganesh and Arun M. Isloor |
| 85. | 4-{[(E)-(3-Phenyl-1H-pyrazol-4-yl)-methylidene]amino}-1H-1,2,4-triazole-5(4H)-thione | Acta Crystallographica Section E, E67, o1944, 2011 | Hoong-Kun Fun, Madhukar Hemamalini, Shridhar Malladi and Arun M. Isloor |
| 86. | 3-(4-Chlorophenyl)-1-phenyl-1Hpyrazole-4-carbaldehyde | Acta Crystallographica Section E, E67, o1783–o1784, 2011 | Hoong-Kun Fun, Suhana Arshad, Shridhar Malladi, R. Selvam and Arun M. Isloor |
| 87. | (2E)-3-(1,3-Diphenyl-1H-pyrazol-4-yl)-1-phenylprop-2-en-1-one | Acta Crystallographica Section E, E67, o1745–o1746 | Hoong-Kun Fun, Madhukar Hemamalini, Shridhar Malladi, Pradeep Poojari and Arun M Isloor |
| 88. | (E)-2-(4-Hydroxy-3-methoxybenzylidene)hydrazinecarboxamide | Acta Crystallographica Section E, E67, o1786, 2011 | Hoong-Kun Fun, Chin Sing Yeap, Shridhar Malladi and Arun M. Isloor |
| 89. | 4-[3-(Biphenyl-4-yl)-1-phenyl-4,5-dihydro-1H-pyrazol-5-yl]-3-(4-methoxyphenyl)-1-phenyl-1H-pyrazole dioxane monosolvate | Acta Crystallographica Section E, E68, o972–o973, 2012 | Hoong-Kun Fun, Suhana Arshad, Shridhar Malladi, Arun M. Isloor and Kammasandra Nanjunda Shivananda |
| 90. | Dimethyl 2,6-dimethyl-4-(3-phenyl-1Hpyrazol-4-yl)-1,4-dihdropyridine-3,5-dicarboxylate | Acta Crystallographica Section E, E68, o922–o923, 2012 | Hoong-Kun Fun, Suhana Arshad, Shridhar Malladi, Kammasandra Nanjunda Shivananda and Arun M. Isloor |

| | | | |
|-----|---|--|--|
| 91. | 2-[(E)-4-Diethylamino-2-hydroxybenzylidene]hydrazinecarboxamide | Acta Crystallographica Section E, E68, o380, 2012 | Hoong-Kun Fun, Chin Wei Ooi, Shridhar Malladi, Arun M. Isloor and Kammasandra N. Shivananda |
| 92. | (2E)-1-(2,4-Dichlorophenyl)-3-[3-(4-nitrophenyl)-1-phenyl-1H-pyrazol-4-yl]-prop-2-en-1-one | Acta Crystallographica Section E, E68, o616-o617, 2012 | Arun M. Isloor, Shridhar Malladi, Thomas Gerber, Benjamin van Brecht and Richard Betz |
| 93. | Diethyl 2,6-dimethyl-4-(5-phenyl-1Hpyrazol-4-yl)-1,4-dihdropyridine-3,5-dicarboxylate | Acta Crystallographica Section E, E68, o892-o893, 2012 | Hoong-Kun Fun, Chin Wei Ooi, Shridhar Malladi, K. N. Shivananda and Arun M. Isloor |
| 94. | Diethyl 4-[5-(4-chlorophenyl)-1Hpyrazol- 4-yl]-2,6-dimethyl-1,4-dihdropyridine-3,5-dicarboxylate | Acta Crystallographica Section E, E68, o1289-o1290, 2012 | Hoong-Kun Fun, Wan-Sin Loh, A. M. Vijesh, Arun M. Isloor and Shridhar Malladi |
| 95. | 4-(1,3-Diphenyl-4,5-dihydro-1H-pyrazol-5-yl)-1,3-diphenyl-1H-pyrazole | Acta Crystallographica Section E, E67, o2822-o2823, 2011 | Hoong-Kun Fun, Tze Shyang Chia, Shridhar Malladi, Arun M. Isloor and Kammasandra N. Shivananda |
| 96. | (2E)-2-(4-Fluorobenzylidene)hydrazinecarboxamide | Acta Crystallographica Section E, E67, o2885-o2886, 2011 | Hoong-Kun Fun, Tze Shyang Chia, Shridhar Malladi, Arun M. Isloor and Kammasandra N. Shivananda |
| 97. | Synthesis and characterization of thiophene and fluorene based donor-acceptor conjugated polymer containing 1,3,4-oxadiazole units for light-emitting diodes. | Tetrahedron Letters, 2012, 53 (2), 157-161. | M.G. Murali, P. Naveen, D. Udayakumar, Vandana Yadav, Ritu Srivastava. |

*Note: Papers with multiple authors from the same Department must be listed only once

Department of Electronics and Communication Engineering

| Sl. No. | Title of paper | Journal Name, Vol., Issue, Page Nos. | Author(s)* |
|---------|--|--|--|
| 1. | Design and construction of BCH codes for enhancing data integrity in multilevel flash memories | International Journal of Information and Communication Technology, Vol.4, No.1, Jan – Feb 2012, pp. 40-60, Indoscience | Rajesh Shetty K K Ramakrishna Prashantha Kumar H Sripati U |
| 2. | Optimal Path Energy Efficient Routing Algorithm for Wireless Sensor Networks | CiiT International Journal of Networking and Communication Engineering, Issue: Feb.2011. | K.S. Shivaprakasha, Muralidhar Kulkarni, Pravin Kumar and Santosh Kumar Singh |
| 3. | Efficient Distributed Video Coding based on principle of syndrome coding | International Journal of Signal and Imaging Systems Engineering 2011 - Vol. 4, No.4 pp. 212 - 219, DOI:10.1504/IJSISE.2011.044533 | Aparna P. Sumam David S. |

| | | | |
|----|--|---|---|
| 4. | Energy Efficient Routing Protocols for Wireless Sensor Networks: A Survey | International Review on Computers and Software (IRECOS), Nov.2011 | K.S. Shivaprakasha Muralidhar Kulkarni |
| 5. | High-speed and parallel approach for decoding of binary BCH codes with application to Flash memory devices | International Journal of Electronics, 2011, 1–11, Taylor and Francis | H. Prashantha Kumar U. Sripati K. Rajesh Shetty |
| 6. | Minimization of Via-Induced Signal Reflection in On-Chip High Speed Interconnect Lines | Journal of Circuits, Systems, and Signal Processing, Springer, July, 2011 | K. Soorya Krishna M. S. Bhat |

Department of Electrical and Electronics Engineering

| Sl. No. | Title of paper | Journal Name, Vol., Issue, Page Nos. | Author(s)* |
|---------|---|--|---|
| 1 | "An integrated adaptive distance relaying scheme in series compensated transmission lines", | Journal of Electrical Engineering, Romania: Volume 11 / 2011 - Edition : 1, Article:11.1.16. | S.G.Srivani and K.P.Vittal |
| 2 | "Implementation of turbine emulator", | Journal of Electrical Engineering, Romania: Volume 11 / 2011 - Edition : 2, Article:11.2.11. | Vinatha U, Vittal K P |
| 3 | "Simulation studies on the distance relay performance in the presence of STATCOM", | Journal of Electrical Engineering, Romania: Volume 11 / 2011 - Edition : 3, Article:11.3.3 | Sham M.V, Panduranga vittal K, |
| 4 | "Comprehensive Study of Mixed Eccentricity Fault Diagnosis in Induction Motors Using Signature Analysis", | International Journal of Electrical Power & Energy Systems (IJPES) 35 (2012), ELSEVIER, VOL. 35, ISSUE 1, February, 2012, pp. 180-185. | B.L. Rajalakshmi Samaga, K.P.Vittal, |
| 5 | Rural Electrification in India and feasibility of Photo voltaic Solar Home Systems | International Journal of Electrical Power and Energy Systems (IJEPE), Elsevier, Vol.33, Issue 3, 594-599.March 2011 | Udaykumar.R. Y, Kamalapur. G. D |
| 6 | <u>Rural Electrification in the Changing paradigm of Power Sector Reforms in India</u> | International Journal of Electrical and Computer Engineering,(IJECE) Vol.2,Issue 2,2012 Feb 2012 | Udaykumar.R. Y, Kamalapur. G. D |
| 7 | People's participation in rural electrification -a successful case | Journal on Energy Systems Springer,Vol.1, Issue 2. Dec 2011 | Udaykumar.R. Y, Kamalapur. G. D |
| 8 | Synchronized Symmetrical Bus-Clamping PWM Strategies for Three Level Inverter:Applications to Low Switching Frequencies | <i>International Journal of Emerging Electric Power Systems</i> , Vol.12, Issue-2, Article-7, pp. 1-18, May 2011 | Udaykumar. R.Y., Sreenivasappa. B.V.,Abdul Rahiman Beig |
| 9 | Modelling of power generation using Municipal Solid Waste in India | International Journal of Electrical and Computer Engineering, Vol.2, No.2, April 2012 | Udaykumar R. Yaragatti and S. B. Karajgi |
| 10 | "Indirect Effects of Lightning Discharges," | Serbian Journal of Electrical Engineering, Vol.8, No.3, November 2011, 245-262. | Gururaj S Punekar, Chandrasekaran Kandasamy |

| | | | |
|----|--|--|---|
| 11 | Modeling and Performance Analysis of Solid Oxide Fuel Cell Based Distributed Generation System | International Energy Journal Vol. 12, No.2 June 2011 pp 123-134 | B.K. Singh, D. N. Gaonkar, R. S. Aithal |
| 12 | Voltage control in the distribution system using reactive power participation factor of distributed generators | International Journal of Distributed Energy Resources, vol 7, no.3, pp. 217-228, 2011. | R.Shivarudraswamy and D.N.Gaonkar |

Department of Humanities, Social Sciences and Management

| Sl. No. | Title of paper | Journal Name, Vol., Issue, Page Nos. | Author(s)* |
|---------|--|--|--|
| 1. | MBNQA – A Strategic Instrument for Measuring Performance in Healthcare Organizations: An Empirical Study | ZENITH International Journal of Multidisciplinary Research, Vol.1, Issue 5, 2011 | D'Souza Sunil and Sequeira A.H. |
| 2. | Service Quality oriented customer-centric Retail Strategy for Indian Supermarket Retailers | International Journal of Marketing and Business Communication, Vol.1, Issue 1, pp11-17, January 2012 | Seema S Shenoy, Sequeira A. H and Devaraj K. |
| 3. | A New Paradigm for Supermarket Retailers Based on Customer-Centric Retail Strategic Approach | Manager, No.14- 2011, pp238-48, November 2011 | Seema S Shenoy, Sequeira A. H and Devaraj K. |

Department of Information Technology

| Sl. No. | Title of paper | Journal Name, Vol., Issue, Page Nos. | Author(s)* |
|---------|---|---|--|
| 1 | “Automatic Shadow Removal Algorithm for VOP, DWT Based Watermarking Algorithm for VOP and Generation of Super-Resolved VOP” | International Journal of Multimedia and Ubiquitous Engineering, Vol. 6, No. 3, July, 2011 | Alwyn Roshan Pais, John D'Souza, Rama Mohana Reddy and P. Hari Krishna |
| 2 | “Efficient Video Copy Detection Using Simple and Effective Extraction of Color Features” | Springer Lecture Notes series-LNCS- CCIS 193, Part IV, pp. 473-480. | R. Roopalakshmi, G. Ram Mohana Reddy |
| 3 | “A Novel Approach to Video Copy Detection Using Audio Fingerprints and PCA” | ELSEVIER Journal on Procedia Computer Science Vol 5, Pg 149-156, September 2011 | R. Roopalakshmi, G. Ram Mohana Reddy |
| 4 | “An Efficient Mining of Dominant Entity Based Association Rules in Multi-Databases” | International Journal on Communications in Computer and Information Science (CCIS), Vol. 154, Springer-Verlag Heidelberg 2011, pg 91 – 100, May 2011. | Ananthanarayana V.S. |
| 5 | “Service Offer Driven | International Journal of Web | Demian Antony D'Mello, |

| | | | |
|----|--|--|--|
| | Dynamic Selection Mechanism for Web Services" | Sciences (IJWS), August 2011. | Ananthanarayana V.S |
| 6 | "Towards optimizing the average journey time in a city" | International Journal on Computer Sciences and Technologies, May 2011. | Prakash Raghavendra and Miki Padhiary |
| 7 | "Web usage classification using Neural Networks and K-Means Classifiers" | International Journal of Multimedia and Image Processing (IJMIP), Volume 1, Issue 1, ISSN 2042 4647, May 2011. | Prakash Raghavendra, Shreya Roy Chowdhury, Srilekha Vedula |
| 8 | "CSPR: Column only Sparse Matrix Representation for Performance Improvement on GPU Architecture" | Lecture Notes in Computer Science (LNCS) on Parallel and Distributed Computing Technologies and Applications, Sept 2011. | Neelima Reddy, Prakash Raghavendra |
| 9 | "Semantic Web - Applications, Challenges and Directions", | International Journal of Innovative Research in Science and Technology, Jan-June 2012 issue. | Sowmya Kamath, Prakash Raghavendra |
| 10 | "Heterogeneous Highly Parallel Implementation of Matrix Exponentiation Using GPUs" | International Journal of Distributed and Parallel Systems", Vol 3, No. 2, March 2012 issue. | C. Vasanth Raja, Srinivas B, Prakash Raghavendra |

Department of Mathematical And Computational Sciences

| Sl. No. | Title of paper | Journal Name, Vol., Issue, Page Nos. | Author(s)* |
|---------|---|--|--|
| 1 | Further results on proper and strong set colorings of graphs | Australian Journal of Combinatorics, 52 (2012), 55-65. | S. M. Hegde and Sumana M.K. |
| 2 | Further results on harmonious colorings of digraphs | AKCE Int. J. Graphs and Combinatorics, 8(2), (2011), 151-159. | S. M. Hegde and Lolita Priya Castelino. |
| 3 | Further Results on Super Edge-Magic Deficiency of Graph | ARS Combinatoria, 99 (2011), 487-502. | S. M. Hegde, Sudhakar Shetty and P.Shankaran |
| 4 | Symmetric multistep Obrechkoff methods with zero phase-lag for periodic initial value problems of second order differential equations | Applied Mathematics and Computation, 218 (2011), 2237-2248 | Sujatha D. Achar |
| 5 | On the Reliability of Eddy Viscosity Based Turbulence Models in Predicting Turbulent Flow past a Circular Cylinder Using URANS Approach | Journal of Applied Fluid Mechanics, Vol. 5, No. 1, 1, 2012, pp 67-79 | B.N. Rajani, A. Kandasamy and S. Majumdar |
| 6 | Adaptive Multi-model Biometric Fusion for Digital Watermarking. | IJCSI, Vol.8, 3 No.2, 2011, pp. 282-289. | P.Jidesh, and S.George |
| 7 | A Regularized Dynamical System Method for Nonlinear | J. Appl. Math. Bioinf, Vol.1, no.1, 2011, pp.65-78. | Santhosh George and M. E. Shobha |

| | | | |
|----|--|--|------------------------------|
| | ill-posed Hammerstein Type Operator Equations | | |
| 8 | Curvature Driven Diffusion Coupled with Shock for Image Enhancement/ Reconstruction | Int. J. of Signal and Imaging Systems Engineering, Vol.4, No.4, 2011, pp. 238-247. | P. Jidesh and S. George |
| 9 | Fourth-order variational model with local-constraints for denoising images with textures | In.J. Computational Vision and Robotics , vol.2, No.4, 2011, pp. 330-340. | P. Jidesh and S. George |
| 10 | A time-dependent switching anisotropic diffusion model for denoising and deblurring images | Journal of Modern Optics, Vol.59, No.2, 2012, pp.140-156 | P. Jidesh and S. George |
| 11 | Reconstruction of signals by standard Tikhonov method, | Applied Mathematical Sciences, Vol. 5, No.57, 2011, pp. 2819-2829. | S.George and P. Jidesh |
| 12 | On Linear Operators with Closed Range | Journal of Applied Mathematics and Bioinformatics, Vol.1, No.2, 2011, 175-182. | P. Sam Johnson and S. Balaji |

Department of Mechanical Engineering

| Sl. No. | Title of paper | Journal Name, Vol., Issue, Page Nos. | Authors |
|---------|---|--|--|
| 1 | Experimental study on cooling rate of centrifugal casting based on grain size | International Journal of Scientific & Engineering Research (IJSER), Volume 3, Issue 1, January 2012 (ISSN 2229-5518) | S Madhusudan, Mohan Kumar G C And S Narendranath |

Department of Mining Engineering

| Sl. No. | Title of paper | Journal Name, Vol., Issue, Page Nos. | Author(s)* |
|---------|--|---|---|
| 1 | “Sound level produced during rock drilling vis-à-vis rock properties”; Engineering Geology; | Elsevier; Vol.123(4), pp. 333-337. | Rajesh Kumar, B., Vardhan, H. and Govindaraj, M(2011) |
| 2. | “An experimental study and analytical approach for estimating rock properties using sound levels from drilling” | Exploration and Production: Oil and Gas Review; Vol. 9(2); pp. 25-28. | Vardhan, H. and Badal Yadav (2011) |
| 3. | “Land use land cover changes in East Singhbhum mineralized zone: a case study”; | Disaster Advances; Vol. 4(4); pp. 5-10. | Kashinath Pal, Deb, D., Vardhan, H., Aruna, M. and Samanta, B. (2011) |
| 4. | “Prediction of uniaxial compressive strength, tensile strength and porosity of sedimentary rocks using sound level produced during rotary drilling”; | Rock Mechanics and Rock Engineering; Vol.44(5), pp. 613-620. | Rajesh Kumar, B., Vardhan, H. and Govindaraj, M. (2011) |

| | | | |
|----|---|---|---|
| 5. | "A new approach for estimation of properties of metamorphic rocks"; International Journal of Mining and Mineral Engineering | International Journal of Mining and Mineral Engineering; Vol.3(2); pp. 109-123 | Rajesh Kumar, B., Vardhan, H. and Govindaraj, M. (2011) |
| 6. | "Case Study of a Hybrid (Wind and Solar) Power Plant", | Scientific Journal of Telkomnika, Indonesia, Vol. 9, No. 1, April, pp 19-26. | Sunil M Jaralikar & Mangalpady Aruna, (2011) |
| 7 | "Study of Performance of a Power Station for Operational Optimization", | International Journal of Electrical and Computer Engineering (IJECE), Vol. 2, No. 1, February, pp 17-25 | Sunil M Jaralikar & Mangalpady Aruna (2012) |
| 8 | "Performance and Emission Characteristics of Stationary C.I Engine with Cardnol Bio fuel Blends" | International Journal of Scientific and Engineering Research, Issue 4, April 2011. | Mallikappa, R. P. Reddy and Ch. S. N. Murthy, April 2011 |
| 9 | "A Comprehensive Assessment of Increased Iron Ore Production on the Environment - A Case Study", | International Journal of Earth Sciences and Engineering, Vol. 4, No. 2, April 2011. Pg 317 to 327 | Shanth A. Thimmaiah, Y. Venkateshwara Rao and Ch. S. N. Murthy-2011 |

Department of Metallurgical And Materials Engineering

| Sl. No. | Title of paper | Journal Name, Vol., Issue, Page Nos. | Author(s)* |
|---------|--|---|--|
| 1 | Effect of current density on deposit characters of Zn-Co alloy and their corrosion behaviour | Synthesis and Reactivity in Inorganic, Metal-Organic and Nanochemistry, No.41, Issue-7, 2011, pp 1-7 | S. Yogesha K. Udaya Bhat A. Chitharanjan Hegde |
| 2 | Wear Studies On Wrought and Heat Treated Nimonic, Titanium and Superco Super Alloys | Int J of Applied Sciences and Engineering Research (IJASER), February- May ,2011- Volume 1 Issue 1, 2012, pp106-117 | Jegadeeswaran, Ramesh, Udaya Bhat K |
| 3 | Characterization of poly(ethylene-co-vinyl acetate-co-carbon monoxide)/layered silicate clay hybrids obtained by melt mixing | Journal of Materials Science, xx, xxx (2011). | S. Anandhan, Harsha G. Patil, R. Rajesh Babu |
| 4 | A new processing additive for natural rubber from agricultural waste | Kautschuk Gummi Kunststoffe, 64, 44 (2011). | S. Anandhan, C. Jeevan Viknesh, N.Othman and S. Sasidharan |
| 5 | Influence of Ti, B and Sr on the microstructure and mechanical properties of A356alloy" | Matls. Science, 46 (6), 2011 | K. Rajendra Udupa D.G.Mallapur |
| 6 | Role of zirconia filler on friction and dry sliding wear behavior of bismaleimide nanocomposite | Materials and Design, May 2011, 32 (5), 2644-2649 | R. V. Kurahatti, A. O. Surendranathan, S. Srivastava, N. Singh, A.V. Ramesh Kumar, B. Suresha |

| | | | |
|----|---|---|---|
| 7 | Enhancement of heat transfer characteristics of transformer oil by addition of aluminum nanoparticles | Journal of ASTM International, vol. 8 (2), 2011 Paper ID: JAI103354 | E. Rajesh , K.N.Prabhu |
| 8 | Comparison of Grossmann and Lumped Heat Capacitance Methods for Assessment of Heat Transfer Characteristics of Quench Media | International Journal of Heat Treatment and Surface Engineering, vol. 5(1), 2011, 41-46. | I. Ali, K. N. Prabhu |
| 9 | Corrosion inhibition of 6061 Al-15 vol. pct. SiC(p) composite and its base alloy in a mixture of sulphuric acid and hydrochloric acid by 4-(N,N-dimethylamino) benzaldehyde thiosemicarbazone | Materials Chemistry and Physics, 125 (2011) 628 – 640 | Geetha Mable Pinto, Jagannath Nayak, A. Nityananda Shetty |
| 10 | Adsorption and inhibition action of 4-(N, N-dimethylamino) benzaldehyde thiosemicarbazone on 6061 Al/SiC composite and its base alloy in sulphuric acid medium | 41: 127-140 (2011), Synthesis and Reactivity in Organic, metal-organic and Nano-metal chemistry | Geetha Mable Pinto, Jagannath Nayak, A. Nityananda Shetty |
| 11 | Mechanical Properties Of Fly Ash Reinforced Aluminium Alloy (Al6061) Composites | Mechanical and Materials Engineering (IJMME), Vol.6 (2011), No.1, 41-45 | H.C. Anilkumar, H.S. Hebbar, K.S. Ravishankar |
| 12 | Review of thermo-physical properties, wetting and heat transfer characteristics of nanofluids and their applicability in industrial quench heat treatment | Nanoscale Research Letters, 2011, 6:334 | G. Ramesh, K.N.Prabhu |
| 13 | Preparation, characterization and performance study of Poly (isobutylene-altmaleicanhydride) [PIAM] and Polysulfone [PSf] composite membranes before and after alkali treatment | Ind. Eng. Chem. Res. 2011, 50, 6528–6534. | Mahesh Padaki, Arun M Isloor, Ganesh Belavadi, K.N.Prabhu |
| 14 | Deformation of Al-5Zn-1Mg in the temperature range of 303-673K | International Journal of Engineering Sciences and Management, ISSN No.2231-3273, 1(4) July-Dec 2011, pp.18-22 | Rijesh M., James Valder, Geethalakshmi K., A. O. Surendranathan |
| 15 | Characterization of poly(ethylene- <i>co</i> -vinyl acetate- <i>co</i> -carbon monoxide)/layered silicate clay hybrids obtained by melt mixing | Journal of Materials Science, vol. 46, 7423-7430, September 2011 | S. Anandhan, Harsha G. Patil, R. Rajesh Babu |
| 16 | Wetting behaviour and Interfacial microstructure of Sn-Ag-Zn solders on Ni coated Al substrates | Materials Science and Technology, 2011 27 (7) 1157-1162 | Satyanarayan, K.N.Prabhu |
| 17 | Effect of modification melt treatment and chilling on eutectic arrest temperature and time during solidification of A357 alloy | Materials Science and Technology, 2011 27 (8) 1353-1356. | K.N.Prabhu S. Hegde |
| 18 | Reactive wetting, evolution of interfacial and bulk IMCs and their effect on mechanical properties of eutectic Sn-Cu solder alloy | Advances in Colloid and Interface Science Volume 166, Issues 1-2, 2011, 87-118. | Satyanarayan K.N.Prabhu |

| | | | |
|----|--|---|--|
| 19 | Heat flux Transients and casting surface macro-profile during downward solidification of Al-12% Si alloy against chills | International Journal of Metal Casting, 5 (1), 2011, 63-70. | K.N.Prabhu, K. Sharath, G. Ramesh |
| 20 | Heat transfer during solidification of chemically modified Al-Si alloys around a copper chill | Materials Science and Technology, 27 (11), 2011, 1664-1668 | K.N.Prabhu S. Hegde |
| 21 | Oxide bifilms in Aluminium Castings | Materials Science and Technology, 27(12), 2011, 1757-1769 | G. Ramesh K.N.Prabhu |
| 22 | Quench severity and wetting kinetics of vegetable oil blends and nanofluids, <i>Srojarsty</i> | Journal for Theory and Application in Mechanical Engineering, 53 (1), 2011, 19-22. | V. Jagannath K.N.Prabhu |
| 23 | Characterization of Water base Copper Nanoquenchants by Standard Cooling Curve Analysis. | International Journal of Heat Treatment and Surface Engineering, 5(4), 2011, 165-170 | G. Ramesh K.N. Prabhu |
| 24 | Wetting Characteristics of Sn-0.7Cu Lead-Free Solder Alloy on Copper Substrates | Materials Science Forum, 2012, vol. 710, 569-574. | Satyanarayan K.N.Prabhu |
| 25 | Processing of Primary Silicon and Mg ₂ Si Reinforced Hybrid Functionally Graded Aluminum Composites by Centrifugal Casting | Materials Science Forum, 2012, vol. 710, 395-400 | S. Raghunandan Jasim Akber Hyder T.P.D. Rajan K. N. Prabhu B.C. Pai |
| 26 | Equal Channel Angular Pressing of Aluminum-Alumina In Situ Metal Matrix Composite | Materials Science Forum, 2012, vol. 710, 248-252 | C.N. Athreya, V.P. Mahesh, M. Brahmakumar, T.P.D. Rajan, K. N. Prabhu, B.C. Pai, R.K. Gupta & P. Ramkumar, |
| 27 | Effect of Cooling Rate during Solidification of Sn-9Zn Lead-Free Solder Alloy on its Microstructure, Tensile Strength and Ductile-Brittle Transition Temperature | Materials Science and Engineering: A, 2012, vol. 553, 64-70. | K. N. Prabhu, Parashuram Deshapande, Satyanarayanan |
| 28 | Effect of chemical modification of Al-Si alloys on thermal diffusivity and contact heat transfer at the casting/chill interface, | Journal of ASTM International Vol.9(2), 2012, DOI: 10.1520/JAI104057, Paper ID: JAI104057, pages 10 | K.N.Prabhu, Jayananda, S. Hegde |
| 29 | Deformation of Al-5Zn-1Mg in The Temperature Range of 303- 673K, | International Journal of Engineering Science & Management, Vol. I, Issue II, July-Dec 2011 | James Valder, Rijesh M., Geethalakshmi K., A. O. Surendranathan |
| 30 | Determination of Forming Loads of Al-5zn-1mg Using ECAE At Various Temperatures, | International Journal of Engineering Science & Management, Vol. II, Issue I, Jan-Jun 2012 | James Valder, Rijesh M., A. O. Surendranathan |
| 31 | New Manufacturing Process of Carbon-Carbon Composites and their | Int. J. Earth Sciences and Engineering, October 2011, | Padmayya Naik A. O. Surendranathan |

| | | | |
|----|---|--|---|
| | Mechanical Properties | Volume 04 No 05, 916-921, ISSN 0974-5904 | |
| 32 | Friction and dry sliding wear behaviour of Ni filled epoxy nanocomposite | Tribology - Materials, Surfaces & Interfaces , 2011, 5(2), 49-52. | R.V. Kurahatti, A.O. Surendranathan, S. A. Kori, A.V. Ramesh Kumar, Bablu Mordinia, D.G. Mallapur, |
| 33 | Role of nickel filler on friction and dry sliding wear of bismaleimide naocomposite | Int. J. Earth Sciences and Engineering, December, 2011 Volume 04 No 06, ISSN 0974-5904. | R.V. Kurahatti, A.O. Surendranathan, Saurabh Srivastava, Nirbhay Singh, A.V. Ramesh Kumar, S. A. Kori, |
| 34 | Extruded Poly(ethylene-co-octene)/Fly Ash Composites – Value added Products from an Environmental Pollutant | Journal of Polymer Research, vol.19(3), published online 4 th march 2012, DOI: 10.1007/s10965-012-9840-6. | S. Anandhan, S. Madhava Sundar, T. Senthil, A. R. Mahendran, G. S. Shibulal, |
| 35 | Effect of deposition time on the characteristics of high phosphorous nickel deposit, deposited using electroless route; | Materials Science Forum, v710 (2012) pp. 671-676. | Venkat Ram Reddy Bharath Dixit UdayaBhat K. |
| 36 | Surface modification of steels using Friction stir surfacing | Materials Science Forum, v 710 (2012) pp258-263 | Janakiraman S., Jayachandra Reddy, Sathish V Kailas, UdayaBhat K. |
| 37 | Optimisation of Deposition Conditions for Bright Zn-Fe coatings and its Characterisation, | Protection of Metals and Physical Chemistry of Surfaces (New Substances, Materials, and Coatings), 2011, vol.47, No.5, pp 645-653. | Ramesh Bhat, UdayaBhat K. A. Chitharanjan Hegde, |
| 38 | Corrosion behaviour of electrodeposited Zn-Ni, Zn-Co and Zn-Ni-Co alloys, | Analytical and Bioanalytical Electrochemistry, vol.3, No3, 2011, pp302-315 | Ramesh S. Bhat, UdayaBhat K. A. Chittaranjan Hegde |
| 39 | Effect of Current Density on Deposit Characters of Zn-Co alloy and their Corrosion Behaviours | Synthesis and reactivity in Inorganic, Metal-Organic, and nano-metal chemistry, 41, 7, March 9 2011, pp1-7 | S. Yugesha, K. UdayaBhat A Chitharanjan Hegde |
| 40 | Effect of boundary heat transfer coefficient and probe section size on cooling curves during quenching | Journal of ASTM International, vol. 9 (4), 2012, DOI: 10.1520/JAI104365, Paper ID JAI104365. pages 8 | G. Ramesh, K. N. Prabhu |

Department of Physics

| Sl. No. | Title of paper | Journal Name, Vol., Issue, Page Nos. | Author(s)* |
|---------|--|---|---|
| 1. | Photoconductivity and photo-detecting properties of vacuum deposited ZnSe thin films | Solid State Sciences, 13(2011) 1921-1925. | K. Gowrish Rao, Kasturi V. Bangera, G.K. Shivakumar |

| | | | |
|----|---|--|--|
| 2. | Third-Order nonlinear optical properties and optical switching of Palladium (I) Complex | AIP Conf. Proc. 1391, 706-708 (2011) | Manjunatha K.B., Dileep R., Shelar Vikas M, G. Umesh, M. N. Satyanarayan and B. Ramachandra Bhat |
| 3. | Synthesis, Characterization and Third Order Non Linear Optical Properties of Metallo Organic Chromophores | Optics and Photonics Journal, 2, 40-45 (2012) | Ananthi N., Balakrishnan U., Velmathi S., Manjunatha K.B., G. Umesh |
| 4 | Synthesis, Characterization and Third Order Nonlinear Optical Studies of Diimine Based Zn(II), Cd(II) and Hg(II) Complexes | AIP Conf. Proc. 1391, 697-699 (2011) | B.J. Rudresha, Ramachandra Bhat B, Manjunatha K.B. and G. Umesh |
| 5 | Synthesis, Growth And Characterization of 1-(5-chlorothiophen-2-yl)-3-(2,4,5-Trimethoxyphenyl) Prop-2-en-1-one Single Crystal: A Potential NLO Material | AIP Conf. Proc. 1391, 538-540 (2011) | A .N. Prabhu, V. Upadhyaya, Jayarama A, M Srinivasulu, K. B. Manjunatha, G. Umesh |
| 6 | Non Linear Optical Properties of Banana Shaped Liquid Crystals | Molecular Crystals and Liquid Crystals, 540(1), 88-93, (2011) | J. Nagappa J. Mahadeva, R. Somashekara, C. V. Yalemaggad, G. Umesh and K.B. Manjunatha |
| 7 | $\chi(3)$ measurement and optical limiting studies of urea picrate | Optics & Laser Technology, Vol 43, Issue 7, 1286-1291, (2011) | K. Naseema, M. Shyma, K.B. Manjunatha, A. Muralidharan, G. Umesh, Vijayalakshmi Rao |
| 8 | Third Order Optical Nonlinearity of a Pyrazoline Derivative | AIP Conf. Proc. 1349, 1319-1320 (2011) | K. Janardhana, V. Ravindrachary, P. C. Rajesh Kumar, Yogisha , Bhoja Poojary, K.B. Manjunatha, and Ismayil |
| 9 | Microstructural and Tribological Characterization of Tin Coated Aluminium Alloy (Al6061) | International Journal of Mechanical Engineering , ISSN : 2277-7059, Volume 1 Issue 1 | Anil Kumar H C , N.K. Udayashankar, Sudheendra P , H.S. Hebbar |
| 10 | Titanium – Aluminium Intermetallic Thin Films Preparation by DC Sputtering and their Characterization | International Journal of Mechanical Engineering, ISSN : 2277-7059 Volume 2 Issue 3 | Sudheendra P., A. O. Surendranathan, N. K. Udayashankar, K. S. Choudhari |
| 11 | Fabrication and High – Temperature Structural Characterization study of Porous Anodic Alumina Membranes. | Journal of Porous Materials, (2012) DOI. 10.1007/s10934-012-9568-z | K.S. Choudhari, P. Sudheendra, N.K. Udayashankar |
| 12 | Hardness and electrochemical behavior of ceramic coatings on Inconel | J. Electrochem. Sci.Eng. 2(1) (2012) 19-31 | C.Sujaya, H.D.Shashikala, G.Umesh, A.C.Hegde |

NATIONAL JOURNALS

Department of Applied Mechanics And Hydraulics

| Sl. No. | Title of paper | Journal name. Vol. Issue, Page Nos | Author(s)* |
|---------|---|--|--|
| 1. | Physical Model Studies on Stability of Concrete Armoured Breakwater | Indian Society for Hydraulics (ISH) Journal of Hydraulic Engineering, Pune, Vol. 17, No. 3, October, pp 51-60. | Manu, Subba Rao, Kiran G. Shirlal, Prashanth J. and Balakrishna Rao K. |
| 2. | Harvesting of seasonal, tidal rivers – A case study | ISH J. Hydraulic Engg., 12(1), 37-44. | Archana,J. and A.Mahesha |

Department of Civil Engineering

| Sl. No. | Title of paper | Journal name. Vol. Issue, Page Nos | Author(s)* |
|---------|--|---|---|
| 1 | Energy and Conservation for Pollution-Free Environment | Our Earth – Quarterly Journal of Ecology and Envorment,2011 Vol. 8, No 2, 23-25 | Shrihari. S, and D.S.Bhargav |
| 2 | Laboratory Investigation on Lithomargic Clay Blended with Sand and Coir as a Pavement Material | Indian Highways, Indian Roads Congress, Vol. 40, No.2, pp.21-32, February 2012. | Ravi Shankar, A.U., Chandrashekhar, A. and Prakash Bhat, H. |

Department of Electronics and Communication Engineering

| Sl. No. | Title of paper | Journal Name, Vol., Issue, Page Nos. | Author(s)* |
|---------|---|--|---|
| 1. | Soft decision Fano coding of block codes over discrete memoryless channel using tree diagram | Journal of Electrical Engineering, Vol.63, No. 1, ISSN 1335 - 3632, pp.59-64, Jan – Feb 2012. | Prashantha Kumar H Sripati U Rajesh Shetty K Shankarananda B |
| 2. | Construction of regular LDPC like codes bases on Full rank codes and their iterative decoding using a parity check tree | ICTACT Journal on Communication Technology, Vol.2, Issue 3, ISSN 0976 -0091, pp.400-405, September 2011. | Prashantha Kumar H Sripati U Rajesh Shetty K |

Department of Electrical and Electronics Engineering

| Sl. No. | Title of paper | Journal Name, Vol., Issue, Page Nos. | Author(s)* |
|---------|---|--|----------------------|
| 1 | A Comparison of PI Tuning by Direct Search and Genetic Algorithm for Optimal Control of AGC in Continuous-Discrete Mode | CPRI Journal, Vol.8, No.2, April 2012. | D. Jena and M. Vijay |

Department of Humanities Social Sciences and Management

| Sl. No. | Title of paper | Journal Name, Vol., Issue, Page Nos. | Author(s)* |
|---------|---|---|--|
| 1. | Measuring the Customer-Perceived Service Quality in Health Care Organization: A Case Study | Journal of Health Management, 14(1) 27-41, March 2012 | D'Souza Sunil and Sequeira A.H. |
| 2. | Implementation of TQM Program in North Karnataka Manufacturing SMEs | SJCET Journal of Engineering and Management, Vol.4, No.2, pp.7-15, June 2011 | S B Mallur , N L Hiregoudar, Sequeira A.H. |
| 3. | Service Quality : The Corner Stone of Customer-Centric Retail Strategy for Supermarket Retailers In India | RVIM Journal of Management Research, Vol.3, Issue 2, pp42-48, July- December 2011 | Seema S Shenoy, Sequeira A.H. and Devaraj K. |

Department of Mining Engineering

| Sl. No. | Title of paper | Journal Name, Vol., Issue, Page Nos. | Author(s)* |
|---------|---|---|---|
| 1. | "A critical review on the use of drilling fluids in mining, oil and gas industry" | Mining Engineers Journal; Vol. 13(1); pp. 18 – 25. (2011) | Masood, Shivam, S., Vardhan, H., Aruna, M. and Animesh, R |
| 2 | "Issues and concerns with mine closure"; | Science India Magazine; September; Vol. 14(9); pp 26-30.- (2011) | Vardhan, H. and Shivam, S. |
| 3 | "Scientific Evaluation of Slope Stability of Goan Iron Ore Mine", | "Scientific Evaluation of Slope Stability of Goan Iron Ore Mine", Proceedings of National Seminar on Geology, Mining, Processing, Metallurgy and Environmental Issues of Economic Mineral Deposits (GEOPME), April, Sandur, India (2011). | M. Aruna, Harsha Vardhan and Kashinath Pal, |
| 5 | "Assessment of noise and effect of thrust on penetration rate in percussive drilling" | Journal of the Institution of Engineers (India); Mining Engineering Division; 2011; Vol.91; February; pp 3-7 | Kivade,S.B.,Murthy,Ch.S.N and Vardhan,H. |
| 6 | "Sources of Corrosion in Resource Industries-An Overview" | Mining Engineers Journals-March 2012 Vol-13, no 8 | Murthy Ch.S.N, Surendranathan A.O, Rajeev Puthalath |

Department of Metallurgical and Materials Engineering

| Sl. No. | Title of paper” | Journal Name, Vol., Issue, Page Nos. | Author(s)* |
|---------|--|--|---|
| 1 | The Effect of Aging and the Protective Coating on the Oxidation Behavior of 6061Al/SiC Composite at High Temperatures | Key Engineering Materials, Volumes 462 – 463, p1397-1403 (2011). | S. Rajasekaran, N. K.Udayashankar, Jagannath Nayak |
| 2 | Effect of Aging and Protective Coating on the Corrosion Behavior of 6061 Al / SiC _p Composite in Chloride Solutions | Key Engineering Materials, Volumes 462 – 463, p1397-1403 (2011). | S. Rajasekaran, N. K. Udayashankar, Jagannath Nayak |
| 3 | Fretting wear performance of glass/epoxy composites | Manufacturing Technology Today, vol. 10(9), 17 – 21, September 2011. | B. Shivamurthy, S. Anandhan, K. Udaya Bhat, S. Divakara Shetty, |

INTERNATIONAL CONFERENCES

Department of Applied Mechanics and Hydraulics

| Sl. No. | Title of paper | Journal name. Vol. Issue, Page No.s | Author(s)* |
|---------|---|--|---|
| 1. | Influence of Wave and Structure Parameters on Transmission Characteristics of HIMMF Pipe Breakwater with Five Layers | 6 th International Conference on Asian and Pacific Coasts 2011 (APAC 2011), pp 853-860, December 14-16, 2011, Hong Kong, China | A.V.Hegde, Subba Rao, Sachin Rajappa and Vishwanatha Mane |
| 2. | Hybrid Genetic Algorithm Tuned Support Vector Machine Regression for Wave Transmission Prediction of Horizontally Interlaced Multilayer Moored Floating Pipe Breakwater | 13 th International Conference on International Association for Computer Methods and Advances in Geomechanics, IACMAG 2011-Melbourne, Australia, 9-11 May, 2011, 1, pp. 557-563 | Patil, S.G., Mandal, S., Hegde, A.V. and A. Muruganandam |
| 3. | Wave run-up, run-down studies on berm breakwater with concrete cubes as armour units | 6 th International Conference on Asian and Pacific Coasts (APAC 2011), 14-16 December 2011, Hong Kong, China, pp. 534-540 | Subba Rao, Kiran G Shirlal, Balakrishna Rao K and Prashanth J |
| 4. | Hydrodynamic performance characteristics of seaside perforated semi-circular breakwater | 8th International conference on coastal and port engineering in developing countries, COPEDEC 2012, IIT Madras, Chennai, INDIA, 20-24 Feb. 2012, pp 1500-1507 | Arkal Vittal Hegde, G B Kiran Kumar and Subba Rao |
| 5. | Berm breakwater study with concrete cubes – an experimental approach, 8th International conference on coastal and port engineering in developing | COPEDEC 2012, IIT Madras, Chennai, INDIA, 20-24 Feb. 2012, pp 1478 – 1485 | Subba Rao, Kiran G Shirlal, Balakrishna Rao K and Prashanth J |

| | countries | | |
|-----|---|---|--|
| 6. | Simulation of hydraulic parameters in water distribution network using EPANET and GIS | International Conference on Ecology, Environment and Biological Sciences (ICEEBS'2012), January 7-8, 2012, Dubai, UAE | Ramesh H., Santhosh L. and Jagadeesha C.J |
| 7. | Concrete Cubes As Artificial Armour Units: A Laboratory Study On Berm Breakwaters | International Conference on Advances in Materials and Techniques for Infrastructure Development (AMTID 2011), September 28-30, 2011, NIT Calicut, India, Paper no. W001 | Subba Rao, Kiran G Shirlal, Balakrishna Rao K and Prashanth J, |
| 8. | Climate change impact on river hydrological processes- A case study | Int. Geography Congress on Sustainable Natural Resources Management under Chaning Climatic Scenarios, Centre for Water Resources Development and Management, Kozhikode, Kerala, 129-132 | Mythri, D.J. and A.Mahesha |
| 9. | Concrete Cubes As Artificial Armour Units: A Laboratory Study On Berm Breakwaters | International Conference on Advances in Materials and Techniques for Infrastructure Development (AMTID 2011), September 28-30, 2011, NIT Calicut, India, Paper no. W001 | Subba Rao, Kiran G Shirlal, Balakrishna Rao K and Prashanth J, |
| 10. | Soil moisture redistribution under rainfall irrigation and evapotranspiration | International Conference on Advances on materials and techniques AMTID-2011, 28 th -30 th Sept. 2011 at NIT, Calicut, India, 22-24 June 2011 | K.Varija |
| 11. | Groundwater modeling to simulate groundwater levels due to interlinking of rivers in Varada river basin | 4 th Int. Conf. Modeling, Simulation and Applied Optimization (ICMSAO), IEEE,ISBN 978-1-4577-0005-7/11 | Ramesh.H.and A.Mahesha |
| 12. | Earned Value Management – A Tool for Project Control | International Conference on “Recent Innovations in Technology – ICRIT - 2011”, Rajiv Gandhi Institute of Technology, Kottayam, Kerala, 10 – 12, February 2011, pp 13 – 19 | Subrahmanyam K. and Jomo Peter |
| 13. | Water Budgeting and Estimation of Aquifer Parameters for a Coastal Humid Wetland | International Conference on Emerging Trends in Engineering, ICETE – II”, NMAM Institute of Technology, Nitte, May 4 th and 5 th , 2011, pp 782-786 | Subrahmanyam.K., Mahesha A. and Mohan K. N |

| | | | |
|-----|--|--|---|
| 14. | Web Map Service To Panchayatraj Institutions - Case Study | International Conference on Advances in Materials and Techniques for Infrastructure Development (AMTID 2011), NIT Calicut, India, 22-24 June 2011 | Rabinandan J., Akshaya B. J., Hemanth Kumar H. and Subrahmanyam K |
| 15. | Development of Concrete Armoured Protected Breakwater Structure | International Engineering Symposium-IES-2011, held at Kumamoto University, Japan, during March 3-5, 2011, pp C5-2-1 to C5-2-8. | Manu, Subba Rao and Kiran G. Shirali |
| 16 | Prediction of compressive strength of RMC:A comparative study of regression and Artificial neural network | International conference on Emerging trends in Engineering, ICETE-11, ISBN NO-978-93-81195-07-9, paper no.189, pp.768-772, NMAM Institute of Technology, May-4-5 th , Karnataka, India, | Paresh chandra Deka & Diwate Somanath N |
| 17 | Urban water consumption estimation using Artificial Intelligence techniques | International conference on Environmentally Sustainable Urban Ecosystems, ENSURE 2012, IIT, Guwahati, feb 24 th -26 th , paper 170 | Surendra Halasooru and Paresh Chandra Deka |
| 18 | ANN and ANFIS Modeling of failure trend analysis in urban water distribution network | International conference on Environmentally Sustainable Urban Ecosystems, ENSURE 2012, IIT, Guwahati, feb 24 th -26 th , paper 155 | Libi P Markose and Dr Paresh chandra Deka |
| 19 | Effects of data preprocessing on the prediction accuracy of Artificial Neural network model in non-stationary hydrological time series | International conference on Environmentally Sustainable Urban Ecosystems, ENSURE 2012, IIT, Guwahati, feb 24 th -26 th , paper 174 | Aniruddha Gopal Banhatti and Paresh chandra Deka |
| 20 | Applications of wavelet transform technique in hydrology-A brief review | Proceedings of International conference on Environmentally Sustainable Urban Ecosystems, ENSURE 2012, IIT, Guwahati, feb 24 th -26 th , paper 213 | Khandekar Sachin Dadu and Paresh chandra Deka |

Department of Chemical Engineering

| Sl. No. | Title of Paper | Conference Name, Place, Dates, Page Nos. | Author(s)* |
|---------|---|---|---|
| 1. | Partitioning Studies Of BSA Using Ionic Liquid Based Aqueous Two Phase System Containing 1-Hexyl-3-Methyl Imidazolium Chloride And Sodium Carbonate | International conference on advances in Biotechnology and Pharmaceutical Sciences (ICABPS 2011), Bangkok, Thailand, Dec. 23-24, 2011. | P. SRINIVAS, I. Regupathi |
| 2. | Production of antioxidant propyl gallate by enzymatic transesterification using cell associated tannase from <i>Bacillus massiliensis</i> in microaqueous environment | International Conference on Advances in Biological Sciences (ICABS-2012), March 15-17 2012 Kannur, Kerala, India Paper No: IEB003 | Mahesh Aithal and Prasanna D Belur |
| 3. | Effect of different carbon and nitrogen sources on the production of naringinase by a new soil isolate, <i>serratia</i> sp. | International Conference on Advances in Biological Sciences (ICABS-2012), March 15-17 2012 Kannur, Kerala, India | Pavitra Mukund, Prasanna D.Belur, Saidutta M.B |
| 4. | "Bioremediation of Soil by Removing Heavy Metals Using <i>Saccharomyces cerevisiae</i> " | ICEST 2011 26-28, February 2011, Singapore | Dilna Damodaran, Vidya Shetty K, Raj Mohan. B. |
| 5. | Adsorption of VOCs (Benzene Vapor) on activated carbon from <i>Anacardium Occidentale</i> seed husk in packed bed column | 53 RD International Conference of KOSAE, 27 th to 29 st October, 2011, Pukyong National University, Busan, South Korea | Deepa D. T., Deepti S. K., Raj Mohan B., Byeong-Kyu Lee |
| 6. | Microalgae - A Potential Fresh Water Microbial Agent For CO ₂ Sequestration And Lipid Production | 53 RD International Conference of KOSAE, 27 th to 29 st October, 2011, Pukyong National University, Busan, South Korea | Pavithra G. S., Raj Mohan B |
| 7. | Simulation Studies on VOCs Adsorption by Activated Carbon via <i>Anacardium occidentale</i> Seed Husk in Packed Bed Column | 53 RD International Conference of KOSAE, 27 th to 29 st October, 2011, Pukyong National University, Busan, South Korea | Vani Daptardar., Raj Mohan B., Kandasamy Adiyapadam |
| 8. | Ball Milling of Fly Ash in Presence of a Surfactant Obtained from Renewable Resource Material | RDEIA- IACM 2012 on March 28 30, 2012 | S. Rajashekhar, B. Raj Mohan and S. Anandhan. |
| 9. | Remediation of heavy metals like Cu ²⁺ , Cd ²⁺ , Cr ⁶⁺ , Pb ²⁺ and Zn ²⁺ from soil using macro fungi | RDEIA- IACM 2012 on March 28-30, 2012 | Dilna Damodaran, Vidya Shetty K, Raj Mohan. B |
| 10. | Biosorption of Heavy Metals like (Cd,Zn,Cr) from Contaminated Water by <i>Trichoderma</i> sp | RDEIA- IACM 2012 on March 28-30, 2012 | Madhushree K.R., Dilna Damodaran P.V., Raj Mohan B., Byeong-Kyu Lee |
| 11. | Utilization of Waste from Cashew Nut Industry by Process Intensification | RDEIA- IACM 2012 on March 28-30, 2012 | Nanaasaheb Patil, and Raj Mohan B. |
| 12. | Simultaneous removal of Sulphur Dioxide and Particulate Matter in a | RDEIA- IACM 2012 on March 28-30, 2012 | Raj Mohan B. B. C. Meikap |

| | | | |
|-----|--|--|---|
| | novel spray-cum-bubble column scrubber | | |
| 13. | Comparative studies on the total anti-oxidant activity of certain plant species unique to Western Ghats of India | 2nd International Engineering Symposium-IES 2012 (KU-MIT-NITK Joint Symposium) March 5-7 2012 Kumamoto University, Japan | Faranha, Pavithra G S., Raj Mohan B |
| 14. | Studies on the Production of Camptothecin from an Endophytic Fungus Fusarium Sp | 2nd International Engineering Symposium-IES 2012 (KU-MIT-NITK Joint Symposium) March 5-7 2012 Kumamoto University, Japan | Fathima S., Krishna Kumar., Raj Mohan B. |
| 15. | Microwave-Assisted Extraction of Antioxidants from Plant species, Determination of the Total Antioxidant Activity and Identification of the extracts using HPLC-MS | 2nd International Engineering Symposium-IES 2012 (KU-MIT-NITK Joint Symposium) March 5-7 2012 Kumamoto University, Japan | Pavithra G S., Faranha, Raj Mohan B |
| 16. | Production of laccase by the novel isolates of basidiomycetes | <i>International journal of industrial biotechnology</i> , 1(2), 89-97. 2012 | Harisha Poojary and Gopal Mugeraya |
| 17. | Isolation and screening of halophilic bacteria for ectoine, xylanase and cellulase production from agro-wastes | 2 nd International Engineering Symposium (IES 2012), Kumamoto, Japan (Mar 5-7, '12). pp B1-2:1-6. | Pooja Shivanand, Gopal Mugeraya and Hitesh Chhabra |
| 18. | Effect of culture conditions on the production of laccase by an unidentified basidiomycete-F-35 | proceedings of 2 nd International Engineering Symposium (IES-2012), March 5-7, 2012, Kumamoto University, Japan. Pp.B4-2-1 to B4-2-6. | Gopal Mugeraya, Akshata Hoskeri and Harisha Poojary |
| 19. | Detoxification of phorbol esters from Jatropha seed cake by white rpt fungi | proceedings of 2 nd International Engineering Symposium (IES-2012), March 5-7, 2012, Kumamoto University, Japan. Pp.B4-3-1 to B4-3-6. | Sampath S Muddada, Ramesh Ramanujam, Chaitanya Kilparthi, Harisha Poojary and Gopal Mugeraya, |
| 20. | Neural Network Modelling of Urea Release from Briquettes | proceedings of 2 nd International Engineering Symposium (IES-2012), March 5-7, 2012, Kumamoto University, Japan. Pp.B2-1-1 to B2-1-4. | M. Ramananda Bhat, D.V.R. Murthy, M.B. Saidutta |

Department of Civil Engineering

| Sl | Title of the Paper | Conference Name, Place, Dates, Page Nos | Author (s) |
|----|--|---|--|
| 01 | Shake Table Tests to Investigate the effects of Geo-Membranes for Soil-Isolation in a Space-frame with Isolated Footings | 13 th IACMAG Conference on Computer Methods for Geomechanics – Frontiers and New Applications, University of Western Sydney, Australia 9-11 May 2011, 99 834-838 | B.R.Jayalekshmi, R.Shivashankar K.Venkataramana R.Ramesh Babu, G.R.Reddy, Y.M.Puruslekar, S.G.Patil, and P.Gundlapalli |

| | | | |
|----|--|---|---|
| 02 | Effects of Soil-Structure Interaction on Along-wind Response of R.C. Chimneys | 13 th IACMAG Conference on Computer Methods for Geomechanics – Frontiers and New Applications, University of Western Sydney, Australia 9-11 May 2011, 99 834-838 | B.R.Jayalekshmi, Devadas Menon and A. Mehar Prasad |
| 03 | Fatigue Behaviour of Lateritic Soil Stabilised with Enzyme and Effectiveness of Flexible Pavement with Stabilized Soil with Sub-Base | AES – ATEMA International Conference 2011, Montreal, Canada. | A.U.Ravishankar Ramesh Mithanthyaya |
| 04 | Experimental Study on Shear Strengthening of RC Beams using Externally Bonded Carbon Fiber Reinforced Polymer Sheets | AES – ATEMA International Conference 2011, Montreal, Canada | K.Swaminathan Chethana H.A Goudappa Biradar |
| 05 | Effective Modelling of Dam-Reservoir-foundation system using FEM (This paper was adjudged as the Best Paper presented in the conference in Civil Engineering) | International Conference on Emerging Trends in Engineering, (ICETE 2011), Nitte, Karnataka | Ruby Nazeer and Indrani Gogoi |
| 06 | Vibration control of steel I grder using Tuned Mass Dampers | International Conference on Emerging Trends in Engineering, (ICETE 2011), Nitte, Karnataka, 4-5 th May 2011 | M.H.Prashnath, Rakshith S.Shetty |
| 07 | Static and Dynamic Analysis of Cable Stayed Bridge | International Conference on Emerging Trends in Engineering, (ICETE 2011), Nitte, Karnataka, 4-5 th May 2011 | M.H.Prashanth Rakshith Shetty Vikash A.C Indrani Gogoi |
| 10 | Experimental Investigation of RC frames using Fibers | International Conference, Guntur | M.H.Prashanth, K.S. Babunarayan and Mahesh, P. |
| 11 | Biodegradation of Selected Pharmaceutical Chemicals Using SBR | 3 rd International Geography Congress, Calicut, Kerala, 6-8 th May, 2011. | Mohd Omair, Mahamood and Basavaraju Manu |
| 12 | Biodegradation of 2-Chlorophenol and 2,4-Dichlorophenol using Sequential Batch Reactor” | 3 rd International Geography Congress, Calicut, Kerala, 6-8 th May, 2011. | Riyaz Ahammed and Basavaraju Manu, |
| 13 | Biodegradation of Acetaminophen by Microbial Consortium of Domestic Sewage Sludge | IV International Conference on Environmental, Industrial and Applied Microbiology (BIOMICROWORLD 2011) Malaga Spain, 14-16 th September, 2011. | Basavaraju Manu and Nagaraja K |
| 14 | Bending of Functionally Graded plates – Analytical Evaluation of First Order Computational Model | International Conference On Advances In Civil Engineering – ACE 2011, Guntur | K. Swaminathan, Anup Bhansali and Suprabhat Jakati |
| 15 | Geo-spatial Analysis for the Deployment of Rural Wireless | 14 th Annual International Conference of the Indian | Naveen Chandra K.N.Lokesh Usha |

| | | | |
|----|--|---|---|
| | Broadband Telecom Services using Geo-Information Technology | Geo-Spatial Forum, Guragaon, 7-9 th Feb 2012 | and Gangadhar Bhat |
| 16 | Shake table tests to investigate the isolation effect of geo-membranes in soil | 21 st International Conference on Structural Mechanics in Reactor Technology (SMiRT 21), New Delhi, 6-11 th Nov 2011, TS V-7C.3 #549 | B.R.Jayalekshmi, R.Shivashankar, Katta Venkataramana, R.Ramesh Babu , G. R.Reddy |
| 17 | Natural seismic base isolation system for RCC structures | 21 st International Conference on Structural Mechanics in Reactor Technology (SMiRT 21), New Delhi, 6-11 th Nov 2011, TS V-A.3 #370 | S.J.Patil, G.R.Reddy, R. Shivashankar, R.Ramesh Babu, B.R.Jayalekshmi |
| 18 | Dynamic soil-structure interaction effects in Raft moments of tall reinforced concrete industrial chimneys | Proceedings of <i>Fourth International Conference on Structural Stability and Dynamics</i> ICSSD – 2012, Jaipur, 4-6 th January 2012, pp 229-236 | Jisha S V, B.R.Jayalekshmi, R.Shivashankar |
| 19 | Performance of High Strength concrete subjected to elevated temperatures | International Engineering Symposium, Kumamoto University, 4-6 th March 2012 | Kishor S Kulkarni, Subhash C Yaragal and K S Babu Narayan |
| 20 | Earthquake vulnerability Assessment of building in Guwahati. | International Engineering Symposium, Kumamoto University, 4-6 th March 2012 | Ajit Kamath Manohar, Kaustav Sengupta, Taniz Harei, and Indrani Gogoi |
| 21 | Experimental Investigation on flexural Strength of reinforced concrete beams | International Engineering Symposium, Kumamoto University, 4-6 th March 2012 | Poornachandra Pandit, Akshatha Shetty, Katta Venkatramana, K S Babu Narayan, Indrani Gogoi, Praveen BB, Shivaprasad Nayak, and Arun Sedamkar. |
| 22 | CUBE based Trip Generation using iterative zone reclassification and distribution for Bangalore | International Engineering Symposium, Kumamoto University, 4-6 th March 2012 | Varghese George, Subramanyam U Anil K S and Mahendrakar |
| 23 | Microstructure analysis of concrete subjected to elevated temperature using MIP | International Engineering Symposium, Kumamoto University, 4-6 th March 2012 | Sarath S, Sandesh V Subhash C Yaragal K S Babu Narayan and K Suryanarayan |
| 24 | Flexural Fatigue Analysis of steel fiber reinforced concrete | International Engineering Symposium, Kumamoto University, 4-6 th March 2012 | Girish M.G, A Chandrashekhar and A. .U Ravishankar |
| 25 | Relation between UPV and compressive strength of concrete subjected to heating and sudden cooling | International Engineering Symposium, Kumamoto University, 4-6 th March 2012 | Shree Laxmi Prashant Subhash C Yaragal and K S Babu Narayan |
| 26 | Traffic Management Proposal for Udupi City | International Engineering Symposium, Kumamoto University, 4-6 th March 2012 | Raviraj H Mullangi A.U. Ravi Shankar and Varghese George |

Department of Computer Engineering

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s)* |
|---------|--|---|--|
| 1. | "Towards Evaluating Resilience of SIP Server under Low Rate DoS Attack" | International Conference on Advances in Information technology and Mobile Communication (AIM 2011), LNCS- CCIS 147, pp.336-339, Nagpur, 21st -22nd April 2011 | Abhishek Kumar, P. Shanthi Thilagam, Alwyn R. Pais, Vishwas Sharma and Kunal M. Sadalkar |
| 2. | "AMul: Adaptive Multicast Routing Protocol for Multi-hop Wireless Networks" | International Conference on 'Emerging Trends in Networks and Computer Communications ETNCC -2011', The Institution of Engineers (India), Udaipur , April 2011 | Vaidehi Panwala, Saumya Hegde |
| 3. | "Ant – CAMP : Ant based Congestion Adaptive Multipath Routing Protocol for Wireless Networks" | International Conference on 'Emerging Trends in Networks and Computer Communications ETNCC -2011', The Institution of Engineers (India), Udaipur, April 2011 | Raval Chirag, Saumya Hegde |
| 4. | "Spam Control by Source Throttling using Integer Factorization" | International Conference on 'Emerging Trends in Networks and Computer Communications ETNCC -2011', The Institution of Engineers (India), Udaipur, April 2011 | Rochak Gupta, K. Vinay Kumar, Radhesh Mohandas |
| 5. | "Global Data flow Dependence Analysis for Automatic Parallelization" | International Conference on Computer Science, Engineering and Applications CCSEA 2011, July 15 – 17, 2011 | Muralidhar, P. Santhi Thilagm |
| 6. | "Safeguarding Web Services Using Self-Adaptive Schema Hardening Algorithm" | Fourth International Conference on Network Security & Applications CNSA 2011, CCIS 196, pp. 383-392m, July 15 - 17, 2011, Chennai | Vipul Patel, Radhesh Mohandas, Alwyn Pais |
| 7. | "A Framework for Intrusion Tolerance in Cloud Computing" | International Conference on Advances in Computing & Communications ACC 2011, Part IV, CCIS 193, pp. 386-395, 22-24 July, 2011Kochi, Kerala | Vishal M. Karande, Alwyn R. Pais |
| 8. | "An In-Depth Analysis of the Epitome of Online Stealth: Keyloggers; and Their Countermeasures" | International Conference on Advances in Computing & Communications ACC 2011, Part III, CCIS 192, pp.10-19, 22- 24 July 2011, Kochi, Kerala | Kalpa Vishnani, Alwyn Roshan Pais, Radhesh Mohandas, |
| 9. | "Protection against Denial of Service and Input Manipulation Vulnerabilities in Service Oriented Architecture" | International Conference on Network, Security & Applications CNSA CNSA 2011, CCIS 196, pp. 331-343, 15 - 17 July, 2011, Chennai | Alwyn Roshan Pais, D. J. Deepak, B. R. Chandavarkar |
| 10. | "Testing Resilience of Router against Denial of Service Attacks" | Fourth International Conference on Network Security & Applications NeCom/WeSt/WiMon 2011, LNCS- CCIS 197, pp.107-116, 2011 | Vishal Maruti Karande, Sandeep Nair Narayanan, Alwyn Roshan Pais, N. Balakrishnan |
| 11. | "Detecting & Defeating Split Personality Malware" | Fifth International Conference on Emerging Security Information, Systems and Technologies SECURWARE 2011 August 21-27, | Kalpa Vishnani, Alwyn R. Pais, Radhesh Mohandas |

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s)* |
|---------|--|--|---|
| | | 2011 - French Riviera, Nice/Saint Laurent du Var, France | |
| 12. | "Model Based Hybrid Approach to Prevent SQL Injection Attacks in PHP" | International Conference on Security Aspects in Information Technology, High-Performance Computing and Networking InfoSecHiComNet 2011, LNCS, 2011, Volume 7011/2011, 3-15, 2011, India | Kunal Sadalkar, Radhesh Mohandas, Alwyn R. Pais |
| 13. | "Analyzing design patterns for extensibility" | Fifth International Conference on Information Processing-ICIP 2011, Springer, Communications in Computer and Information Science Series(CCIS), Bangalore, 5th -7th August 2011, pp. 269-278. | Annappa, Rabna R, K Chandrasekaran, K C Shet |
| 14. | "Detection and Prevention of SQL injection Attacks using semantic equivalence" | Fifth International Conference on Information Processing ICIP 2011, CCIS 157, pp. 103 – 112, August 2011, Bangalore | Sandeep Nair Narayanan, Alwyn Roshan Pais, Radhesh Mohandas |
| 15. | "Hierarchical DHT to Efficiently Load Balancing in Dynamic Peer-to-Peer Environment" | Fifth International Conference on Information Processing ICIP 2011, ICIP-2011, August 2011 | Kakulte Bhushan Santhosh, P. Santhi Thilagam |
| 16. | "A Novel Reversible Data Embedding Method for Source Authentication and Tamper Detection of H.264/AVC Video" | International Conference on Information Processing, pp 349-355, 10 - 12, August 2011. (Springer-Verlag Berlin Heidelberg 2011) | Sutanu Maiti, Mahendra Pratap Singh |
| 17. | "Improvement in Packet Drop during Handover between WiFi and WiMax" | International Conference on Networks and Electronics Engineering (ICNEE-2011), Singapore, September 16 - 18, 2011 | B.R. Chandavarkar, Dr. G. Ram Mohana Reddy |
| 18. | "An Improved Approach toward Network Forensic Investigation of HTTP and FTP Protocols" | International Conference on Parallel, Distributed Computing Technologies and Applications, September 23 – 25, 2011 | Manesh T., Brijith B., Mahendra Pratap Singh |
| 19. | "Implementation of AAA Server for PMIPv6 in NS-2" | International Conference on Parallel, Distributed Computing Technologies and Applications (PDCTA-2011), Manonmaniam Sundharanar University, India, September 23-25, 2011 | Nitesh Tarabani, B.R. Chandavarkar |
| 20. | "FARED: Fast Adapting RED gateways for TCP/IP networks" | International Conference in Advanced Computing, Networking and Security,(ADCONS) 2011), Springer LNCS 7135, NITK Surathkal, 16-18 December 2011 | Mohit T.P., K.C.Shet, T.G.Basavaraju |
| 21. | "A Review on VM Provisioning in Cloud Environment" | International Conference in Advanced Computing, Networking and Security,(ADCONS) 2011), Springer LNCS 7135, NITK Surathkal, 16-18 December 2011 | Raghavendra Achar, Santhi Thilagam |
| 22. | "Methods of Record Structure Identification in Web Information | International Conference in Advanced Computing, Networking and | Chandrakanth S, Santhi Thilagam |

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s)* |
|---------|---|---|---|
| | "Extraction Systems" | Security,(ADCONS) 2011), Springer LNCS 7135, NITK Surathkal, 16-18 December 2011 | |
| 23. | "SQL Injection Attack Mechanisms and Prevention Techniques" | International Conference in Advanced Computing, Networking and Security,(ADCONS) 2011), Springer LNCS 7135, NITK Surathkal, 16-18 December 2011 | Roshni Chandrasekar, Manoj Mardithiya, Santhi Thilagam, Dipankar Saha |
| 24. | "Intrusion Detection Technique for Wormholeband Following Jellyfish and Byzantine attacks in Wireless Mesh Network" | International Conference in Advanced Computing, Networking and Security,(ADCONS) 2011), Springer LNCS 7135, NITK Surathkal, 16-18 December 2011 | Ganesh Reddy , Santhi Thilagam |
| 25. | "IFrandbox - Client Side Protection from Malicious Injected Iframes" | International Conference ICISS-2011, LNCS, 2011, Volume 7093/2011, 383-386, Jadavpur University, Kolkata, 17-19 December 2011 | Tanusha S. Nadkarni, Radhesh Mohandas and Alwyn R. Pais |
| 26. | "Congestion Adaptive Multipath Routing Protocol for VANETs" | International Conference on Advanced Computing, Networking and Security (Adcons,2011), Springer LNCS 7135, NITK Surathkal, 16 - 18 December 2011 | Ravitheja B L, Annappa B, Mohit T. |
| 27. | "Survey Paper: Mobility Management in Heterogeneous Wireless Networks" | International Conference on Communication Technology , System Design December 2011 (ICCTSD 2011) [Elsevier]", Amrita Vishwa Vidyapeetham, Coimbatore. 7 - 9 December 2011 | B. R. Chandavarkar, Dr. G. Ram Mohana Reddy |

Department of Chemistry

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s)* |
|---------|---|---|--|
| 1. | Nonlinear optical properties of a newly synthesized thiophene based conjugated polymer" | Phenomena, Materials, Devices, and Characterization AIP Conf. Proc. 1391 (2011) 703-705. | M.S. Sunitha, A.V. Adhikari, K.A. Vishnumurthy, R. Philip. |
| 2. | Synthesis and Characterization of a New Conjugated Polymer Bearing Pyrazole and Thiophene Moieties as Potent NLO Material." | Phenomena, Materials, Devices, and characterization AIP Conf. Proc. 1391, 652-654 (2011); | K.A.Vishnumurthy, A.Vasudeva Adhikari, M.S.Sunitha, Reji Philip. |
| 3. | Nonlinear optical properties of a newly synthesized thiophene based conjugated polymer" | Phenomena, Materials, Devices, and Characterization NIT Calicut Kerala | M.S. Sunitha, A.V. Adhikari, K.A. Vishnumurthy, R. Philip. |
| 4. | Synthesis and Characterization of a New Conjugated Polymer Bearing Pyrazole and Thiophene Moieties as Potent NLO Material." | Phenomena, Materials, Devices, and Characterization NIT Calicut Kerala | K.A.Vishnumurthy, A.Vasudeva Adhikari, M.S.Sunitha, Reji Philip. |

| | | | |
|----|--|---|--|
| 5. | Design and synthesis of thiophene based conjugated polymer with cyanopyridine spaces as potent optical limiting material. Mangalore University, Mangalagangothri. December 8-10, 2011. | International Conference on Synthetic & Structural Chemistry ICSSC-2011, Mangalore University, Mangalagangothri. December 8-10, 2011 | Vishnumurthy K. A., Sunitha M.S., Airody Vasudeva Adhikari. |
| 6. | Synthesis, characterization and mesomorphic properties of 2-methoxy-3-cyanopyridine core. | International Conference on Synthetic & Structural Chemistry ICSSC-2011, Mangalore University, Mangalagangothri. December 8-10, 2011. | Ahipa T. N., Airody Vasudeva Adhikari, |
| 7. | Synthesis, characterization and biological study of some new dihydropyridine based derivatives. | International Conference on Vistas in Chemistry ICVC-2011, Indhira Gandhi Centre for Atomic Research (IGCAR) Kalpakkam, Chennai. October 11-13, 2011. | Shrikanth Ulloora, Airody Vasudeva Adhikari, |
| 8. | Synthesis of new pyridine derivatives as potent antimicrobial agents. | International Conference on Synthetic & Structural Chemistry ICSSC-2011, Mangalore University, Mangalagangothri. December 8-10, 2011. | Shrikanth Ulloora, Airody Vasudeva Adhikari, |
| 9. | Nonlinear optical studies of a D-A type conjugated polymer containing heterocyclic moieties. | International conference on physics and technology ICPST-2011, December 12-13, 2011. | Airody Vasudeva Adhikari and Sunitha M.S., |
| 10 | Synthesis and mesomorphism of new 2-methoxy-3-cyanopyridine mesogens, | International conference on 21-26 th January 2012 in Moscone Centre, San Francisco, California, United States. | Ahipa T. N. and A. V. Adhikari,, |
| 11 | Synthesis, Characterization And Third Order Nonlinear Optical Studies Of Diimine Based Zn(II), Cd(II) and Hg(II) Complexes | Optics'11, A conference on light, NIT Calicut 23 – 25 May 2011. | Rudresha B. J, Ramachandra Bhat B, Manjunatha K. B and G. Umesh |
| 12 | Synthesis And Third-order Nonlinear Optical Studies Of Four-Coordinated Copper(I) Complexes, | Optics'11, A conference on light, NIT Calicut, 23 – 25 May 2011. | Sampath Kumar H.C, Rudresha B. J, Ramachandra Bhat B, Reji Philip and Guru Row T. N |
| 13 | Third-Order Nonlinear Optical Properties And Optical Switching of Palladium (I) Complex | Optics'11, A conference on light, NIT Calicut, 23 – 25 May 2011 | Manjunatha K.B., Dileep R., Shelar Vikas M, G. Umesh, M. N. Satyanarayan and B. Ramachandra Bhat |
| 14 | An environmental friendly route for the high yield synthesis of carbon nanofiber. | 5th International Congress of Chemistry and Environment (ICCE-2011) Port Dickson, MALAYSIA 27-29 May 2011. | Ravindar R and Badekai Ramachandra Bhat |

| | | | |
|-----|---|---|--|
| 15 | Novel catalysts to synthesis helical carbon nanofibers in bulk scale on water soluble support | ICC International conference, Bangkok, Thailand, 11-15 June 2011 | Ravindra R and Badekai Ramachandra Bhat |
| 16 | Mass production of carbon nanofibers on water soluble substrate | International confernece (ICNN-2011), Coimbatore Institute of Technology, Coimbatore, 6-8 July 2011. | Ravindra R and B Ramachandra Bhat |
| 17 | Synthesis of carbon nanotubes by novel catalytic route in large scale | International Conference on Advanced Materials, BTL, Bangalore, India. 19-20 August 2011. | Ravindra R and B Ramachandra Bhat. |
| 18 | Preparation of Cu nano-particles using a polyol method | Nano-Korea-2011 at Seoul, South Korea, August 24-26, 2011. | S. J. Jun, K. Y. Choo, H. Jeong, K. T. Chue, B. Ramachandra Bhat and T. H. Kim, |
| 19 | Green Synthesis of biaryls using Ni(III) complex, | International Conference on Synthetic & Structural Chemistry (ICSSC-2011), Mangalagangotri , Mangalore, India , 8-10 December 2011. | Aparna P I and B Ramachandra Bhat |
| 20 | Cobalt-Schiff base triphenylphosphine complex catalyzed oxidation of alcohols. | International Conference on Synthetic & Structural Chemistry (ICSSC-2011), Mangalore, India , 8-10 December 2011. | Sandya rani and B. Ramachandra Bhat,, |
| 21 | Oxidation of primary and secondary alcohols catalyzed by Ni-Schiff base complex supported on carbon nanotubes | International Conference on Synthetic and Structural Chemistry (ICSSC 2011), Mangalagangotri , Mangalore, India , 8-10 December 2011. | Ravindra R and Badekai Ramachandra Bhat |
| 22. | Simple route to synthesize carbon nanotubes and its decoration by palladium nanoparticles | International Conference on physical sciences and technology (ICPST-2011), Dubai, 28-30 December 2011 | Ravindra R and B. Ramachandra Bhat |
| 23 | Zinc oxide/carbon nanotube composite as electrochemical supercapacitor | International conference on nanoscience and technology (ICONSAT-2012), Hyderabad, 20-23 January 2012,pp 232. | Aravinda L.S, Badekai Ramachandra Bhat and Udaya Bhat K |
| 24. | PVDF/Co ₃ O ₄ nanocomposites: Porosity, Crystallinity and Conductivity Studies. | The 2011 International Conference on Physics Science and Technology (ICPST 2011), Dec. 28 - 30, 2011, Dubai, UAE. | Denthaje Krishna Bhat* and Aarti Sripathi Bhatt |
| 25. | Synthesis and Electrochemical Studies of Magnetic Ni/NiO/Chitosan composites | 5 th International Congress of Chemistry and Environment, Glory Beach Reorts, Kualalumpur, Malasia, May 26-29, 2011. | Aarti Sripathi Bhatt, Denthaje Krishna Bhat*, Mysore Sridhar Santosh, Cheuk-wai Tai, |

| | | | |
|-----|---|---|--|
| 26. | Electrochemical properties of Co_3O_4 - chitosan nano composite films. | ICC conference, BKK Hotel, Bangkok, Thailand, June 11-15, 2011. | Denthaje Krishna Bhat* and Aarti Sripathi Bhatt |
| 27. | PVDF/Co ₃ O ₄ nanocomposites: Porosity, Crystallinity and Conductivity Studies. | The 2011 International Conference on Physics Science and Technology (ICPST 2011), Dec. 28 - 30, 2011, Dubai, UAE. | Denthaje Krishna Bhat* and Aarti Sripathi Bhatt |
| 28 | Synthesis and Electrochemical Studies of Magnetic Ni/NiO/Chitosan composites | 5 th International Congress of Chemistry and Environment, Glory Beach Reorts, Kualalumpur, Malasia, May 26-29, 2011. | Aarti Sripathi Bhatt, Denthaje Krishna Bhat*, Mysore Sridhar Santosh, Cheuk-wai Tai, |
| 29 | Electrochemical properties of Co_3O_4 - chitosan nano composite films. | ICC conference, BKK Hotel, Bangkok, Thailand, June 11-15, 2011. | Denthaje Krishna Bhat* and Aarti Sripathi Bhatt |
| 30 | Preparation and characterization of Polysulfone and modified poly-isobutylene-alt-maleic anhydride blend membrane | International conference on membrane-2011 (ICM-2011), Kottayam, 16-19 September, 2011 | Ganesh B.M. and Arun M. Isloor |
| 31 | Preparation and characterization of Graphite Oxide/Polysulfone composite NF membrane | International Conference on Synthetic and Structural Chemistry (ICSSC -2011), Mangalore, 8-10 December, 2011 | Ganesh B M Arun M. Isloor |
| 32 | Synthesis, Characterization and Antibacterial Activity of Some New Pyrazole based Schiff-bases | International Conference on Vistas in Chemistry 2011 (ICVC-2011) | Shridhar A. M, Arun M. Isloor, Shrikrishna Isloor, H.K. Fun |
| 33 | Synthesis and antimicrobial evaluation of some pyrazole containing cyanopyridone derivatives through one-pot multicomponent reaction | International Conference on Synthetic and Structural Chemistry (ICSSC -2011), Mangalore, 8-10 December, 2011 | Shridhar Malladi, Arun M Isloor, Garudachari B and Peethambar S.K |
| 34 | New polypropylene supported chitosan NF-membrane for desalination application | International Conference on Synthetic and Structural Chemistry (ICSSC -2011), Mangalore, 8-10 December, 2011 | Mahesh Padaki, Arun M Isloor and Rajesha Kumar |
| 35 | Performance of PS/PIMA/ PPEES membranes before and after Alkali treatment for effective filtration of CaCl_2 and NaCl | International Conference on Synthetic and Structural Chemistry (ICSSC -2011), Mangalore, 8-10 December, 2011 | Chitrakara Hegde, Arun M Isloor, Seema S |
| 36 | Synthesis of Quinoline Incorporated Benzimidazole Derivatives as Potential Antimicrobial Agents | International Conference on Synthetic and Structural Chemistry (ICSSC -2011), Mangalore, 8-10 December, 2011 | B. Garudachari, Arun M Isloor and C. K. Shivakumar |
| 37 | Design, synthesis and biological evaluation of quinoline derivatives | One Day National Conference on "Green & Sustainable | B. Garudachari, Arun M. Isloor, M. N. Satyanarayana, Hoong Kun |

| | | | |
|----|---|---|--|
| | | Chemistry"(NCGSC-2012), Tumkur, 25 th February, 2012 | Fun |
| 38 | Synthesis of some new 1,4-dihydropyridine derivatives as potent antimicrobial and antioxidant agents | International Conference on Synthetic and Structural Chemistry (ICSSC -2011), Mangalore, 8-10 December, 2011 | A.M. Vijesh, Arun M. Isloor, T. Arulmoli, Shrikrishna Isloor |
| 39 | Preparation and characterization of Polysulfone and modified poly-isobutylene-alt-maleic anhydride blend membrane | International conference on membrane-2011 (ICM-2011), Kottayam, 16-19 September, 2011 | Ganesh B.M. and Arun M. Isloor |
| 40 | Preparation and characterization of Graphite Oxide/Polysulfone composite NF membrane | International Conference on Synthetic and Structural Chemistry (ICSSC -2011), Mangalore, 8-10 December, 2011 | Ganesh B M Arun M. Isloor |
| 41 | Synthesis, Characterization and Antibacterial Activity of Some New Pyrazole based Schiff-bases | International Conference on Vistas in Chemistry 2011 (ICVC-2011) | Shridhar A. M, Arun M. Isloor, Shrikrishna Isloor, H.K. Fun |
| 42 | Synthesis and antimicrobial evaluation of some pyrazole containing cyanopyridone derivatives through one-pot multicomponent reaction | International Conference on Synthetic and Structural Chemistry (ICSSC -2011), Mangalore, 8-10 December, 2011 | Shridhar Malladi, Arun M Isloor, Garudachari B and Peethambar S.K |
| 43 | Design, synthesis and biological evaluation of quinoline derivatives | One Day National Conference on "Green & Sustainable Chemistry"(NCGSC-2012), Tumkur, 25 th February, 2012 | B. Garudachari, Arun M. Isloor, M. N. Satyanarayana, Hoong Kun Fun |
| 44 | Synthesis and Characterization of a New Donor-Acceptor Conjugated Polymer and Polymer/Ag Nanocomposites | AIP Conf. Proc. 2011, 1391, 624-626. | M.G. Murali and Udayakumar D |
| 45 | Synthesis, characterization and nonlinear optical properties of thiophene and fluorene based donor-acceptor conjugated polymer containing 1,3,4-oxadiazole units. | International conference on Synthetic and Structural Chemistry (ICSSC 2011) 8-10 Dec.2011. Mangalore University. | M.G. Murali, D. Udayakumar and K.Safakath. |
| 46 | Synthesis, characterization and anticancer studies of some new indole based scaffolds. | International conference on Synthetic and Structural Chemistry (ICSSC 2011) 8-10 Dec.2011. Mangalore University | P. Naveen and D. Udayakumar |
| 47 | Synthesis and study of optical and electrochemical properties of a novel conjugated polythiophene. | International conference on Synthetic and Structural Chemistry (ICSSC 2011) 8-10 Dec.2011. Mangalore University | Prashanth K R and D. Udayakumar. |
| 48 | Study of linear and nonlinear optical properties of a donor-acceptor | International conference on physics science and | Murali M.G and |

| | | | |
|----|--|--|---|
| | conjugated polymer, | technology (ICPST), Dubai, 28-30 December, 2011. | Udaya Kumar D |
| 49 | Synthesis and characterization of a new donor–acceptor conjugated polymer and polymer/TiO ₂ nanocomposites for photonic applications. | International conference on Nanoscience and technology, Hyderabad, 20-23 January, 2012. | Udaya Kumar D and Murali M.G. |
| 50 | Microwave Assisted Knoevenagel Condensation Under Solvent and Catalyst Free Conditions. | 2 nd Annual Conference of Indian JSPS Alumni Association at SCTIMST, Trivandrum, Kerala (August 5 & 6 2011) | Subrahmanyam I. Bhat and Dr. Darshak R. Trivedi |
| 51 | Sulfanilamide Cocrystals with Carboxylic Acids | 2 nd Annual Conference of Indian JSPS Alumni Association at SCTIMST, Trivandrum, Kerala (August 5 & 6 2011) | Madhavi O. and Dr. Darshak R. Trivedi |
| 52 | Simple Amides as a Colorimetric Sensors for Rapid Detection of Fluoride Ion | 2 nd Annual Conference of Indian JSPS Alumni Association at SCTIMST, Trivandrum, Kerala (August 5 & 6 2011) | Madhuprasad and Dr. Darshak R. Trivedi |

Department of Electronics And Communication Engineering

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s)* |
|---------|--|--|---|
| 1. | Energy Efficient Shortest Path Routing Protocol for Wireless Sensor Networks | Proceedings of the International Conference on Computational Intelligence and Communication Networks, 7th -9th Oct 2011, MIR Labs, Gwalior. | K.S. Shivaprakasha Muralidhar Kulkarni |
| 2. | Selective Image Smoothing and Feature Enhancement using modified shock filters | 8th International Conference on Electrical Engg./ Electronics, Computer, Telecommunications & information Technology Association (ECTI_CON), 17 -19 May, 2011, Thailand, pp.991-994 | Bini A A M S Bhat |
| 3. | Low power fully differential feed-forward compensated bulk driven OTA | Proc. 8th International Conference organized by Electrical Engg./ Electronics, Computer, Telecommunications & information Technology Association (ECTI), Thailand, Thailand, May 17 -19, 2011. | Rekha S Laxminidhi T |
| 4. | Pilot assisted adaptive channel estimation in QAM/OFDM system under Rayleigh Fading | International Conference on Emerging Trends in Engineering ICETE-2011, 04 – 05 May 2011. | Smitha P S, V Sateesh Prabhu N S V Shet |
| 5. | Energy Efficient 1.8V Stepdown DC/DC Converter 0.18μm CMOS Technology with optimized silicon | International Conference on Electronics Computer Technology (ICECT-2011) 8 – 10 April 2011. | Prajakta Panse Laxminidhi T |

| | area | | |
|----|--|--|--|
| 6. | Pilot assisted adaptive channel estimation for 16QAM/OFDM modulation | International Conference on VLSI Coommunication and Instrumentation ICVCI-2011, Kottayam, Kerala, 07 – 09 April 2011 | Smitha P S V Sateesh Prabhu N S V Shet |

Department of Electrical and Electronics Engineering

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s)* |
|---------|---|--|---|
| 1 | "Investigation into effect of mixed air gap eccentricity on dq components of currents in induction motor", | Proc. Of IEEE ICIIS-2011, International conference on Industrial and Information systems held at University of Peradeniya, Kandy, Srilanka, 16-19 Aug, 2011, ISBN: 978-1-4577-0032-3, pp271 - 276. | Rajalakshmi Samaga B.L., Vittal K.P. |
| 2 | "Air gap mixed eccentricity severity detection in an induction motor", | Proc. Of International conference on Recent Advances in Intelligent Computational Systems (IEEE RAICS), 2011 held at Trivandrum, India, 22-24 Sept. 2011, ISBN: 978-1-4244-9478-1, pp.115 – 119. | Rajalakshmi Samaga, BL Vittal, K.P., |
| 3 | "Development of Adaptive Distance Relay for STATCOM Connected Transmission Line", | Proc. Of IEEE PES ISGT -2011, International conference on Innovative Smart Grid Technologies – India, 1-3 Dec.,2011, at the Quilon Beach hotel, Kollam, Kerala. | Sham M V, Chethan Ks and Panduranga Vittal Koppal |
| 4 | "Development of DSP Based High Speed Numerical Distance Relay and its Evaluation Using Hardware in Loop Power System Simulator", | Proc. Of IEEE PES ISGT -2011, International conference on Innovative Smart Grid Technologies – India, 1-3 Dec.,2011, at the Quilon Beach hotel, Kollam, Kerala. | Sham M V and Panduranga Vittal Koppal, |
| 5 | "Effect of unbalance in voltage supply on the detection of mixed air gap eccentricity in an induction motor by Motor Current Signature Analysis", | Proc. Of IEEE PES ISGT -2011, International conference on Innovative Smart Grid Technologies – India, 1-3 Dec.,2011, at the Quilon Beach hotel, Kollam, Kerala. | Rajalakshmi Samaga, Panduranga Vittal and Vikas Kumar Jhunjhunwala, |
| 6 | Enhancing energy efficiency of Auxiliary Power equipment in a 210 MW coal fired power plant through Energy Conservation | Proceedings of the IASTED International Conference on Power and Energy Systems (PESA 2011), Nov. 7-9, 2011, Pittsburgh, USA, pp. 234 – 241, paper No.756-048 | Udaykumar R. Yaragatti and Rajashekhar P. Mandi, |
| 7 | Harnessing Maximum Power from Solar PV Panel for Water Pumping Application | Third International Conference on Control, Communication and Power Engineering 2012 - CCPE 2012. Proceedings Published by: | Udaykumar R. Yaragatti and M.R. Kappali |

| | | | |
|----|--|---|--|
| | | Springer, Conference Organized by: ACEEE at Bengaluru, India on April 27,28 2012 (CCIS 296). | |
| 8 | Charge Simulation Method Errors, Field factors and Optimal assignment factors | Proceedings of XVII International Symposium on High Voltage Engineering (ISH'11), Paper ID. B-020-PUN-F, Hannover, Germany, August 22-26, 2011. | G. S. Punekar, N. K. Kishore and H.S.Y.Shastry |
| 9 | Influence of Ground Conductivity on Horizontal Electric Fields Above and Below the Ground due to Lightning Return Stroke | Proceedings of XVII International Symposium on High Voltage Engineering (ISH'11), Paper ID. B-026-CHA-F, Hannover, Germany, August 22-26, 2011. | K Chandrasekaran, Gururaj S Punekar |
| 10 | On Electric Fields in Belted Cables and 3-Phase Gas Insulated Cables | Proceedings of 4 th IEEE International Conference ICPS 2011, IIT Madras, December 22-24 th 2011, paper no. 25003. | Gururaj S.Punekar, Tesfaye Nafo, N.K.Kishore |
| 11 | Horizontal component of electric field due to lightning return strokes | Proceedings of 4 th IEEE International Conference ICPS 2011, IIT Madras, December 22-24 th 2011, paper no: 17022. | K Chandrasekaran, Gururaj S Punekar |
| 12 | Application of GA to Identify Lightning Channel Base Current Parameters of First Return Stroke | International Conference on Computational Intelligence and its Applications (ICCIA 2012) March 1 – 3, 2012. | K Chandrasekaran, Gururaj S Punekar |
| 13 | Coordinated voltage control in 3 phase unbalanced distribution system with multiple regulators using genetic algorithm | In Proc of 2 nd International Conference on Advances in Energy Engineering, Bangkok, Thailand,pp.1199-1206, Dec 27-28, 2011. | R.Shivarudraswamy and D.N Gaonkar |
| 14 | Performance study of isolated hybrid power system with multiple generation and energy storage units | IEEE intrrnational conference on power and energy systems(ICPS-2011), IITM Chennai India Dec 23-24,2011 | Jayalaksmi N.S. and D.N. Gaonkar |
| 15 | Dynamic modeling and analysis of an isolated self excited induction generator driven by a wind turbine | IEEE PES international conference on power signals control and computations(EPSICON-2012)Thrissur, Kerala,India,Jan 3-6,2012 | Jayalaksmi N.S. and D.N. Gaonkar |
| 16 | Fuzzy Logic Controlled Microturbine Generation System for Distributed Generation | In Proc of 2 nd International Conference on Advances in Energy Engineering, Bangkok, Thailand, pp.1199-1206, Dec 27-28, 2011. | Sanjeev K Nayak, D N Gaonkar, |
| 17 | Modeling and Performance Analysis of Micro turbine Based Distributed Generation System, "A review" | In Proce, IEEE Energy Tech 2011, Case western Reserve university Cleveland USA May 23-25, 2011. | D N Gaonkar, and Sanjeev Nayak |
| 18 | Combined Model of Fuel Cell and | IEEE-Smart Grid-ISGT-2011, | Sanjeev Nayak D N |

| | | | |
|----|---|---|---|
| | Microturbine Based Distributed Generation System | Middle-East-2011, December 17-20 2011, Jeddah, Saudi-Arabia. | Gaonkar |
| 19 | Performance study of Grid connected fuel cell based distributed generation system with ultra capacitor | IEEE-Smart Grid-ISGT-2011, Middle-East-2011, December 17-20 2011, Jeddah, Saudi-Arabia. | Santhosha Kumar A and D.N.Gaonkar |
| 20 | A Comprehensive Analysis of Reactive Power Pricing in a Competitive Electricity Markets” | IEEE International Conference on Advances in Engineering, Science and Management (ICAESM-2012) held during 30 & 31, March 2012 at E. G. S. Pillay Engineering College, Nagapattinam, Tamil Nadu, India, pp. 472-477 | Tukaram Moger and Stanzin Dodjoo |
| 21 | Geographical Location Based Hierarchical Routing Strategy for Wireless Sensor Networks | IEEE International Conference on Devices, Circuits and Systems (ICDCS'12), March 15-16, 2012, Karunya University, Coimbatore, India. | Pramod Kumar, Ashvini Chaturvedi and M. Kulkarni, |
| 22 | Performance of Power System Stabilizers in A Fixed Series Capacitor Compensated System | Proceedings of IEEE India conference, IDICON-2011, held at Hyderabad, December, 16- 18th 2011. This paper has appeared in IEEE Xplore | Shashidhar M.K and Shubhangi K.N., |
| 23 | Development of A Power System Laboratory Supported By Real-time Systems | Proceedings of the 4th International conference on power systems, ICPS-2011, held at IIT Madras, Chennai, December, 22nd -24th 2011. This paper has appeared in IEEE Xplore. | Danda Surendra and Shubhangi K.N |
| 24 | Some Aspects of Power System Stabilizer Performance in Subsynchronous Resonance Study | Proceedings of the 4th International conference on power systems, ICPS-2011, held at IIT Madras, Chennai, December, 22nd -24th 2011. | Shashidhar M.K and Shubhangi K.N. |
| 25 | MatSim - A Tool to Perform Power System Stability Studies | Centenary Conference-EE, IISc., held at IISc, Bangalore, December, 13th -17th , 2011 | Vinayaka G Yaji, Abhishek G.S and Shubhangi K.N., |
| 26 | A USB-based Multi-channel Frequency Recorder For Power System Applications | Centenary Conference-EE, IISc., held at IISc, Bangalore, December, 13th -17th , 2011. | Ajayrama K., Vinayaka G. Yaji and Shubhangi K.N |
| 27 | Optimal PID Controller Design Using Evolutionary Algorithms | Proceedings ACODS-2012 (IISc), February (16 th -18 th) 2012 | D. Jena and R. Saravan Kumar |
| 28 | A Continuous-Discrete Mode of Optimal Control of AGC for Multi Area Hydrothermal System Using Genetic Algorithm | Proceedings IEEE-ICCCA 2012, February (22 nd -24 th) 2012. | D. Jena and M. Vijay |

Department of Humanities, Social Sciences and Management

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s)* |
|---------|---|---|--|
| 1. | A Study on Greenness of Indian Textile Supply Chain | International Conference on 'Global Impact of Indian Management' organized by The Oxford College of Engineering, Bangalore on 27 th & 28 th April 2011 | Ramanna Shetty and Kiran K.B. |
| 2. | Music and Literature in Early Twentieth Century North Karnataka | Intellectbase Academic Conference in Bangkok, Thailand from March 15-17, 2012 | Dr. Shashikantha K. |
| 3. | ERP implementation at New Mangalore Port, India | 4th International Online Conference on Business and Management (IOCBM 2011), April 28 -30 , 2011 | Sourabh Jain, Kiran Shet, Sequeira A.H. |
| 4. | Customer-Centric Retail Strategy-A New Milestone For Supermarket Retailers in India | 4th International Online Conference on Business and Management (IOCBM 2011),April 28 -30, 2011 | Seema S Shenoy, Sequeira A.H. and Devaraj K. |
| 5. | Barriers to enrolment of micro health insurance – An empirical study of Sampoorna Suraksha Programme in Karnataka | International Conference on 'Innovative Strategies for Global Competitiveness' organized by RV Institute of Management, Bangalore on 8 th to 9 th December 2011, at Bangalore | Savitha and Kiran K.B. |

Department of Information Technology

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s)* |
|---------|---|---|---|
| 1 | "Compact and Efficient CBCD Scheme Based on Integrated Color Features" | IEEE International Conference on Recent Trends in Information Technology (ICRTIT2011), 3-5 June 2011, Chennai. Proceedings published by IEEE, DOI:10.1109/ICRTIT.2011.5972370 | R. Roopalakshmi G. Ram Mohana Reddy |
| 2 | "Efficient Video Copy Detection Using Simple and Effective Extraction of Color Features", | International Conference on Advances in Computing and Communications (ACC-2011), Kochi, India, 22-24 July 2011, In proceedings of Springer-Verlag, Lecture Series - CCIS 193, Part IV, pp. 473-480. | R. Roopalakshmi, G. Ram Mohana Reddy |
| 3 | "A Novel Approach to Video Copy Detection Using Audio Fingerprints and PCA" | 2nd International Conference on Ambient Systems, Networks and Technologies (ANT-2011), "Niagara Falls, Canada, 19-21 Sep 2011, In proceedings of Elsevier - | R. Roopalakshmi, G. Ram Mohana Reddy |

| | | | |
|----|---|---|--|
| | | Procedia Computer Science Journal,5 (2011) 149–156, doi:10.1016/j.procs.2011.07.021 | |
| 4 | "A Novel CBCD Approach Using MPEG-7 Motion Activity Descriptors" | 2011 IEEE International Symposium of Multimedia (ISM) Dana Point, California USA, December 5-7, 2011. Proceedings published by IEEE Computer Society, DOI: 10.1109/ISM.2011.36. | R Roopalakshmi, G Ram Mohana Reddy |
| 5 | "Towards a New Approach to Video Copy Detection Using Acoustic Features" | 5 th International Conference on Internet Multimedia Systems Architecture and Applications (IEEE IMSAA-2011) IIIT-Bangalore, December 12-13, 2011 Proceedings published by IEEE, DOI:10.1109/IMSAA.2011.615633 6. | R. Roopalakshmi and G. Ram Mohana Reddy |
| 6 | "A Comparative Performance Evaluation of Independent Component analysis in Medical Image Denoising" | IEEE International Conference on Recent Trends in Information Technology (ICRTIT2011), 3-5 June 2011, Chennai. | Megha P Arakeri, G. Ram Mohana Reddy |
| 7 | Efficient Fuzzy Clustering Based Approach to Brain Tumor Segmentation on MR Images | International Conference on Computational Intelligence and Information Technology (CIIT – 2011), Springer, November 7-8 , 2011, Pune, India | Megha.P.Arakeri, G.Ram Mohana Reddy |
| 8 | "Recent trends and future potential of computer aided diagnosis of Liver Tumor on computed tomography images" | International Conference on information processing - ICIP 2011 Bangalore, 5-7, August | Megha P. Arakeri, G. Ram Mohana Reddy |
| 9 | "A Hybrid Algorithm for Automatic and Efficient Segmentation of Liver Tumor on CT Abdominal Images" | 2 nd ACEEE International Conference on Recent Trends in Information Processing & Computing (IPC-2011) Nov.14–15, 2011 at Kuala Lumpur, Malaysia. | Megha Arakeri, G Ram Mohana Reddy |
| 10 | "An Approach for Color Edge Detection with Automatic Threshold detection" | International Conference on Advanced Computing, Networking and Security (AdCoNS) NITK Surathkal, Dec. 16-18, 2011. | Arpitha M D, Megha Arakeri, G Ram Mohana Reddy |
| 11 | "Improvement in Packet Drop during Handover between WiFi and WiMax" | International Conference on Network and Electronics Engineering (ICNEE 2011), Singapore, 16-18 September 2011 | B. R. Chandavarkar, G. Ram Mohana Reddy |
| 12 | "Cross Layer Service Driven Adaptive Retry Limit for IEEE 802.11 Mobile Ad-hoc Networks" | IEEE IFIP Wireless Days International Conference (IEEE IFIP – 2011), Oct 10 – 12, 2011 at Niagara Falls, Ontario, Canada. | Kiran M, G Ram Mohana Reddy |
| 13 | "Throughput Enhancement of the Prioritized Flow in | IEEE International Conference on Computer Applications & Industrial | Kiran M, G Ram Mohana Reddy |

| | | | |
|----|--|--|---|
| | Self Aware MANET Based on Neighborhood Node Distances" | Electronics (ICCAIE-2011), Dec 4-8 , 2011 at Penang, Malaysia | |
| 14 | "An Efficient Mining of Dominant Entity Based Association Rules in Multi-Databases" | International Conference on Computer Science, Engineering and Applications (ICCSEA 2011), May 25 - 27, Dubai, UAE. | Ananthanarayana V.S. |
| 15 | "Decentralized Registry Based Architecture for Location-Based Services" | 6th International Conference on Industrial and Information System, ICIIS 2011, Sri Lanka, 16 – 19, August 2011. at University of Peradeniya, Sri Lanka | Melwyn D'Souza, Ananthanarayana V.S. |
| 16 | Dynamic Discovery and Consumption of Local Services in a Decentralized Registry Based Web Services Environment | International Joint Conference on Advances in Engineering and Technology, AET 2011 Date & Venue: December 20-21, 2011 at Noida, India. | Melwyn D'Souza, Ananthanarayana V. S. |
| 17 | Web User Session Clustering Using Modified K-means Algorithm | International Conference on Advances in Computing and Communications, Kochi India, 22-24 July 2011. | Poornalatha G and Prakash Raghavendra |
| 18 | "Alignment Based Similarity Distance Measure for Better Web Sessions Clustering" | The 2nd International Conference on Ambient Systems, Networks and Technologies (ANT-2011), Niagara Falls, Ontario, Canada, Sept 19-21, 2011. | Poornalatha G and Prakash Raghavendra |
| 19 | "Clustering Web Page Sessions Using Sequence Alignment Method" | First Internatinal Conference on Computational Intelligence and Information Technology -CIIT 2011, CCIS (250), Springer Berlin Heidelberg, pp. 479-483, 2011. Nov 7- 8 2011 Pune India | Poornalatha G Prakash S Raghavendra |
| 20 | Achieving Operational Efficiency With Cloud Based Services | IEEE 2011 6 th International Conference on Computer Science & Education (ICCSE 2011), to be held in Singapore, August 3-5, 2011. | Karthik Bellur, Prakash Raghavendra |
| 21 | "Programming cluster of multi-core servers using OpenMP" | International Conference on High Performance Computing 2011 (ICHPC 2011), Japan, May 2011. | Srikanth Raju, Shruti, Prakash Raghavendra |
| 22 | "Enhancement of Cloud Based Services by Efficient Distribution of Workload among Physical and Virtual Machines in the Cloud" | 30th IEEE Symposium on Reliable Distributed Systems (SRDS 2011), Oct 4-7, 2011, Madrid, Spain | Karthik Bellur, Krupal M, Praveen Jain, Prakash Raghavendra, |
| 23 | "CSPR: Column only Sparse Matrix Representation for Performance Improvement on GPU Architecture" | "International Conference on Parallel, Distributed Computing technologies and Applications", Tirunelveli, Tamil Nadu, India, Sept 23-25, 2011. | Neelima Reddy Prakash Raghavendra |
| 24 | Trust Models in Wireless Sensor Network: Research Challenges, | In International Conference on Emerging Trends in Engineering (ICETE-11), held at NMAM | Geetha.V, K. Chandrasekaran |

| | | | |
|----|---|---|---|
| | | Institute of Technology, Nitte during 4th and 5th May 2011. | |
| 25 | Performance Comparison of XSS Mitigations based on Platform and Browsers | 2012 International Conference on Security Science and Technology (ICSST 2012) March 10-12, 2012, Hong Kong | Ravi Kanth Kotha Dinesh Naik Gaurav Prasad |
| 26 | Performance Evaluation of VMware and VirtualBox | 2012 International Conference on Security Science and Technology (ICSST 2012) March 10-12, 2012, Hong Kong | Deepak Damodaran, Biju R Mohan, Vasudevan M S Dinesh Naik, |
| 27 | "Clustering in Wireless Sensor Networks: Performance Comparison of LEACH & LEACH-C Protocols Using NS2" | 2nd International Conference on Computer, Communication, Control and Information Technology (C3IT-2012) February 25-26, 2012, AOIT Institute, Kolkota, India | Geetha. V., Pranesh.V. Kallapur, Suhsma Tellajeera |
| 28 | "Semantic Web - Applications, Challenges & Directions" | 3rd International Conference in IT and Business Intelligence 25-27 Nov 2011, Hyderabad, India. | Sowmya Kamath Prakash Raghavendra |
| 29 | "Performance Measuring and Comparison of Virtual Box and VMware" | International Conference on Information and Computer Networks ICICN 2012 Singapore, February 26-28, 2012 | Vasudevan M.S, Biju R Mohan Deepak K Damodaran |

Department of Mathematical and Computational Sciences

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s)* |
|---------|--|--|---|
| 1 | Representations of Merenne Primes in Number Fields | SM International Conference of IMBC on Mathematical Sciences for Advancement of Science and Technology (MSAST 2011), Kolkata, Dec 18-20, pp174-180 | Shankar B.R. And Sushma Palimar |
| 2 | LES of flow over a Circular Cylinder at high Reynolds Number | Proc. Of IUTAM Symposium on Bluff Body Flows, IIT Kanpur , India, December 2011. | B.N. Rajani, A. Kandasamy and S. Majumdar |
| 3 | Computing Solutions of Iterative Root Problem | Heber International Conference on Applications of Mathematics and. Statistics (HICAMS-2012), Jan 5-7, 2012, pp 710-715 | V. Murugan and E. Murali Krishna |

Department of Mechanical Engineering

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Authors |
|---------|--|--|---------------------------------------|
| 1 | Vacuum Assisted Resin Transfer molding for Matural Hybrid Polymer Composite Material | Second International conference of Recycling and Resume of Materials, ICRM 2011, Aug. 5-7, 20111 | Dr. Saravan Bavan and G C Mohan Kumar |

| | | | |
|---|---|---|--|
| 2 | Conceptual design features and eco-methods for the extraction of natural fibres in the materialistic earth. | 3 rd International Conference of Research in to Design (ICORD- 2011)- supporting sustainable product Development, Indian Institute of Science, Bangalore, India, 10-12 January 2011. Edited by Amaresh Chakrabarti, ISBN: 978-981-08-7721-7, Researching Publishing, Singapore, p 464-471 | Dr. Saravan Bavan and G C Mohan Kumar |
| 3 | Modeling and finite element analysis of green composites for structural applications | 2 nd International Conference of Advancements in Polymeric Materials (APM-2011) – Innovations I materials and product development, Central Institute of Plastics Engineering and Technology (CIPET), Chennai, India, 25-27 March 2011. ISBN: 978-81-309-1790-0, Viva books Private Limited, India. | Saravana Bavan, D Siad, Kamal babu and G C Mohan Kumar |
| 4 | Numerical Stress analysis of High Order Dies for Extrusion of Aluminium | International Conference on Recent Advances in Mechanical Engineering, INCRAIME 2011, Dr. M.G.R. Educational and research Institute University, Chennai, Tamilnadu, India, 21-22, April 2011. | Ali Sabah Al-Turhee and G C Kumar |

Department of Mining Engineering

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s)* |
|---------|--|--|--|
| 1 | “Energy Audit of a 400/220 kV Substation – A Case Study”, | “Energy Audit of a 400/220 kV Substation – A Case Study”, Proceedings of The International Conference & Utility Exhibition on Power and Energy Systems: Issues and Prospects for Asia, September 28-30, Thailand(2011) | Sunil Jaralikar & Mangalpady Aruna. |
| 2 | “Utilization of Iron Ore Tailings in Manufacturing of Paving Blocks for Eco-friendly Mining” | “Utilization of Iron Ore Tailings in Manufacturing of Paving Blocks for Eco-friendly Mining”, Proceedings of International Conference on Green World in Business and Technology 2012, March, Indonesia, 240-251 | Mangalpady Aruna |
| 3 | ”International Conference on Advances in Energy Research 2011“ | ICAER and International conference paper on 9th-11th December 2011 at IIT Bombay | Ganapathi. D.Moger, Ch.S.N.Murthy and Manjunath.A, |

Department of Metallurgical and Materials Engineering

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s)* |
|---------|---|--|---|
| 1 | Preparation and characterization of nanostructured fly ash | International Conference ICNSNT-2011, Gulbarga, India, March 2011 | Akshata G. Patil S. Anandhan |
| 2 | Wetting behavior of Sn-Ag-Zn solders on Zinc coated copper substrates | 8 th International Symposium on Surface Protective Coatings and Paint Expo 2011, The Society for Surface Protective Coatings, New Delhi, 3-5, March 2011. | Sathyaranayana K.N.Prabhu |
| | Wear studies on Wrought and heat treated nimonic, titanium and SuperCosuperalloys | Joint International Conf on Advanced Materials-2011, ICAM 2011, at BTLIT Bangalore, India, during 19'20 th Aug 2011 | Jegadeeswaran, Ramesh M.R., UdayaBhat K. |
| 4 | Effect of Surface Roughness on the passivity of Nickel and Manganese Free High Nitrogen Stainless Steel | CORCON-2011, Mumbai, September 28-30 2011 | S. B. Arya, V. S. Raja, A. N. Tiwari |
| 5 | Characterization of Water base Nanoquenchants by Standard Cooling Curve Analysis | Proceedings of the 19th IFHTSE Congress, Glasgow, UK, 17-20, October 2011. | G. Ramesh K.N. Prabhu |
| 6 | Titanium-Aluminium Intermetallic Thin Films Preparation by DC Sputtering and their Characterization | Int. Nat. Conference on, "Advanced Materials" (ICAM-2011), PSG College of Technology, Coimbatore, India, Dec. 2011 | Sudheendra P. A.O. Surendranathan N.K. Udayashankar K.S. Choudhari |
| 7 | Determination of Fracture Toughness and Crack Growth Rate Using an Alternate Specimen Geometry | Proc. ICAMP 2012, Jan 9-11, 2012, SMBS, VIT University, Vellore, India, pp. 221-226 | Neelakantha V.L. Padmayya Naik T. Jayaraju A. O. Surendranathan Dilip Kumar K. |
| 8 | Characterization of ZnO Nanofiber Arrays Obtained by Electrospinning | India-Australia International Workshop on Nano technology in Materials and Energy Application, Jadavpur University, India, December 2011 | T. Senthil S. Anandhan, |
| 9 | Fly Ash/Engage® Composites – Value added Products from a by-product of Energy Industry | International conference on Recent Advances and Challenges in Energy (RACE-2012), MIT-Manipal, India, January 2012 (Invited paper) | S. Anandhan S. Madhava Sundar |
| 10 | Zinc oxide/carbon nanotube composite as electrochemical supercapacitor | International conference on nanoscience and technology (ICONSAT-2012), during Jan 20-23, 2012 held at Hyderabad, India | Aravinda L.S. Bedakai Ramachandra Bhat UdayaBhat K. |
| 11 | Surface Modification of Steels using Friction Stir Surfacing | International conference on advanced materials and processing-ICAMPS2012 held at Trivendrum during Jan 19-21, 2012 | Janakiraman S., Jayachandra Reddy, Sathish V Kailash, UdayaBhat K |
| 12 | Effect of deposition time on the | International conference on advanced | Venkat Ram |

| | | | |
|--|---|---|--|
| | characteristics of high phosphorous nickel deposit, deposited using electroless route | materials and processing-ICAMPS2012 held at Trivendrum during Jan 19-21, 2012 | Reddy, Bharath Dixit, UdayaBhat K. |
|--|---|---|--|

Department of Physics

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s)* |
|---------|--|---|---|
| 1. | Properties of the Zinc Oxide Nanofiber Thin Films Grown by Spray Pyrolysis Technique | M3 conference 2011, Singapore, 12-13 December 2011 | Sadananda kumar N Kasturi V. Bangera, G.K. Shivakumar |
| 2. | Study of the aluminium oxide doped zinc oxide thin films prepared by thermal evaporation technique | International Conference on Thin Films and Applications. SAASTRA University, March 15-17 | Sowmya Palimar Kasturi V. Bangera, G.K. Shivakumar |
| 3 | Optical Power Limiting Behavior of Organic Dye and its Application in Human eye and Sensor Protection under CW He-Ne Laser Irradiation at 633nm | ICMAT 2011 - International Conference on Materials for Advanced technologies, 26 June - 1 July, 2011, Suntec, Singapore | Poornesh P, Manjunatha K.B. and Umesh G |
| 4 | Studies on Third-Order Nonlinear Optical Properties and Optical Power Limiting in Chalcone / PMMA Composite Films | ICMAT 2011 - International Conference on Materials for Advanced technologies, 26 June - 1 July, 2011, Suntec, Singapore | Poornesh P, Manjunatha K.B. and Umesh G |
| 5 | Surface Plasmon Propagation in Metal – Insulator – Metal Waveguide: Simulation Studies | Recent Trends in Nanophotonics" IIT Delhi, Sep 30-Oct 1, 2011 | Shourie Ranjana J, G. Umesh |
| 6 | Planar Laser Induced Fluorescence of Acetone for Turbulent Gas Flow Visualization from Subsonic Ejector | 3rd International Conference On "Current Developments In Atomic, Molecular, Optical & Nano Physics" CDAMOP 2011, University of Delhi, Delhi. December 14-16, 2011 | Shelar Vikas M., G. Umesh |
| 7 | Synthesis, Growth And Characterization of 1-(5-chlorothiophen-2-yl)-3-(2,4,5-Trimethoxyphenyl)Prop-2-en-1-one Single Crystal: A Potential NLO Material | International Conference on Light, 23 -25 May 2011, National Institute of Technology Calicut, Kerala, India | A .N. Prabhu, V. Upadhyaya, Jayarama A, M Srinivasulu, Manjunatha K.B., G. Umesh |
| 8 | Synthesis, Characterization and Third Order Nonlinear Optical Studies of Diimine Based Zn(II), Cd(II) and Hg(II) Complexes | International Conference on Light, 23 -25 May 2011, National Institute of Technology Calicut, Kerala, India | B.J. Rudresha, Ramachandra Bhat B, Manjunatha K.B. and G. Umesh |
| 9 | Third-Order nonlinear optical properties and optical switching of Palladium (I) Complex | International Conference on Light, 23 -25 May 2011, National Institute of Technology Calicut, Kerala, India | Manjunatha K.B., Dileep R., Shelar Vikas M, G. Umesh, M. N. Satyanarayan |

| | | | |
|----|--|--|--|
| | | | and B. Ramachandra Bhat |
| 10 | Titanium – Aluminum Intermetallic Thinfilms preparation by DC Sputtering and their characterization (ORAL) | International Conference on Advanced Materials, ICAM – 2011, PSG College of Technology, Coimbatore. (December 2011) | P. Sudheendra, N.K Udayashankar |
| 11 | Titanium – Aluminium Intermetallic Thin Films Preparation by Dc Sputtering And Their Characterization (POSTER) | International Conference on Thin Films & Applications (ICTFA-2012), School of Electrical & Electronics Engineering, SASTRA University, Thanjavur – 613 401, Tamil Nadu. (March 2012) | P. Sudheendra N.K.Udayashankar |
| 12 | Synthesis and characterization of Novel Naphthalide derivatives for Blue Organic Light Emitting Diodes | International Conference on Recent Trends in Advanced Materials ICRTAM, School of Advanced Sciences, VIT University, Vellore, Tamil Nadu, February 20-22, 2012. | Hidayath Ulla, Garudachari B, Jean Maria Fernandes, Satyanarayan M.N., Umesh G, Islor A.M. |
| 13 | Optical Behavior of Binary Calcium Phosphate and Barium Phosphate Glasses | International Conference on Specialty Glass and Optical Fiber, Materials, Technology and Devices (ICGF – 2011). 4 - 6 August, 2011 at CSIR-CGCRI, Kolkata, India | G.Venkateswara Rao, H.D.Shashikala |
| 14 | Preparation and Characterization of Copper doped Calcium Phosphate Glasses | The Third International Conference on Frontiers in Nanoscience and Technology. Cochin Nano – 2011, August 14-17, Cochin, India | G. Venkateswara Rao, K.K.Nagaraj, H.D. Shashikala, H.S. Nagaraja, |
| 15 | Preparation and characterization of ZnWO ₄ fine particles and thin films | Third International Conference on Frontiers in Nanoscience and Technology (Cochin Nano-2011) 14-17 August 2011, Cochin, India | Santhosh kumar A, Nagaraja K.K, Nagaraja H.S |
| 16 | Preparation and characterization of TiO ₂ and Sn doped TiO ₂ thin films | International Conference on Thin Films & Applications (ICTFA-2012), 15-17 March 2012 SASTRA University, Thanjavur, India | Santhosh kumar A, Nagaraja K.K, Nagaraja H.S |

NATIONAL CONFERENCES

Department of Applied Mechanics and Hydraulics

| Sl. No. | Title of paper | Conference name. Vol. Issue, Page No.s | Author(s)* |
|---------|--|---|-----------------------------------|
| 1. | Semicircular and Quarter-circular breakwater – a state of art review | National conference on Green Technology, 24-25, January, 2012, Institution of Engineers (I) at Mangalore, India | Yogesh K R and Arkal Vittal Hegde |

| | | | |
|-----|---|--|--|
| 2. | Study on stability berm breakwater with artificial armour units | National Conference on Hydraulics and Water Resources – HYDRO-11 held at SVNIT, Surat during 29 to 30 December, 2011, pp 1181-1187 | Subba Rao, Kiran G Shirlal, Balakrishna Rao K, Prashanth J and Sharath Kumar |
| 3. | ANN and SVM Modelling in predicting damage level of non-reshaped berm breakwater | National Conference on Hydraulics and Water Resources – HYDRO-11 held at SVNIT, Surat during 29 to 30 December, 2011, pp 936-943 | S Mandal, Subba Rao, Harish N and Lokesha |
| 4. | Physical model study on submerged reef of concrete cubes | National Conference on Hydraulics and Water Resources – HYDRO-11 held at SVNIT, Surat, during 29 to 30 December, 2011, pp 510-516 | Manu, Kiran G Shirlal and Subba Rao |
| 5. | Cost Estimation in Construction Projects | National Conference on Latest Advancements in Civil Engineering – LACE 2011, RMK Engineering College, Kavaraipettai, Tamilnadu, 23 rd April 2011, pp 26, ISBN-978-81-920889-5-2. | Subrahmanyam K. and Hassaneen Salam Hussain |
| 6. | Cost Meetings' Process in Construction Process | National Conference on Latest Advancements in Civil Engineering – LACE 2011, RMK Engineering College, Kavaraipettai, Tamilnadu, 23 rd April 2011, pp 31, ISBN-978-81-920889-5-2. | Subrahmanyam K. and Hassaneen Salam Hussain |
| 7. | Water Budgeting for Coastal Humid Wetlands | National Conference on Latest Advancements in Civil Engineering – LACE 2011, RMK Engineering College, Kavaraipettai, Tamilnadu, 23 rd April 2011, pp 150-155, ISBN-978-81-920889-5-2. | Subrahmanyam K., Mahesha A. and Mohan K. N. |
| 8. | Evaluation of Plemmons Performance Measures for Material Management Process in Industrial Construction Projects | National Conference on Latest Advancements in Civil Engineering – LACE 2011, RMK Engineering College, Kavaraipettai, Tamilnadu, 23 rd April 2011, pp 150-155, ISBN-978-81-920889-5-2 | Subrahmanyam K. and Vinay P. R |
| 9. | Aquifer Parameter Estimation for Coastal Humid Wetlands | National Conference on Water Conservation and Management, NITK Surathkal, March 22, 2011 | Subrahmanyam K. and Mohan K. N |
| 10. | Scheduling of Construction Projects | National Conference on Recent trends in Computational Sciences and Engineering – NCRTCSE – 2011, K V G College of Engineering, Sullia, 12 th February, 2011, pp 41 | Subrahmanyam K. and Hassaneen Salam Hussain |
| 11. | Earned Value Management – An Integrated Project Management Approach | PMI India Research & Academic Conference on Project Management, 9-10 December 2011, NICMAR, Pune, India | Subrahmanyam K., Jomo Peter and Shiji S. G |

Department of Civil Engineering

| Sl.No | Title of the Paper | Conference Name, Place, Dates, Page Nos | Author (s) |
|-------|---|--|--|
| 1. | Treatment of Coffee Wastewater Using Sequential Anaerobic-aerobic-Advanced Oxidation Processes for Possible Reuse/Recycle | Conference on Water Conservation and Management (WCM-2011), Surathkal March 22 nd 2011. | B. Manu and Anupama |
| 2. | Fenton's Oxidation for the Treatment of Water containing Phenlyenediamines | Conference on Water Conservation and Management (WCM-2011), Surathkal March 22 nd 2011 | Indresh N and B.Manu |
| 3. | Importance of Continuous Variation in Soil Properties instead of Layered Idealization in Seismic Response Study of Ground | Proceedings of Indian Geotechnical Congress, Kochi, 2011. | Vijayendra, K. V., Prasad, S. K., and Sitaram Nayak., |
| 4. | Geology – Its Role in Civil Engineering Projects | National Seminar on Disaster Management and Mitigation, Kalasalingam University, Tamilnadu, 16 th Sep 2011. | D.V. Reddy |
| 5. | Earth Quake Engineering | National Seminar on Disaster Management and Mitigation, Kalasalingam University, Tamilnadu, 16 th Sep 2011. | Katta Venkataramana |
| 6. | Vibration control of steel truss railway bridge using Tuned Mass Dampers | National Seminar on Design and Construction of Bridges , Hyderabad, 22 nd -24 th July 2011. | Prashanth. M.H, Ravikumar. C.M, and Rakshith S. Shetty |
| 7. | Soft Computing for Water Quality Assessment and Prediction | Twenty Seventh National Convention of Environmental Engineers, The Institution of Engineers (India), Mangalore, 24-25 th Jan 2012. Pp 77. | Vinayak Phatki, Shrihari, S and Manu. B, |
| 8. | Phyto-remediation of Treated CETP Effluent using Floating Hydrophytes | Twenty Seventh National Convention of Environmental Engineers, The Institution of Engineers (India), Mangalore, 24-25 th Jan 2012. Twenty Seventh National Convention of Environmental Engineers, The Institution of Engineers (India), Mangalore, 24-25 th Jan 2012, pp 69-71 | Sumathi Selvaraj, M.N.Madhystha, Shrihari. S, and G.S.Bharadwaj, |
| 9. | Reuse of Textile Mill Sludge as Building Material | Twenty Seventh National Convention of Environmental Engineers, The Institution of Engineers (India), Mangalore, 24-25 th Jan 2012. Pp 62-65. | Shrikant Jahargirdar, and Shrihari. S., |

| | | | |
|-----|---|--|---|
| 10. | Impact of Mining Activities on Ground Water Table – A Study on the Quantitative Impacts using Modeling Techniques | Twenty Seventh National Convention of Environmental Engineers, The Institution of Engineers (India), Mangalore, 24-25 th Jan 2012. Pp 59-61 | Sharma A., Ch.S.N. Murthy, and Shrihari .S, |
| 11. | Role of Shear Keys in Cantilever Retaining Wall | Indian Geotechnical Conference, Cochin, December 2011 | Nisha Sarath, R. Shivashankar and A.U. Ravi Shankar |

Department of Chemical Engineering

| Sl. No. | Title of Paper | Conference Name, Place, Dates, Page Nos. | Author(s)* |
|---------|---|---|--|
| 1 | Effect of the Growth Media on Cr(VI) Reduction by a Newly Isolated Strain of Bacteria | National level technical conference on “Advances in Chemical Engineering” CHEMCORE-2011 held at M.V.J. College of Engg., Dept. of Chemical Engg., Bangalore on 7 th & 8 th April, 2011. | Narayani M., Vidya Shetty K., |
| 2 | Halophilic bacteria and their compatible solutes – osmoregulation and potential applications. | Current Science, Vol. 100:10;1516-1521. 2011. | Pooja Shivanand and Gopal Mugeraya |
| 3 | Optimization of Critical medium Components using Response Surface Methodology for laccase production by Peniophora sp. hpF04” | Journal of Microbiology and Biotechnology Research, 2(1), 46-56. | Harisha Poojary and Gopal Mugeraya |
| 4 | Optimization of Critical medium Components using Response Surface Methodology for laccase production by Peniophora sp.hpF04 | Journal of Microbiology and Biotechnology Research. 2(1), 46-56. 2012 | Harisha Poojary and Gopal Mugeraya |
| 5. | Decolorization of malachite green by laccase enzyme produced by Peniophora sp hpF-04 | International conference on advances in biological sciences (ICABS2012), March 15-17, Kannur, India. Pp. 84. | Amandeep Kaur, Harisha Poojary and Gopal Mugeraya |
| 6. | Effect of alternative carbon and nitrogen sources on production of laccase by Pleurotus sp.F-16/6 | International conference on advances in biological sciences (ICABS2012), March 15-17, Kannur, India. Pp 77. | Akshata Hoskeri, Harisha Poojary and Gopal Mugeraya, |

*Note : Papers with multiple authors from the same Department must be listed only once.

Department of Computer Engineering

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s)* |
|---------|---|--|--|
| 1 | "Fortifying Web Services using Custom Paros Proxy Extension" | National Conference on Network and Distributed Systems Security NCNDSS 2011, India | Vipul Patel, Radhesh M, Alwyn R Pais |
| 2 | "Responsive system for DDoS Attack against Apache Web Server" | National Conference on Network and Distributed Systems Security NCNDSS 2011, India | Prashanth Kulkarni, Radhesh M , Alwyn R Pais |

Department of Electronics and Communication Engineering

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s)* |
|---------|--|---|--|
| 1. | Pull-in analysis of RF MEMS shunt capacitive switches | Proc. of National Conference on Advanced Technologies in Electrical and Electronic Systems (ATEES2012), Belgaum, 17-18 Feb, 2012. | E. S.Shajahan M. S. Bhat |
| 2. | Ultra Low Power 6-bit Flash ADC using 0.5V supply in 180nm CMOS Technology | Proc. of National Conference on Advanced Technologies in Electrical and Electronic Systems (ATEES2012), Belgaum, 17-18 Feb, 2012. | Rajeev Komar M S Bhat Tonse Laxminidhi |

*Note: Papers with multiple authors from the same Department must be listed only once

Department of Electrical And Electronics Engineering

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s)* |
|---------|--|--|--|
| 1 | Application of Genetic Algorithm to Reactive Power Optimization | National Systems Conference 2011, held during 9 th to 11 th December 2011 at Indian Institute of Technology (IIT) Bhubaneswar, Odisha, India, pp. 278-286 | Tukaram Moger and Durga Prasad Gudavalli |
| 2 | A Genetic Algorithm Based Approach to Optimal Power Flow Problem | Second National Conference on Power Electronics and Renewable Energy Systems (PEARES 2012), held during March 22-23, 2012 at SSN College of Engineering, Kalavakkam, Tamil Nadu, India | Tukaram Moger and Siva Kumar Villuri |

Department of Humanities, Social Sciences and Management

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s)* |
|---------|---|---|---|
| 1. | Strategic Management Practices in Centrally Funded Technical Institutions(CFTIs) in India | The 11th Consortium of Students In Management Research-COSMAR, Dept. of Management Studies, Indian Institute of Science, Bengaluru, October 21, 2011. | Raghunandhan T. and Sequeira A.H. |
| 2. | Design of a New Conceptual Framework for Supermarket Retailers in India | National conference on Retail Excellence -NCRE 2011, Jagan Institute of Management Studies, New Delhi, October 11, 2011. | Seema S Shenoy, Sequeira A.H.and Devaraj K. |

*Note: Papers with multiple authors from the same Department must be listed only once

Department of Mechanical Engineering

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Authors |
|---------|--|---|---|
| 1 | Performance analysis and emission characteristics of LPG injection MPFI four cylinder petrol engine using stream induction | 22 nd National conference on IC Engine and combustion at NIT, Calicut in Dec. 2011 | Suresh Kumar Y |
| 2 | A Study of Mechanical and Morphological Properties of Natural Fibers Reinforced Epoxy Polymeric Resin | 5 th National conference on plastic and rubber technology (NCPRT) POLYCON-2011, Sri Jayachamarajaendra college of Engineering, Mysore, India, 25-26 April 2011. | Saravana Bavan D and G C Mohan Kumar |
| 3 | A novel decorator design for natural plant fibres | National Conference on Design and Manufacturing (NaConDM2011), at Indian Institute of Technology Design and Manufacturing (IITD&M) Kancheepuram, IIT Madras Campus, 27-28 May 2011. | Saravana Bavan D, Kamalbabu P and G C Mohan Kumar |
| 4. | Various Aspects in Extrusion of Biocomposite Materials: A Review | 5 th National Conference on plastic and rubber technology (CPRT) POLYCON- 2011, Sri Jayachamarajendra college of Engineering, Mysore, India 25-26 April 2011 | Kamalbabu P and G C Mohan Kumar |
| 5. | Heat transfer analysis in unidirectional fibre reinforced composite using finite element method | 5 th National conference on plastic and rubber technology (NCPRT) POLYCON – 2011, Sri Jayachamarajendra college of Engineering, Mysore, India – 25-26 April 2011 | Syed Fahemullah and g C Mohan Kumar |

National Institute of Technology Karnataka, Surathkal

| | | | |
|----|--|---|--|
| 6. | Establishment of Optimum Number of Scanning Points for a Scanning features using Ultra Precision CMM | 1 st National Conference on Advanced in Metrology, CMIT, Bangalore, India (2011) | K Niranjan Reddy Nithin Narayanan P V Shashi Kumar Sudhakar C Jambagi |
|----|--|---|--|

Department of Mining Engineering

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s)* |
|---------|--|--|--|
| 1. | “A Comparison of Lux Levels and Energy Conservation of Different Lighting Systems Used Generally in Surface Mining Projects” | National Conference on NCREEECT 14th October 2011 at BNMIT Bangalore | N.LakshmiPathy, Ch.S.N.Murthy and M.Aruna, |
| 2 | “Recent Investigations In Electrical Engineering Using Experimental & Computational Techniques” | National conference on NCREEECT 14th October 2011 at BNMIT Bangalore | Ganapathi.D.Moger and Ch.S.N.Murthy. |

*Note: Papers with multiple authors from the same Department must be listed only once

Department of Metallurgical and Materials Engineering

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s)* |
|---------|---|---|--|
| 1 | Processing of Tubular Commercial Purity Aluminium by ECAP | Golden Jubilee National Conference on Advances in Mechanical Engineering (AIM ENGG – 2011), 03-05 January, 2011, Manipal Institute of Technology | James Valder, Rijesh M. A. O. Surendranathan |
| 2 | Utilization of Industrial Waste | National Seminar on Geology, Mining, Processing, Metallurgy and environmental issues of economic mineral deposits, April 30 – May 1, 2011 | Anil Kumar Patil, Shivamurthy, Siddalinganagouda and K. L. Bhat |
| 3 | The wear and Izod fracture of PY-based c/c composites | Proc. Nat. conference on, “Modern trends in science and technology, MTST-11”, Dr. M. V. Shetty Institute of Technology, Moodabidri, 14-15, October, 2011, p. 34 | Padmayya Naik, A. O. Surendranathan Purandar Naik, |

*Note: Papers with multiple authors from the same Department must be listed only once

Department of Physics

| Sl. No. | Title of paper | Conference Name, Place, Dates, Page Nos. | Author(s)* |
|---------|---|--|---|
| 1. | Conductive and transparent undoped ZnO thin films | 56th DAE Solid State Physics Symposium 2011, SRM University Chennai, 19-23 | Sowmya Palimar, G.K. Shivakumar, Kasturi V. Bangera |

National Institute of Technology Karnataka, Surathkal

| | | | |
|---|---|--|--|
| | | December, 2011 | |
| 2 | Effect of Heat Treatment on the Sputter Deposited Titanium Aluminide Thinfilms (ORAL) | National Conference in Physics CAPSRAA – 2011 Govindadasa First grade college, Surathkal. (October 2011) | P. Sudheendra N.K.Udayashankar |
| 3 | Potential Blue Emitting Materials for Organic Light Emitting Diodes | National Seminar on Current Trends in Materials Science NSCTMS-2012, NSS Hindu College, Changanacherry, Kottayam, Keral, March 7th & 8th, 2012 | Hidayath Ulla, Garudachari B, Jean Maria Fernandes, Satyanarayan M.N., Umesh G, Isloor A.M. |

*Note: Papers with multiple authors from the same Department must be listed only once

14.0 TECHNICAL EVENTS

STTPs/Schools/Conferences/Seminars/Workshops, etc

Department of Applied Mechanics and Hydraulics

| Type of event | Name of event | Dates & Duration | Sponsor (s) | Co-ordinator |
|---------------|---|--|-------------|-------------------------|
| STTP | Fuzzy logic, genetic algorithm with wavelet transformation in Civil engineering | 27 th June to 1 st July 2011 | AICTE-MHRD | Dr. Paresh Chandra Deka |

Department of Chemical Engg.

Foreign visitors to Department

Prof. Alberto Coronas of U.R.V., Spain on 03.01.2011

Sri. B. N. Bankapur, Director (Refineries), Indian Oil Corporation Limited, New Delhi on August 6th, 2011.

Dr. Girish G.Rao, General Manager, Shell India on 15th March 2012.

Department of Civil Engg.

STTPs/Schools/Conferences/Seminars/Workshops, etc

List of Courses/Workshops Conducted in the Department:

| Type of Event | Title of the Course | Period | Sponsors | Coordinators |
|--|--|-------------------------------|--|--|
| Refresher Courses for Practising Engineers | Environmental Impact Assessment | 25-29 th May, 2011 | CCE,NITK and KERS, Mysore | Dr.B.Manu |
| | RCC Detailing, Mix Design and Quality Control | 17-21, Oct, 2011 | | Dr.M.C Narasimhan and Er.M.H.Prashanth |
| Technical Workshop | 2-day Workshop on "Table-Top Airports and Safety Issues" under the aegis of NITK and Mangalore Airport Diamond Jubilee Celebration Committee | 29-30 th Oct 2011 | Karnataka Bank Indian Overseas' Bank Canara Bank | Dr.A.U.Ravishankar and Dr.G.Umesh |
| National Convention | 27 th National Convention of Environmental Engineers on the theme "Green Technology" | 24-25 th Jan 2012 | Institution of Engineers (India) | Dr.S.Shrihari |
| Industry-Institute Interaction Meet | Technical Talk on "Blended Cements for Infrastructure Projects" by Mr.C.V.Suhasan, Sr.General Manager, Ms Dalmia Cements | 28/09/2011 | M/s Dalmia Cements, Mangalore Region | Dr. M.C.Narasimhan |

Visits of Foreign Dignitaries/Experts to the Department

| Sl.No | Name of the Visitors | Designation and Affiliation | Purpose of Visit | Dates of Visit |
|-------|-------------------------------|--|---|--------------------------|
| 01 | Dr. David Scoelhammer | Research Hydrologist, U.S. Geological Society, Sacramento & Adjunct Professor, University of California, Davis | Research Interaction under FULL-BRIGHT Senior Specialist Scheme. Local Host: Prof.S.Srihari | Jan-Feb 2012 (six weeks) |
| 03 | Dr. Pradeep Kumar Ramancharla | Professor, Indian Institute of Information Technology, H'bad | Expert Lectures on Earthquake Resistant Design of Structures to Post-Graduate students. Coordinator: Dr.K.Venkataramana | Feb 2011 |

Memorandum of Understanding with Universities Abroad:

A delegation consisting of Prof. Ryosuke Kitamura and two graduate students, Mr. Kentaro Koike and Mr. T. Kyotoku from Department of Ocean Civil Engineering, Kagoshima University, Japan visited the Department for Research Interaction during 14-17 March 2011, under the aegis of the MOU with that University. During their visit, on 15/03/2012, the following lectures were arranged for the benefit of the students of the Department.

1. Prof. R. Kitamura - Soil Mechanics for Unsaturated Soils
2. Mr. Kentaro Koike – A Study on the Durability of High-content Fly-ash Mixtures under Marine Environment
3. Mr. Takerhui Kyoyoku - A Study on the Durability of Concrete using Triple-blended Cements containing Ground Granulated Blast furnace Slag and Fly-ash.

Visits Abroad by Departmental Faculty

The following staff members visited the Universities abroad during the period of Report either for research interactions or for presenting their research papers in the International Conferences

| Sl.No | Name of the faculty | University Visited | Period of Visit |
|-------|----------------------|-------------------------------------|-------------------------------|
| 01 | Dr. R. Shivashankar | Univ. of Western Australia, Sydney; | 4-14 th May 2011 |
| 02 | Dr.B.R.Jayalekshmi | Univ. of Newcastle, NSW; | |
| 03 | Dr.A.U.Ravishankar | McGill University, Montreal,Canada | 1- 5 th Aug 2011 |
| 04 | Dr. K.Swaminathan | Kagoshima University, | |
| 05 | Dr. K.S.Babu Narayan | Japan | 4-10 th Aug 2011 |
| 06 | Dr.B.M.Sunil | | |
| 07 | Dr. B.Manu | Malaga , Spain | 14-16 th Sept 2011 |
| 08 | Dr. K.S.Babu Narayan | Kumamoto University Japan | 4-14 th Dec 2011 |
| 09 | Dr. B. Manu | Dubai, UAE | 7-8 th Jan 2012 |
| 10 | Dr. D.V.Reddy | Kumamoto University, Japan | 4-6 th March 2012 |

Conferences/ Seminars / Training programs attended by the Faculty

Dr. R. Shivashankar and Dr.B.R.Jayalekshmi attended the 13th Conference IACMAG Conference on Computer Methods for geo-mechanics – Frontiers and New Applications held at Univ. of Western Sydney, Australia during 9-11th May 2011.

Dr.A.U.Ravishankar and Dr. K.Swaminathan attended the AES – ATEMA International Conference 2011 held at McGill University, Montreal, Canada during the first week of August 2011.

Dr.Katta Venkataramana and Dr.D.V. Reddy attended the National Seminar on Disaster Management and Mitigation, Kalasalingam University, Tamil Nadu, 16th Sep 2011 and presented key-note lectures.

Dr.B.Manu attended the IV International Conference on Environmental, Industrial and Applied Microbiology (BIOMICROWORLD 2011) held at Malaga, Spain, during 14-16th Sept. 2011

Dr.D.V.Reddy attended the International Conference on Advances In Civil Engineering – Ace 2011 held at Guntur during . Selected research papers presented in this conference have been included in three special issues of the International Journal of Earth Sciences and Engineering (October 2011 Volume 04 No 06) of which he is the Chief Editor.

Dr.B.R.Jayaleksmi attended the International conference on Structural Mechanics in Reactor Technology (SMiRT 21) at New Delhi during 06th – 11th Nov 2011.

Dr.Varghese George and Dr.D.V.Reddy attended the International Engineering Symposium 2012 held during 4-6th March 2012 at Kumamoto University, Japan

Department of Chemistry STTPs/Schools/Conferences/Seminars/Workshops, etc

Foreign Visitors to Department: 03

| Name of Visitor | Designation & Affiliation | Purpose of visit | Dates of Visit |
|---------------------|--|----------------------------------|--------------------------|
| Dr. Victoria Volkis | Associate Professor, Chemistry Dept., University of Maryland, Eastern Shore, USA | Collabration with Dr Arun Isloor | 10-08-2012 to 20-08-2012 |
| Dr. Rosenani Haque | Associate Professor, Chemistry Dept., Universiti Sains Malaysia, Penang, Malaysia. | Collabration with Dr Arun Isloor | 07-11-2012 to 11-11-2012 |
| Prof. H.K Fun | Professor, X-ray crystallography unit, School of Physics, Universiti Sains Malaysia, Penang, Malaysia. | Collabration with Dr Arun Isloor | 07-12-2012 to 13-12-2012 |

Experts visited the Department

- (1) Dr. Victoria Volkis
- (2) Dr. Rosenani Haque
- (3) Prof. H.K Fun
- (4) Dr. Gurumurthy Hegde

Department of Computer Engineering

STTPs/Schools/Conferences/Seminars/Workshops, etc

| Type of Event | Name of Event | Dates & Duration | Sponsor(s) | Coordinator(s) |
|--------------------------|---|---|---------------------|---|
| Summer School | "Next Generation Data Management" | 13 th -17 th June 2011 | AICTE MHRD | Dr. P. Santhi Thilagam, Mr. Mahendra Pratap Singh |
| A short Programme | "Opportunities for Engineers, Government Support & Procedure for Availing credit" | 18 th June 2011 | | Dr. P. Santhi Thilagam |
| AICTE MHRD | "Simulation of Wireless Networks" | 20 th - 24 th June 2011 | AICTE MHRD | Dr. K. C. Shet, Mr. B. R. Chandavarkar |
| International Conference | "Advanced Computing, Networking and Security" | 16 th - 18 th December 2011 | | Dr. P. Santhi Thilagam |
| Expert lecture | "openADN: An Application Delivery Network Architecture for Future Internet Evolution" by Prof. Raj Jain | 17 th December 2011 | | Dr. P. Santhi Thilagam |
| Keynote Lecture | "Information Security in Modern Computing Systems and Networks" by Colonel Rajmohan | 17 th December 2011 | | Dr. P. Santhi Thilagam |
| Expert lecture | "Agile Technologies" by Dr. Narasimha Murthy | 20 th January 2012 | | |
| One day workshop | "Address on Information Security" by Dr.K.V.Rao | 04 th February 2012 | DIT, New Delhi, GOI | Mr. Alwyn Roshan Pais , Mr. K.Vinay Kumar |

Foreign Visitors to Department

Prof. Raj Jain, Washington University in Saint Louis , delivered a expert lecture openADN: An Application Delivery Network Architecture for Future Internet Evolution on 17-12-2011. This talk was sponsored by ISEA-Project, MCIT New Delhi.

Department of Electrical And Electronics Engineering

STTPs/Schools/Conferences/Seminars/Workshops, etc

| Type of Event | Name of Event | Dates & Duration | Sponsor(s) | Coordinator(s) |
|-----------------|--|---------------------|------------|----------------|
| Invited lecture | Over voltages & Insulation coordination for EHV/UHV systems by Mr. Chandrashekhar R A, Sr. Engineer - Core Team, Power Research & Development Consultants Pvt Ltd. (PRDC), Bangalore – 86. | 16/09/2011 3 hrs | | Dr.K.P.Vittal |
| Invited lecture | High Speed protection of over head equipments in the traction system, by Dr. R. P. Maheshwari, Professor, Department | 14/09/2011 3 hrs | | Dr.K.P.Vittal |

| | | | | |
|--|--|--|--|--|
| | of Electrical Engineering, Indian Institute of Technology, Roorkee | | | |
|--|--|--|--|--|

Department of Electronics And Communication Engineering

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

| Type of Event | Name of Event | Dates & Duration | Sponsor(s) | Coordinator(s) |
|-----------------------------|--|---|--|--|
| Faculty Development Program | Intel Embedded Initiative | 6 th – 7 th January 2012 | Intel | Dr. Sumam David Mr. Ramesh Kini Dr. Aparna P |
| STTP | MEMS Design Software Guided and Free Space Optical Communication Systems and Networks (GFSOCNSN'11) HFSS-Electromagnetic Simulation Software Exata Emulator and WSN application Mote View WSN Kits | 30 th May to 4 th June 2011 16 th – 20 th August 2011 29 th & 30 th September 2011 7 th February 2012 17 th February 2012 | NPMASS, GOI AICTE-MHRD RFMEMS (DIT) Nihon Communication Solutions Intrinsic solutions Bangalore | Dr. G Umesh Dr. M S Bhat Dr. Muralidhar Kulkarni Dr. U Sripati Dr. M S Bhat Dr. T Laxminidhi. Mr. N S V Shet Mr. N S V Shet |
| Summer University Programme | NITK-HEIG-VD Joint Summer University on Image and Signal Processing (SU-ISIP 2011-12) | 27 th February to 7 th March 2012 | NITK Surathkal | Dr. Sumam David |

Foreign Visitors to Department

| Name of Visitor | Designation & Affiliation | Purpose of visit | Dates of Visit |
|---|---|--|---|
| Dr. Amod Jai Ganesh Anand Kumar | Ph.D, Loughborough University, UK, 2011 | Dynamic Spectrum Access in next Generation Wireless Communication Networks | 9 th September 2011 |
| Prof. Michel Kocher and Prof. Pieere Bressy | HEIG-VD, Switzerland | Discussion on Summer University on Image and Signal Processing | 27 th February to 7 th March 2012 |

Department of Humanities, Social Sciences and Management

| Type of Event | Name of Event | Dates & Duration | Sponsor(s) | Coordinator(s) |
|---------------|----------------------------------|---------------------|---|--------------------------------------|
| STTP | Effective Teaching Methodologies | 13 to 17 June, 2011 | Technical Education Quality Improvement Programme (TEQIP) phase II. | Dr. K.B. Kiran and Dr. B.M. Dodamani |

A Short Term Training programme (STTP) at NIT, Goa

A Short Term Training Programme (STTP), “Effective Teaching Methodologies” was conducted at NIT Goa. The programme was jointly coordinated by the Dept. of Humanities, Social Sciences and Management and Department of Applied Mechanics and Hydraulics. Dr. K.B. Kiran and Dr. B.M. Dodamani coordinated to STTP during 13 to 17 June, 2011 in the premises of the NIT Goa. The programme was funded by Technical Education Quality Improvement Programme (TEQIP) phase II.

Summer University 2012

As part of MOU with HEIG-VD, School of Business and Engineering, University of Applied Sciences, Western Switzerland; ‘Summer University 2012’ was organized at NITK on Business Engineering and Intercultural communication from 27th February to 8th March 2012. Dr. K.B. Kiran coordinated the programme.

Foreign Visitors to Department

| Name of Visitor | Designation & Affiliation | Purpose of visit | Dates of Visit |
|---|--|---|---|
| Prof. Laurence Larghi Prof. Bernard Collet | Swiss Professors, School of Business and Engineering, HEIG-VD, Switzerland | Faculty and Student Exchange programme | 20 th to 30 th October 2011 |
| Prof. Laurence Larghi Prof. Bernard Collet Prof. Eytan Zysman | Swiss Professors, School of Business and Engineering, HEIG-VD, Switzerland | Summer University on Business Engineering and Intercultural communication | 27 th February to 8 th March 2012 |

Department of Information Technology STTPs/Schools/Conferences/Seminars/Workshops, etc

| Type of Event | Name of Event | Dates & Duration | Sponsor(s) | Coordinator(s) |
|---------------|--|------------------|--------------|---------------------------------------|
| Summer School | “Web Technologies - Research and Challenges” (WTRC 2011) | 6-10 June 2011 | AICTE / MHRD | Mrs. Geetha V Mrs. Sowmya Kamath S |

National Institute of Technology Karnataka, Surathkal

**Department of Mathematical And Computational Sciences
STTPs/Schools/Conferences/Seminars/Workshops, etc**

| Type of Event | Name of Event | Dates & Duration | Sponsor(s) | Coordinator(s) |
|---------------|--|------------------------------|------------------|---|
| Workshop | Research promotion Workshop on Graph and Geometric Algorithms. | 10-12 Jan, 2012. | NBHM, DAE. | Dr. S. M. Hegde, Dr. S.S. Kamath and Mr P. Jidesh |
| School | Nurturance Programme for NTSE Scholars | 13-17 Feb and 20-24 Feb 2012 | NCERT, New Delhi | Dr. S. S. Kamath |

**Department of Mechanical Engineering
STTPs/Schools/Conferences/Seminars/Workshops, etc**

| | | |
|--|-------------------|---|
| Short Term Training Programme On Fracture Mechanics & Fatigue | 10-14 August 2011 | Dr.S.M.Murigendrappa And Dr.G.C.Mohan Kumar |
| Short Term Training Programme On Advances In Manufacturing And Precision Engineering | 20-24 June 2011 | Dr.G.C.Mohan Kumar And Dr.Prasad Krishna |

Foreign visitors to Department

| Name of the visitor | Designation and Affiliation | Purpose of visit | Date of visit |
|---------------------|--|-------------------------------|---------------|
| Michel Kocher | Summer University Switzerland | MS and R&D exchange programme | 28-2-1012 |
| Jean Bernord Mickle | Professor School of Business and Engineering, Vaud Switzerland | MS and R&D exchange programme | 28-2-1012 |

Department of Mining Engineering

| SL. No | Type of Event | Name of Event | Dates & Duration | Sponsor(s) | Coordinator(s) |
|--------|----------------------|---|-------------------------------|-----------------------|------------------|
| 1 | STTP (Summer School) | Recent Developments in Environmental Management in Mining & Other Core Industries | 27th June to 1st July, 6 days | MHRD/AICTE, New Delhi | Dr.Ch.S.N.Murthy |

Department of Metallurgical & Materials Engineering

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

| Type of Event | Name of Event | Dates & Duration | Sponsor(s) | Coordinator(s) |
|---------------|--|---------------------------------|--|-------------------------|
| Workshop | Composites was arranged by our Department in association with the Indian Institute of Metals | 3, August 2011 | Arranged by our Department in association with the Indian Institute of Metals, Surathkal | Prof. K. Narayan Prabhu |
| Seminar | Inter-relationships between processing of metals, microstructure and properties | 3 rd September, 2011 | | Prof. K. Narayan Prabhu |

Foreign Visitors to Department:

| Name of Visitor | Designation & Affiliation | Purpose of visit | Dates of Visit |
|----------------------|--|--|--------------------------------|
| Dr. Prakash Babu | Alumnus of our Department (1970 Batch – Metallurgical Engineering and SMOIRE Gold Medalist) and Caterpillar Retiree & CEO, QPRO Consulting Peoria, IL, USA | Special Lecture | 8 th December 2011 |
| Dr. A. S. Karanth, | Vice President - Business Development, Wind Power Technology, DEIF India (P) Ltd | Special Lecture | 8 th December 2011 |
| Dr. Daniel Fabijanic | Leader of Surface Engineering research area group at the Institute of Frontier Materials, Deakin University, Australia | Reviewed the interaction between the Department and Deakin University under the MOU between NITK and Deakin University | 29 th February 2012 |

CONSULTANCY PROJECTS

Department of Applied Mechanics and Hydraulics

| Name of consultancy job | Client | Name of investigators (s) | Consultancy amount (Rs.) |
|--|---|---|--------------------------|
| Collection & testing of water samples from 11 locations at NMPT area | NMPT, Panambur | Prof. M.K.Nagaraj & Prof. Srihari | 2.75 Lakhs |
| Rural water supply projet for 11 villages Mangalore Taluk with vented dam across Gurupur river, Malavoor village | D.K.Panchayathraj Engineering Division, Mangalore | Prof. S.G.Mayya, Prof. A.Mahesha, Prof. Subba Rao, Prof. M.K.Nagaraj, Prof. N. Lakshman | 3.30 Lakhs |

Department of Chemical Engineering

| Name of Consultancy | Client | Name of Investigator(s) | Period | Consultancy Amount (Rs) |
|---|---|-------------------------|-------------------|-------------------------|
| AAQ, Noise, DG Stack and Water | M/s. New Mangalore Port Trust , Mangalore | HOD with all faculty | Once in a month | 11,83,563.00 |
| AAQ, Noise, DG Stack | M/s. Infosys Technologies Ltd.m Mangalore | HOD with all faculty | Once in a month | 2,08,835.00 |
| AAQ, Noise, DG Stack and Effluent water | M/s. Sequent Scientific Limited , Mangalore | HOD with all faculty | Once in a month | 1,91,260.00 |
| AAQ and DG Stack Emission | M/s. Eswari Metal Industries, Mangalore | HOD with all faculty | Once in a month | 65,000.00 |
| AAQ, DG Stack and Effluent water | M/s. United Breweries Limited, Mangalore | HOD with all faculty | Once in a month | 1,0,7219.00 |
| AAQ, Noise, DG Stack | M/s. Air Port Authority of India, Mangalore | HOD with all faculty | Once in a year | 29,641.00 |
| AAQ and DG Stack | M/s. Gate Way Hotel, Mangalore | HOD with all faculty | Once in a year | 8,890.00 |
| AAQ, DG Stack and Noise level | M/s. United Toyota, Mangalore | HOD with all faculty | Once in a quarter | 28,768.00 |
| AAQ, DG Stack and Noise level | M/s. Primacy Industries, Mangalore | HOD with all faculty | Once in a quarter | 42,108.00 |
| Ambient Air Quality | M/s. Petronet MHB Ltd., Mangalore | HOD with all faculty | Once in a year | 2,732.00 |
| AAQ, DG Stack and Noise level | M/s. Hindustan Colas Ltd., Mangalore | HOD with all faculty | Once in a year | 21,654.00 |

Department of Civil Engineering

| Name of the Consultancy Job | Clients | Names of the Consultants | Period | Consultancy Amount (Rs) |
|--|-----------------------------|--|---------|-------------------------|
| Structural Designs for Proposed Academic Blocks at University Campus, Kushal Nagar, Mangalore University | Mangalore University | Dr.K.S.Babu Narayan | 2011-12 | |
| Structural Designs for Proposed Extension of Central Rly Station, Mangalore Central | Southern Railway, Mangalore | Er.M.H.Prashanth and Dr.M.C.Narasimhan | 2011-12 | Rs.51,000/- |
| Structural Designs for a Samudaya Bhavan | | Er.M.H.Prashanth and Dr.M.C.Narasimhan | 2011-12 | Rs.36,000/- |
| Structural Designs for Proposed Post-Office Building Mangalore | Indian Postal Department | Er.M.H.Prashanth and Dr.M.C.Narasimhan | 2011-12 | Rs.90,000/- |

| | | | | |
|---|---|--|---------|------------------------------|
| Third Party Proof-Checking of Number of Structural Designs of Bridges & Transmission Line Towers | MRPL, MESCOM | Er.M.H.Prashanth And Dr.M.C.Narasimhan | 2011-12 | Rs. 75,000/- |
| Detailed Investigations for various Geo-technical Engg related problems of large number of multi-storied buildings in and around Mangalore | Different Clients | Dr.R.Shivashankar, Dr.Sitaram Nayak Dr.B.M.Sunil | 2011-12 | Rs. 3,00,000/- |
| Concrete Mix-Designs and Bituminous Mix-Designs | Different Clients | Dr.A.U.Ravishankar Dr.S.C.Yaragal Dr.M.C.Narasimhan Er.M.H.Prashanth | 2011-12 | Rs. 3,00,000/- |
| Scrutiny and Proof-check of design proposals for PMGSY Roads – State Technical Advisor (Nodal Agency) | PMGSY Divisions of different Districts of Karnataka | Dr.A.U.Ravishankar Dr.Sitaram Nayak | 2011-12 | |
| Design of Septic tanks, Leaching Pits and other types of sewage treatment units for local fishing industrial units and multi-storey buildings | Different Clients | Dr.S.Shrihari Dr. B. Manu | 2011-12 | Total Value Approx. 75,000/- |

Department of Electronics and Communication Engineering

| Name of Consultancy Job | Client | Name of Investigator(s) | Period | Consultancy Amount (Rs) |
|---|------------------|-----------------------------------|---------|-------------------------|
| Technical assistance to the bank in the procurement of Currency note sorting machines | Corporation Bank | Dr. U Sripati Dr. T Laxminidhi | 2009-10 | 5,00,000/- |
| Technical assistance to the bank in the procurement of Currency note sorting machines | Syndicate Bank | Dr. T Laxminidhi | 2010-11 | 3,00,000 |

15.0 HUMAN RESOURCE DEVELOPMENT

15.1 TRAINING STATUS

Department of Civil Engineering

| | |
|---|----|
| Total number of Faculty & Staff trained during the period of report | 01 |
|---|----|

| Name of the faculty | Title of the Training program | Organization | Dates and duration of the Training |
|---------------------|-------------------------------|------------------|------------------------------------|
| Dr. Indrani Gogoi | MHRD-Faculty Mentoring Scheme | IIT, Gandhinagar | May-June 2011, 6 Weeks |

Staff News – Faculty Joined/ Resigned/Faculty Superannuation/sabbatical /QIP/etc

Dr. Indrani Gogoi, Associate Professor in the Department resigned and has since been relieved from the Institute from 29th June 2011

Er. Raviraj H. Mulangi, Asst. Professor in the Department has been selected and has been deputed for three years to Indian Institute of Science, Bangalore for pursuing his doctoral studies in the area of Transportation Engineering under the QIP program of MHRD, GOI.

Dr.S.Shrihari and Dr.Sitaram Nayak have been promoted as Professors in the Department since 14th Feb 2011 (with retrospective effect)

Department of Chemistry

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

| Name of faculty/staff | Title of training program | Organization | Dates & Duration of training |
|------------------------|---|---|------------------------------|
| Dr. B.Ramachandra Bhat | Web based Management Information System(MIS) | NPIU, New Delhi at Osmania University College of Engineering, Hyderabad | 14-15th , February, 2012. |

Department of Electrical And Electronics Engineering

| | |
|---|----|
| Total number of faculty & staff trained during the period of report | 04 |
|---|----|

| Name of faculty/staff | Title of training program | Organization | Dates & Duration of training |
|-----------------------|---|--|---|
| Gururaj S Punekar | Finite Difference Time Domain for Electromagnetics | organized by Society of EMC Engineers India (SEMCEI) at Bangalore, | 13 th to 15 th December 2011, |
| Shubhangi K.N | Implementation of real-time controllers in the power systems lab at EE dept. NITK | IIT-Bombay | March 2012 |
| Dr. D. N. Gaonkar | Research Interaction | Center for Future Energy Systems (CFES) at Rensselaer Polytechnic Institute (RPI), Troy New York | 4 th -17 th December, 2011 |
| Tukaram Moger | Research Interaction | Indian Institute of Science (IISc) Bangalore, under the guidance of Prof. Thukaram D | 24 th May 2011 to 30 th June 2011 |

Department of Humanities, Social Sciences and Management

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

| Name of faculty/staff | Title of training program | Organization | Dates & Duration of training |
|-----------------------|---------------------------------------|---------------|--|
| Ms. Bijuna C.Mohan | Data Analysis for Management Research | IIM Kozhikode | 23 rd January 2012 To 27 th January 2012 (5 days) |

Department of Information Technology

| | |
|---|---|
| Total number of faculty & staff trained during the period of report | 2 |
|---|---|

| Name of faculty/staff | Title of training program | Organization | Dates & Duration of training |
|---------------------------|--|--|---|
| Prof. G. Ram Mohana Reddy | Faculty Symposium | SAP Labs India at Bangalore, | 16th March, 2012. |
| Prof. Ananthanarayana V S | workshop on process of evolving standards, format for SAR by NBA | RVCE, Bangalore | 1 st – 2 nd July 2011 |
| | | Netaji Subash Institute of Technology, New Delhi | 26 th Dec 2011. |

Department of Mining Engineering

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

| Name of faculty/staff | Title of training program | Organization | Dates & Duration of training |
|-----------------------|--|---|------------------------------------|
| Prof. Ch.S.N Murthy | Applications of Remote Sensing & GIS ,GPS & photogrammetry Applications in Mining. Activities. | Engineering Staff College of India, Hyderabad | 20/09/2011 to 23/09/2011 4 days |

PLACEMENT OF STAFF FOR ACADEMIC EXCELLENCE

Department of Civil Engineering

| Name of the Faculty | Assignment/Recognition/Award |
|---------------------|--|
| Dr.D.V.Reddy | Editor-in-Chief, International Journal of Earth Sciences and Engineering, CAFET-INNOVA Technical Society, Hyderabad PhD Theses reviewer of Indian School of Mines, Dhanbad |
| Dr.S.Shrihari, | Hon. Secretary, Institution of Engineers(I), Mangalore Local Centre PhD Theses reviewer of VIT, Vellore |
| Dr. K.Swaminathan | IIT Bombay Research Paper Award 2010, for the research paper published in the esteemed International Journal, COMPOSITE STRUCTURES PhD Theses reviewer of CUSAT, Kochi & NIT, Trichy |
| Dr. Indrani Gogoi | The research paper titled Effective Modelling of Dam-Reservoir-foundation system using FEM was adjudged as the Best Paper presented in Civil Engineering at the International Conference on Emerging Trends in Engineering, (ICETE 2011), held at Nitte, Karnataka during May 4-5 th 2011. Ms. Ruby Nazeer was the co-author of the paper |
| Dr.K.N.Lokesh | GEOSPATIAL EXCELLENCE AWARD for the Best Research Paper presented at the 14 th Annual International Conference and Exhibition on Geospatial Information Technology and Applications, Gurgaon, during 7-9 th Feb 2012. Mr. Naveenchandra, Mrs. Usha and Dr. Gangadhra Bhat G are the Co-authors of this paper. |

| | |
|---|--|
| Dr. K. S. Babu Narayan | OUTSTANDING ENGINEER Association of Consulting Civil Engineers, Mangalore Chapter, on the occasion of 44 th Engineers' Day Celebrations-2011 PhD Theses reviewer of Vishveshvariah Technological University, Belagavi. |
| Dr. Subhash C.Yaragal | Member, Editorial Board, International Journal of Structural Fire Engineering |
| Dr.K.S.Babu Narayan Dr.A.U.Ravishankar Dr.M.C.Narasimhan Dr.Katta Venkataramana Dr. Subhash C.Yaragal | Referees for reviewing the research papers submitted to International Journal of Earth Sciences and Engineering |
| Dr.M.C.Narasimhan | Referee for reviewing the research papers submitted to International Journal of Steel and Composite Structures. Member, Board of Studies in Civil Engineering (PG) at NMAMT, Nitte, Malnad College of Engineering, Hassan and BMS College of Engineering, Bangalore., autonomous Colleges under VTU, Belgaum PhD Thesis reviewer, Bangalore University |
| Dr.R.Shivashankar | HOD Training & Placement Dept. of NITK Subject Expert, NBA Accreditation Teams to different Colleges Ph.D. theses reviewer of JNTU Kakinada, Tirupati Uni., Bangalore University,CUSAT |
| Dr.A.U.Ravishankar | Ph.D Theses Reviewer of Bangalore University Member, Board of Studies in Civil Engg., SDM Institute of Engineering and Technology, Dharwad, an autonomous College under VTU, Belgaum. |
| Dr.B.R. Jayalekshmi | Session Chair- Technical session at 21 st International Conference on Structural Mechanics in Reactor Technology (SMiRT 21), New Delhi, 07-10 th Nov 2011 <u>Member</u> of expert Committee for Revision of IS :4998: 1992., Bureau of Indian Standards <u>Reviewer</u> for NPTEL Video course on Advanced Structural Analysis, IITMadras |

Placement of Staff - Invited Talks by faculty

Dr. M.C.Narasimhan gave a Technical Talk on Durability of Coastal Concrete Structures at the Association of Consulting Civil Engineers and Architects, at Udupi on 19/05/2011. M/s ACC Limited were the sponsors of the event.

Faculty members of the Department were invited as Resource Persons to give technical presentations as detailed below at the Short Term Training Programme for teachers of Engineering Colleges on Application of Finite Element Method in Civil Engineering at MMAM Institute of Technology, Nitte.

Dr. M.C.Narasimhan on Application of Finite Element Method for Anisotropic Composite Materials on 2/06/2011.

Dr.K.S.Babu Narayan on Application of Finite Element Method for Concrete Structures on 03/06/2011.

Dr. K.S.Babu Narayan was invited to give a Technical Talk on Our Earth and Our Environment to School students and officials on 06/06/2011 during the celebration of World Environment Day (5th June) at MRPL, Kana, Mangalore.

Dr.Katta Venkataramana gave an invited key-note address on National Seminar on Disaster Management and Mitigation held at Kalasalingam University, Tamilnadu, on 16/09/2011.

Dr. D.Venkat Reddy gave an invited key-note lecture on Geology – Its Role in Civil Engineering Projects at the National Seminar on Disaster Management and Mitigation held at Kalasalingam University, Tamilnadu, on 16/09/2011.

Dr. Katta Venkataramana gave an invited technical Talk on Earthquake Resistant Design to the members of Association of Consulting Civil Engineers, Mangalore Centre on 29/09/2011.

Faculty members of the Department were invited as Resource Persons to give technical presentations as detailed below to the students of Civil Engineering at Alwa's Institute of Engineering and Technology, Moodabidri.

Dr. Katta Venkataramana on Structural Dynamics and Earthquake Resistant Design on 21/09/2011
Dr.D.V.Reddy on Earthquakes and Tsunamis, Oceans and Coastal Zone Protection on 21/09/2011

Dr. M.C.Narasimhan on Recent Trends in Concrete Technology on 29/09/2011,
Dr.K.S.Babu Narayan on Advances in Structural Engineering on 05/10/2011.

Dr.K.S.Babu Narayan gave an invited talk on Recent Trends in Structural Engineering to the practicing Engineers and Architects, at Mysore on 13/10/2011. M/s ACC Limited were the sponsors of the event.

A 2-day National Workshop on “Table-Top Airports and Safety Aspects” which was conducted jointly the department of Civil Engineering NITK and Mangalore Airport Diamond Jubilee Celebration Committee during 29-30th Oct 2011. The workshop was inaugurated by Dr. M. Veerappa Moily, the honourable minister for Law, GOI on 29/10/2011. The Following invited technical talks were presented by the faculty members of the Department at the workshop.

- (a) Dr. R. Shivashankar -- Land-filling and Retaining Structures
- (b) Dr.A.U.Ravishankar -- Geometric design of Airports
- (c) Dr.K.S.Babu Narayan – Infrastructure Development

National Institute of Technology Karnataka, Surathkal

Dr.B.R.Jayaleksmi attended the International Conference on Structural Mechanics in Reactor Technology (SmiRT 21) at New Delhi during 07th – 10th Nov 2011. She also chaired one technical session during the conference and was a co-chair for another one.

Dr. S. Shrihari chaired a Technical Session at the National Conference on Science and Technology (MTST-2011) at Moodabidari on 14th Oct 2011.

Dr.S. Shrihari participated in the World Aqua Congress held at New Delhi during 16-18th Nov 2011. He also attended the International Conference on Future Dialogue held at New Delhi on 24th Nov 2011.

Dr.B.Manu gave an invited talk on “Vehicular Air Pollution” at the 159naugural function of Air Pollution Control Week, jointly organized by Dakshina Kannada District Administration and Regional Transport Office, Mangalore on 8/11/2011.

Dr.K.S.Babu Narayan attended the International Conference at Kumamoto University, Japan during Dec 2011. He presented an invited Key-note lecture on HORSE to HORSE POWER – TECHNOLOGY’S RACE AGAINST TIME at the conference.

The research Paper titled Geospatial Analysis for the Deployment of Rural Broad-band Telecom Services Using Geo-information Technology presented by K.N.Lokesh, has been awarded the GEOSPATIAL EXCELLENCE AWARD at the 14th Annual International Conference and Exhibition on Geospatial Information Technology and Applications, Gurgaon, during 7-9th Feb 2012. Mr. Naveenchandra, Mrs. Usha and Dr. Gangadhra Bhat G are the Co-authors of this paper.

Dr.K.S.Babu Narayan gave an invited talk on, Technology – Looking Behind and Beyond’ to the participants of the two NTSE NURTERANCE PROGRAMS held at the Institute under the aegis of DST, Govt. of India, during Feb 2012.

Dr.K.S.Babu Narayan gave a Technical talk titled FUTURE TENSE?! At the Inauguration of the Engineers’ Week of the Association of Consulting Civil Engineers at Mangalore on 10/03/2012. M/s ACC Limited were the main sponsors of the event.

Faculty members of the Department were invited as Resource Persons to give technical presentations as detailed below to the students of Civil Engineering at different institutions in Dakshina Kannada and Udupi Districts, as a part of the ‘Engineers’ Week’ Celebrations of Association of Consulting Civil Engineers, Mangalore Chapter during the 10-17th March 2012.

1. Dr. A.U.Ravishankar- Construction and Maintenance of Concrete Pavements (for Engineers from District Administration, Mangalore Corporation, Zilla and Taluk Panchayath), DC’s Office, Mangalore, 15th March 2012.
2. Dr.Katta Venkataramana , Sahyadri Institute of Technology, Mangalore, 15th March 2012
3. Dr.K.S.Babu Narayan - Alwa’s Institute of Technology, Modabidri. And Beary’s Institute of Technology
4. Dr.M.C.Narasimhan – Recent Advances in Concrete Technology, NMAMIT, Nitte, 13th March 2012

Dr. A.U. Ravi Shankar gave a technical talk on Deficiencies in DPR’s and Weakness in Investigation” on June 27, 2011at Staff Training College, Mysore

Dr. A.U. Ravi Shankar gave a talk on Deficiencies in DPR’s and Weakness in investigation on July 18, 2011at Staff Training College, Mysore

Department of Computer Engineering

| Name of Staff/Faculty | Assignment/Recognition/Award |
|-----------------------|--|
| Mr. Alwyn Roshan Pais | <ol style="list-style-type: none"> Best paper award for the paper "Detecting & Defeating Split Personality Malware" in an International Conference SECURWARE 2011, France Listed in Marquis who's who in the world 2012 |
| Mr. B.R.Chandavarkar | <ol style="list-style-type: none"> Reviewer of Book "Computer Networking, 6th Edition, [Author: Kurose and Ross's]" Contributed, "Digital Design", 5th edition [M. Morris Mano and Michael D. Ciletti], Pearson International Edition. Contributed, "Structured Computer Organization", 6th edition, [Andrew S. Tanenbaum and Todd Austin], Pearson International Edition. Contributed, "Computer Science", 11th edition, [J. Glenn Brookshear], Pearson International Edition. |

Department of Chemistry

| Name of Staff/Faculty | Assignment/Recognition/Award |
|----------------------------|---|
| Prof. A. Vasudeva Adhikari | <p>Presented our research paper entitled "Synthesis and mesomorphism of new 2-methoxy-3-cyanopyridine mesogens" in the international conference on "Emerging Liquid Crystal Technologies VII", SPIE Photonics West 2012, which was held in San Francisco, California, USA, during 21st to 26th January, 2012.</p> <p>Present our research paper entitled "Nonlinear optical studies of a D-A type conjugated polymer containing heterocyclic moieties" in the International Conference on Physics, Science and Technology (ICPST 2011) to be held in Dubai, UAE, during December 28 - 30, 2011.</p> |
| Prof. A.C.Hegde | Presented Research paper on 'Electrochemical deposition of nanostructure multilayer alloy coatings for high corrosion performance' at in International Conference held at Malaysia during March 6 & 7 th 2012. |
| Dr. B. Ramachandra Bhat | Editorial Board Member for International Journal of NanoScience and Nanotechnology (IJNN) |
| Dr. Arun M. Isloor | <p>Received state level award from Vision group on Science & Technology, Department of Science & Technology, Government of Karnataka.</p> <p>Selected as Editor for International journal 'Nano Hybrids' Transtech publishers-Sweden.</p> <p>Selected as Editor for International journal 'Journal of Applied Membrane Science & Technology'-Malaysia.</p> <p>Delivered Invited lecture in International Conference held at Malaysia during March 6 & 7th 2012.</p> |

Department of Electronics and Communication Engineering

| Name of Staff/Faculty | Assignment/Recognition/Award |
|-----------------------|--|
| Mr. N S V Shet | Chairing a session on “Communication Systems” paper presentation at “International conference in Emerging trends in Engg” ICETE-2011 at NMAMIT, Nitte, 5 th May 2011. |
| Dr. M S Bhat | Visited Thailand to present the paper, Selective Image Smoothing and Feature Enhancement using modified shock filters, in 8th International Conference organized by Electrical Engg./ Electronics, Computer, Telecommunications & information Technology Association (ECTI), during May 17 – 19, 2011. |
| Rekha S | Visited Thailand to present the paper, Low power fully differential feed-forward compensated bulk driven OTA, in 8th International Conference organized by Electrical Engg./ Electronics, Computer, Telecommunications & information Technology Association (ECTI), during May 17 – 19, 2011 |
| Dr. Sumam David | Visited HEIG-VD, Switzerland for Summer University in Image & Signal Processing, 4 th – 22 nd July 2011 |
| Mr. Ramesh Kini M | Delivered a Keynote address and guest lecture on student projects at Srinivas Institute of Technology Mangalore, 17 th September 2011. |
| Mr. N S V Shet | Visited Melbourne University Australia for Research Interaction, 17 th – 27 th January 2012 |
| Dr. Aparna P | Attended Intel Embedded Education and Research Summit 2012 in Arizona from Feb 22 nd to Feb 24, 2012 |

Department of Electrical and Electronics Engineering

| Name of Staff/Faculty | Assignment/Recognition/Award |
|-----------------------|---|
| Dr Gururaj S Punekar | <p>Best answer to this question published in the National Safety Council newsletter: Gururaj S Punekar, “What are the precautions to be taken to protect against lightning?” <u>best answer to this question published</u> in Industrial Safety News, bimonthly newsletter of National Safety Council, vol.44, No1&2, Jan-Feb 2012, pp.19.</p> <p>Member Technical Programme Committee of ICPADM 2012, IEEE 10th International Conference of Properties and applications of dielectric materials, being organized by CPRI Bangalore. http://www.icpadm2012.in</p> <p>2. Reviewer of technical papers of ICPADM 2012, IEEE 10th International Conference of Properties and applications of dielectric materials, being organized by CPRI Bangalore.</p> <p>3. Undergraduate Project sponsored by Karnataka State Council for Science and Technology (KSCST) in the 35th series of Student Project Program (SSP). http://kscst.org.in/spp/35_series/35_Series_SPP_Approved_Proposals.html</p> |
| Dr. Shubhangi K.N | A power system stability analysis software package developed in-house, referred to as MatSim, is available for free download at http://www.eee.nitk.ac.in/material_exp.php . A video recording of the package is available at http://www.youtube.com/watch?v=rGQVkh5FaIg |
| Dr. K. P. Vittal | Session Chair, IEEE PES ISGT -2011, International conference on Innovative Smart Grid Technologies – India. The Quilon Beach hotel, Kollam, Kerala, 2 nd Dec., 2011 |
| Dr. K.P. Vittal | Invited Lecture in the National workshop on “ Emerging Technologies in Power Electronics – Broad Spectrum Review” NMAM Institute of Technology, Nitte |

Department of Information Technology

| Name of Staff/Faculty | Assignment/Recognition/Award |
|---------------------------|---|
| Prof. G. Ram Mohana Reddy | Attended 2nd International Conference on Ambient Systems, Networks and Technologies (ANT-2011) at Niagara Falls, Canada, 19-21 Sep 2011, |
| Prof. Ananthanarayana V S | <p>Nominated as member of Board of Appointment of Mangalore University for 2011-12.</p> <p>BOS Member for NMAMIT – MCA programme, Mangalore University – Computer Science (PG) programme, Manipal University – Information and Communication Technology (UG & PG) programme during 2011-12.</p> <p>Invited as Chairperson for the Computer Science paper presentation on International Conference on Emerging Trends in Engineering (ICETE-11), 4th – 5th May 2011 at NMAMIT, Nitte.</p> <p>Invited as Chairperson for 1st International Conference on Computer Science, Engineering and Applications (ICCSEA 2011), May 25 – 27th, at Dubai.</p> |
| Dr. Prakash Raghavendra | Delivered expert lecture on "Application of Graphs in Data Mining: A Research Report" during FDP on Advances in Graph Theory and its Applications to Data Mining and Networking" at Dr. MVSIT, Moodbidri on 15 th March 2012. |
| Mr. Biju R Mohan | Was awarded Intel's "Parallelism Content Award" during May 2011, from Intel Inc, USA, for developing and teaching parallel programming material for UG and PG students. The award was for US \$500. |
| Mrs. Sowmya Kamath | <p>Attended International Conference on "Information and Computer Networks" (ICICN 2012) at Singapore, February 26-28, 2012.</p> <p>Program Committee member and Reviewer for IEEE Students' Conference on Electrical, Electronics and Computer Science (SCEECS 2012), March 1st & 2nd 2012, organised by Maulana Azad National Institute of Technology, Bhopal, India</p> <p>BOE member for MCA Course at NMAMIT, Nitte</p> |

Department of Mechanical Engineering

| Name of the staff/faculty | |
|---------------------------|--------------------------|
| 1. Mr. Vasudeva M | |
| 2. Mr. Shivananda Naik H | |
| 3. Mr. Veershetty G | Pursuing Ph.D. programme |
| 4. Mr. Naveen Karanth P | |
| 5. Mr. S C Kattimani | |
| 6. Mr. Sudhakar C J, | |
| 7. Mr. Vijay Kumar H | |
| 8. Mr. Ajay Kumar Y | |

Department of Mining Engineering

| Name of Staff/Faculty | Assignment/Recognition/Award |
|-----------------------|---|
| Dr.Harsh Vardhan | Dr.Harsh Vardhan Received award from Vision Group on Science and Technology, Govt. of Karnataka , for Best Research Publication published by science faculty for the year 2011-2012. The award carries a Citation and Cash Prize of Rs.25000=00 |
| Dr.Harsha Vardhan | <p>Recognition:</p> <ol style="list-style-type: none"> 1. Providing Technical Support to Central Empowered Committee(CEC)appointed by Honourable Supreme Court of India for survey of mining leases in Bellary, Chitradurga and Tumkur districts of Karnataka. 2. Providing Technical Support to Central Bureau of Investigation pertaining to Mine Lease Boundary Survey. 3. Member, Editorial board of the International Journal of Mining and Mineral Engineering published by Inderscience Publishers, U.K from 2008 onwards. (http://www.inderscience.com/browse/index.php?journalCODE=ijmme) 4. Editor, Journal of Characterization and development of Novel Materials published by Nova Science publishers, New York from 2009 onwards. (http://www.nova publishers.com/catalog/editorial.php?products id=7995) 5. Member, Editorial Board of Disaster Advances from 2009 onwards http://www.managein.org/manage/disas/edit board.htm 6. Member, Editorial Board of Journal of Chemical Engineering and Materials Science published by Academic Journals. Email.htm">http://www.academic journals.org/JCEMS>Email.htm 7. Panel of reviewers of Noise Control Engineering Journal- An International Publication, published by American Institute of Physics; Environment Monitoring and Assessment, published by Springer, Safety Science, Environmental Engineering Science and Applied Acoustic published by Elsevier. |
| Dr.M Aruna | <ol style="list-style-type: none"> 1. Providing Technical Support to Central Empowered Committee(CEC)appointed by Honourable Supreme Court of India for survey of mining leases in Bellary, Chitradurga and Tumkur districts of Karnataka. 2. Providing Technical Support to Central Bureau of Investigation pertaining to Mine Lease Boundary Survey. |
| Dr.K.Ram Chandar | <ol style="list-style-type: none"> 1. "ISTE-SGITS National Award" for the best research work done among the young Teachers in Engineering Colleges in India (December, 2011), given by Indian Society for Technical Education. 2. "Outstanding Young Person Award" from Junior Chamber International, Mangalore. (Sept- 2011) 3. "Young Engineer Award" from Institution of Engineers (India) for contribution to Mining Engineering (Jan-2012) |

Department of Metallurgical and Materials Engineering

| Name of Staff/Faculty | Assignment/Recognition/Award |
|-----------------------|---|
| Dr. K. Narayan Prabhu | <p>Guest Editor of Special Issue and Special Technical Publication (STP) on Nanofluids, Journal of ASTM International (JAI), ASTM International, Pennsylvania, USA, 2011.</p> <p>Invited Reviewer for Journal of ASTM International, Metallurgical & Materials Transactions B, Materials & Design, Surface & Coatings Technology, Experimental Heat Transfer, Journal of Materials Processing Technology, International Journal of Heat and Mass Transfer, Journal of Alloys and Compounds, Journal of Materials Science.</p> <p>NPTEL Reviewer for course on 'Steelmaking'</p> <p>Chosen as member of the International Committee of ASM Sixth International Quenching and Control of Distortion Conference, including the 4th International Distortion Engineering Conference, Chicago, IL, 10-13, September 2012.</p> <p>Chosen as Member of the Global Data Base Project on Liquid Quenchants, International Federation of Heat Treatment and Surface Engineering, UK</p> <p>The macro-profile of casting surface during downward solidification of Al-12% Si alloy against chills investigated by K.N.Prabhu, K. Sharath and G. Ramesh was featured on the cover page of the Fall Issue of the International Journal of Metal Casting, 2011 published by the American Foundry Society (AFS).</p> <p>The paper titled 'Review of thermo-physical properties, wetting and heat transfer characteristics of nanofluids and their applicability in industrial quench heat treatment' authored by G. Ramesh and K. N. Prabhu published in the Springer Open Access Journal: Nanoscale Research Letters was qualified as Highly accessed to identify those articles that have been especially highly accessed, relative to their age, and the journal in which they were published.</p> <p>The paper titled 'Reactive wetting, evolution of interfacial and bulk IMCs and their effect on mechanical properties of eutectic Sn-Cu solder alloy published in <i>Advances in Colloid and Interface Science</i>, vol. 166, Issues 1-2, 2011, 87-118 was ranked 10th among the top 25 hottest articles by Science Direct.</p> <p>Dr. K.N.Prabhu: Invited Reviewer for the following International Journals: Solder and Surface Mount Technology, International Journal of Heat and Fluid Flow</p> <p>Editorial Board Member: Conference Series in Materials Science</p> <p>Editorial Board Member: Materials Performance and Characterization, ASTM, USA</p> |

| | |
|--------------------------|---|
| Dr. A. O. Surendranathan | <p>Name approved for the most prestigious award "SEVA CHAKRA PURASKAR" 2011 on National basis by Exclusive Aaj Tak, Delhi</p> <p>Included in Spring 2012 edition of 2000 Outstanding Intellectuals of the 21st Century by IBC, Cambridge, England</p> <p>Recommended for the most prestigious executive award "Shining image of India" 2011 on national basis by All India Economy Survey Award Council, New Delhi</p> |
| Dr. Anandhan Srinivasan | <p>Fast Track Award for young scientists, Dept. of Science and Technology, Govt. of India (2011-2014).</p> <p>Editorial board member of the Journal of Chemical Engineering and Materials Science (2011 onwards).</p> <p>Industrial and Engineering Chemistry Research (2011 onwards).</p> |
| | <p>Biography has been included in</p> <ul style="list-style-type: none"> ○ Marquis Who's Who in Science and Engineering, 11th Edition (2011-2012). ○ 2000 Outstanding Intellectuals of the 21st Century - 2011, International Biographical Centre, Cambridge, U.K. ○ Top 100 Educators - 2011, International Biographical Centre, Cambridge, U.K. |
| | <p>Sponsored Project -</p> <ul style="list-style-type: none"> ○ 'Novel Nanocomposites from bio-degradable polymers and nanostructured fly ash'; funding agency: DST (fast track scheme for young scientists); amount: TBA (2011-2014). |
| | <p>Appointed as an Editor of the International Journal of Energy Engineering in August 2011.</p> <p>Appointed as the main editor for the special issue of International Journal of Energy Engineering containing chosen papers from the International Conference on Recent Advances and Challenges in Energy (RACE-2012), MIT, Manipal, January 2012.</p> |
| | <p>Invited to deliver an Invited talk in the International conference on Recent Advances and Challenges in Energy (RACE-2012), MIT, Manipal, January 2012.</p> |
| | <p>Delivered an invited talk on 'Polymer Nanocomposites: Synthesis, Characterization and Applications' in <i>National Seminar on 'Frontiers in Chemistry'</i> at Madura College, Madurai, India, February 2012.</p> |
| | <p>Delivered an Invited talk at International Conference on 'Recent Advances and Challenges in Energy RACE-2012', MIT-Manipal, India, January 2012.</p> |

National Institute of Technology Karnataka, Surathkal

| | |
|--|--|
| | Chaired a technical session in the International conference on Recent Advances and Challenges in Energy (RACE-2012), MIT-Manipal, India, January 2012. |
| | Resource person for National Seminar on 'Frontiers in Chemistry', Madura College, Madurai, India, 17 February, 2012 |

16.0 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.

16.2 Highlights

The year 2011-12 is a very successful year for the Dept. of Training & Placement. We had reasonably well 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) 192 Companies visited NITK Surathkal for Campus Recruitments.
- 2) 59 Companies participated in the Placement process for the first time.
- 3) 970 students were placed - 643 B.Techs, 241 M.Techs, 71 MCAs, 15 MBAs.

PLACEMENT DETAILS 2011-12 :

| S NO. | NAME OF THE COMPANY | STUDENTS PLACED | PAY PACKAGE (Rs. in lakhs p.a.) | |
|-------|---------------------------|-----------------|---------------------------------|-------|
| | | | UG | PG |
| 1 | BAJAJ AUTO, PUNE | 2 | 6.76 | - |
| 2 | MICROSOFT, HYD | 6 | 16 | 16 |
| 3 | FACEBOOK, CALIFORNIA | 2 | 52 | 52 |
| 4 | D E SHAW, HYD | 2 | 13.5 | 13.5 |
| 5 | NVIDIA, B'LORE | 12 | 8 | 8.8 |
| 6 | GOLDMAN SACHS, HYD | 7 | 11 | 11 |
| 7 | NETAPP, B'LORE | 1 | 7.88 | 8.66 |
| 8 | TEXAS INSTRUMENTS, B'LORE | 8 | 10.15 | 11.25 |
| 9 | ZYNGA GAME, B'LORE | 10 | 10 | - |

| | | | | |
|----|--------------------------|-----|-------|-------|
| 10 | ABB LTD, B'LORE | 2 | 4.5 | - |
| 11 | CAPITAL ONE, B'LORE | 1 | 8.27 | - |
| 12 | CATERPILAR, HYD | 7 | 7.19 | - |
| 13 | BROADCOM, B'LORE | 9 | 6.5 | 8 |
| 14 | ADOBE, B'LORE | 3 | 13.44 | 13.71 |
| 15 | THERMAX, PUNE | 1 | 4 | - |
| 16 | THOROGOOD, B'LORE | 3 | 6.5 | 6.5 |
| 17 | NOVELL, B'LORE | 3 | 4.81 | 5.13 |
| 18 | W S ATKINS, B'LORE | 7 | 5.2 | - |
| 19 | TELCON, B'LORE | 2 | 6.17 | - |
| 20 | ORACLE, HYD | 38 | 8.5 | 8.5 |
| 21 | TCS, B'LORE | 103 | 3.16 | 3.32 |
| 22 | CITRIX R&D, B'LORE | 9 | 8.81 | 9.89 |
| 23 | COSMIC CIRCUITS, BLORE | 2 | 6.5 | 7.5 |
| 24 | AKAMAI, B'LORE | 2 | 8 | - |
| 25 | TATA TECHNOLOGIES, PUNE | 10 | 3.75 | 4.75 |
| 26 | MORGAN STANLEY, MUMBAI | 5 | 10.3 | 10.8 |
| 27 | TCE LTD, B'LORE | 10 | 3.5 | 4 |
| 28 | ZS ASSOCIATES, PUNE | 13 | 7.37 | - |
| 29 | EMC S.W., B'LORE | 5 | 9.5 | 10.25 |
| 30 | DELL R&D, B'LORE | 6 | 5.5 | 9 |
| 31 | TATA STEEL, JEMSHEDPUR | 0 | 8 | - |
| 32 | SAMSUNG S.W., B'LORE | 12 | 5.5 | 6.6 |
| 33 | L&T, MUMBAI | 3 | 3.75 | 4.11 |
| 34 | CAPITAL IQ, HYD | 0 | 6.5 | 6.5 |
| 35 | N.I. R&D, B'LORE | 2 | - | 8.5 |
| 36 | C-DOT, B'LORE | 5 | 7.7 | 7.8 |
| 37 | AIRVANA NETWORKS, B'LORE | 0 | 4.75 | 5.3 |
| 38 | MU-SIGM, B'LORE | 5 | 4 | - |
| 39 | ROBERT BOSCH, B'LORE | 11 | 4.2 | 4.2 |
| 40 | AUMA, B'LORE | 0 | 4 | - |
| 41 | HEADSTRONG, B'LORE | 9 | 4 | 4 |
| 42 | DELOTTE, HYD | 30 | 6.27 | 6.27 |
| 43 | GMR ENERGY, B'LORE | 1 | 3.5 | - |
| 44 | ITTIAM SYSTEMS, B'LORE | 4 | 6.75 | 7.25 |
| 45 | CYBAGE S.W., PUNE | 4 | 3 | - |

| | | | | |
|----|----------------------------|----|-------|-------|
| 46 | WIPRO TECH, B'LORE | 8 | 7 | - |
| 47 | CYPRESS, B'LORE | 3 | 6.96 | 7.77 |
| 48 | ALLGO SYSTEMS, B'LORE | 3 | 4.6 | 4.8 |
| 49 | IBM(ISL), B'LORE | 3 | 5.5 | 6.1 |
| 50 | SAP LABS, B'LORE | 6 | 6.5 | - |
| 51 | BHARAT FORGE, PUNE | 1 | 3.5 | - |
| 52 | SANDISK, B'LORE | 2 | 7 | 8.37 |
| 53 | ECI TELECOM, B'LORE | 4 | 5 | 5.5 |
| 54 | KONY LABS, HYD | 7 | 5 | - |
| 55 | SIEMENS LTD, CHENNAI | 5 | 4.25 | - |
| 56 | HONDA MOTORCYCLE, NOIDA | 4 | 4 | - |
| 57 | SYMPHONY S.W., B'LORE | 5 | 3.75 | 3.75 |
| 58 | UHDE INDIA, MUMBAI | 3 | 3.5 | - |
| 59 | SYNOPSYS, BLORE | 1 | 9.89 | 10.86 |
| 60 | GAIL INDIA, N. DELHI | 7 | 11.8 | - |
| 61 | BARCLAYS TECH, PUNE | 0 | 6.58 | - |
| 62 | TALLY SOLUTIONS, BLORE | 2 | 8.2 | 8.2 |
| 63 | ACCENTURE, B'LORE | 12 | 3 | 3 |
| 64 | PAY PAL, CHENNAI | 4 | 8 | 8 |
| 65 | FLAKTWOOD, KOLKATA | 1 | 4 | 4 |
| 66 | FUTURES FIRST, B'LORE | 3 | 7.6 | - |
| 67 | TATA MOTORS, PUNE | 9 | 5 | - |
| 68 | TEJAS NETWORKS, BLORE | 4 | 6.8 | 7.2 |
| 69 | HERO MOTO CORP, N. DELHI | 5 | 5.86 | - |
| 70 | HSBC, B'LORE | 9 | 6 | - |
| 71 | POWER GRID CORP., GURGAON | 3 | 12.09 | - |
| 72 | ITC INFO, B'LORE | 2 | 3.7 | 3.7 |
| 73 | INDIAN ARMY, B'LORE | * | | |
| 74 | MINDTREE, B'LORE | 4 | 4.5 | - |
| 75 | PERSISTENT SYSTEMS, MUMBAI | 0 | 3.55 | 3.55 |
| 76 | COAL INDIA LTD., KOLKATA | 63 | 6.97 | 6.51 |
| 77 | McAfee S.W., B'LORE | 4 | 6.25 | 6.25 |
| 78 | H Z L, GOA | 3 | 4.6 | - |
| 79 | HCL TECH, CHENNAI | 18 | 3.25 | 3.5 |
| 80 | IOCL, N' DELHI | 6 | 9 | - |
| 81 | SAFRAN ENGG, B'LORE | 1 | 3.5 | - |

| | | | | |
|-----|------------------------------|----|------|-------|
| 82 | SOURCEBIT, B'LORE | 1 | 4.5 | 4.5 |
| 83 | PEPSICO, NOIDA | 2 | 6 | - |
| 84 | ARM EMBEDDED, B'LORE | 3 | 8.2 | - |
| 85 | UNISYS CORPN., B'LORE | 6 | 4.5 | - |
| 86 | POLARIS, CHENNAI | 3 | 4.25 | - |
| 87 | NOMURA, MUMBAI | 2 | 8.5 | - |
| 88 | GHATGE PATIL, MUMBAI | 0 | 3.0 | - |
| 89 | BEL-CRL, B'LORE | 7 | - | 6.5 |
| 90 | YAHOO, B'LORE | 1 | 9.55 | 10.16 |
| 91 | ERICSSON, B'LORE | 1 | 4.5 | 4.5 |
| 92 | CAPGEMINI, HYD | 10 | 3 | 3 |
| 93 | M & M, MUMBAI | 0 | 4.75 | 4.75 |
| 94 | BG EXPLORATION, MUMBAI | 0 | 8.0 | - |
| 95 | KENNAMETAL, B'LORE | 1 | 4.2 | 4.2 |
| 96 | L&T INFO, MUMBAI | 4 | 3 | 3 |
| 97 | COMVIVA TECH, GURGAON | 3 | 3.85 | 3.85 |
| 98 | ESSEL MINING, MUMBAI | 2 | 4.5 | - |
| 99 | 3 M INDIA, MUMBAI | 4 | 7.18 | - |
| 100 | L&T CONSTRUCTION, CHENNAI | * | 3.25 | 3.5 |
| 101 | INFOTECH ENTERPRISES, MUMBAI | 2 | 3 | 3 |
| 102 | INTERGRAPH, HYD | 5 | 3.6 | 3.9 |
| 103 | IVY COMPTech, HYD | 16 | 13 | 13 |
| 104 | ATOS INDIA, B'LORE | 7 | 3.4 | 3.4 |
| 105 | IMPETUS INFOTECH, NOIDA | 0 | 4 | 4 |
| 106 | ASHOK LEYLAND, CHENNAI | 1 | 4.25 | - |
| 107 | CAVIUM NETWORKS, HYD | 2 | 6 | 6 |
| 108 | QUEST GLOBAL, B'LORE | 0 | 2.98 | 3.35 |
| 109 | TAVANT TECH, B'LORE | 26 | 4.75 | 4.75 |
| 110 | MCNALLY BHARAT, KOLKATA | 2 | 5.6 | - |
| 111 | BALMER LAWRIE, KOLKATA | 3 | 6.56 | - |
| 112 | ACG WORLDWIDE, MUMBAI | 0 | 4 | - |
| 113 | SOFTJIN TECH, B'LORE | 2 | 5 | 5.75 |
| 114 | INTUIT TECH, B'LORE | 0 | 3.6 | 3.6 |
| 115 | MARUTI SUZUKI, M.P | 1 | 4.5 | - |
| 116 | CAPILLARY TECH, B'LORE | 1 | 4.5 | - |
| 117 | RELIANCE INDS., MUMBAI | 5 | 6 | - |

| | | | | |
|-----|------------------------------|----|-------|------|
| 118 | HINDUSTAN UNILEVER, MUMBAI | 0 | 8 | - |
| 119 | GAMMON INDIA, MUMBAI | 7 | 3.25 | - |
| 120 | ALCATEL-LUCENT, B'LORE | 4 | 6.5 | 6.5 |
| 121 | BHARAT BIJILEE, MUMBAI | 0 | 4 | - |
| 122 | ST ERICSSON, B'LORE | 3 | 7 | 7.8 |
| 123 | GRASIM INDUSTRIES, MUMBAI | 11 | 4.34 | - |
| 124 | CAE SIMULATION, B'LORE | 6 | 4.1 | 5.27 |
| 125 | CONSOLIDATED CONST., CHENNAI | 3 | 3.6 | 3.72 |
| 126 | CITIGROUP, B'LORE | 3 | - | 6.5 |
| 127 | DR. REDDY'S LAB, HYD | 4 | 5.58 | 5.58 |
| 128 | ROBOSOFT, UDUPI | 1 | - | 3.5 |
| 129 | TATA AUTOCOMP, PUNE | 0 | 3.6 | - |
| 130 | SAMSUNG HEAVY INDS.,NOIDA | 0 | 4.2 | - |
| 131 | SIEMENS INFO, B'LORE | 1 | 4.25 | 4.75 |
| 132 | BOGOLIK SOFTWARE, PUNE | 1 | 5.02 | - |
| 133 | PRATAP UNIVERSITY, JAIPUR | 6 | - | 5.25 |
| 134 | INTEL INDIA, B'LORE | 1 | 9.35 | 10 |
| 135 | CA TECH, HYD | 6 | 6.1 | 7.1 |
| 136 | IBM(GBS), NOIDA | 21 | 3.4 | 3.75 |
| 137 | NTPC LTD., N. DELHI | 8 | 10 | - |
| 138 | L&T RAMBOLL, CHENNAI | 7 | 3.7 | 3.9 |
| 139 | ATOPTECH DESIGN, B'LORE | 2 | 8 | 8.5 |
| 140 | HCL INFO, GURGAON | 3 | 3.75 | - |
| 141 | HAL, B'LORE | 12 | 5.75 | - |
| 142 | UB LTD., B'LORE | 1 | 4.4 | - |
| 143 | APACHE DESIGN, B'LORE | 0 | 7.5 | 7.5 |
| 144 | EXETER GROUP, B'LORE | 3 | 6.25 | - |
| 145 | VIT UNIVERSITY, CHENNAI | 3 | - | 5.23 |
| 146 | STUP CONSULTANTS, B'LORE | 1 | - | 3.5 |
| 147 | BHARTI REALTY, GURGAON | 4 | - | 5 |
| 148 | CENTURY LINK, CHENNAI | 3 | 5.5 | - |
| 149 | IDEA CELLULAR, MUMBAI | 3 | 5 | - |
| 150 | HINDALCO INDUSTRIES, CHENNAI | 1 | 3.35 | - |
| 151 | ITC LTD, KOLKATA | 4 | 13.77 | - |
| 152 | LSI INDIA, B'LORE | 5 | 7.8 | 8.07 |
| 153 | JSW STEEL, BELLARY | 8 | 3.7 | - |

| | | | | |
|-----|---|----|-------|------|
| 154 | KPMG S.W., B'LORE | 8 | 3.42 | - |
| 155 | COWI INDIA, GURGAON | 2 | - | 4.35 |
| 156 | SHARDA UNIVERSITY, NOIDA | 16 | - | 4.8 |
| 157 | ANGLO EASTERN SHIP, MUMBAI | * | 19.2 | - |
| 158 | STRATA RETAIL, B'LORE | 2 | 6 | 6 |
| 159 | BOSCH LTD, B'LORE | 1 | 4.7 | - |
| 160 | HASKONING INDIA, MUMBAI | 5 | - | 3 |
| 161 | NEYVELI LIGNITE, NEYVELI | 8 | 5 | - |
| 162 | TOTAL ENVIRONMENT, B'LORE | 5 | 3.6 | 3.6 |
| 163 | SASKEN COMMUNICATION, B'LORE | 6 | - | 5.5 |
| 164 | PRDC, B'LORE | 3 | - | 3.8 |
| 165 | SATISH JAIN & CO., MUMBAI | 2 | 3.06 | 3.45 |
| 166 | BPCL, MUMBAI | 11 | 10 | - |
| 167 | YOKOGAWA, B'LORE | 1 | - | 4 |
| 168 | MIDHANI, HYD | 3 | 5.2 | 5.2 |
| 169 | ANU SOLAR POWER, B'LORE | 1 | - | 5 |
| 170 | GOOGLE INDIA, B'LORE | 0 | 20.92 | - |
| 171 | MECON LTD, RANCHI | 8 | 5.5 | - |
| 172 | DREDGING CORPN., VAIZAG | 1 | 4.42 | 4.42 |
| 173 | L G SOFT, B'LORE | 7 | 4.76 | 5.06 |
| 174 | ENGINEERS INDIA LTD, N.DELHI | 4 | 9.8 | - |
| 175 | EXOTEL TECHCOM, B'LORE | 0 | 8 | 8 |
| 176 | SHRI RAM EPC LTD, CHENNAI | 9 | 3 | - |
| 177 | GREEN LEAF ENERGY, PATNA | 1 | - | 4 |
| 178 | INDIAN OVERSEAS BANK, M'LORE | * | - | |
| 179 | RAJIV GANDHI UNIVERSITY, HYD | * | - | 4.5 |
| 180 | THEJUS ENGINEERING COLLEGE, THRISSUR | 1 | - | 4 |
| 181 | NEUERTH INDIA, NOIDA | 3 | 4 | - |
| 182 | SANKALP SEMICONDUCTOR, HUBLI | * | 4 | 4 |
| 183 | PRASHASTE EDUCATION & MANAGEMENT, B'LORE | 1 | 6.5 | 6.5 |
| 184 | TECHNIP INDIA, CHENNAI | * | - | 2.64 |
| 185 | E I TECHNOLOGIES, B'LORE | * | 3 | 3 |
| 186 | HLS ASIA, NOIDA | * | 11 | - |
| 187 | GLOBAL DELIGHT, UDUPI | * | 3.5 | 4 |
| 188 | ULTRATECH CEMENT, GULBARGA | * | 3 | - |

National Institute of Technology Karnataka, Surathkal

| | | | | |
|-----|-------------------------|---|-----|------|
| 189 | OMNESYS INDIA, MUMBAI | * | - | 2.40 |
| 190 | KRISHANK BHARATI, NOIDA | * | 7 | - |
| 191 | WEG INDUSTRIES, B'LORE | * | - | 3.93 |
| 192 | OMPL, M'LORE | * | 4.5 | - |

| | |
|---|------------------------------|
| COMPANIES : 191 | STUDENTS PLACED : 970 |
| NEW ORGANIZATIONS VISITED NITK IN 2011-12 : 59 | |
| <i>* Final Results awaited</i> | |

BRANCHWISE PLACEMENTS 2011-12 :

| UNDERGRADUATES | | |
|----------------------------|--|---------------|
| BRANCH | TOTAL ELIGIBLE STUDENTS | PLACED |
| CIVIL | 77 | 65 |
| CHEMICAL | 34 | 31 |
| COMPUTER | 85 | 84 |
| E & C | 77 | 73 |
| E & E | 82 | 75 |
| IT | 78 | 73 |
| MECHANICAL | 115 | 108 |
| METALLURGY | 23 | 20 |
| MINING | 26 | 26 |
| TOTAL (B.TECH) | 597 | 555 |
| POSTGRADUATES | | |
| STRUCTURAL ENGG. | 22 | 8 |
| GEO TECH. | 11 | 0 |
| ENVIRONMENTAL | 22 | 0 |
| TRANSPORTATION SYSTEM | 21 | 2 |
| CONSTRUCTION TECH & MGMT | 24 | 6 |
| MARINE STRUCTURES | 16 | 10 |
| WATER RESOURCE ENGG & MGMT | 10 | 2 |
| REMOTE SENSING & GIS | 13 | 5 |
| I P C | 22 | 7 |
| C P D | 12 | 4 |
| INDUSTRIAL BIOTECHNOLOGY | 18 | 3 |
| COMPUTER SCIENCE & ENGG | 20 | 16 |
| INFORMATION SECURITY | 26 | 23 |
| VLSI | 22 | 17 |
| COMMUNICATION ENGG | 10 | 6 |
| POWER & ENERGY SYSTEM | 22 | 10 |
| INFORMATION TECHNOLOGY | 23 | 21 |
| THERMAL ENGG | 12 | 7 |
| MANUFACTURING ENGG | 13 | 2 |
| MECHATRONICS | 23 | 13 |
| PROCESS MET. | 7 | 1 |
| MATERIALS ENGG. | 18 | 7 |
| S A C A | 21 | 12 |
| TOTAL (M.TECH) | 408 | 182 |
| MCA | 75 | 71 |
| MBA | 35 | 15 |
| MSC(Chemistry) | 14 | 0 |
| MSC(Physics) | 23 | 0 |
| TOTAL | 1152 | 823 |

*TOTAL NO. OF PLACEMENTS - 970

(with 147 students getting placed in two companies)

| Sl. No. | Name of Company | Date of visit | No. of Students Placed | Branchwise breakup | |
|------------|------------------------------|---------------|------------------------------|--|--|
| | | | | UG | PG |
| 1 | BAJAJ AUTO, PUNE | Aug. 01, 2011 | 2 | MECH 02 | - |
| 2 | MICROSOFT, HYD | Aug. 01, 2011 | 6 | CS 03, I.T 02 | I.T 01 |
| 3 | FACEBOOK | Aug. 01, 2010 | 2 | CS 02 | - |
| 4 | D E SHAW, HYD | Aug. 03, 2011 | 2 | CS 02 | - |
| 5 | NVIDIA, B'LORE | Aug. 04, 2011 | 12 | CS 04, ECE 07, I.T 01 | - |
| 6 | GOLDMAN SACHS, HYD | Aug. 04, 2010 | 7 | CS 04, ECE 01, I.T 02 | - |
| 7 | NETAPP, B'LORE | Aug. 05, 2011 | 1 | CS 01 | - |
| 8 | TEXAS INSTRUMENTS, B'LORE | Aug. 06, 2011 | 8 | ECE 06, EEE 01 | IS 01 |
| 9 | ZYNGA GAME, B'LORE | Aug. 07, 2011 | 10 | CS 05, ECE 01, IT 04 | - |
| 10 | ABB LTD, B'LORE | Aug. 07, 2011 | 2 | EEE 02 | - |
| 11 | CAPITAL ONE, B'LORE | Aug. 08, 2011 | 1 | MECH 01 | - |
| 12 | CATARPILAR, HYD | Aug. 08, 2011 | 7 | ECE 01, EEE 02, MECH 02, MET 02 | - |
| 13 | BROADCOM, B'LORE | Aug. 08, 2011 | 9 | CS 01, ECE 04 | CS 01, ECE 01, I.T 02 |
| 14 | ADOBE, B'LORE | Aug. 09, 2011 | 3 | CS 02, I.T 01 | - |
| 15 | THERMAX, PUNE | Aug. 09, 2011 | 1 | MECH 01 | - |
| 16 | THOROGOOD, B'LORE | Aug. 10, 2011 | 3 | - | MCA 03 |
| 17 | NOVELL, B'LORE | Aug. 10, 2011 | 3 | I.T 01 | MCA 02 |
| 18 | W S ATKINS, B'LORE | Aug. 11, 2011 | 7 | CIVIL 02, EEE 01, MECH 04 | - |
| 19 | TELCON, B'LORE | Aug. 12, 2011 | 2 | MECH 02 | - |
| 20 | ORACLE, HYD | Aug. 13, 2011 | 38 | CIVIL 02, CS 12, ECE 03, EEE 01, I.T 13, MECH 01 | CS 03, I.T 02, SACA 01 |
| 21 | TCS, B'LORE | Aug. 14, 2011 | 103 | CIVIL 01, CHEM 01, CS 05, ECE 04, EEE 02, I.T 03, MECH 02, MET 02, SACA 02, MCA 41 | CIVIL 01, CHEM 01, CS 05, ECE 04, EEE 02, I.T 03, MECH 02, MET 02, SACA 02, MCA 41 |
| 22 | CITRIX R&D, B'LORE | Aug. 16, 2011 | 9 | CS 04, I.T 02 | I.T 02, MCA 01 |
| 23 | COSMIC CIRCUITS, B'LORE | Aug. 17, 2011 | 2 | ECE 01, EEE 01 | - |

National Institute of Technology Karnataka, Surathkal

| | | | | | |
|----|--------------------------|----------------|----|---|--------------------------|
| 24 | AKAMAI, B'LORE | Aug. 17, 2011 | 2 | CS 01, I.T 01 | - |
| 25 | TATA TECHNOLOGIES, PUNE | Aug. 18, 2011 | 10 | MECH 07 | MECH 03 |
| 26 | MORGAN STANLEY, MUMBAI | Aug. 18, 2011 | 5 | CS 02 | I.T 01, MCA 02 |
| 27 | TCE, B'LORE | Aug. 18, 2011 | 10 | CIVIL 02, EEE 01 | CHEM 02, EEE 02, MECH 03 |
| 28 | ZS ASSOCIATES, PUNE | Aug. 18, 2011 | 13 | CIVIL 01, CHEM 01, CS 01, ECE 01, EEE 04, MECH 05 | - |
| 29 | EMC S.W., B'LORE | Aug. 19, 2011 | 5 | CS 03, I.T 01 | CS 01 |
| 30 | DELL R&D, B'LORE | Aug. 19, 2011 | 6 | CS 01, EEE 01, I.T 01 | CS 01, MCA 02 |
| 31 | TATA STEEL, | Aug. 20, 2011 | 0 | - | - |
| 32 | SAMSUNG S.W., B'LORE | Aug. 20, 2011 | 12 | CS 04, I.T 02 | MCA 06 |
| 33 | L&T, MUMBAI | Aug. 21, 2011 | 3 | MECH 01 | MECH 02 |
| 34 | CAPITAL IQ, HYD | Aug. 21, 2011 | 0 | - | - |
| 35 | N.I R&DM B'LORE | Aug. 22, 2011 | 2 | - | CS 01, ECE 01 |
| 36 | C-DOT, B'LORE | Aug. 23, 2011 | 5 | CS 03, ECE 01 | CS 01 |
| 37 | AIRVANA NETWORKS, B'LORE | Aug. 23, 2011 | 0 | - | - |
| 38 | MU-SIGMA, B'LORE | Aug. 23, 2011 | 5 | EEE02, MECH 01, MET 01, MIN 01 | - |
| 39 | ROBERT BOSCH, B'LORE | Aug. 24, 2011 | 11 | ECE 01, EEE 02, MECH 03 | ECE 01, MECH 04 |
| 40 | AUMA, B'LORE | Aug. 25, 2011 | 0 | - | - |
| 41 | HEADSTRONG, B'LORE | Aug. 25, 2011 | 9 | CHEM 01, CS 01, EEE 01, MET 02, MIN 03 | MCA 01 |
| 42 | DELOTTE, HYD | Aug. 25, 2011 | 30 | CS 02, ECE 09, EEE 07, I.T. 06 | CS 01, MCA 05 |
| 43 | GMR ENERGY, B'LORE | Aug. 26, 2011 | 1 | - | MECH 01 |
| 44 | ITTIAM SYSTEMS, B'LORE | Aug. 27, 2011 | 4 | CS 01, ECE 02, EEE 01 | - |
| 45 | CYBAGE S.W., PUNE | Aug. 27, 2011 | 4 | CS 01, ECE 02, I.T 01 | - |
| 46 | WIPRO TECH, B'LORE | Aug. 28, 2011 | 8 | CHEM 01, ECE 01, I.T 01, MECH 02, MET 01, MIN 02 | - |
| 47 | CYPRESS, B'LORE | Aug. 29, 2011 | 3 | CS 01, ECE 02 | - |
| 48 | ALLGO SYSTEMS, B'LORE | Aug. 30, 2011 | 3 | - | CS 02, I.T. 01 |
| 49 | IBM(ISL), B'LORE | Aug. 30, 2011 | 3 | - | CS 01, I.T. 02 |
| 50 | SAP LABS, B'LORE | Sept. 02, 2011 | 6 | CS 02, I.T 03 | CS 01 |

| | | | | | |
|----|--------------------------------|----------------|----|---|-----------------------------|
| 51 | BHARAT FORGE, PUNE | Sept. 02, 2011 | 1 | MET 01 | - |
| 52 | SANDISK, B'LORE | Sept. 03, 2011 | 2 | CS 01, EEE 01 | - |
| 53 | ECI TELECOM, B'LORE | Sept. 05, 2011 | 4 | - | CS 03, SACA 01 |
| 54 | KONEY LABS, HYD | Sept. 05, 2011 | 7 | CS 02, ECE 01, I.T 04 | - |
| 55 | SIEMENS LTD, CHENNAI | Sept. 06, 2011 | 5 | EEE 05 | - |
| 56 | HONDA MOTORCYCLE, NOIDA | Sept. 06, 2011 | 4 | MECH 04 | - |
| 57 | SYMPHONY S.W., B'LORE | Sept. 07, 2011 | 5 | CS 01, MET 01 | CHEM 01, MET 01, SACA 01 |
| 58 | UHDE, MUMBAI | Sept. 07, 2011 | 3 | CIVIL 03 | - |
| 59 | SYNOPSYS, B'LORE | Sept. 07, 2011 | 1 | ECE 01 | - |
| 60 | BARCLAYS TECH, PUNE | Sept. 08, 2011 | 0 | - | - |
| 61 | TALLY SOLUTIONS, B'LORE | Sept. 08, 2011 | 2 | I.T 01 | MCA 01 |
| 62 | GAIL INDIA, N.DELHI | Sept. 08, 2011 | 7 | MECH 07 | - |
| 63 | ACCENTURE, B'LORE | Sept. 09, 2011 | 12 | CIVIL 02, CHEM 02, CS 01, EEE 03, MECH 01, MIN 01 | MCA 02 |
| 64 | PAY PAL, CHENNAI | Sept. 09, 2011 | 4 | I.T 01 | CS 01, I.T 02 |
| 65 | FLAKTWOOD, KOLKATA | Sept. 10, 2011 | 1 | - | MBA 01 |
| 66 | FUTURES FIRST, B'LORE | Sept. 11, 2011 | 3 | ECE 01, MECH 01, MET 01 | - |
| 67 | TATA MOTORS, PUNE | Sept. 13, 2011 | 9 | EEE 01, MECH 08 | - |
| 68 | TEJAS NETWORKS, B'LORE | Sept. 13, 2011 | 4 | ECE 01, EEE 01, I.T 01 | CS 01 |
| 69 | HERO MOTO CORP, N.DELHI | Sept. 13, 2011 | 5 | MECH 05 | - |
| 70 | HSBC, B'LORE | Sept. 14, 2011 | 9 | CIVIL 02, CHEM 02, ECE 02, EEE 02, I.T 01 | - |
| 71 | POWER GRID CORPN., GURGAON | Sept. 15, 2011 | 3 | EEE 03 | - |
| 72 | ITC INFO, B'LORE | Sept. 16, 2011 | 2 | - | MECH 01, MET 01 |
| 73 | INDIAN ARMY, B'LORE | Sept. 16, 2011 | 0 | - | - |
| 74 | MINDTREE, B'LORE | Sept. 16, 2011 | 4 | CS 01, ECE 01, I.T 01 | MCA 01 |
| 75 | PERSISTENT SERVICES, MUMBAI | Sept. 17, 2011 | 0 | - | - |

| | | | | | |
|-----|------------------------------|----------------|----|-----------------------------------|--|
| 76 | COAL INDIA LTD., KOLKATA | Sept. 17, 2011 | 63 | CIVIL 20, EEE 10, MECH 07, MIN 18 | MBA 08 |
| 77 | McAfee S.W., B'LORE | Sept. 24, 2011 | 4 | I.T 03 | MCA 01 |
| 78 | H Z L, GOA | Sept. 25, 2011 | 3 | MIN 03 | - |
| 79 | HCL TECH, CHENNAI | Sept. 26, 2011 | 18 | EEE 02 | CS 01, ECE 03, EEE 01, SACA 03, MCA 08 |
| 80 | IOCL, N' DELHI | Sept. 26, 2011 | 6 | CS 02, EEE 02, MECH 02 | - |
| 81 | SAFRAN ENGG, B'LORE | Sept. 26, 2011 | 1 | MECH 01 | - |
| 82 | SOURCEBIT, B'LORE | Sept. 27, 2011 | 1 | - | MCA 01 |
| 83 | PEPSICO, NOIDA | Sept. 27, 2011 | 2 | MECH 02 | - |
| 84 | ARM EMBEDDED, B'LORE | Sept. 27, 2011 | 3 | ECE 03 | - |
| 85 | UNISYS CORPN., B'LORE | Sept. 28, 2011 | 6 | CS 04, I.T 02 | - |
| 86 | POLARIS, CHENNAI | Sept. 28, 2011 | 3 | CS 01, I.T 02 | - |
| 87 | NOMURA, MUMBAI | Sept. 28, 2011 | 2 | CIVIL 01, ECE 01 | - |
| 88 | GHATGE PATIL, MUMBAI | Sept. 29, 2011 | 0 | - | - |
| 89 | BEL-CRL, B'LORE | Sept. 29, 2011 | 7 | - | CS 04, ECE 02, SACA 01 |
| 90 | YAHOO, B'LORE | Sept. 30, 2011 | 1 | - | CS 01 |
| 91 | ERICSSON, B'LORE | Oct. 01, 2011 | 1 | ECE 01 | - |
| 92 | CAPGEMINI, HYD | Oct. 01, 2011 | 10 | CIVIL 01, ECE 01, EEE 04, I.T 02 | CHEM 02 |
| 93 | M & M, MUMBAI | Oct. 03, 2011 | 0 | - | - |
| 94 | BG EXPLORATION, MUMBAI | Oct. 04, 2011 | 0 | - | - |
| 95 | KENNAMETAL, B'LORE | Oct. 10, 2011 | 1 | MECH 01 | - |
| 96 | L&T INFO, MUMBAI | Oct. 11, 2011 | 4 | CHEM 02, EEE 01 | APPLD MECH 01 |
| 97 | COMVIVA TECH, GURGAON | Oct. 13, 2011 | 3 | EEE 01 | MCA 02 |
| 98 | ESSEL MINING, MUMBAI | Oct. 14, 2011 | 2 | MIN 02 | - |
| 99 | 3 M INDIA, MUMBAI | Oct. 14, 2011 | 4 | CHEM 02, MECH 02 | - |
| 100 | L&T CONSTRUCTION, CHENNAI | Oct. 16, 2011 | * | - | - |
| 101 | INFOTECH ENTERPRISES, MUMBAI | Oct. 17, 2011 | 2 | - | MECH 02 |
| 102 | INTERGRAPH, HYD | Oct. 17, 2011 | 5 | CIVIL 01, MECH 01, MIN 01 | APPLD MECH 02 |
| 103 | IVY COMPTech, HYD | Oct. 18, 2011 | 16 | CS 01, EEE 01, I.T 02 | MCA 12 |

| | | | | | |
|-----|---------------------------------|---------------|----|--|---|
| 104 | ATOS INDIA, MUMBAI | Oct. 19, 2011 | 7 | - | APPLD MECH 01, ECE 01, MECH 01, SACA 02, MCA 02 |
| 105 | IMPETUS INFOTECH, NOIDA | Oct. 20, 2011 | 0 | - | - |
| 106 | ASHOK LEYLAND, CHENNAI | Oct. 20, 2011 | 1 | MECH 01 | - |
| 107 | CAVIUM NETWORKS, HYD | Oct. 23, 2011 | 2 | CS 01 | CS 01 |
| 108 | QUEST GLOBAL, B'LORE | Oct. 28, 2011 | 0 | - | - |
| 109 | TAVANT TECH, B'LORE | Oct. 29, 2011 | 26 | CS 04, ECE 04, I.T 02, MECH 01, MIN 01 | CIVIL 01, CHEM 01, CS 03, ECE 01, I.T 01, MECH 01, SACA 01, MCA 05 |
| 110 | MCNALLY BHARAT, KOLKATA | Oct. 31, 2011 | 2 | MECH 02 | - |
| 111 | BALMER LA WRIE, KOLKATA | Nov. 01, 2011 | 3 | CHEM 03 | - |
| 112 | ACG WORLDWIDE, MUMBAI | Nov. 03, 2011 | 0 | - | - |
| 113 | SOFTJIN TECH, B'LORE | Nov. 03, 2011 | 2 | - | I.T 02 |
| 114 | INTUIT, B'LORE | Nov. 05, 2011 | 0 | - | - |
| 115 | MARUTI SUZUKI, M.P | Nov. 07, 2011 | 1 | MECH 01 | - |
| 116 | CAPILLARY TECH, B'LORE | Nov. 09, 2011 | 1 | MIN 01 | - |
| 117 | RELIANCE INDS., MUMBAI | Nov. 09, 2011 | 5 | CHEM 03, MECH 02 | - |
| 118 | HINDUSTAN UNILEVER, MUMBAI | Nov. 10, 2011 | 0 | - | - |
| 119 | GAMMON INDIA, MUMBAI | Nov. 10, 2011 | 7 | CIVIL 07 | - |
| 120 | ALCATEL-LUCENT, B'LORE | Nov. 10, 2011 | 4 | EEE 01, I.T 03 | - |
| 121 | BHARAT BIJILEE, MUMBAI | Nov. 11, 2011 | 0 | - | - |
| 122 | ST ERICSSON, B'LORE | Nov. 15, 2011 | 3 | ECE 02 | ECE 01 |
| 123 | GRASIM INDUSTRIES, MUMBAI | Nov. 16, 2011 | 11 | CIVIL 03, CHEM 04, EEE 01, MECH 02 | CHEM 01 |
| 124 | CAE SIMULATION, B'LORE | Nov. 17, 2011 | 6 | EEE 01 | EEE 01, MECH 04 |
| 125 | CONSOLIDATED CONST., CHENNAI | Nov. 18, 2011 | 3 | CIVIL 01 | CIVIL 02 |
| 126 | CITIGROUP, B'LORE | Dec. 02, 2011 | 3 | - | I.T 01, MCA 02 |
| 127 | DR. REDDY'S LAB, HYD | Dec. 02, 2011 | 4 | CHEM 01, MECH 03 | - |
| 128 | ROBOSOFT, UDUPI | Dec. 05, 2011 | 1 | - | MBA 01 |
| 129 | TATA AUTOCOMP, PUNE | Dec. 05, 2011 | 0 | - | - |
| 130 | SAMSUNG HEAVY INDS.,NOIDA | Dec. 07, 2011 | 0 | - | - |

| | | | | | |
|-----|------------------------------|---------------|----|--|--|
| 131 | SIEMENS INFO, B'LORE | Dec. 08, 2011 | 1 | - | CS 01 |
| 132 | BOGOLIK SOFTWARE, PUNE | Dec. 19, 2011 | 1 | I.T 01 | - |
| 133 | PRATAP UNIVERSITY, JAIPUR | Dec. 23, 2011 | 6 | - | CIVIL 01, CS 01, I.T 01, EEE 01, MBA 02 |
| 134 | INTEL INDIA, B'LORE | Dec. 24, 2011 | 1 | - | I.T 01 |
| 135 | CA TECH, HYD | JAN. 03, 2012 | 6 | I.T 01 | CS 01, SACA 01, MCA 03 |
| 136 | IBM(GBS), NOIDA | JAN. 04, 2012 | 21 | CIVIL 02, CHEM 01, I.T 02, MECH 02, MIN 01 | CIVIL 02, CHEM 04, ECE 03, I.T 02, MECH 01, MET 01 |
| 137 | NTPC LTD., N. DELHI | JAN. 09, 2012 | 8 | ECE 02, EEE 03, MECH 03 | - |
| 138 | L&T RAMBOLL, CHENNAI | JAN. 09, 2012 | 7 | CIVIL 04 | CIVIL 03 |
| 139 | ATOPTECH DESIGN, B'LORE | JAN. 10, 2012 | 2 | - | ECE 02 |
| 140 | HCL INFO, GURGAON | JAN. 11, 2012 | 3 | CHEM 01, ECE 01, I.T. 01 | - |
| 141 | HAL, B'LORE | JAN. 12, 2012 | 12 | ECE 05, MECH 07 | - |
| 142 | UB LTD., B'LORE | JAN. 12, 2012 | 1 | MECH 01 | - |
| 143 | APACHE DESIGN, B'LORE | JAN. 13, 2012 | 0 | - | - |
| 144 | EXETER GROUP, B'LORE | JAN. 16, 2012 | 3 | CHEM 01, EEE 02 | - |
| 145 | VIT UNIVERSITY, CHENNAI | JAN. 18, 2012 | 3 | - | CIVIL 01, CHEM 01, CS 01 |
| 146 | STUP, B'LORE | JAN. 20, 2012 | 1 | - | CIVIL 01 |
| 147 | BHARTI REALTY, GURGAON | JAN. 20, 2012 | 4 | - | CIVIL 02, EEE 02 |
| 148 | CENTURY LINK, CHENNAI | JAN. 20, 2012 | 3 | ECE 01, EEE 01, I.T 01 | - |
| 149 | IDEA CELLULAR, MUMBAI | JAN. 23, 2012 | 3 | ECE 03 | - |
| 150 | HINDALCO INDUSTRIES, CHENNAI | JAN. 25, 2012 | 1 | MET 01 | - |
| 151 | ITC LTD, KOLKATA | JAN. 27, 2012 | 4 | EEE 01, MECH 03 | - |
| 152 | LSI INDIA, B'LORE | JAN. 27, 2012 | 5 | ECE 02, EEE 01 | ECE 02 |
| 153 | JSW STEEL, BELLARY | JAN. 30, 2012 | 8 | CHEM 02, MET 06 | - |
| 154 | KPMG S.W., B'LORE | JAN. 31, 2012 | 8 | EEE 01, I.T 01, MECH 04, MET 01, MIN 01 | - |
| 155 | COWI INDIA, GURGAON | FEB. 01, 2012 | 2 | - | APPLD MECH 02 |
| 156 | SHARDA UNIVERSITY, NOIDA | FEB. 04, 2012 | 16 | - | APPLD. MECH 04, CIVIL 03, CS 02, ECE 01, EEE 01, I.T 02, MET |

| | | | | | |
|-----|---|--------------------|----|--|------------------|
| | | | | | 03 |
| 157 | ANGLO EASTERN SHIP, MUMBAI | FEB. 08, 2012 | * | - | - |
| 158 | STRATA RETAIL, B'LORE | FEB. 10, 2012 | 2 | - | CS 02 |
| 159 | BOSCH LTD, B'LORE | FEB. 10, 2012 | 1 | MECH 01 | - |
| 160 | HASKONING INDIA, MUMBAI | FEB. 14, 2012 | 5 | - | APPLD MECH 05 |
| 161 | NEYVELI LIGNITE, NEYVELI | FEB. 14, 2012 | 8 | CIVIL 01, EEE 01, MECH 01, MIN 05 | - |
| 162 | TOTAL ENVIRONMENT, B'LORE | FEB. 15, 2012 | 5 | CIVIL 03 | CIVIL 02 |
| 163 | SASKEN COMMUNICATION, B'LORE | FEB. 16, 2012 | 6 | - | ECE 06 |
| 164 | PRDC, B'LORE | FEB. 17, 2012 | 3 | - | EEE 03 |
| 165 | SATISH JAIN & CO., MUMBAI | FEB. 17, 2012 | 2 | CIVIL 01 | CIVIL 01 |
| 166 | BPCL, MUMBAI | FEB. 18, 2012 | 11 | CHEM 03, MECH 08 | - |
| 167 | YOKOGAWA, B'LORE | MAR. 05, 2012 | 1 | - | CHEM 01 |
| 168 | MIDHANI, HYD | MAR. 05, 2012 | 3 | CS 01, MET 01 | MBA 01 |
| 169 | ANU SOLAR POWER, B'LORE | MAR. 05, 2012 | 1 | - | MBA 01 |
| 170 | GOOGLE INDIA, B'LORE | MAR. 13, 2012 | 0 | - | - |
| 171 | MECON LTD, RANCHI | MAR. 17, 2012 | 8 | CIVIL 03, E&C 01, MECH 04 | - |
| 172 | DREDGING CORPN., VAIZAG | MAR. 21, 2012 | 1 | CS 01 | - |
| 173 | LG SOFT, B'LORE | MAR. 22, 2012 | 7 | CS 02, I.T 01 | CS 02, I.T 02 |
| 174 | ENGINEERS INDIA LTD, N DELHI | MAR. 28, 2012 | 4 | CIVIL 01, CHEM 01, EEE 01, MECH 01 | - |
| 175 | EXOTEL TECHCOM, B'LORE | APRIL -5- 2012 | 0 | - | - |
| 176 | SHIRIRAM EPC LTD, CHENNAI | APRIL -7- 2012 | 9 | CIVIL 06, CHEM 03 | - |
| 177 | GREEN LEAF ENERGY, JAIPUR | APRIL -11- 2012 | 1 | - | MBA 01 |
| 178 | INDIAN OVERSEAS BANK, M'LORE | APRIL -23- 2012 | * | - | - |
| 179 | RAJIV GANDHI UNIVERSITY, HYD | APRIL -26- 2012 | * | - | - |
| 180 | THEJUS ENGINEERING COLLEGE, TIRISSUR | APRIL -26- 2012 | 1 | - | CIVIL 01 |
| 181 | NEUERTH INDIA, NOIDA | MAY 07-2012 | 3 | MET 03 | - |
| 182 | SANKALP SEMICONDUCTOR, | MAY 09-2012 | * | - | - |

| | HUBLI | | | | |
|-----|--|--------------|---|----------|---|
| 183 | PRASHASTE EDUCATION & MANAGEMENT, B'LORE | MAY 09-2012 | 1 | CIVIL 01 | - |
| 184 | TECHNIP INDIA, CHENNAI | MAY 10-2012 | * | | |
| 185 | E I TECHNOLOGIES, B'LORE | MAY 11-2012 | * | | |
| 186 | HLS ASIA, NOIDA | MAY 14-2012 | * | | |
| 187 | GLOBAL DELIGHT, UDUPI | MAY 16-2012 | * | | |
| 188 | ULTRATECH CEMENT, GULBARGA | MAY 17-2012 | * | | |
| 189 | OMNESYS INDIA, MUMBAI | MAY 23-2012 | * | | |
| 190 | KRISHANK BHARATI, NOIDA | MAY 24-2012 | * | | |
| 191 | WEG INDUSTRIES, B'LORE | MAY 24-2012 | * | | |
| 192 | OMPL, M'LORE | JUNE 01-2012 | * | | |

*Results awaited

Training Slots for the Academic Year 2011-12

| Sl. No. | Branch | No. of Slots |
|---------|---|--------------|
| 01 | Chemical Engineering | 44 |
| 02 | Civil Engineering | 41 |
| 03 | Computer Engineering | 68 |
| 04 | Electronics & Communication Engineering | 59 |
| 05 | Electrical & Electronics Engineering | 80 |
| 06 | Information Technology | 47 |
| 07 | Mechanical Engineering | 95 |
| 08 | Metallurgical & Material Engineering | 33 |
| 09 | Mining Engineering | 82 |
| | Total Number of Students | 549 |

Number of Companies : 190

Number of Training Slots : 549

17.0 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 2012-13 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 2011-12, has been modified. In addition to passing the qualifying examination, candidates should have a valid SAT-II (Scholastic Aptitude Test - II) score, minimum for first three rounds 1800 and for spot round relaxed to 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 2010 admissions are:

- ◆ Number of seats for 2011-12, 2030
- ◆ Number of Institutions implementing DASA scheme
- ◆ On line admission process
- ◆ On line fee payment process
- ◆ On line seat allotment process
- ◆ SAT II scores for Merit list preparation
- ◆ Processing fee 250 USD

17.2 ENGINEER 2011

Engineer the reputed technical symposium of NITK, Surathkal was held on October 27,2011. Sri U K Basu, Managing Director, MRPL, Mangalore and Sri. M Narendra as guest of Honour and Dr. Sandeep Sancheti, Director, NITK as president.

17.3 MEMORANDA OF UNDERSTANDING (MOUs)

NITK has signed MoUs with the several international and national institutions, universities and agencies. These MoUs cover academic and research domains and a large number of activities such as faculty/student exchanges, joint research projects, joint student guidance, development & delivery of academic courses, establishment of laboratories, product development, etc are being carried out on a regular basis.

List of MOUs : March 2011 – March 2012

The following MOUs were signed between N.I.T.K., Surathkal and :-

1. Central Power Research Institute (CPRI), Bangalore, on March 11, 2011, in the area of Development of Microgrids.
2. Ministry of Human Resource Development, Government of India, New Delhi, on March 30, 2011, for implementation of TEQIP – Phase II.

3. Corporation Bank, Mangalore, on May 2, 2011, facilitating fee collection for CCB – 2011 having Head-Quarters at NITK, Surathkal.
4. Centre for Research & Education for Social Transformation (CREST), Calicut, on May 6, 2011, for academic cooperation and training and capacity building of SC & ST students at NITK.
5. Indian Institute of Technology Madras (IITM), Chennai, on October 2, 2011, for academic cooperation and research collaboration.
6. ECAM Lyon (Ecole Catholique d'Arts et Metiers), School of Engineering, France, on October 17, 2011, for student exchange and research collaboration.
7. National Institute of Technology Calicut on November 8, 2011, for academic cooperation and research collaboration.
8. General Motors Technical Centre India Pvt.Ltd. (GMTCT) on November 10, 2011, for joint research & development.
9. Indian Telephone Industry Lmt. (ITI), Bangalore, on November 14, 2011, for R & D collaboration in the area of Communication Technologies.
10. Oil and Natural Gas Corporation Lmt. (ONGC), Dehra Dun, on December 2, 2011, for providing ONGC scholarships to UG & PG students and research collaboration in the area of Petroleum Technology.
11. Centre for Earth Sciences, Indian Institute of Science, Bangalore, on January 31, 2012, for research collaboration in the area of land deformation of peninsular india.
12. Advanced Micro Devices (AMD), Inc., Sunnyvale, California, USA, on February 24, 2012, for research collaboration in the area of Heterogeneous Computing with OpenCL software package.
13. Non Disclosure Agreement with Robert Bosch Engineering and Business Solutions Lmt. (RBEI), Bangalore, on March 30, 2012, for R&D collaboration in the area of Automobile Technology.
14. Karnataka State Bio Fuel Development Board, Government of Karnataka, Bangalore, on April 5, 2012, for setting up Information & Demonstration Centre at NITK for promoting R&D on Bio-Fuels in Dakshina Kannada District of Karnataka State.

17.4 Scholarships / Assistancehip

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 University 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 those 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.

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

17.5 Innovations & Technology Transfer

Department of Chemistry

| Details of Innovation/Patent | Names of faculty/staff/students involved |
|------------------------------|--|
| Novel Formylation (Filed) | Dr. Arun M Isloor and Mr Rajesh Kumar |

Department of Electronics and Communication Engineering

| Details of Technology Transfer | Names of faculty/staff/students involved |
|--|--|
| Konkan Railway Project Hardware Extension and Enhancement of SSPO – SL and SSPO – DL) This project involves the design of a hardware interface for the simulator which is used to train station masters and locomotive drivers on the railway signaling system. Enhancement of the simulator to make it applicable to double line operation will also be undertaken. | Dr. U Sripati |

Department of Metallurgical And Materials Engg.

| Details of Innovation/Patent | Names of faculty/staff/students involved |
|---|---|
| Method of Manufacturing Nanosilver with Controlled Size and Shape' (Indian Patent: #249056, date of grant: 28 September 2011) | G. Rajkumar, R. Kamatchi, G. Jeevanayagi, R. Karthikeyan, M. Dhanasankar, Anandhan Srinivasan |

17.6 CONCESSIONS FOR SCs, STs, HANDICAPPED STUDENTS

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

| <u>Undergraduate Course</u> | <u>SC</u> | <u>ST</u> | <u>Total</u> |
|-----------------------------|-----------|-----------|--------------|
| I B.Tech | -- | -- | -- |
| II B.Tech. | -- | -- | -- |
| III B.Tech. | -- | -- | -- |
| IV B.Tech. | 11 | 07 | 18 |
| | 11 | 07 | 18 |

CONCESSIONS PROVIDED FOR STAFF - Nil

17.7 SC/ST CELL

A MoU was signed on 6th May 2011 with Centre for Research Education for Social Transformation, Calicut (Govt. of Kerala) with NITK, Surathkal with prime objectives as listed below.

- Training for Self Development, Communication skills and employability enhancement skills for NITK students.
- Submit proposals to relevant agencies to pursue collaborative training / capacity building programmes
- Joint Conferences, Training programmes, Seminars, Workshops, Symposia
- Internship for CREST alumni at NITK that would enable the candidates, particularly those having B.Tech as well as post graduate degree in Science and Technology, to work as intern for short duration in various research labs at NITK
- Faculty development programme

In view of the MoU the SC-ST Cell, NITK- Surathkal had coordinated two programmes for the welfare of the SC-ST students of NITK Surathkal. The first programme was the Professional Skill Enhancement Programme (PSEP) conducted for SC/ST/OBC/PWDs students of B.Tech pre final year and M.Tech final year during 27th June – 16th July 2011. The second programme was the Orientation Programme for first year SC/ST/OBC/PWD students between 31st August to 4th September 2011.

The three weeks in house programme, conducted for the SC/ST/OBC/PWDs students of NITK, Surathkal aimed to impart soft skills in the students and prepare them to face interviews and group discussions. 37 students of pre-final year B.Tech & final year M.Tech students actively participated in the programme. The course content of the three weeks programme is given below.

3-weeks in-house programme :

1) *Communication skills in English for Advanced Learners*

Role play, Interviews, Information gap filling, pair work, interactive stories and group discussions.

2) *Self Enhancement for Professional Excellence*

Understanding Personality
Teamwork
Leadership
Interpersonal Skills
Learning style
Decision making
Public speaking & Presentation
Etiquettes & Social graces
Employability enhancement

3) *Theatre Programme*

Remove their inhibitions
Increase confidence
Self motivation
Whilst working as part of a team
Body language through role plays exercise

From the placement records of the institute for the academic year 2011 – 2012 it is evident that out of 37 students 30 of them got placement in reputed organizations. Among the 30 student 14 of them have got dual placements.

Self Enrichment Programme for First year Students

The SC-ST Cell arranged a five days orientation programme titled "Self Enrichment Programme" between **31st August to 4th September 2011** for first year SC/ST/OBC/PWD students of NITK-Surathkal in association with CREST Calicut. The financial support for the programme was rendered by Technical Education Quality Improvement Programme, Phase-II (TEQIP-II) of NITK-Surathkal. Around 50 students actively participated in the programme. The programme was designed to develop social skills, study strategies, and improve their aspiration levels, orientation and abilities to adapt to the environment at NITK and to perform to their maximum abilities.

Other activities of the SC/ST – Cell during the year 2011-2012 includes:

- Monitoring & Implementation of Reservation Roster
- Provision of web link on the institute's website for posting grievances of the students and employees of the institute
- Coordinating Scholarship Schemes for the benefit of the students belonging to SCs/STs
Central Sector Scheme of Top Class Education (2007 - 08 onwards)
MoTA: 5 per year (Parents income less than 2 lakhs)
MoSJE: 12 per year (Parents income less than 4.5 lakhs)
- Co-ordination of Ambedkar Jayanthi celebration in the institute
- Special Coaching for all theory subjects and CP Lab for First Year B.Tech Students belonging to SC/ST/ OBCs, Minorities and PWDs
- Conducting/ Coordinating Training Programmes for Students and Staff (Teaching and Supporting staff)

17.8 NSS

The NSS unit of the NIT K Surathkal (formerly KREC Surathkal) has been actively rendering its services to the backward areas and villagers of Dakshina Kannada district since its inception in this institute in 1964. The NSS unit organizes regularly 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 Vishweswaraiah Technological University. For the year 2010, the institute has already obtained permission from the Karnataka state NSS unit to have NSS unit which is independent to NIT K Surathkal.

17.9 RIGHT TO INFORMATION ACT (RTI 2005)

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

Right to Information under the Act

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

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

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

Suo-Moto disclosures are uploaded on the NITK website under RTI section. These disclosures are mandatory and are crucial to ensure transparency and accountability. This would reduce the load of RTI Applications which are freely available to citizens. 122 RTI Applications were received during the year 2011-12 (from 01.04.2011 to 31.03.2012)

17.10 YOGA CENTRE HISTORY

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

RECENT INITIATIVES

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

MAJOR ACHIEVEMENTS

- 180 people have been enrolled in this semester in different batches which is very large as compared to previous year enrolments and about same number of students are likely to enroll in the next semester yoga practices.
- More than 60 girl students have enrolled for yoga practices this year and are actively participating in almost all batches.

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

17.11 TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME (TEQIP)

In 2002-03, the Government of India with financial assistance from the World Bank launched a Technical Education Quality Improvement Programme (TEQIP) as 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 namely TEQIP-I was successfully implemented at NITK, Surathkal during 2003-09 period for strengthening its Undergraduate education with a total grant of Rs.209.4 million.

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

As per the Institute Development Proposal (IDP) submitted by the Institute to NPIU, a total amount of Rs.125 million is earmarked for development of Post graduation Education and Demand - Driven Research & Development and Innovation. Out of this, 45% of the total outlay is earmarked for Procurement of Goods, works and services under the activity of Improvement in teaching, training and learning facilities, 20% for Teaching and Research Assistantships, 5% for Research and Development, 10% for Faculty and Staff Development, 5% for Industry Institute Interaction, 10% for Incremental Operating Cost, 2% each for (i) Institutional Management Capacity enhancement and (ii) Academic Support for weak students and 1% on Institutional reforms.

Out of the total outlay of Rs.125 million, a sum of Rs.20 million has been received by this Institution during July 2011 and a sum of Rs.1.174 million has been spent during the financial year 2011-12 (up to 31-03-2012) under the following activities:

| | |
|---|--------------|
| Improvement in Teaching, Training and Learning facilities ... | Rs. 0.289 m. |
| Academic support for weak students ... | Rs. 0.135 m. |
| Incremental Operating Cost | Rs. 0.750 m. |

Considering the various activities to be taken up during the current financial year on the above development plan a demand for further amount of Rs.51.7 million has been sent to NPIU.

18.0 INDUSTRY INSTITUTE INTERACTION

18.1 Industry Institute Partnership Cell (I.I.P Cell)

The IIP Cell at NITK, Surathkal is engaged in building Institute Industry Collaboration for mutual benefit. The Cell is headed by a faculty member of Associate Professor or above grade supported by a Literate Assistant. The faculty in-charge reports to Dean (P & D)/Director.

IIP Cell is mainly involved in handling of Testing and Consultancy works of all the departments, arranging endowment lectures and establishing MOU with different industries with well defined guidelines of interaction for mutual benefit. MOUs have been signed with industries like MRPL, Texas Instruments, National Instruments, IBM, and Robert Bosch in last 4-5 years. The main content of MOU includes usage of facilities at either end. Few industries have also sponsored professorial chair, and established laboratories at NITK. IIP Cell has compiled the technical facilities in various departments in the form of a booklet "Technical Information Digest". This book has been sent to about 250 industries in Karnataka.

The IRG through Testing and Consultancy has been improving since last 3-4 years. The total revenue through Testing & Consultancy works for the year 2011-12 is Rs. 4.17 crores. Visit to local large and medium scale industries, technical talks by industrial people, demonstration of products by industry, inputs to students for improving their managerial skills by industrial experts are some of the other activities of the Cell. Emphasis is laid on importance of quality practical training for students and during the present year M.Tech students have been deputed for real life projects at different industries.

IIP Cell extended support to the training and placement department in providing adequate information about different industries so that more students are placed during campus recruitment. Presently, IIP Cell is establishing contacts with certain major industries who can associate with NITK to start joint PG programmes or joint consultancy and development works. 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 Chemical Engineering

| Name of Industry/organization/institute | Nature of Collaboration (Academic, Research, Training, Etc.) | Period / Duration |
|---|---|--|
| MRPL, MCF, KIOCL, BASF, Mangalore; M/s. Hindustan Petroleum Corporation Ltd, and nearby industry | collaborating several industries under testing and consultancy like Ambient Air Quality Monitoring; Effluent analysis; Environmental Studies; Monitoring of Stack &, DG Set Emission studies | once in a month or year |
| MRPL, MCF, KIOCL, BASF, Mangalore; M/s. Biocon India Ltd., Bangalore; KSPCB; M/s. Kingfisher Breweries Ltd. (United Breweries Group), Ludhiana, Punjab; M/s. Hindalco, Belgaum; | UG & PG students Vocational Training and Project work. | Training during Summer vacation and PG Projects during their III and IV Sem. |

National Institute of Technology Karnataka, Surathkal

| | | |
|---|---|------------------------------|
| Central Institute of Microbial & Aromatic Plants, Luknow; Institute of Himalayan Bio resource Technology,, Palampur (H.P.); National Instt. of Immunology, New Delhi; M/s. Hindustan Petroleum Corporation Ltd, Mumbai; Waste Water Management (WWM), BWSSB, Bangalore; M/s.Fertilizers & Chemicals Travancore, Udyogamandal, Kerala; M/s. Sterlite Industries (India) Ltd., Tuticorin; M/s. AT&S India Pvt. Ltd., Mysore; M/s. BPCL Kochi Refinery, Kochi; M/s. Larsen & Toubro. Limited, Mumbai; M/s. Azyme bioscience Pvt.Ltd., Bangalore; M/s. Zuari Industries Ltd., Goa; M/s. Wipro Consumer Care & Lighting Limited, Tumkur; IICT, Hyderabad; UDCT, IIT, Mumbai; IIT, Chennai; IIT, New Delhi; NCL, Pune; CLRI, Chennai; CFTRI, Mysore; NEERI, Nagpur; Nal. Bangalore; NIIST, Trivendrum | | |
| Weizmann Institute of Science, Rehovot, Israel | Akshay Srinivasan B.Tech. student (Roll No. 07020507CH03) attended for part of his project work. | in 8 th sem. |
| SASTRA University, Thanjavur | Mr. AASHIS R., a student of B.Tech. Chemical Engg. carried out project work on "Mathematical Modeling of a Packed Bed Adsorption Column used for Removal of Toluene from Gaseous Effluents", under the guidance of Dr. B. Raj Mohan | Student Internship programme |

Department of Computer Engineering

| Name of Industry | Nature of Collaboration (academic, research, training, etc) | Period/Duration |
|---|---|----------------------|
| M/s IBM INDIA LTD (IBM OPEN POWER LAB) | Academic | 2007-2012 5 years |

Department of Electrical And Electronics Engineering

| Name of Industry | Nature of Collaboration (academic, research, training, etc) | Period/Duration |
|--|---|---|
| <ul style="list-style-type: none"> • BHEL • ABB • CPRI • ALSTOM • NAL | Training, Research | Internships during summer vacation, Short-term research |

Department of Electronics and Communication Engg.

| Name of Industry | Nature of Collaboration (academic, research, training, etc) | Period/Duration |
|----------------------------|--|-----------------|
| ARM University Program | Sponsored a Workshop on <i>ARM Architecture and Applications</i> for faculty of engineering colleges and students. Instituted prizes for best student projects in BTech and MTech programs | 2009-2012 |
| Texas Instruments | UG Project | 2011-2012 |
| Intel, Bangalore | PG Project | 2011-2012 |
| Robert BOSCH, B'llore | PG Project | 2011-2012 |
| NAL, Bangalore | PG Project | 2011-2012 |
| ST Microelectronics, Noida | PG Project | 2011-2012 |

Department of Mechanical Engg.

| Name of Industry | Nature of Collaboration (academic, research, training, etc) | Period/Duration |
|-------------------------------------|--|-----------------|
| Robert Bosch Ltd., (RBEI) Bangalore | Academic and research in automotive research | 3 years |
| CMTI Bangalore | Academic and research in Manufacturing | 3 years |

Department of Mining Engg.

| Name of Industry | Nature of Collaboration (academic, research, training, etc) | Period/ Duration |
|---|--|--------------------------------------|
| Bangalore Metro Rail Corporation Limited | Consultancy work | 2 Years |
| 1)The SCCL, A.P 2) Northern Coal Fields, Singarouli, M.P 3) Fomento Iron Ore Company, Goa | Certificate Course on Mine Surveying | 4th June to 3rd July 2011; One month |

Department of Metallurgical and Materials Engg.

| Name of Industry | Nature of Collaboration (academic, research, training, etc) | Period/Duration |
|---------------------------|--|--------------------------|
| IPR, Gandhinagar, Gujarat | M.Tech. Project | August 2011 to June 2012 |
| 3M India Ltd., Bangalore | M.Tech. Project | August 2011 to June 2012 |
| GE, Bangalore | M.Tech. Project | August 2011 to June 2012 |

19.0 SIGNIFICANT ACHIEVEMENTS

19.1 Infrastructure Development

A 33 kV electrical sub-station has been installed at a total project cost of ₹390 lakh and commissioned within the NITK campus for the exclusive use of NITK.

A Vehicular underpass across the National highway 66 has been constructed at a total cost of ₹ 462 lakh for easy access of both the eastern and western parts of the Institute campus avoiding the heavy trafficked national highway as well as service roads of national highway.

A new Mechanical Engineering block with about 8,560 sqm of built up area has been constructed at a cost of ₹20.86 crore.

A new building for Division of Basic Sciences with about 7,970 sqm of built up area has been constructed at a cost of ₹13.20 crore.

A new Ladies hostel building consisting 347 single occupancy rooms in about 9,723 sqm of built up area has been constructed at a cost of ₹ 11.98 crore.

One new Teaching block of about 6,932 sqm of built up area consisting 12 classrooms, 8 Lecture halls, one seminar hall and a senate hall is under construction at an estimated cost of ₹23 crore. The building is expected to be completed by June 2013. (being executed through CPWD)

Four apartment consisting 24 units have been constructed for the accommodation Teaching Faculty at a total cost of ₹550 lakh.

2 nos. of 500KLD capacity Sewage Treatment Plants are in completion stage (Cost about ₹ 250 lakh) which will treat the sewage of entire campus as per the State Pollution Control Board norms.

New Projects in pipeline

A new Integrated Sports Complex at a project cost of Rs. 17 crore

New Convention hall cum Heritage & Technology Center

6 more apartments for Faculty residence

5 apartments for non-faculty residence

A new bungalow for the Institute Director

A new building block for CSE department

New building space for MME department

Landscaping the entire campus with covered pathways for interconnecting all major buildings/locations.

19.02 Notable Achievements

Department of Applied Mechanics and Hydraulics

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

| Sl.No. | Subject/Head of Information | Name/Title | Dates | No. of participants |
|--------|-----------------------------|---|--|---------------------|
| 1. | National Conference | Sustainable Water Resources Management | 7 th – 9 th January, 2010 | 50 |
| 2. | STTP | School on Effective Teaching Methodologies-Statics | 10 th -14 th May, 2010 | 66 |
| 3. | STTP | Soft computing techniques in Water Resources Engineering | 5 th July to 9 th July 2010 | 50 |
| 4. | STTP | Fuzzy logic, genetic algorithm with wavelet transformation in Civil Engineering | 27 th June to 1 st July 2011 | 54 |

Achievement during the period of report

| Sl.No. | Subject/Head of Information | Name/Title | Dates | No. of participants |
|--------|-----------------------------|---|--|---------------------|
| 1. | STTP | Fuzzy logic, genetic algorithm with wavelet transformation in Civil engineering | 27 th June to 1 st July 2011 | 54 |

Department of Civil Engineering

Past Achievements of the Department (Important Ones in past three years)

(i) Achievements of students during the year:

- (i) Er. Kishor Kulkarni, Research Scholar in the Department was selected for the Student Interaction Research-Fellowship under the UKIERI Collaborative Research Project in which the Department is associated over the last three years. Under the Fellowship, Mr. Kishor Kulkarni conducted research experiments for six weeks at Concrete Technology Unit, University of Dundee, Scotland, during March-Apr 2011.
- (ii) Ms. Akshatha Shetty, Research Scholar and Mr. Bharath Mallya, student of II Year M.Tech (Transport.Engg) visited Kagoshima University, Japan, for a fortnight during August 2011, as the Institute Delegates in the Academic Exchange Program under the aegis of the MOU with that University.
- (iii) Ms. Sri Laxmi Prashanth, Mr. Kishor Kulkarni and Mr. Poornachandra Pandit, the Ph.D Research scholars, and Mr. Ajit Kamath Manohar and Kaustav Sengupta, the undergraduate students of Department attended the Second International Engineering Symposium 2013 held at Kumamoto University, Japan to present their research papers
- (iv) The following students made the Department proud by securing admissions in reputed universities abroad for further studies.

- a. Mr.Roman Poya.(B.Tech-2011) - (Erasmus Mundus 11) –EU
- b. Ms. Chrsyl A Aranha (B.Tech-2011) - (Erasmus Mundus 11) –EU
- c. Ms. Pooja Bhat (B.Tech-2011) – University of British Columbia, Vancouver, Canada
- d. Ms. Ranjani M.V (B.Tech-2011) – University of Illinois.Urbana-Champegne'USA
- e. Sangameshwar (B.Tech-2011) University of Texas at Austin, USA
- f. Srihari Sridhar (B.Tech-2011), University of Torento, Canada
- g. Sharath S. (B.Tech -2011), Osaka University, Japan.
- h. Ravishankar M.S (B.Tech-2011), PennState, USA
- i. Ms. Jnana Bairy(B.Tech 2010), Taxas A&M University, USA
- j. Mr. Ilyas Ahamad, (M.Tech 2010) – Kyoto University, Japan

(v) Mr. Nithesh Bhat of the final year B.Tech class was selected for the prestigious Student Summer Internship Programme at National Technical University, Singapore, during May-July 2011.

(vi) Mr. Karan Thomas Mathew was selected for a 2-month internship at the Structural Engineering Research Centre, a CSIR lab at Chennai, under the prestigious Summer Research fellow scheme of INAE for the undergraduate students of Engineering.

(viii) Mr. Vinay Damodaran and Mr. Ajilesh were declared runner-up in the Regional Level STIMULUS-2011 Civil Engineering Quiz Contest held at Mangalore on 04th Nov 2011. The event was sponsored by UltraTech Cements, Aditya Birla Group.

Research Bulletins

| Sl | Title of the Paper | Conference Name, Place, Dates, Page Nos | Author (s) |
|----|---|---|---|
| 01 | Planning and Design of Pressurized Water Distribution Network for NITK Campus | NITK Research Bulletin Vol.20, No.2 Dec 2011 pp 1-7 | Pruthiviraj H.K Sanjay Kumar G.R Subhash C Yaragal and M.K.Nagaraj |
| 02 | Effect of Coir reinforcement and Vertical Drains on the Sellement Properties of Lateritic Soils | NITK Research Bulletin Vol.20, No.2 Dec 2011 pp 30-41 | Ramakrishna Hegde Varghese George Dwarika Gotamey and A.U.Ravishankar |
| 03 | Role of Genetic Algorithm as an Optimization Tool and Its Fundamental Concepts | NITK Research Bulletin Vol.20, No.2 Dec 2011 pp 42-52 | Varghese George and Sreeharsha B.R |
| 04 | A Study on Seismic Evaluation of 132 kV Current transformer | NITK Research Bulletin Vol.20, No.2 Dec 2011 pp 53-60 | Sanjana N Ramesh Babu R and Katta Venkataramana |
| 05 | Effect of Corrosion in Reinforced Concrete Members on the Bond Strength – An Overview | NITK Research Bulletin Vol.20, No.2 Dec 2011 pp 53-60 | Akshatha Shetty Katta Venkataramana Indrani Gogoi S.A.Aditya R.Bharath Sajal Tariq Zyad |
| 06 | An Approach to Re-alignment of Highway and Design Using Mx Road | NITK Research Bulletin Vol.20, No.1 2011 | George Varghese and Nair Arya S |

| | | | |
|----|---|--|--|
| | and Comparison of Alignments Interfacing Survey Data in AutoCAD | pp 42-51 | |
| 07 | Effect of Coir Reinforcement and Vertical Drains on the Settlement Properties of Lateritic Soil | NITK Research Bulletin Vol.20, No.2, 2011 pp 30-41 | Hegde Ramakrishna, George Varghese Gotmey Diwakar and A.U. Ravi Shankar |
| 08 | Laboratory Model Study of Reinforced Stone Columns in Soft Soils | NITK Research Bulletin Vol.20, No.1, 2011 pp 21-31 | M.R.Dheerendra Babu, R. Shivashankar, Sitaram Nayak and Jahad A. Majeed |

Department of Chemistry

Achievements during the period of report

| Achievements up to 31 st March 2011 | Achievements during 1 st April 2011 to 31 st March 2012 |
|--|---|
| The department of Chemistry has shifted to its new facility having about 3,000 sq.mt. work area. | <p>The department received the X-ray diffractometer, costing Rs. 150 lakhs under DST-FIST, to facilitate single crystal X-ray diffractometer in the department. (Five year project), but not yet installed. The AC room in Science Block is getting ready.</p> <p>Dr. Arun M Islor received state level award from Vision group on Science & Technology, Department of Science & Technology, Government of Karnataka on 09-02-2012.</p> |

Department of Chemical Engineering

Notable achievements: Achievements during year

Foreign visits made by Faculty Members :-

| Sl.No. | Name of the staff | Date & Place of Visit | Purpose of Visit |
|--------|---------------------|--|---|
| 1. | Dr. Vidya Shetty K. | May 2,2011 to July 15,2011 Kyng Hee University, Suwon, S.Korea | As Researcher in the area of Process and Environmental Systems Engineering |
| 2. | Dr. B. Raj Mohan | Oct. 25 th to 31 st October, 2011 Busan at South Korea | KOSAE Conference for presenting a paper |
| 3. | Mr. Jitendra Pal S. | Oct. 25 th to 31 st October, 2011 Busan at South Korea | 53 RD International KOSAE Conference for presenting a paper |
| 4. | Dr. Prasanna B.D. | Dec. 23 to 24, 2011 Bangkok, Thailand | International conference on Advances in Biotechnology and Pharmaceutical Science, ICABPS-2011, for presenting a paper |
| 5. | Dr. I. Regupathi | Dec. 23 to 24, 2011 Bangkok, Thailand | International conference on Advances in Biotechnology and Pharmaceutical Science, ICABPS-2011, to presentation of paper |
| 6. | Dr.M.B. Saidutta | March 5-7, 2012 Kumemoto University, Japan | 2 nd International Engg. Symposium held at Kumemoto University, Japan for presenting a paper |

Guest Lectures Delivered By External Experts During 2011-2012.

| Sl.No. | Subject of the Guest Lecture | Lecture Delivered by (Name & Address) | Dates of Lecture |
|--------|---|---|--------------------------------|
| 1. | “Refining Scenario in India-Challenges and Opportunities” Under M.G. Subba Rau Lecture Series | Sri. B. N. Bankapur, Director (Refineries), Indian Oil Corporation Limited, New Delhi | August 6 th , 2011. |
| 2. | Delivering Energy in a Carbon Constrained World | Dr. Girish G.Rao, General Manager, Shell India | 15 th March 2012. |

Guest Lectures Delivered By The Dept. Faculty

| Sl.No. | Subject / Topic of the Guest Lecture | Lecture Delivered by (Name & Address) | Place & Event of Lecture Delivered | Dates of Lecture |
|--------|--------------------------------------|---------------------------------------|------------------------------------|----------------------------|
| 1 | Media optimization in Fermentation | Dr. Prasanna D. Belur | St. Aloysius college, Mangalore | Dec. 17 th 2011 |

Projects Completed By The Students During 2011-2012:-

Under Graduate Students

| Sl. No. | Name of the Student | Title of the B.Tech. Thesis | Name of the Project Guide | Place at which project work done |
|---------|--|---|---------------------------|-----------------------------------|
| 1 | Abhisek Mohanty Chaitanya Krishna SK, Sidhartha Paliwal | Synthesis & Characterization of Hydrogels | Dr.P.E.Jagadeesh Babu | Chem.Engg. Dept., NITK, Surathkal |
| 2 | Ravindra Shenoy S Poornachandra Tejasvi Upadhyaya, Budhesh | Biodegradation of Toluene in a Fluidized Bed Bioreactor. | Dr. I. Regupathi | Chem.Engg. Dept., NITK, Surathkal |
| 3 | Arun S Mahadevan Arti Munshi Viji Vijayan | Analysis of Bacterial Tennase Production in a Bioreactor. | Sri. Prasanna B.D. | Chem.Engg. Dept., NITK, Surathkal |
| 4 | Lokesh Rai | Ozonation of Waste Water | Dr. M.B. Saidutta | Chem.Engg. Dept., NITK, Surathkal |
| 5 | Benny M K Noel Jacob K Tekalkote Sumanth | Bioconjugation of <i>Bacillus Fastidiosus</i> Uricase using Linear Polyethylene Glycol and Monomethoxy-Polyethylene-Glycol-P-Nitrophenyl Carbonate. | Dr.P.E.Jagadeesh Babu | Chem.Engg. Dept., NITK, Surathkal |
| 6 | Fiaz Ahmed R Nalla Prasoona Yogesh Nayak V | Analysis of Entrance Region Flow of Bingham Fluid in Concentric Annuli | Dr.A.Kandaswamy | Chem.Engg. Dept., NITK, Surathkal |

| | | | | |
|----|---|---|-------------------------|--|
| 7 | Bharat B. Saklani Raaj Kimothi Dipti Saroogi | Artificial Neural Network based Feed Forward Control of Continuous Stirred Tank Reactors. | Dr. Vidya Shetty K. | Chem.Engg. Dept., NITK, Surathkal |
| 8 | Jenifer Fernandes Pranita Hazarika Rohini Raju Dhabre | Media Optimisation for the Production of Uricase by Fungal Species | Dr. P.E. Jagadeesh Babu | Chem.Engg. Dept., NITK, Surathkal |
| 9 | Sagar P Manju Darshan G. Vishal R Savanur | Esterification of Titania Nano-Filtration Membranes by Electro-Chemical Anodization and their Surface Characterization. | Dr. P.E. Jagadeesh Babu | Chem.Engg. Dept., NITK, Surathkal |
| 10 | Abhijeet Savale Shishupal Verma Pronay Barai Tejas B | Extraction of Lipid from Microalgae to Produce Biofuel | Dr. Shree Kumar | Chem.Engg. Dept., NITK, Surathkal |
| 11 | Dasharathy N R Kunal Bhagi Dilip Sagar M | A Comparative Study on CO ₂ Sequestration on Lime and Red Mud Pellets in a Three Staged Packed Bed Adsorber. | Dr. B. Raj Mohan | Chem.Engg. Dept., NITK, Surathkal |
| 12 | Akshay Srinivasan | Spectral Methods: Applications to Quantum Mechanics and Flow Stability. | Prof. David Tanner | Weizmann Institute of Science, Rehovot, Israel |

POST GRADUATE THESIS COMPLETED DURING 2011-2012.

CHEMICAL PLANT DESIGN :-

| Sl. No. | Name of the Student | Title of the M.Tech. Thesis | Name of the Project Guide | Place at which project work done |
|---------|------------------------------|---|--|--|
| 1. | Mr. A. Anwar | Experimental Analysis of Flow and Mixing Behaviour in Micro channels | Dr. S. Pushpavanam & Dr.P.E.JagadeeshBabu, | Chemical Engg. Dept., NITK, Surathkal. |
| 2. | Mr. Burugupalli Ramesh | Comparative Study of Micro vs Conventional Reactor | Ms. Usha Virendra & Dr.P.E. Jagadeesh Babu | CES, IICT, Hyderabad |
| 3. | Ms.Deepthi Chowdary Upputuri | Liquid RTD Studies in Three Phase Draft Tube Spouted Bed Contactor | Dr. D.V.R. Murthy | Chemical Engg. Dept., NITK, Surathkal. |
| 4. | Ms. Dinesh Singh Karakoti | Adsorption Study of Xylene Vapors on Activated Carbon from Anacardium Occidentale Seed Husk in a Multistage Packed Bed Column | Dr. B. Raj Mohan | Chemical Engg. Dept., NITK, Surathkal. |
| 5. | Mr. Karthik K.V. | Development and Characterization of Transformer Oil Based Nano Fluids | Dr. R.N. Das, & Dr. M.B. Saidutta | CTI, BHEL, Bangalore, |
| 6. | Mr. Nagarjuna Kuncham, | Performance Analysis Of Batch Reactor For The Etherification Of Glycerol Using Ion Exchange | Dr.P.E.Jagadeesh Babu | Chemical Engg. Dept., NITK, Surathkal. |

| | | Catalyst | | |
|-----|--------------------|--|---|--|
| 7. | Ms. Rajyam Pusarla | Development of a Virtual Lab in Chemical Engineering | Dr. Vidya Shetty K. | Chemical Engg. Dept., NITK, Surathkal. |
| 8. | Mr. Sanjeev Kumar | Development of a Photocatalytic Reactor | Dr. Sanjay P. Kamble, & Dr. Vidya Shetty K. | CEPD Division, NCL, Pune |
| 9. | Ms. Shamnamol G.K. | Microwave Assisted Biodiesel Production from Fish Oil | Dr. I. Regupathi, | Chemical Engg. Dept., NITK, Surathkal. |
| 10. | Ms. Shruthi Joshi | Studies on Pulsed Plate Column as a Two Phase Partitioning Bioreactor for Phenolbiodegradation | Dr. Vidya Shetty K | Chemical Engg. Dept., NITK, Surathkal. |
| 11. | Ms. Sindhu N. | Optimization of the Partitioning of Bovine-Serum-Albumin in Aqueous Two Phase System | Dr. I. Regupathi, | Chemical Engg. Dept., NITK, Surathkal. |
| 12. | Mr. V. Jayaram | Design and Development of Artificial Immune Systems and their Application to Chemical Process Optimization | Dr. Sanjeev S. Tambe & Dr. Vidya Shetty K. | Chem.Engg.Dvn ., NCL, Pune |
| 13. | Mr. Sanketh Patil | Forward Osmosis for Desalination | Dr. N.K. Rastogi, & Dr.P.E.Jagadeesh Babu | CFTRI, Mysore. |

Industrial Pollution Control :-

| Sl. No. | Name of the Student | Title of the M.Tech. Thesis | Name of the Project Guide | Place at which project work done |
|---------|-------------------------------|--|--|--|
| 1 | Mr. Alamuri Jayadurga Karthik | Studies on Ozonolysis of Congo Red Dye Solution in a Semi Batch Bubble Column using Sintered Glass Diffusers | Dr.PE.Jagadeesh Babu, | Chemical Engg. Dept., NITK, Surathkal. |
| 2 | Ms. Aparna K.A | Isolation of Metal Resistance Strains from Iron Mine Water for Biosorption of Heavy Metals | Dr. Vidya Shetty K., | Chemical Engg. Dept., NITK, Surathkal. |
| 3 | Mr. Avinash V. | Development of Nanoporous Polymeric Adsorbents for Treatment of P-Type Pharmaceutical Chemicals | Dr. R.J. Krupadam & Dr. B. Rajmohan | NEERI, Nagpur |
| 4 | Mr. Boddu Shivakumar | Mathematical and Kinetic Modeling of Fixed Bed Biofilm Reactor involved in the Treatment of Industry Waste Water | Dr. Ch. Venkateswarlu & Dr. Raj Mohan B. | IICT, Hyderabad |
| 5 | Mr. Debasish Behera | Development of a Novel Immobilized Bioreactor for Removal of Mixture of VOCs | Mr. S.N. Mudliar, & Mr. Jitendra Pal S., | NEERI, Nagpur |
| 6 | Ms. Deepa D.T. | Adsorption Study of (VOCs) (Toluene Vapor) using Activated Carbon from Anacardium Occidentale Seed Husk in | Dr. B. Raj Mohan | Chemical Engg. Dept., NITK, Surathkal. |

| | | | | |
|----|----------------------------|--|---|---|
| | | Multistage Packed Bed Column and Batch Studies for the Degradation of Toluene | | |
| 7 | Mr.Gopal Chakravarthy H.S | Assessment of SO ₂ Emissions due to the Combustion of Fallen Tree Leaves | Dr. S.K.Goyal & Mr. S. Jitendra Pal | NEERI, Nagpur |
| 8 | Mr. K.S. Prasanna | Photocatalytic Degradation of 4-Fluoropenol using Ag Doped TiO ₂ Nano Particles | Dr. Vidya Shetty K., | Chemical Engg. Dept., NITK, Surathkal. |
| 9 | Mr. Kiran Kumar S.H. | High Temperature Adsorption and Desorption Behaviour of CO ₂ by Nano-Structured Lithium Zirconate | Dr. Sukumar Roy, & Dr. B. Raj Mohan | BHEL, Bangalore |
| 10 | Mr. Madhu C. J. | Modelling of Health Impacts due to Climate Change Air Pollution | Dr. K. Krishnamurthi & Dr. Raj Mohan B. | NEERI, Nagpur |
| 11 | Mr. Mithun Kumar | Development of Cavitation – Wet Oxidation Based Process for Enhanced Biodegradation of Recalcitrant Waste | Dr. R.A.Pandey & Dr. Kiran R. Paradkar & Dr. I. Regupathi | NEERI, Nagpur |
| 12 | Mr. Raghavendra B.R. | Biodegradation of Oily Sludge using Microbial Consortium and Organic Amendment | Dr. Asha A. Jawarkar & Dr. B. Rajmohan | NEERI, Nagpur |
| 13 | Mr. Rajesh H | Studies on Removal of Mixture of VOCs in a Biofilter | Mr. S.N. Mudliar & Mr. Jitendra Pal S., | NEERI, Nagpur |
| 14 | Mr. Satyanarayana Reddy Y. | Optimization of Biodiesel Production by Microwave Assisted Batch and Continuous Transesterification of Karanja Oil | Dr. I Regupathi, | Chemical Engg. Dept., NITK, Surathkal. |
| 15 | Mr. Shivakumar B. M. | Hydrogen Separation Studies on Ceramic Supported Nano Porous Silica Membranes | Dr. C. D. Madhusoodana & Dr. I. Regupathi, | CTI, BHEL, Bangalore |
| 16 | Ms. Sneha R. | Use of Membrane Technology for the Treatment of Coke Oven Waste Water and Sewage Water | Mr. SMR Prasad & Dr. Raj Mohan B. | Environmental Dept, ISW, Bellary |
| 17 | Ms. Varshadeep G.P | Studies on Biodegradation of Petroleum Hydrocarbon by Fungi | Dr.Gopal Mugeraya & Dr. Prasanna B.D. | Chemical Engg. Dept., NITK, Surathkal. |
| 18 | Mr. Vipin Kumar | Preliminary Assessment of Health Impacts (on Lungs) due to NO _x Emissions in Kitchen Environment | Dr.S.K.Goyal & Mr. Jitendra Pal S., | NEERI, Nagpur |
| 19 | Mr. Vivek Raj | Studies on CO ₂ Sequestration and Biodiesel Precursors using High Performance Photobioreactor | Dr. K. Krishnamurthy & Dr. B. Rajmohan, | NEERI, Nagpur |
| 20 | Mr. Ashwin Kamath | Dechlorination of PCB's in Transformer Oil | Dr. C. J. Naidu & Mr. S. Jitendra Pal, | Central Power Research Institute, Bangalore |

| | | | | |
|----|-----------------------|--|---|--|
| 21 | Ms. Neeraja H.S | Performance Evaluation of Organic Solution-1 Dormant Microbial Solution (OS1dms) in Sewage Treatment | Mr. Prakash Kulkarni, & Dr. G. Srinikethan, | J.M.S. Pvt.Ltd., Mysore |
| 22 | Mr. Yallappa Pulyagol | Nutrient Dynamics in a Lake of Rapidly Urbanizing Landscape | Dr. T.V. Ramachandra & Dr. B. Raj Mohan, | Centre for Ecological Sciences, I.I.Sc., Bangalore |

INDUSTRIAL BIOTECHNOLOGY :-

| Sl. No. | Name of the Student | Title of the M.Tech. Thesis | Name of the Project Guide | Place at which project work done |
|---------|-------------------------|---|--|---|
| 1 | Ms. Smitha S. Hegde | Structure Growth Kinetics in Microorganism Applied to <i>Corynebacterium Glutamicum</i> and <i>Escherichia Coli</i> | Dr. K.V. Venkatesh & Dr. Prasanna B.D. | Dept. of Chemical Engg., I.I.T., Bombay |
| 2 | Ms. Amritha M. R. | Effect of Mild Hypothermia on Improving Transient Transfection Efficiency on CHO Cell Line | Dr. Mugdha Gadgil & Dr. Nishitha Islor | CEPD, NCL, Pune |
| 3 | Ms. Sneha Ashok B. | Role of RAB GTPases in Melanosome Biogenesis | Dr. Subha Rao Gangishetty & Dr. Nishitha Islor, | MCBI Dept., Bangalore |
| 4 | Mr. Srikanth Madderla | Differentiation of Mouse Embryonic and Adult Stem Cells into Cardiomyocytes | Dr. Nibedita Lenka & Dr. C.C. Kartha, & Dr. Nishitha Islor, | NCCS, Pune & Rajiv Gandhi Centre for Biotech., Thiruvananthapuram |
| 5 | Mr. Polavarapu Srinivas | Study on Ionic Liquid Based Aqueous Biphasic System Containing 1-Hexyl-3-Methyl imidazolium Chloride and Sodium Carbonate | Dr. I. Regupathi, | Chemical Engg. Dept., NITK, Surathkal. |
| 6 | Sweta A. Gargatte | Screening for α -Glucosidase Inhibitor from Fungal Source and its Production | Dr. Avinash Sattur & Dr. Prasanna B.D. | CFTRI, Mysore |
| 7 | Shashikiran | A Study on Production of Wine from Raisins and Different Varieties of Fruits | Dr. Prasanna B.D. | Chemical Engg. Dept., NITK, Surathkal. |
| 8 | Niveditha M | Solid Liquid Extraction of Polyhydroxyalkanoate- Optimization using Taguchi Approach, Kinetic Studies and Model Building | Dr.S.S.Nilegaonkar, Dr.P.P. Kanekar, Mr. P.R. Kshirsagar & Dr.P.E.Jagadeesh Babu | Agarkar Research Institute, Pune |
| 9 | Mr. M. Vijaya-raghavan | Microbial Degradation of Hydrocarbons in Petroleum Sludge | Dr. Nishitha A. Islor | Chemical Engg. Dept., NITK, Surathkal. |
| 10 | Vimlesh Yadav | Fermentative Production of Exopolysaccharides From Lactic Acid Bacteria (Lab) | Dr.(Ms.) S.G. Prapulla & Dr. Prasanna B.D. | CFTRI, Mysore |

| | | | | |
|----|---------------------------|--|---|--|
| 11 | Mr. Sidharth Arora | Isolation and Characterization of Bioactive compounds from Bacteria Associated with Marine Sponge <i>Dysidea herbacea</i> | Dr. Lisette D'Souza, & Dr. Prasanna B.D., | Bioorganic Chemistry Lab., National Institute of Oceanography, Goa |
| 12 | Mr. R Sreejith | Studies on Hydrolysis of Lactose in Whey using <i>Lactobacillus Helveticus</i> Strain NCIM 2733 | Dr. H.V. Adikane & Dr. Prasanna B.D | Biochem.Engg. Unit, NCL, Pune |
| 13 | Mr. V. Rakesh Goud | Process Optimization and Scale Up Studies of Cell-Associated Tannase Production by <i>Bacillus Massiliensis</i> | Dr. Prasanna B.D. | Chemical Engg. Dept., NITK, Surathkal. |
| 14 | Mrs. Amruthavani M | Studies on Interaction Between HSP70 and Rota Viral Proteins VP1 And VP4 | Dr. C. Durga Rao & Dr. Prasanna B.D. | Dept. of MCBL, IISC, Bangalore |
| 15 | Mr. Ankur Garg | Genome Wide Characterization of tRNA Synthetases from Malaria Parasite | Dr. Amit Sharma & Dr. Nishitha A.Isloor | ICGEB, New Delhi |
| 16 | Mr.Rupak Kumar Rajput | Microbiological Bioassay of Antibiotics and Selection of Concentration Regimens to Prevent its Resistance | Dr. Nishant A. Dafale & Dr. Prasanna B.D. | IPC,Ghaziabad |
| 17 | Ms. Ayushi Verma | Production, Purification & Gene Cloning of α - Amylase from <i>Paenibacillus</i> GTPB4 | Dr. Som Dutt & Dr. Prasanna B.D. | CSIR – IHBT, Palampur H.P |
| 18 | Ms. Komal Gupta | Production of Naphthoquinone Metabolite through Cell Culture of <i>Arnebia</i> Sp. & Scale-up in Bioreactor | Dr. Shashi Bhushan & Dr. Prasanna B.D. | CSIR – IHBT, Palampur H.P |
| 19 | Mr. Ravi B. Pujari | Optimization of Bacterial Production of Polyhydroxyalkaenate | Dr.S.S. Nilegaonkar, Mr. P.R. Kshirsagar, Dr. P.P.Kanekar, & Dr. P.E.Jagadeesh Babu | Agarkar Research Institute, Pune |
| 20 | Mr. Naresh L. M. | Investigations on Microbial Activity in Bioconcrete | Dr. Prasanna B.D., | Chemical Engg. Dept., NITK, Surathkal. |
| 21 | Mr. Basavaraj P | Enzymatic Production of Gallic Acid by Whole-Cell Tannase | Dr. Prasanna B.D., | Chemical Engg. Dept., NITK, Surathkal. |
| 22 | Mr. Lakshmeesha Upadhyaya | Study of Different Hydrophobic Membranes for Direct Contact Membrane Distillation using Raw Sugar Solution and Sugarcane Juice | Dr.Sanjay Nene & Dr. I. Regupathi | CEPD Dvn., NCL, Pune |
| 23 | Ms. Mansi Pahwa | <i>Thermomyces Lanuginosus</i> Lipase (Tll) Catalysed Synthesis of Geranyl Acetate and Citronellyl Acetate and Modification of Tll to Enhance its Transesterification Activity | Dr. Subhash Chand & Dr. I. Regupathi | Dept.of Biochem. Engg. & Biotech., IIT, Delhi |

List of M.Tech. By Research Thesis Completed During 2011-2012.

| Sl. No. | Name of the Student | Title of the M.Tech. Thesis | Name of the Project Guide | Year of Award |
|---------|---------------------|--|--------------------------------------|---------------|
| 1. | Ms. M. Narayani | Isolation, Characterization of Chromium Resistant Bacteria and Media Optimization for Hexavalent Chromium Reduction In Waste Water | Dr. Vidya Shetty K | 19.10.2011 |
| 2. | Ms. Vanitha | Phenol Removal Using <i>Nocardia Hydrocarbonoxydans</i> in Spouted Bed Contactor | Dr. M.B. Saidutta & Dr. D.V.R.Murthy | 04.04.2011 |

Recognitions/Awards received by Students

Narayani M., student of M.Tech. (by Research) (Ind. Biotech.) won FIRST PRIZE for oral presentation of paper on "Effect of the Growth Media on Cr(VI) Reduction by a Newly Isolated Strain of Bacteria" in National level technical conference on "Advances in Chemical Engineering" CHEMCORE-2011 held at M.V.J. College of Engg., Dept. of Chemical Engg., Bangalore on 7th & 8th April, 2011

Ms. Ankitha Khanna, Ph.D. Scholar won THIRD PLACE for the presentation of paper by oral at CHEMXPLORE 2k11 AICTE sponsored National Level Technical Conference on Advances in process Plant Operation organized by t MVJ college of Engineering, Dept. of Chemical Engg., Bangalore, during 7th & 8th September 2011.

Ms. Ankitha Khanna, Ph.D. Scholar won FIRST PRIZE in *Young Investigator Competition* for the paper presented in Second International Conference on Nanomaterials – Synthesis, Characterization and Applications (ICN 2012) organized by Centre for Nanoscience & Nanotechnology, Mahatma Gandhi University, Kottayam, Kerala, entitled "Photo-catalytic Application of Ag & TiO₂ Core-Shell Nanoparticles during 12th to 15th January, 2012

Ms. Pooja Nanda, M.Tech. by Research (Ind.Biotech.) Student has been awarded with Interscience Scholastic Award BEST presentation for the paper entitled "Study on Pegylation of Therapeutic Enzyme Uricase and its Physio-Chemical Properties for Improving its Pharmaceutical Characteristics" at the International Joint Conference on Pharmacology and Pharmaceutical Technology (IJCPPT-2012) held at Bangalore on 29th January 2012.

Ms. Aishwarya Devadiga, Ph.D. Scholar won BEST ORAL Presentation of a paper in National Conference on Perspectives of biotechnology in Health and Industry organized by Dept. of Biotechnology, Alva's College, Moodbidri during 24th-25th February 2012.

Ms. Aishwarya Devadiga, Ph.D. Scholar won SECOND PLACE for oral Presentation of paper in National Seminar on Biomolecules& Biocatalysts in bioprocesses sponsored by Govt. of India, Dept. of biotech., Ministry of Science & Technology, organized by Dept. of biochemistry, St. Aloysius College, Mangalore in Association with Society of biological Chemists (Madikeri Chapter) during 8th-9th March, 2012.

Ms. Aishwarya Devadiga, Ph.D. Scholar Presented a poster entitle "Isolation and Screening of Microorganism from metal rich soil for biosynthesis of Silver Nanoparticles" in International Conference on Advances in Biological Sciences (ICABS-2012) organized by the Dept of Biotech. And Microbiology and Inter University Center for Biosciences, Kannur University, Kannur, Kerala during March 15-17, 2012.

Department of Computer Engineering

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

- ✓ Dr. K. C. Shet and Dr. K. Chandrasekaran received: "SHIKSHA RATTAN.
- ✓ Summer School Workshop on "Wireless Sensor Networks: Open Issues and Research Directions" 22nd June – 3rd July 2009, Co-ordinators : Dr. K Chandrasekaran and Dr. T.G. Basavaraju
- ✓ Two week Workshop on "Effective Teaching/Learning of Computer Programming" 14th – 24th December 2009, Co-ordinators: Dr. P. Santhi Thilagam & Mr. Mahendra Pratap Singh
- ✓ CSI Region 5 Student Convention – NITK Chapter "E – Inclusion: Empowerment of Society through Technology" 27th – 28th March 2010. Co-ordinator: Dr. P. Santhi Thilagam
- ✓ Three days Workshop on Unix Network Programming – 29th – 31st March 2010 Co-ordinator: Dr. P. Santhi Thilagam.

Students Achievements

- ✓ Kalpa Vishnani M.Tech(CSE-IS) 2009-11 received Best paper award for the paper "Detecting & Defeating Split Personality Malware" in an International Conference SECURWARE 2011, France.

Achievements during the period of report

| Achievements during 1st April 2011 to 31st March 2012 |
|---|
| M.Tech CSE, CSE-IS |
| Vaidehi Panwala (09CS11F) presented paper, "AMul: Adaptive Multicast Routing Protocol for Multi-hop Wireless Networks", International Conference on 'Emerging Trends in Networks and Computer Communications ETNCC-2011', The Institution of Engineers (India), Udaipur, April 2011 |
| Raval Chirag (09CS16F) presented paper, "Ant – CAMP : Ant based Congestion Adaptive Multipath Routing Protocol for Wireless Networks" International Conference on 'Emerging Trends in Networks and Computer Communications ETNCC-2011', The Institution of Engineers (India), Udaipur, April 2011 |
| B.Tech |

Department of Electronics And Communication Engineering Awards Received

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

Special assignments or appointments for faculty

- Dr. Muralidhar Kulkarni, Member of NBA for Undergraduate Engineering Programs, MHRD, New Delhi, 2010-2012
- Dr. Muralidhar Kulkarni, Member, Board of Governors, MCE, Hassan
- Dr. Muralidhar Kulkarni, Member, Board of Studies (UG and PG), Member of Faculty Council (Engineering-UG), Bangalore University, 2010
- Dr. Muralidhar Kulkarni, Member, Academic Audit Team, NIE, Mysore.

Dr Sumam David, Visiting Faculty, Summer University in Computer Science (SU2011-CS), Haute Ecole d'Ingenierie et de Gestion du Canton de Vaud, Switzerland, July 2011

Dr. Sumam David, Expert Member, Research Project funding Screening Committee, Center for Engineering Research and Development, Government of Kerala.

Achievements of students

1. Gate 2011: Mukesh Kumar 10th Rank (All India)
2. Gate 2010: Govinda Kamath: 4th Rank, Rajat talak: 70th Rank, Rajshekhar Bhat: 195th Rank
3. Gate 2009: Vanamali Bhat, Pramod M, Samidh Pratap Singh, Timir Nandi and Sree Praveen Nanduri secured 1st, 4th, 23rd, 60th and 151st rank respectively.
4. Robert Bosch Best Student Project Award
Title: Compressive sampling and Pattern Recognition
Students: Ohil K Manyam, Tapaswi Makarand Murari, Veeresh Taranalli
Award contains: Rs. 10,000/- , Silver Medal & Certificates
5. Joyan Gratian Sanctis - First Prize in Nebula '09 Contest by Cosmic Circuits
6. G Rajashekhar – VLSI Chip Design, Fabrication and testing under India Chip project -Design of TIQ based Power and Resolution Adaptive Flash ADC, 4 metal, 0.35 μ technology
7. Rajashekhar Guntupally - First Prize in SMDP-VLSI Best MTech Thesis “Design of Resolution Adaptive TIQ Flash ADC using AMS 0.35 micron Technology”
8. Pramod M, Laxminidhi T, “*Low power continuous time common mode sensing for common mode feedback circuits*” International Conference on Electronic Design & Signal Processing (ICEDSP-2009), MIT Manipal, 12th December 2009.

Achievements during the period of report

Achievements during 1st April 2011 to 31st March 2012

Adarsh Hasnadka (VI Sem BTech E&C), Rohit Raju (VI Sem BTech E&C), Pavan K Shetty (VI Sem BTech E&C) and Anirban Ghosh (VI Sem BTech E&C) got First Prize in TI-Analog Design Contest - 2012 with a cash prize of \$10000 under the mentorship of Prof.M.Kulkarni.

Maruthi M (VIII Sem BTech E&C) and Karthik J N (VIII Sem BTech E&C) got First Prize and Third Prize in the Nation wide Analog Circuit Design Contest Nebula'11 conducted by Cosmic Circuits Pvt. Ltd. Bangalore which consists of Rs. 30,000/- for First Prize and Rs. 10,000/- for Third Prize.

Maruti attended Summer Internship at Technical University of Catalonia Barcelona, Spain, May – June 2011.

Vaishaki Mayya attended Summer Internship at University of Minnesota, Twin Cities Campus, May – June 2011.

Parth attended Summer Internship at National University of Ireland, May – June 2011.

Shailesh K S, Ibrahim Musba, Surakshith M N and Yashank Sakhardande attended Summer Internship at Dublin City University, from 17th May – 20th July 2011

Sree Raksha K R, Phalguni, Kriti K N, Pallavi R Kallapur, Apexit Shah, Srinivas Rajendra, Naveen P Kalro, Yashwant Marate, Chetan Patil and Mathura M G attended Summer Internship Program at HEIG – VD Switzerland, from 4th – 22nd July 2011

Department of Electrical and Electronics Engineering

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

- Successfully participated in TEQIP project by undertaking works in all facets of the project namely: Establishment of new laboratories, research interaction with international universities, community service and tribal development.
- Facilities for research scholars to conduct in-house research work.
- Support in Human resource development by training teachers by conducting two STTPs in renewable energy sources and power system modeling
- MOU with CPRI and collaboration in joint PG diploma programme.

Achievements during the period of report

Achievements during 1st April 2011 to 31st March 2012

Sanction of Research project funded by power ministry through CPRI Bangalore Amount 25 Lakhs duration 1 and half year

Installation of 10 kW roof top wind solar hybrid powers system capable of grid connected and islanding mode of operation

Implementation of short time goals as stipulated in institute level strategic plan

Department of Humanities, Social Sciences and Management

Achievements during the period of report

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

Dr. K.B.Kiran and eight students of the MBA programme from the Department of HSSM participated in a faculty and students exchange programme in Switzerland. The programme was under the banner of ‘Summer University’ at School of Business and Engineering, Vaud (HEIG-VD), Switzerland from 3 to 22 July 2011 as part of MOU, between NITK with HEIG-VD, Switzerland.

Department of Information Technology

| |
|---|
| Achievements during 1 st April 2011 to 31 st March 2012 |
| Nine batches of students have successfully completed their graduation in IT stream so far |
| Around 94% placements during 2011-2012. |

Department of Mining Engineering

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

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

The faculties of the Department have received “Certificate of Merit” from the Institution of Engineers (India) for several papers published in the Journal of the Institution of Engineers (India). Further, some of the faculty have also received “Career Award for Young Teachers” from AICTE, “Young Scientist Award” from Ministry of Science and Technology, Government of India, “Engineering Gold Medal” from MGMI. Some of them are either Editors or Editorial Board Members of reputed National and International Journals. A number of faculty of the department are also serving as reviewers of several professional journals of repute. The faculty of the Department are also holding important positions like Board of Directors of reputed Public sector Undertakings.

Achievements during the period of report

| |
|--|
| Achievements during 1st April 2011 to 31st March 2012 |
| Dr. Harsha Vardhan has been appointed as BOS member of Goa University for a period of three years. |
| Dr. Harsha Vardhan has been appointed as member of Affiliation Enquiry Committee for Goa University for B. E. Mining Engineering Course. |
| - Uranium Corporation of India Ltd, Neyveli Lignite Corporation Ltd and Hutt Gold Mines Company Ltd. have instituted Gold Medal for the best outgoing Mining Engineering Students of the Department of Mining Engineering. |
| - M/s Doddanavar Brothers Pvt. Ltd. have instituted Silver Medal for the Second Best Outgoing Student of the Department. |
| - The Department is recognized as a “Gas Testing Facility” as per the requirements of Directorate |

| |
|---|
| General of Mines Safety, Government of Indis. |
| Dr. Harsha Vardhan visited coal mines of PT Core Mineral Indonesia in Jakarta during 14th to 21st January, 2012. |
| Dr. M. Aruna visited coal mines of PT Core Mineral Indonesia in Jakarta during 14th to 21st January, 2012. |
| Dr. M. Aruna visited Thailand during 28-30, September 2011 for a case study—"Energy Audit of a 400/220 kV Substation" |
| Dr. M. Aruna attended International Conference on Green World in Business and Technology 2012 in Indonesia during 23-24 March 2012. |

Department of Metallurgical and Materials Engineering

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

1. Accreditation of two PG and one UG programmes for 5 years by NBA
2. Produced 4 Ph.Ds.
3. Secured Ministry of Steel Scholarship and Professor's Chair
4. Published 87 research papers

Achievements during the period of report

| Achievements during 1 st April 2011 to 31 st March 2012 |
|---|
| 3 |
| Total No. of Paper Published = 42 |

Addition(s) to Building Infrastructure

Department of Computer Engineering

- ✓ Department has sent a proposal for the construction of new department with 4,125 Sq. meters. The issue is discussed with building & works committee. Further, location is identified behind guest house.

Department of Electrical And Electronics Engineering

Addition(s) to Building Infrastructure

During last two years institute has relocated the Department into single common new seven storied Electrical division building along with IT department. This was a major milestone due to which the department faculty, staff and students are able to work in one common location, when compared to earlier it was distributed in three locations. Presently, Electrical Machines and HV laboratories are situated in old location behind main building, it is planned to shift these also to near new building in future plan.

Department of Mechanical Engineering

- Mechanical Engineering Department has shifted to new premises.
- Existing Workshop annex will be refurbished for better space utilization.

Department of Mining Engineering

One additional floor was added to the existing building of the Department of Mining Engineering.

Books published

Department of Applied Mechanics and Hydraulics

1. Ramesh, H., and A.Mahesha (2011). Sustainable water resources management. In: Sustainable Development, D. Ghenai (Ed), INTECH Publishers, Croratia, 171-208.
2. Dr. Paresh Chandra Deka, Effect Of Urbanization On Flood Generation-ISBN-978-3-8454-4216-7, August'2011.
3. Dr. Paresh Chandra Deka, Fuzzy Neural Network Modeling For Runoff Estimation-ISBN-978-3-8454-706-0, September'2011.
4. Dr. Paresh Chandra Deka, GIS based HEC-HMS and HEC-RAS Modeling-ISBN-978-3-8465-2124-3, October'2011.
5. Dr. Paresh Chandra Deka, Fuzzy logic and Artificial neural network for hydrological modeling- ISBN-978-3-8465-4224-8, November'2011.

Department of Metallurgical & Materials Engineering

1. Film and Nucleate Boiling Processes, 2012, Pages: 434, Ed. K.N.Prabhu and N.I. Kobasko, ASTM International, PA, ISBN: 978-0-8031-7520-4, http://www.astm.org/DIGITAL_LIBRARY/STP/SOURCE_PAGES/STP1534.htm
2. S. Anandhan, S. Bandyopadhyay, 'Polymer nanocomposites: from synthesis to applications', in 'Nanocomposites and Polymers with Analytical Methods', ISBN: 978-953-307-352-1, J. Cappoletti, Ed., *InTech*, Croatia, pages 3-28, July 2011.

Department of Physical Education & Sports

Institute teams were selected, trained, coached and participated in different Taluk, District, State and National level tournaments/Competitions:-

1. Dasara Tournaments: Basketball (Men) District: Runners, Badminton(Men & Women) District Runners-up.
2. All India Inter NIT Sports in Athletics, Carom, Chess, Cricket and Hockey has been organized by our Institute: Our Institute Athletes (Men & Women) won many medals. Hockey (Men): Winners, Chess: Winners, Cricket: Winners, Carom(Men: Runner-Up, Carom(Women): Runners-Up. Other results of All India Inter NIT Tournaments held at other NITs, Ball Badminton (Women): Winners, Volleyball (Women) – Winners, Tennis(Men) :Winners. Aquatics (Men & Women) :Winners, Basketball(Men) – Runner, Ball Badminton (Men) – Runners, Basketball (Women)-Runners, Kabaddi: Third place. Due to excellent performance we won Overall Championship for consecutive Fourth time.
3. Independence Cup Inter Professional Collegiate Football Tournament conducted by DK District Football Association; Winners.
4. Revels, All India Inter Engineering collegiate Tournament: Badminton(Men) Runners.
5. Association Cup District open Basketball tournament organized by DK District Basketball Association- Runners.
6. BSK Kumar memorial Inter collegiate Basketball tournaments conducted by Yenepoya University – Runners-Up.

20.00 ASSOCIATED CENTRES

20.1 CENTRE FOR CONTINUING EDUCATION

Objectives:

Knowledge in Science and technology is fast expanding. A professional cannot manage his entire career meaningfully just from the education he received as part of formal education in his early life. For the effective functioning of the institutions and industries, it is essential to continuously update and broaden the knowledge of the professionals by mutual interaction. The present day knowledge is so vast that everything cannot be imparted to a student as part of the formal education. Therefore the Government of India has recognized Non-formal and Continuing Education as one of the main areas of thrust in its new education policy. It was in this context the CENTRE FOR CONTINUING EDUCATION (C.C.E) was started in NITK, Surathkal (then KREC) in the year 1987, and has been involved in conducting several short term as well as extension courses for the working professionals from engineering and technical fields on wide-ranging topics utilizing the manpower and resources available in the Institute.

ADMINISTRATION:

The C.C.E. is managed by an Advisory Committee consisting of a Chairman, Secretary and Members from all departments of the Institution. All the members of this committee are the permanent faculty members of this Institution. The Director of NITK is the President of the Centre. The Committee monitors the activities as well as the funds of the Centre. The accounts section of the Institution scrutinizes all the accounts submitted by the Centre and also they are audited every year as per the Institution procedure.

The C.C.E. is a self-supporting Centre and the recurring expenditures of the Centre such as salary to a staff and office maintenance work etc., are met out of the revenue generated by the Centre through conducting various programmes.

Details of Workshops/School/CEP conducted during the year 2011-12

| No. | Title of the Course | Duration | No.of Participants | Type of Programme |
|-----|--|----------------------|--------------------|--|
| 1 | 2 | 3 | 4 | 5 |
| 1 | Environmental Impact Assessment | 08-08-11 to 12-08-11 | 11 | CEP course for PWD Engineers sponsored by Engg Staff College, K.R.Sagara |
| 2 | RCC Detailing, Mix Design & Quality Control | 17-10-11 to 21-10-11 | 26 | -do- |
| 3 | Web Technology-Research & Challenges | 06-06-11 to 10-06-11 | 23 | MHRD/AICTE Sponsored Staff Development Programme |
| 4 | Simulation of Wireless Networks (SWN-2011) | 20-06-11 to 24-06-11 | 44 | -do- |
| 5 | Fuzzy Logic, Genetic Algorithm with Wavelet Transformation in Civil Engineering (FGAWTCE'11) | 27-06-11 to 01-07-11 | 54 | -do- |

National Institute of Technology Karnataka, Surathkal

| | | | | |
|----|---|----------------------|------------|------|
| 6 | Advances in Manufacturing & Precision Engineering | 20-06-11 to 24-06-11 | 32 | -do- |
| 7 | Next Generation Data Management | 13-06-11 to 17-06-11 | 30 | -do- |
| 8 | Recent Developments in Environmental Management in Mining & other Core Industries | 27-06-11 to 01-07-11 | 32 | -do- |
| 9 | Fracture Mechanics & Fatigue | 08-08-11 to 12-08-11 | 32 | -do- |
| 10 | Recent Advances in Polymer Science | 01-08-11 to 05-08-11 | 39 | -do- |
| 11 | Guided Free Space Optical Communication Systems & Networks (GFSOCN'11) | 16-08-11 to 20-08-11 | 30 | -do- |
| | | | 353 | |

20.2 National Institute of Technology Karnataka (STEP)

Vision:

Entrepreneurship Development through Business Incubation, innovation, training and skill enhancement in a value driven and service focused environment-targeting benefits to all the participating agencies.

Performance Status: Self-Sustaining Entity (since 2005)

Brief Summary of Entrepreneurial Development through Business Incubation support:

| Sr. No. | Description of Activity/recognition | Results achieved |
|---------|---|---|
| 1 | Total entrepreneurs incubated as on 2011-12 | 50 |
| 2 | Entrepreneurs incubated and graduated in 2011-12 | 3 |
| 3 | Entrepreneurs inducted for Business Incubation in 2011-12 | 4 |
| 4 | Occupancy status of incubatees at the Entrepreneurial Block | 12 (full occupancy) |
| 5 | Patents filed by the entrepreneurs | 4 |
| 6 | Project work assistance provided to MCA, MSc (IT), M.Tech students from other institutions around Mangalore | 4 |
| 7 | Outstanding awards/recognitions by entrepreneurs/innovators promoted by NITK-STEP | Mr Prajwal Kumar received the Innovator of the Year award sponsored by the DST-Lockheed Martin USA, Innovation Growth Program. The Chief Technology Officer of Lockheed Martin USA, in an award ceremony organized by FICCI at Delhi in March 2012, presented the award to him. |

TePP (Technopreneur Promotion Program of DSIR, Govt. of India) Outreach Center activities:

| Total Innovators Projects supported | Projects completed | Projects readied for commercialization |
|-------------------------------------|--------------------|--|
| 6 | 2 | 1 |

Entrepreneurs supported under the MSME Delhi Scheme (Development of Entrepreneurs & Managerial support to SMEs)

| Total projects of entrepreneurs supported | Projects completed | Status of completed projects |
|---|--------------------|---|
| 9 | 7 | Under different stages of commercialization |

Entrepreneurs Supported with Seed Capital support (Under the scheme of Technology Development Board, Delhi)

| Total entrepreneurs supported | Technology domains | Magnitude of support (Min-Max in lacs) | Nature of Seed capital support |
|-------------------------------|--|--|--------------------------------|
| 4 | Imaging Technology Wireless Communication Web based software Robotics | 5-10 | Soft Loan |

Entrepreneurs supported with Seed capital support under the TIDE (Technology Incubation & Development of Entrepreneurs) scheme of DIT, Delhi.

| Total entrepreneurs supported | Technology Domains | Extent of support (Rs in lacs) | Nature of support |
|-------------------------------|--|--------------------------------|-------------------|
| 3 | Imaging/Graphics Electronic Controls Embedded Software | 2.5- 3.5 | Soft loan |

All India Business Plan Competition conducted by NITK-STEP in October 2011 at NITK:
 STEP implemented an all India level Business Plan contest under the DST-INTEL sponsored event “Next Big Idea” targeted to explore potential for innovation amongst students from the technology, management, science and medical streams.

| Name of the Event | Participants | Panel of jury for evaluation/selection of winners | Awards honoured |
|---|--|--|--|
| All India level Business Plan Competition (Under Next Big Idea) | Students of Technology/ Management/Medical/Science Institutions across the Country | Six Experts from leading Entrepreneurial Development Institutes & CEOs of Technology Companies | First prize Rs.50000/ Second prize Rs.35000/ Third Prize Rs.20000/ Five consolation prizes of Rs.5000/ each |

Paper Published:

A paper titled “ Business Incubation a strategic tool for the creation of technology based startup companies” was published in the souvenir released on the occasion of the “5th Global Alumni Convention” held at Bangalore in Dec 2011.

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

Activities :

- Talks are underway to strike to understanding with granite quarry owners to transfer technology of making masonry soil blocks with quarry dust.
- The MOU 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” effectively progresses.
- Mr. Anand Kumar, Proprietor, M/s Master Plannery, Puttur visited the R& D Centre to discuss the possible ways of interaction and signing of MOU and carry out collaborative work on cement blocks and other products
- One Ph.D work on ‘ Strength of concrete subjected to high temperature ‘ is commenced and is progressing.
- One M.Tech project on obtaing ‘ Cenospheres’ from fly ash is completed.
- UG project on ‘ Double interlocking stabilized soil masonry blocks’ and ‘ Effect of elevated temperature on blended concrete’ are completed successfully.

Technology is available for transfer for the following products:

| Sl. No. | Product Details | Technology Status |
|---------|----------------------|-------------------|
| 1. | Bricks | Ready |
| 2. | Hollow Blocks | Ready |
| 3. | Cavity Bricks | Ready |
| 4. | Hollow Roof Block | Ready |
| 5. | Roof Tiles | Ready |
| 6. | Decorative Tiles | Ready |
| 7. | Pavement Block | Ready |
| 8. | Interlock Wall Block | Ready |

Facilities at R & D Centre:

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

Services Offered:

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

20.4 National Technical Manpower Information System Nodal Centre For Karnataka State

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

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

The Nodal Centre has also presented a paper titled “Profile of Technical Education Facilities and Employment Scenario in Karnataka State” at two-days National Seminar on ‘Employability of Fresh Engineering Graduates in the Era of Globalisation: Problems and Prospects’ held on 24th and 25th January, 2012 at Cochin University of Science & Technology, Kochi. Nodal Centre also supports the NTMIS to publish ‘Technical Manpower Profiles’ on all India basis by Institute of Applied Manpower Research (IAMR).

The system has been serving various stakeholders like education planners, ministry of human resources development, planning commission, state governments, industries, parents and students for nearly 3 decades.

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

21.0 FINANCE AND ACCOUNTS

The Financial Status

Analysis Of Plan And Non Plan Grants - 2011-12

| | |
|--------------------------------------|-------------------|
| 1) Non Plan grants | Rs.3240.00. lakhs |
| 2) OBC (Plan) | Rs.1000.00 “ |
| 3) OBC – Plan (Recurring) | - |
| 4) General Plan | Rs.4500.00 “ |
| 6) Project grants & Research Schemes | Rs. 349.36 |
| AICTE grants - | |
| For Nodal Centre, | Rs. 8.16 |
| TEQIP | Rs.200.00 |
| | ----- |
| | Rs.9297.52 lakhs |
| | ===== |

SOURCE OF FUNDS

- 1) Ministry of Human Resource Development, New Delhi.
 - Non Plan grants
 - Plan grants
 - Project grants

EXPENDITURE POSITION FOR LAST THREE YEARS

| Year | Plan & OBC Plan | Non-Plan | Total Rs. in lakhs |
|----------------|--------------------|-----------------|-----------------------|
| 2009-10 | 8047.73 | 5290.22 | 13337.95 |
| 2010-11 | 5706.40 | 4640.85 | 10347.25 |
| 2011-12 | 4224.94 | 5249.38 | 9474.32 |
| Total : | 17979.07 | 15180.45 | 33159.52 |

FINANCE AND ACCOUNTS DETAILS

Balance Sheet as at 31.03.2012

| Particulars | Schedule No. | (Amount - Rs.) | |
|--|-----------------|-----------------|---------------|
| | | Current Year | Previous Year |
| <u>Fund and Liabilities</u> | | | |
| Corpus/Capital Fund | 1A | 2577728548 | 2345618093 |
| Capital Fund of Projects and Earmarked funds | IB | 174188404 | 155857470 |
| Earmarked/Endowment funds | 2 | 538734673 | 342635444 |
| Secured Loans and Borrowings | 3 | -- | -- |
| Current Liabilities and Provisions | 4 | 281000141 | 264395307 |

National Institute of Technology Karnataka, Surathkal

| | | | |
|---------------------------------------|----------|-------------------|-------------------|
| TEQIP Project | 14 | 184237765 | 184237765 |
| TEQIP Project-Phase II | | 19114676 | ----- |
| Total | | 3775004207 | 3292744079 |
| <u>Assets</u> | | | |
| Fixed Assets | 5(A)&(B) | 2188728327 | 2170531353 |
| Investments | 6 | 197964655 | 59944858 |
| Current Assets, Loans, Advances, etc. | 7 | 1184958784 | 878030103 |
| TEQIP Project | 14 | 184237765 | 184237765 |
| TEQIP Project – Phase II | 15 | 19114676 | - |
| Total | | 3775004207 | 3292744079 |

Income and Expenditure Account for the year ended 31.03.2012
 (Amount - Rs.)

| PARTICULARS | SC.NO. | CURRENT YEAR | PREVIOUS YEAR |
|--|--------|------------------|------------------|
| <u>INCOME</u> | | | |
| Grants/subsidies | 8 | 348630207 | 430375399 |
| Fees/subscriptions | 9 | 174749662 | 53433344 |
| Revenue Receipts | 10 | 68598145 | 129496830 |
| Other Income | 11 | 50975891 | 2293077 |
| Other Research Projects | | 14047865 | 17071052 |
| Total (A) | | 657001770 | 632669702 |
| <u>EXPENDITURE</u> | | | |
| Establishment expenses | 12 | 475575464 | 327374226 |
| Other administrative expenses etc. | 13 | 240170117 | 225202113 |
| Depreciation | 5B | 234931570 | 197462144 |
| Total (B) | | 950677151 | 750038483 |
| BALANCE | | 293675381 | 117368781 |
| (Excess of expenditure over income)(A-B) | | | |

CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS

Receipts & Payments for the year ended 31.03.2012

| Previous Year | RECEIPTS | SC. No. | Current Year | Previous Year | PAYMENTS | SC. No. | Current Year |
|---------------|---------------------------------|------------------|--------------|---------------|--|------------------|-------------------|
| | <u>Opening Balances:</u> | 1 | | | | | |
| 9410 | (a) Cash in hand | 114366 | | 295950838 | (a) Establishment Expenses | 398606925 | |
| | (b) Bank balances | | | 215836799 | (b) Administrative Expenses | <u>220764677</u> | VIII |
| 102151057 | (i) in current accounts | 183957943 | | | Payments made against Funds for various projects: | | |
| 117464771 | (ii) Savings accounts | <u>296146293</u> | 480219.02 | | | XII | 1191452775 |
| | <u>Grants Received:</u> | | | 192457844 | <u>Expenditure on Fixed Assets & Capital Work-in-progress:</u> | | |
| 927429361 | (a) From Govt. of India & other | | II | 726590780 | 484482685 | VIII | 261525832 |
| 2002599 | <u>Income on Investments</u> | III | 17353565 | 63734907 | <u>Other Payments:</u> | IX | 123570082 |
| 11956518 | <u>Interest received:</u> | IV | 6187420 | 621014442 | <u>Any other Payments:</u> | X | 750004237 |
| 193818153 | <u>Other Income:</u> | V | 233347880 | | <u>Closing Balances:</u> | XI | 135585 |
| 998864748 | <u>Any other receipts:</u> | VI | 1906433939 | 114866 | (a) Cash in hand | | |
| | | | | 183957943 | (b) Bank balances | 153455411 | |
| | | | | 296146293 | (i) In current accounts | 270617162 | |
| | | | | | (ii) Savings accounts | | |
| 2353696617 | TOTAL | | 3370132686 | 2353696617 | TOTAL | | 3370132686 |