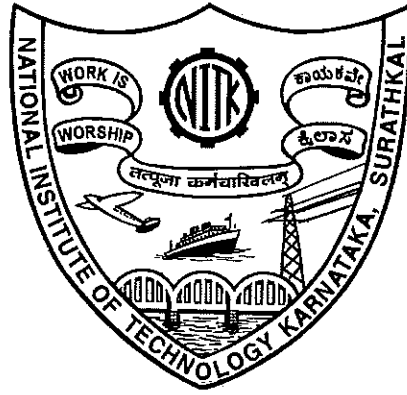


National Institute of Technology Karnataka Surathkal
Mangalore - 575 025, INDIA



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
NPMAS (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

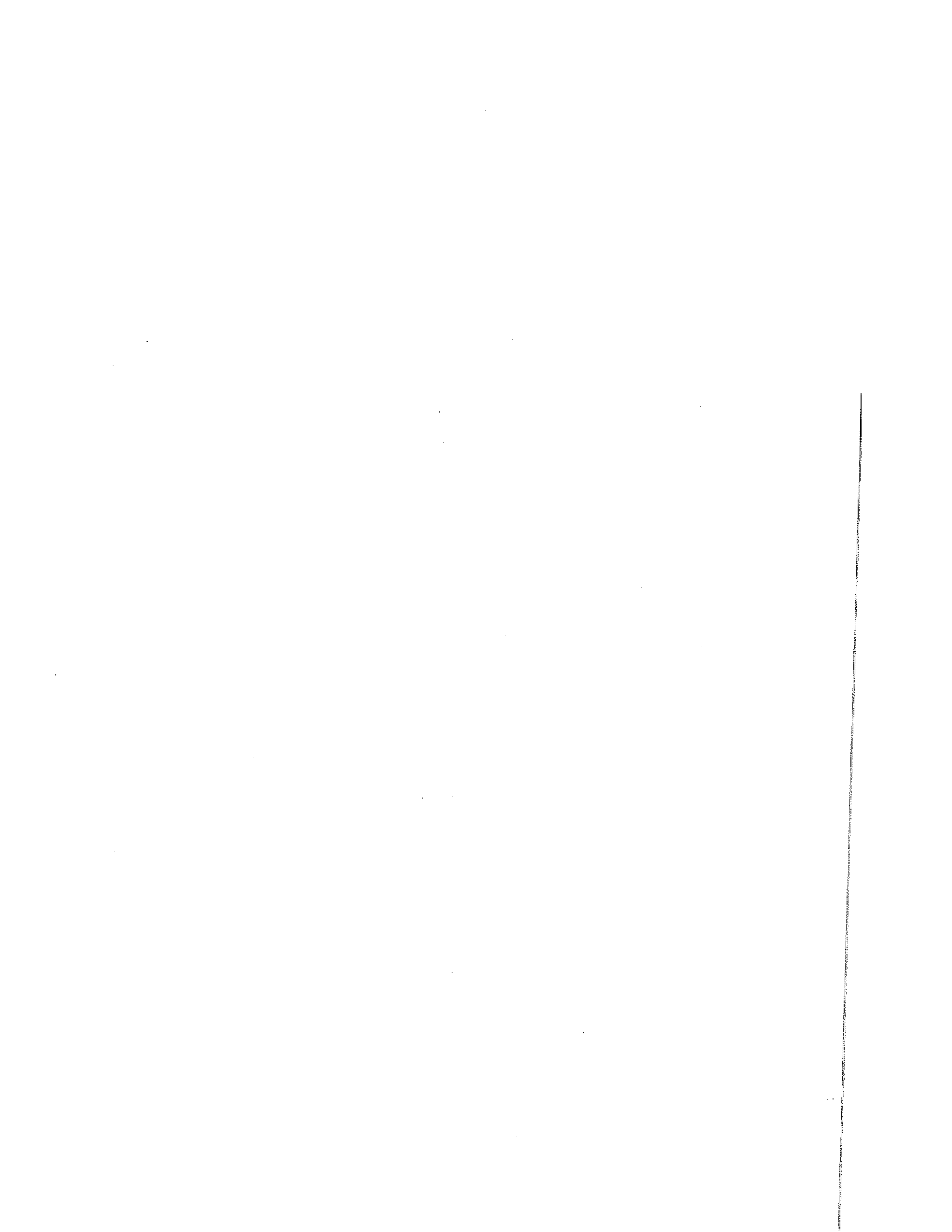
More than 30 clubs, societies and professional body chapters are active conducting regular activities through elected leaders and representatives. "INCIDENT and ENGINEER" are popular cultural and technical annual festivals. NITK won the overall championship of Inter NIT Sports consecutively for the last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

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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 | |

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

FINANCE COMMITTEE

- | | |
|---|----------|
| 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 |

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 IWTD, 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

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

Member Secretary

OTHER COMMITTEES

SENATE

Dr. Sandeep Sancheti
Dr. M.Govinda Raj

... Chairman
... Secretary

External Members

1. Dr S. Parasuraman
Director, Tata Institute of Social Sciences
P.O. Box 8313,
Deonar,
Mumbai - 400 088.
2. Dr Prahlada
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. Dwaraklish G S
53. Dr. S Shrihari
54. Dr. Sitaram Nayak

- | | |
|-------------------------------|-----------------------------|
| 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. Chandrashekar 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/Secretary |
| 13. Dr. Sunil B M, from 4.5.2011 | 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. Yashavanthi, 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 Kulkarnai	: 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. Convener	:	Member
23.	All Institute Team Captains	:	Members
24.	Physical Director/Asst Phy Director	:	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 admission for M.Tech (Research) commenced on 13.12.2011 & closed on 23.12.2011& for Ph.D. Programme admission commenced on 15.12.2011 and 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 seats	419
2. Non-GATE candidates and sponsored candidates	87
3. Admissions of foreign nationals through ICCR sponsored candidates and DASA	03
4. QIP candidates	09

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	M	F	To
	Civil Engg	12	2	14	6	1	7	22	1	23	11	0	11	1	0	1	1	0	1	0	0	0	41	6	47	94	10
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	M	F	To
	Civil Engg	13	0	13	7	0	7	21	2	23	9	5	14	0	1	1	1	0	1	0	0	0	37	4	41	88	12
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
	15	0	15	6	0	6	23	1	24	3	5	8	0	0	0	1	1	2	43	4	47	91	11	102
18	0	18	11	0	11	35	4	39	13	1	14	0	0	0	0	0	0	66	4	70	143	9	152	
10	4	14	5	1	6	23	2	25	8	1	9	1	1	2	0	0	0	34	13	47	81	22	103	
13	1	14	6	1	7	24	0	24	6	3	9	1	1	2	0	0	0	41	10	51	91	16	107	
7	1	8	3	2	5	11	1	12	4	1	5	0	0	0	0	0	0	17	4	21	42	9	51	
5	0	5	1	0	1	10	2	12	0	0	0	0	0	0	0	0	0	14	3	17	30	5	35	
7	1	8	4	1	5	8	0	8	0	0	0	0	0	0	0	0	0	7	0	7	26	2	28	
12	3	15	7	1	8	18	7	25	6	3	9	0	1	1	1	0	1	41	7	48	85	22	107	
9	7	16	4	2	6	24	3	27	3	6	9	0	0	0	0	0	0	36	10	46	76	28	104	
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
	8	1	9	5	1	6	10	3	13	7	1	8	0	0	0	2	0	2	38	9	47	70	15	85
15	0	15	9	0	9	19	0	19	13	0	13	0	0	0	0	0	0	68	4	72	124	4	128	
6	5	11	4	1	5	11	1	12	7	1	8	3	0	3	0	0	0	45	4	49	76	12	88	
9	1	10	5	1	6	13	0	13	5	3	8	2	1	3	0	0	0	40	7	47	74	13	87	
5	1	6	3	0	3	5	1	6	2	3	5	0	0	0	0	0	0	19	4	23	34	9	43	
4	1	5	2	1	3	2	0	2	0	0	0	0	0	0	0	0	0	14	4	18	22	6	28	
4	0	4	4	0	4	1	0	1	0	0	0	1	0	1	0	0	0	16	1	17	26	1	27	
9	3	12	6	0	6	12	0	12	5	4	9	1	1	2	0	0	0	43	5	48	76	13	89	
9	4	13	2	2	4	12	1	13	4	5	9	0	0	0	0	0	0	34	13	47	61	25	86	
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	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	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	2	6	8	6	7	13	
Environmental Engg.	1	2	3	1	0	1	4	2	6	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	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	10	3	13	16	8	24		
Water Resources Engg. & Management	1	0	1	0	0	0	2	2	4	1	0	0	1	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	6	5	11	11	7	18		
Remote Sensing & GIS	0	0	0	0	0	0	3	1	4	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	2	1	0	1	6	0	6	14	1	15		
Mechatronics Engg.	3	1	4	1	0	1	5	1	6	1	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	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	1	10	2	12	21	6	27		
VLSI Design	3	1	4	2	0	2	6	1	7	1	0	1	0	1	0	11	2	13	23	5	28		
Communication Engg.	1	1	2	1	0	1	3	0	3	0	0	0	0	0	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	5	4	9	8	5	13		
Industrial Pollution Control	2	2	4	0	0	0	4	2	6	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	1	0	8	5	13	16	10	26		
Process Metallurgy	1	0	1	1	0	1	1	0	1	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	1	0	10	2	12	20	4	24		
Computer Science & Engg.	4	0	4	1	1	2	6	1	7	0	0	0	1	0	0	9	2	11	21	4	25		
Computer Science & Engg. - Information Security	2	1	3	2	0	2	7	1	8	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	1	10	3	13	14	7	21		
Information Technology	3	1	4	0	0	0	5	2	7	0	0	0	0	1	0	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	473

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

Branch (1 Year)	SC			ST			OBC			ICCR			QIP			DASA			Sponsored			GENERAL			TOTAL						
	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To				
	4	0	4	2	0	2	7	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Structural Engg.	1	1	2	1	0	1	2	3	5	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	8	4	12	21	4	25	
Geo-Technical Engg.	4	0	4	2	0	2	5	0	5	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	4	2	6	9	6	15	
Environmental Engg.	3	1	4	2	0	2	4	3	7	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	5	8	13	16	9	25	
Transportation Systems Engg.	2	2	4	1	1	2	6	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	2	13	21	6	27	
Construction Technology & Mgtl.	3	0	3	1	0	1	5	2	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	2	12	19	4	23	
Marine Structures	1	1	2	0	0	0	2	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	3	7	7	6	13	
Water Resources Engg. & Management	2	0	2	0	0	0	4	2	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	7	11	10	9	19	
Remote Sensing & GIS	1	0	1	1	0	1	2	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	7	0	7	13	0	13	
Thermal Engg.	3	0	3	1	0	1	6	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	2	13	22	2	24	
Mechatronics Engg.	2	0	2	1	0	1	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	6	14	0	14	
Manufacturing Engg.	4	0	4	1	0	1	6	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	3	13	22	3	25	
Power & Energy Systems	4	0	4	2	0	2	6	1	7	0	0	0	1	0	1	0	1	0	1	0	0	0	0	0	12	0	12	27	1	28	
VLSI Design	4	0	4	2	0	2	5	1	6	1	0	1	3	1	4	0	0	0	0	0	0	0	0	0	10	2	12	25	5	30	
Communication Engg.	2	1	3	0	0	0	3	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	3	7	9	5	14	
Chemical Plant Design	0	0	0	1	0	1	4	3	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	11	8	11	19	
Industrial Biotechnology	4	0	4	2	0	2	2	5	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	8	13	13	13	26	
Process Metallurgy	1	0	1	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	0	6	10	0	10
Materials Engg.	2	0	2	0	0	0	3	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	3	12	14	4	18	
Nanoscience & Nanotechnology	2	0	2	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	5	6	2	8	
Computer Science & Engg.	3	1	4	2	0	2	6	0	6	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	11	2	13	24	3	27	
Computer Science & Engg. - IS	4	0	4	1	1	2	6	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	1	11	21	3	24	
Systems Analysis & Computer Applications	3	0	3	0	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	12	2	14	20	3	23
Information Technology	4	0	4	2	0	2	5	1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	1	14	24	2	26	
TOTAL	63	7	70	25	2	27	101	27	128	2	0	2	7	2	9	1	0	1	9	2	11	188	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	1
MINING ENGG.:- Rock Excavation Technology & Management	0	0	0	1	0	1	1	0	1	2	0	2
METALLURGICAL & MATERIALS ENGG.:-												
Process Metallurgy	0	0	0	0	0	0	1	0	1	1	0	1
Nanotechnology	0	0	0	0	0	0	1	0	1	1	0	1
INFORMATION TECHNOLOGY	0	0	0	0	0	0	1	0	1	1	0	1
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	0	2	2	0	0	0	0	2	2
INFORMATION TECHNOLOGY:- Information Technology	0	0	0	1	0	1	1	0	1
MECHANICAL ENGG :- Mechatronics Engg.	0	0	0	0	2	2	0	2	2
MECHANICAL ENGG :- Thermal Engg.	0	0	0	1	0	1	1	0	1
CIVIL 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			Total	Admissions made to Undergraduate Programmes					Total Admission		
		Normal Intake	G.O.I. Nominees*	D.A.S.A. (Direct Admission of Students Abroad)		Normal Intake							
						SC	ST	OBC	PH	OP		G.O.I. Nominees*	D.A.S.A. (Direct Admission of Students Abroad)
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+3**	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	M	F	Total
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+1PH	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+1PH	1	4	2	-	-	9	3	80	25	105
	Total	325+9PH	35+2PH	169+2PH	26+1PH	95+2PH	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	Admitted		Out of the total admissions – candidates belonging to									
			Gate (scholarship seats)	Non-Gate & Sponsored + QIP seats + Foreign Nationals + DASA	Total		SC		ST		OBC		PC	
					M	F	M	F	M	F	M	F	M	F
1.	Structural Engg.	27	26	---	22	4	26	4	-	2	-	7	-	-
2.	Geotechnical Engg.	15+1*	12	2+1 Sponsored + 1 QIP (Poly)	10	6	16	1	1	1	-	2	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 & Geographic 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	Admitted		Out of the total admissions – candidates belonging to								
			Gate (scholarship seats)	Non-Gate & Sponsored + QIP seats + Foreign Nationals+ DASA	Total	SC	ST	OBC	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)+ 1 Sponsored	24	3	27	3	2	6	-	-	
23.	Computer Science & Engg. – Information Security	27	24	-	21	3	24	4	1	6	1	-	
24.	Information Technology	27	26	1 Sponsored	25	2	27	4	2	6	1	1 (OP)	
	TOTAL	564+8 *	419	73+9 QIP + 14 Sponsored + 3 Foreign Nationals/DASA	409	109	518	65	27	2	103	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			
		M	F	M	F	Full Time + Part Time		SC		ST	
						M	F	M	F	M	F
1	Civil Engg.	2+1(sponsored) 4 QIP 1*	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(Foreign National Sponsored) 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

	<u>4865</u>

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

No. of students passed in

Sl. No.	Branch	Total No. Appeared	CGPA above 7 & below 10	CGPA above 6 & below 7	CGPA above 5 & below 6	CGPA below 5	Total pass	Percentage of passes	No. of SC/ST candidates passed
1.	Civil Engineering	69+1*	48	8	7	3	66	94.29	15+1*
2.	Mechanical Engineering	102+1*	72	18	8+1*	1	100	97.09	20
3.	Electrical And Electronics Engineering	67	44	15	5	2	66	98.51	11
4.	Electronics And Communication Engineering	68	38	19	5	3	65	95.59	9
5.	Chemical Engineering	33	24	4	4	1	33	100.00	6
6.	Metallurgical And Materials Engineering	26	13	8	4	1	26	100.00	6
7.	Mining Engineering	22	17	3	2	-	22	100.00	5
8.	Computer Engineering	69	47	12	4	3	66	95.65	12
9.	Information Technology	66	53	8	4	-	65	98.48	12
		523					509		

* Post Graduate Programme - Repeater Students

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

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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	26	14	8	3	25	96.15	5
20.	Systems Analysis & Computer Applications	20	18	2	--	20	100.00	3
21.	Computer Science and Engineering	27	19	7	1	27	100.00	6
22.	Computer Science and Engineering - Information Security	25	16	7	1	24	96.00	4
23.	Master of Computer Applications	72	56	14	--	70	97.22	15
24.	Master of Business Administration	41	32	8	--	40	97.56	1
25.	Master of Science (Chemistry)	22	20	2	-	22	100.00	2
26.	Master of Science (Physics)	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	AJEESH 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

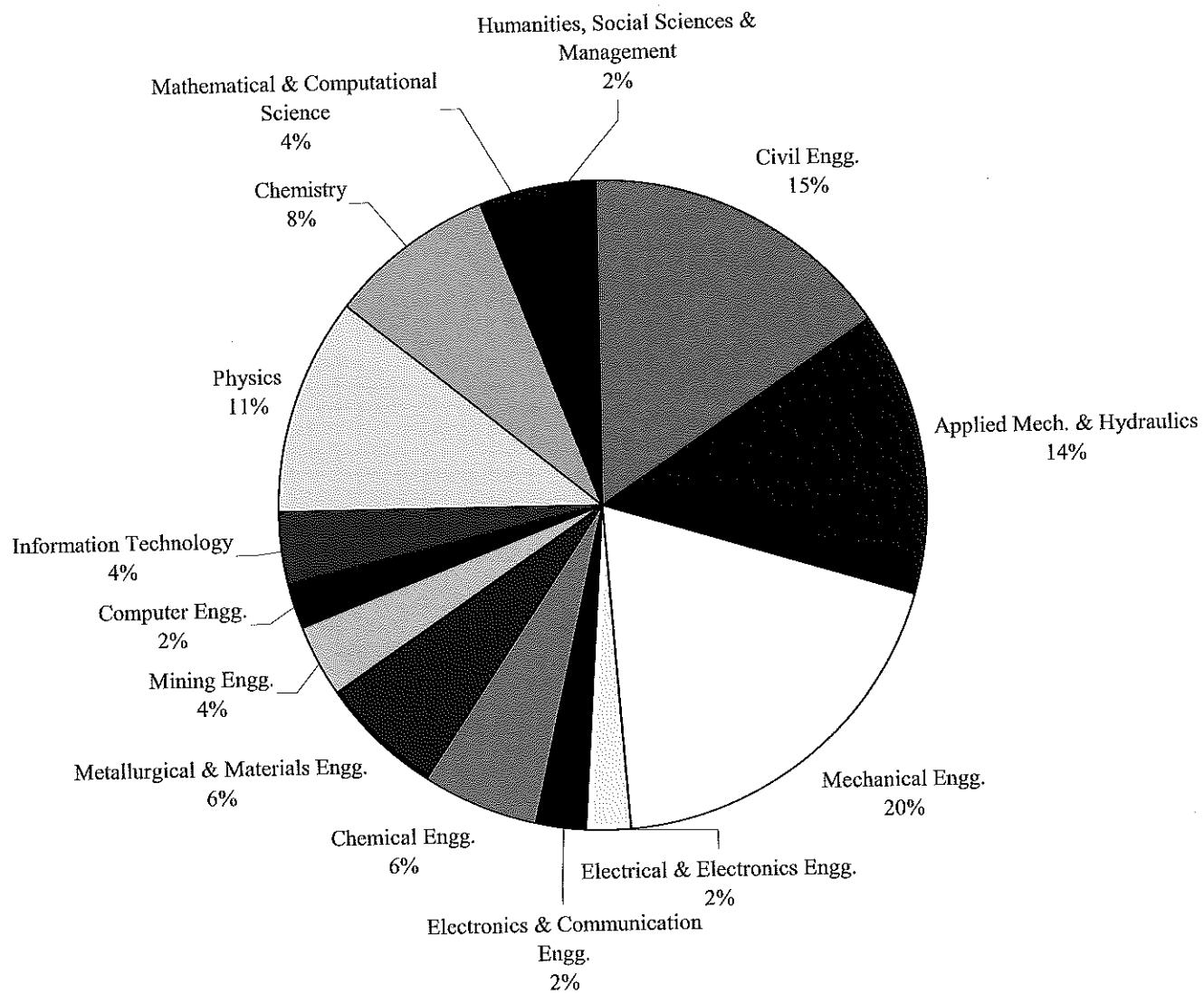
National Institute of Technology Karnataka, Surathkal

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

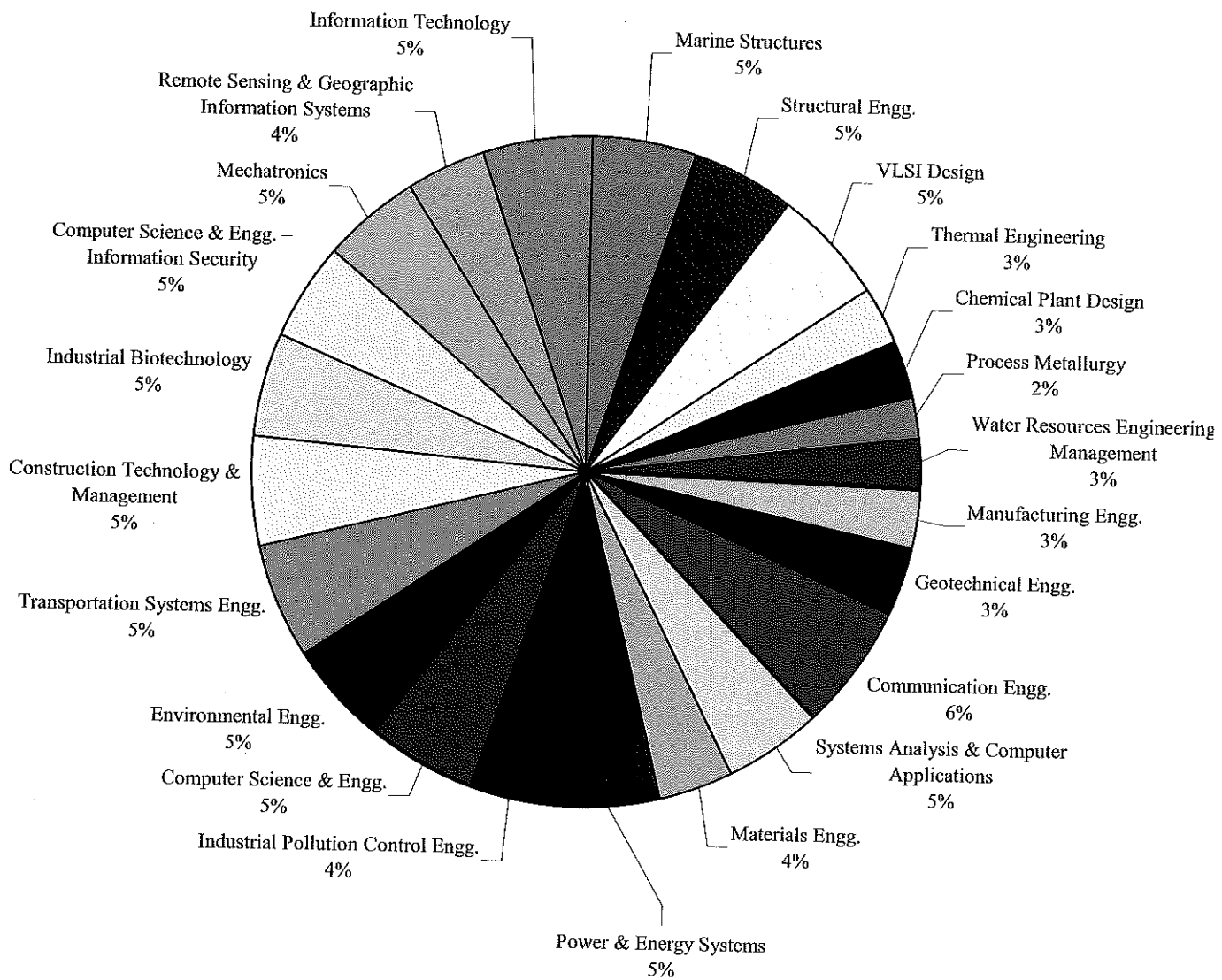
Ranks secured by the MCA/MBA/M.Sc.(Chemistry) students of the Institute in the Examination held in April/May, 2011

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

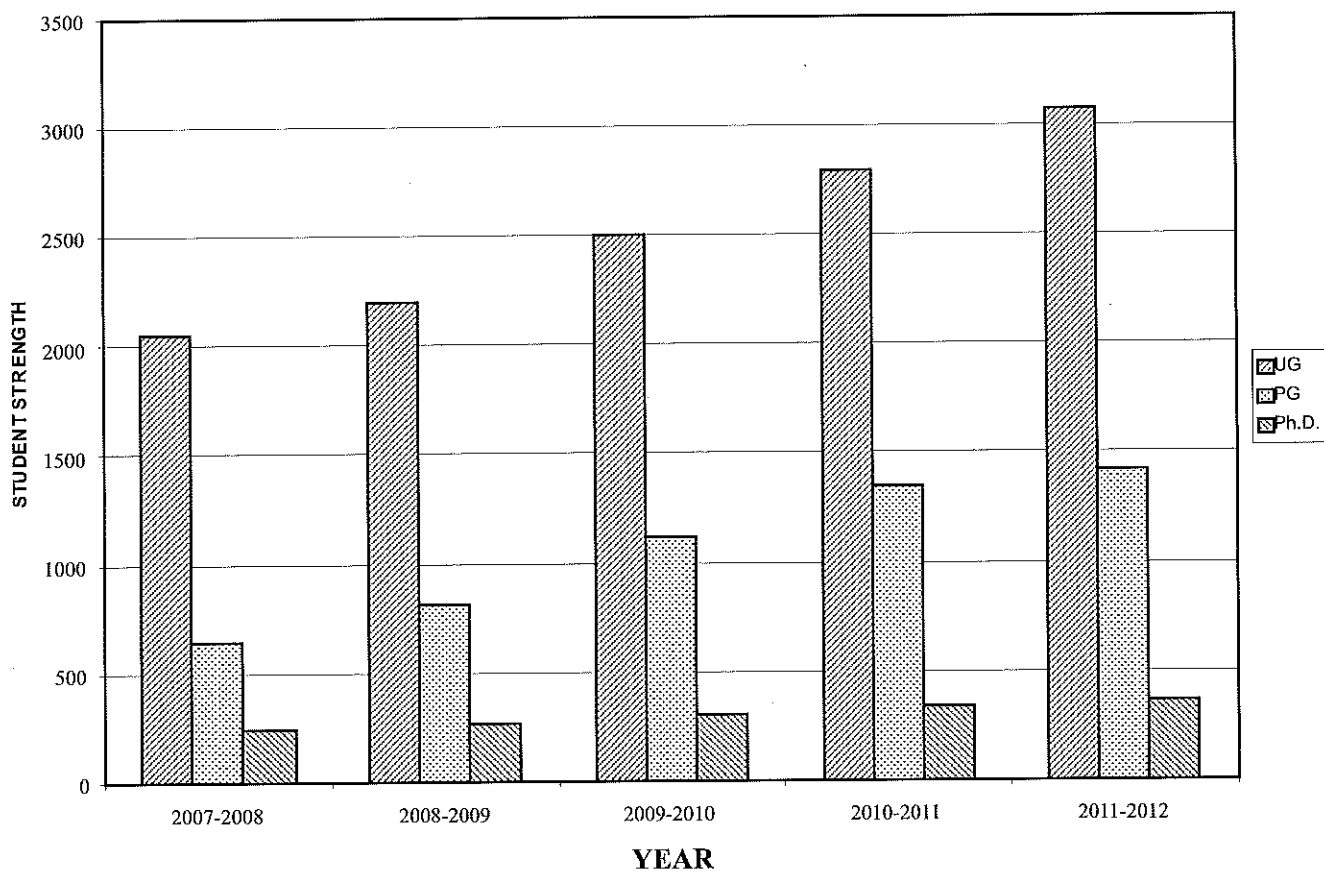
Pie-chart showing discipline wise Ph.D. admissions 2011-2012



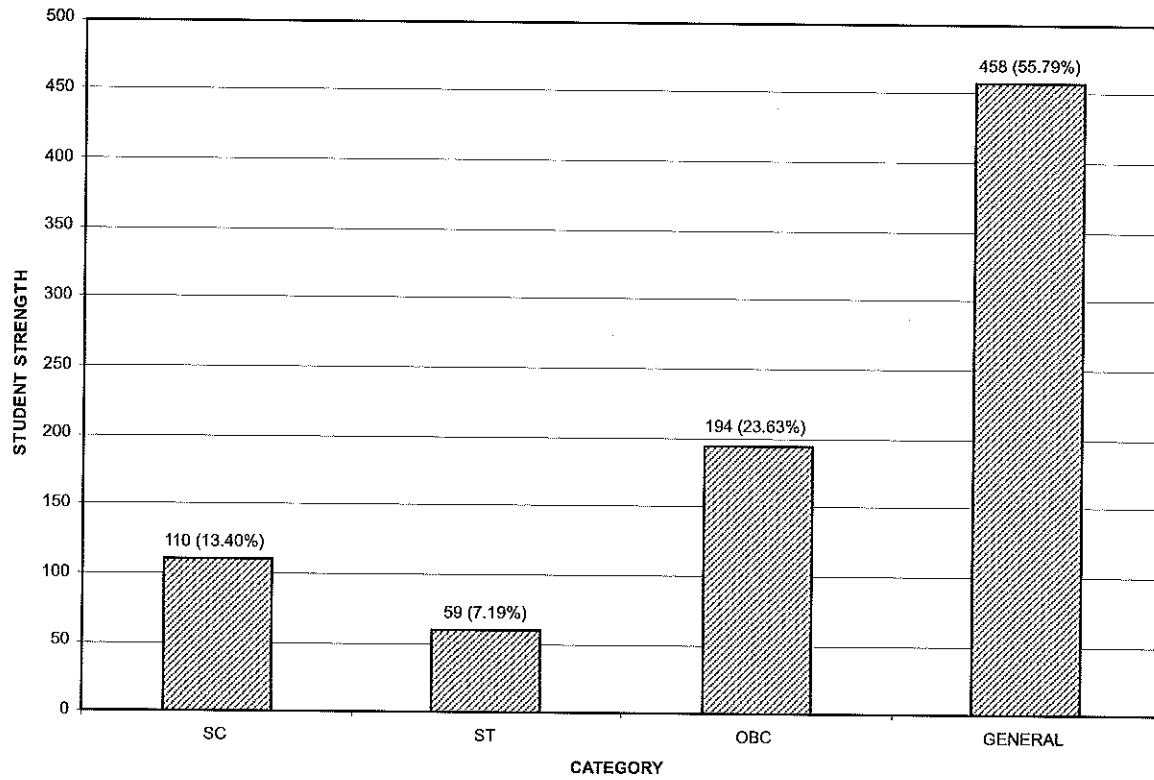
Pie-chart showing discipline wise M.Tech. admissions 2011-2012



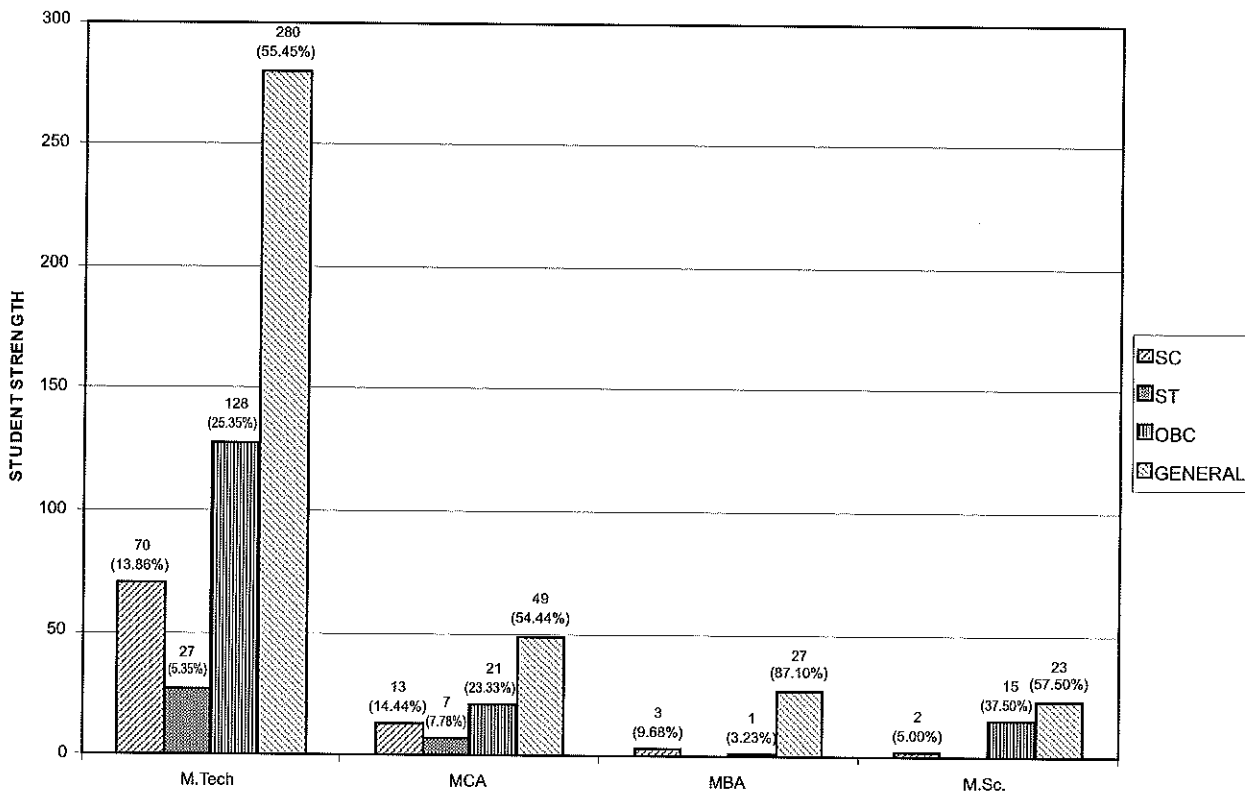
Growth in Enrolment of UG/PG/Ph.D. students during the Last Five Years (2007-2012)



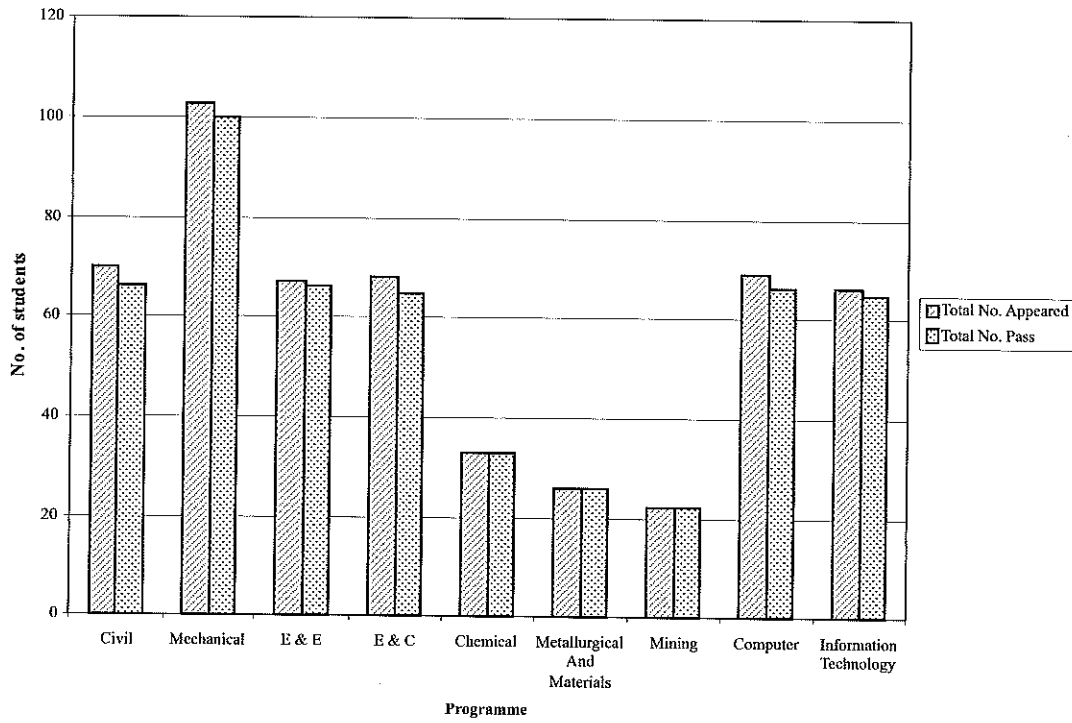
Category wise details of UG admissions 2011-2012



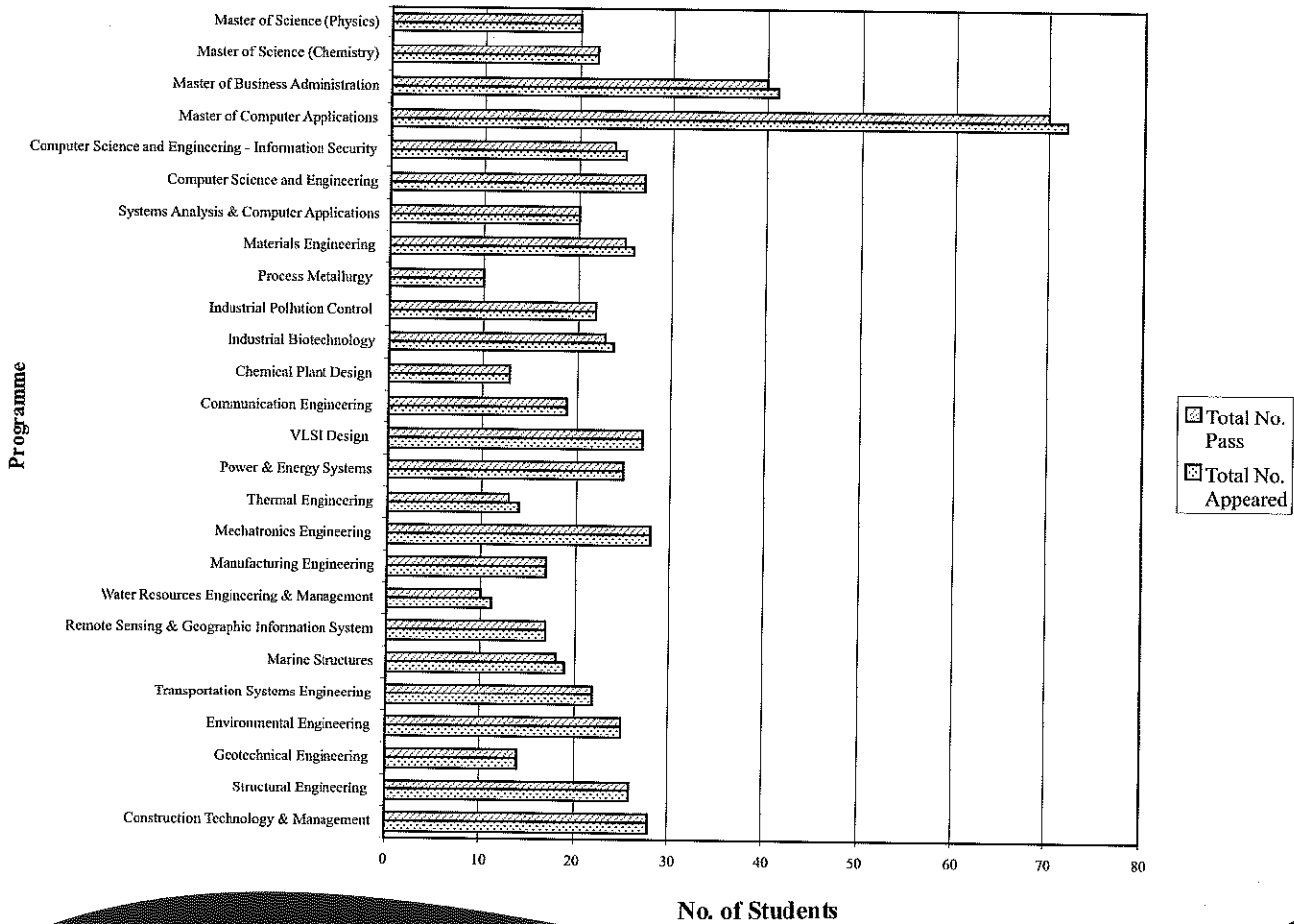
Category wise details of PG admissions 2011-2012



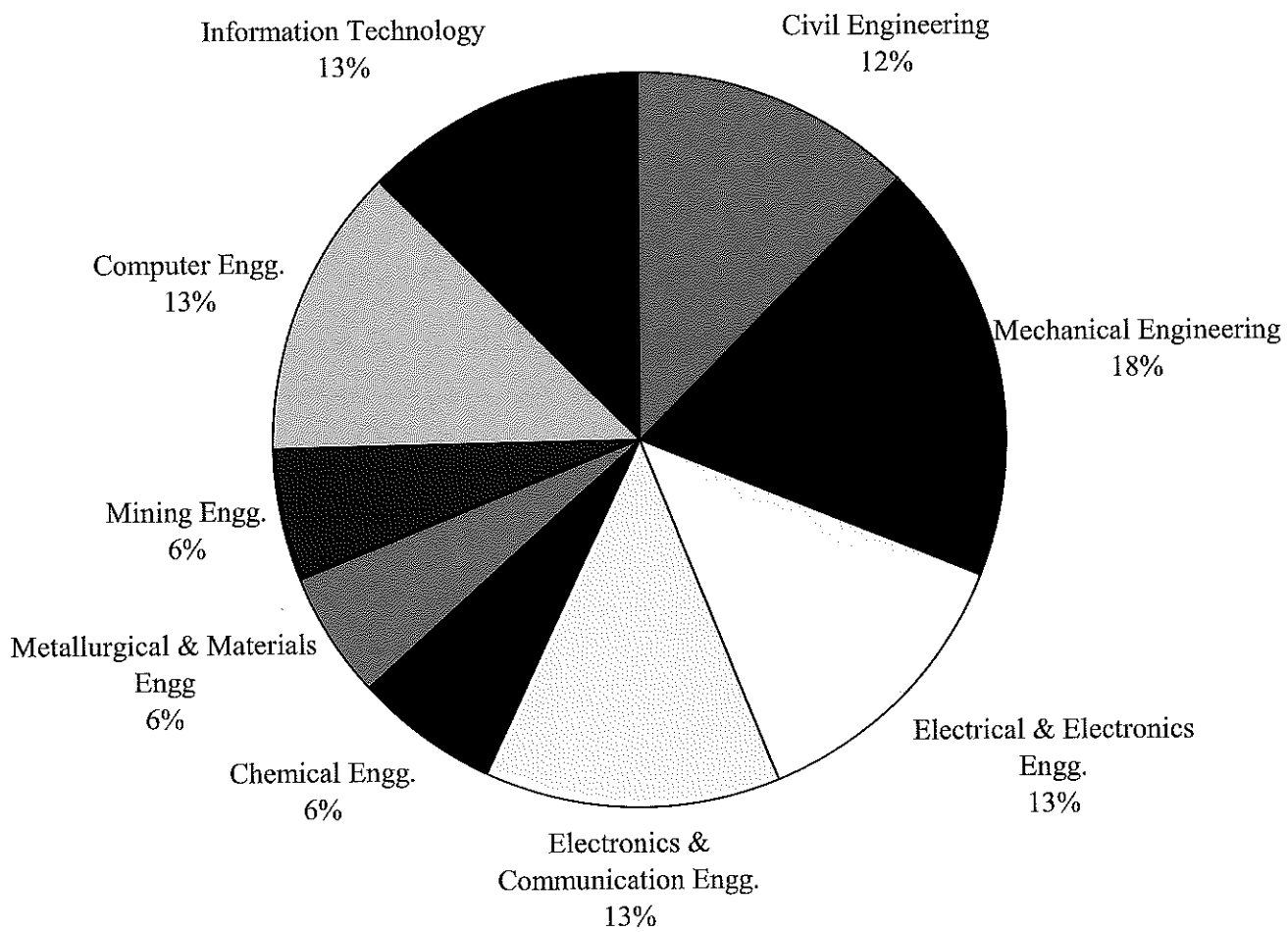
Examination Results (UG)



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

	<ol 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> <ol style="list-style-type: none"> 1) Synthetic organic chemistry 2) Polymer chemistry-Conducting polymers 3) Medicinal chemistry 4) Liquid crystal polymers 5) Membrane technology 6) Polymer nanocomposites 7) Supramolecular chemistry 8) Green Chemistry
Proposed	<ol 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 acid medium and its inhibition	2011	Dr. A. N. Shetty And Dr. Jagannath Nayak
Nagaraja Upadhya P.	Development and Evaluation of Novel Glass Ionomer Cement Compositions for Luting Applications	2011	Prof. A.V. Adhikari, NITK and Prof. K. K. Srinivasan

Yogesh 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 Upadhya	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

	Number
a) Teaching Staff	
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. Subrahmanya, 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. Chandrashekar 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. Sripathi, 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)
Shubhanga K.N., Ph.D. (IIT, Bombay)
K. Rajagopal, M.Tech. (I.I.T. Kharagpur)
Vinatha U., M.Tech (Mangalore Univ.)
Gururaj S. Puneekar, Ph.D. (IIT, Kharagpur)
K. Manjunatha Sharma, M.E. (Bharathiyar 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)

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. (Pondichery 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 Professors

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

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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.

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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

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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

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	--	--	40	2,88,755.00
	Received along with books	185	--	1352	--
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,

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 equipments/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 ARC/INFO 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, Voltas 300 Lit Deep Freezer (Cooler), D O Probe & D O

	Transmitter, Lyophilizer, Gel Electrophoresis, Probe Sonicator, Gel Documents, Continuous Homogenizer, Incubator - Electronic orbitek Refirgerated LE,
Instrumentation Lab.	Hand Vaccum Pump, Autoclve (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 Refirgerated LE, ozone Generator-L4g, Eppendrof 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.
IPG 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, IGBT, GTO) modules
Power system Dynamics lab	RMEXPERT, SKM POWER TOOLS, POWERWORLD, EMTDC PSCAD, MATLAB, MATHCAD, 70 Work station grade computers
Virtual Instrumentation lab	NIDAQ systems, PXI1010 units with High Voltage measurement unit, NI-ELVIS Stations, LABVIEW software, dSPACE 32xx rapid prototyping platform
Embedded systems lab	OSEK RTOS, KEIL RTOS, KEIL IDE for 805x, ARM, CODEWARRIOR IDE for 68HCXX, 56F8XX, TI DSC Code Composer Studio for 28XX, MOTOROLA, INTEL, ARM, PIC DSC / MC units
Industrial Automation lab	Distributed Control Systems [YOKOGAWA CS1000], PLC ROCKWELL RSLOGIX5000, ABB RTU232.

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

<p>4. Mine Environmental Engineering Laboratory</p>	<p>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</p>
<p>5. Mineral Processing Laboratory</p>	<p>Jaw crusher Roll crusher Ball mill Rod mill Magnetic separator Sieve shaker Hot air oven Wilfley's table Jigging apparatus Froath flotation apparatus</p>
<p>6. Mine surveying Laboratory</p>	<p>Digital theodolite Dumpy level Micro-optic theodolite Vernier theodolite Total station Digital auto level Handheld GPS system</p>
<p>7. Mine Planning and Design Laboratory</p>	<p>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</p>
<p>8. Mine Health & Safety Laboratory</p>	<p>Human vibration measuring apparatus Digital millivolt meter Machine vibration measuring apparatus Larson & Davis noise dose meter</p>

9. Mine Pollution Laboratory	Merc SQ118 water quality analyzer High volume air sampler Respirable dust sampler Sound level meter
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Department of Metallurgical And Materials Engineering

Name of Laboratory	Major Equipment/Facilities
Extractive Metallurgy Lab	Crushers, Ball mill, Flotation 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, Ultrasonicator, 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	(a) A Lathe (b) A Shearing Machine © 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

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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. Shirlal	3 years (2010-2013)	Rs. 14.88 Lakhs
Hydrogeological Studies of Coastal Wetlands – A Case Study	INCGW	Dr. A. Mahesha & Mr. Subrahmanya 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

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	3Years (Jan 2010 to Jan 2013)	14.00 Lakhs
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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

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 Isloor	Mar 2009 – Mar 2013	Rs 15.9 Lakhs
Synthesis of nanoporous polymer membranes for the Controlled release of fertilizer	DRDO	Dr. Arun M Isloor 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 Isloor 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 Shubhanga, 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 Puneekar 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. Puneekar	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.Puneekar 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)			
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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 Collieries Co.Ltd Kotthegudem-5017101	Prof. V.R Sastry	27/05/2012	2,15,085=00
Blasting effect on village	Mr.B.K Shetty Quarray 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 Collieries Co.Ltd Kotthegudem-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

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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 Groung Floor,Balard Estate ,Mumbai-400038	Prof. V.R Sastry	26/08/2011	2,20,600=00

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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 Quarries	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 quarries	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 Kotthegudem-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

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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. Guntoor 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 Collieries Co.Ltd Koththegudem-5017101	Prof. V.R Sastry	03/02/2012	1,07,543=00
Assessment of Blasting on Surrounding Structures.	M/s. Parashakthi Cements Ltd. Guntoor 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

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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, Kunthalampara 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, Kunthalampara Kattappana Village, South Kattapana 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. Sathyanarayan	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	TEQUIP, 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	Chulalongcorn 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

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	• Diasporic Studies	HEIG-VD, School of Business and Engineering
		• Translation Studies	

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 Preparation of manganese carbide from Mn-ore	1. Nano Technology 2. Composite 3. Surface Engg. 4. Smart Materials 5. Data base on liquid quenchant 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	<i>Ocean Engineering</i> , 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	<i>Jnl. of Advances in Engineering Software</i> , 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)Impact factor-0.763 January'2012, Vol-4(1) pp..39-44	Sreenivasulu D, Paresh Chandra Deka ,Nagaraj Gumageri
11.	Discrete Wavelet Neural Network approach in significant wave height forecasting for multistep lead time	Ocean Engineering (ISSN-0029-8018)Impact factor-1.038 April'2012, Vol-43pp..32-42	Paresh Chandra Deka &Pahlada R
12.	Hybrid Wavelet Neural Network Model For Improving Forecasting Accuracy Of Time	International journal of Earth sciences and Engineering (ISSN-0974-5904)Impact	Pahlada R & Paresh 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 Bio-technology, 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</i> (Accepted for Publication)	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>	<i>Desalination</i> , 292, 2012, 87-104 (Elsevier)	ImanJanghorbanEsfahani, AbtinAtaei, VidyaShetty K , 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 Neotectonism 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 satellite 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, <i>Springer</i> , 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,
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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-1H-pyrazol-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-1H-pyrazole-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-1H-pyrazol-4-yl)-1,4-dihydropyridine-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-dihydropyridine-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-dihydropyridine-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
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*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. Sripathi 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,
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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.
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Department of Information Technology

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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
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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
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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 Obrechhoff 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

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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
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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	Intenational Journal of Scientific & Engineering Research (IJSER), Volume 3, Issue 1, January 2012 (ISSN 2229-5518)	S Madhsudan, 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)
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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 Jaralika & Mangalpadya Aruna, (2011)
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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

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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	Jegadeeshwaran, Ramesh, Udaya Bhat K
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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
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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
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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
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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-co-vinyl acetate-co-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
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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>Strojarsv</i>	Journal for Theory and Application in Mechanical Engineering, 53 (1), 2011, 19-22.	V. Jagannath K.N.Prabhu
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24	Wetting Characteristics of Sn-0.7Cu Lead-Free Solder Alloy on Copper Substrates	Materials Science Forum, 2012, vol. 710, 569-574.	Satyanrayan 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,
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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
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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. Yogesha, 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. Nagappaa 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 No.s	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. Shirilal, 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 No.s	Author(s)*
1	Energy and Conservation for Pollution-Free Environment	Our Earth – Quarterly Journal of Ecology and Envornment,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	<i>Indian Highways</i> , Indian Roads Congress, Vol. 40, No.2, pp.21-32, February 2012.	Ravi Shankar, A.U., Chandrashekar, 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	<i>CPRI Journal</i> , 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 Hiregouder, 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,

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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, Sachi 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	Subrahmanya 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	Subrahmanya.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 Subrahmanya K
15.	Development of Concrete Armoured Protected Breakwater Structure	International Engineering Symposium-IES-2011, held at Kumamoto University, Japan, during March 3-5, 201, pp C5-2-1 to C5-2-8.	Manu, Subba Rao and Kiran G. Shirlal
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, feb24th-26 th , paper170	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, feb24th-26 th , paper155	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, feb24th-26 th , paper174	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, feb24th-26 th , paper213	Khandekar Sachin Dadu and Paresh chandra Deka

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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. Rajashekar, 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	Nanasaheb 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, Kumamota 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, Kumamota University, Japan. Pp.B4-3-1 to B4-3-6.	Sampath S Muddada, Ramesh Ramanujam, Chaitanya Kiloparthi, 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, Kumamota University, Japan. Pp.B2-1-1 to B2-1-4.	M. Ramananda Bhat, D.V.R. Murthy, M.B. Saidutta

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SI	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 Mithanthaya
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. Babunaryan 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 Venkataramana, 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 Chandrashekar 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

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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 Throtting 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 Thilagam
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, 2011 Kochi, 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	Ragahvendra 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

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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), Mangalagangothri, 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), Mangalagangothri, 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_3O_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)	Subrahmanya 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

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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 0.18 μ m 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 Communication and Instrumentation ICVCI-2011, Kottayam, Kerala, 07 – 09 April 2011	Smitha P S V Sateesh Prabhu N S V Shet

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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 Perideniya, 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, Panduranaga 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 <i>IASTED International Conference on Power and Energy Systems (PESA 2011)</i> , Nov. 7-9, 2011, Pittsburgh, USA, pp. 234 – 241, paper No.756-048	Udaykumar R. Yaragatti and Rajashekar 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: ACBEE 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(EPSCON-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 Shubhanga 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 Shubhanga 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 Shubhanga 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 Shubhanga 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 Shubhanga 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) IIT-Bangalore, December 12-13, 2011 Proceedings published by IEEE, DOI:10.1109/IMSAA.2011.6156336.	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 - IICIP 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 International 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 (ICSSST 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 (ICSSST 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

National Institute of Technology Karnataka, Surathkal

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, INCRAME 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 Jaralika & 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.	Sathyannarayana 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 th 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 Nanoquenchant 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.
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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. SASTRA 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 Naphthaldemide 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, Isloor 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.	Subrahmanya K. and Hassanean 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.	Subrahmanya K. and Hassanean 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.	Subrahmanya 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	Subrahmanya 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	Subrahmanya 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	Subrahmanya K. and Hassanean 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	Subrahmanya 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 Phenylenediamines	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 Jayachamarajendra 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

6.	Establishment of Optimum Number of Scanning Points for a Scanning features using Ultra Precision CMM	1 st National Confernece on Advanced in Metrology, CMIT, Bangalore, India (2011)	K Niranjan Reddy Nithin Narayanan P V Shashi Kumar Sudhakar C Jambagi
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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.Lakshmiathy, 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 Scoellhammer	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.Shrihari	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; Univ. of Newcastle, NSW;	4-14 th May 2011
02	Dr.B.R.Jayalekshmi		
03	Dr.A.U.Ravishankar	McGill University, Montreal, Canada	1- 5 th Aug 2011
04	Dr. K.Swaminathan		
05	Dr. K.S.Babu Narayan	Kagoshima University, 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.Jayalekshmi 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. Chandrashekar 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			
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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	30 th May to 4 th June 2011	NPMASS, GOI	Dr. G Umesh Dr. M S Bhat
	Guided and Free Space Optical Communication Systems and Networks (GFSOCSN'11)	16 th – 20 th August 2011	AICTE-MHRD	Dr. Muralidhar Kulkarni Dr. U Sripati
	HFSS-Electromagnetic Simulation Software	29 th & 30 th September 2011	RFMEMS (DIT)	Dr. M S Bhat Dr. T Laxminidhi.
	Exata Emulator and WSN application	7 th February 2012	Nihon Communication Solutions	Mr. N S V Shet
	Mote View WSN Kits	17 th February 2012	Intrinsic solutions Bangalore	Mr. N S V Shet
Summer University Programme	NITK-HEIG-VD Joint Summer University on Image and Signal Processing (SU-ISP 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

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 programe	28-2-1012
Jean Bernord Mickle	Professor School of Business and Engineering, Vaud Switzerland	MS and R&D exchange programe	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 SMIORE Gold Medalist) and Caterpillar Retiree & CEO, QPRO Consulting Peoria, II. 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. AMahesha, 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
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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
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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
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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,
Shubhanga 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 201

Department of Humanities, Social Sciences and Management

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

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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

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Dr.B.R.Jayalekshmi 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 159thaugural 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, 2011 at Staff Training College, Mysore

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

Department of Computer Engineering

Name of Staff/Faculty	Assignment/Recognition/Award
Mr. Alwyn Roshan Pais	1. Best paper award for the paper "Detecting & Defeating Split Personality Malware" in an International Conference SECURWARE 2011, France 2. Listed in Marquis who's who in the world 2012
Mr. B.R.Chandavarkar	1. Reviewer of Book "Computer Networking, 6th Edition, [Author: Kurose and Ross's]" 2. Contributed, "Digital Design", 5th edition [M. Morris Mano and Michael D. Ciletti], Pearson International Edition. 3. Contributed, "Structured Computer Organization", 6th edition, [Andrew S. Tanenbaum and Todd Austin], Pearson International Edition. 4. 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	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 21 st to 26 th January, 2012. 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.
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	Received state level award from Vision group on Science & Technology, Department of Science & Technology, Government of Karnataka. Selected as Editor for International journal 'Nano Hybrids' Transtech publishers-Swedan. Selected as Editor for International journal 'Journal of Applied Membrane Science & Technology'-Malaysia. Delivered Invited lecture in International Conference held at Malaysia during March 6 & 7 th 2012.

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	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 in Industrial Safety News</u> , bimonthly newsletter of National Safety Council, vol.44, No1&2, Jan-Feb 2012, pp.19. Member Technical Programme Committee of ICPADM 2012, IEEE 10 th International Conference of Properties and applications of dielectric materials, being organized by CPRI Bangalore. http://www.icpadm2012.in 2. Reviewer of technical papers of ICPADM 2012, IEEE 10 th International Conference of Properties and applications of dielectric materials, being organized by CPRI Bangalore. 3. Undergraduate Project sponsored by Karnataka State Council for Science and Technology (KSCST) in the 35 th series of Student Project Program (SSP). http://kscst.org.in/spp/35_series/35_Series_SPP_Approved_Proposals.html
Dr. Shubhanga 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=rGQVkh5Falg
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	Nominated as member of Board of Appointment of Mangalore University for 2011-12.
	BOS Member for NMAMIT – MCA programme, Mangalore University – Computer Science (PG) programme, Manipal University – Information and Communication Technology (UG & PG) programme during 2011-12.
	Invited as Chairperson for the Computer Science paper presentation on International Conference on Emerging Trends in Engineering (ICETE-11), 4 th – 5 th May 2011 at NMAMIT, Nitte.
	Invited as Chairperson for 1 st International Conference on Computer Science, Engineering and Applications (ICCSEA 2011), May 25 – 27 th , at Dubai.
	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.
Dr. Prakash Raghavendra	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.
Mr. Biju R Mohan	Attended International Conference on "Information and Computer Networks" (ICICN 2012) at Singapore, February 26-28, 2012.
Mrs. Sowmya Kamath	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
	BOE member for MCA Course at NMAMIT, Nitte

Department of Mechanical Engineering

Name of the staff/faculty	
1. Mr. Vasudeva M	Pursuing Ph.D. programme
2. Mr. Shivananda Naik H	
3. Mr. Veershetty G	
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 Charectarization 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. 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	Guest Editor of Special Issue and Special Technical Publication (STP) on Nanofluids, Journal of ASTM International (JAI), ASTM International, Pennsylvania, USA, 2011.
	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.
	NPTEL Reviewer for course on 'Steelmaking'
	Chosen as member of the International Committee of ASM Sixth International Quenching and Control of Distortion Conference, including the 4 th International Distortion Engineering Conference, Chicago, IL, 10-13, September 2012.
	Chosen as Member of the Global Data Base Project on Liquid Quenchants, International Federation of Heat Treatment and Surface Engineering, UK
	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).
	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.
	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 10 th among the top 25 hottest articles by Science Direct.
	Dr. K.N.Prabhu: Invited Reviewer for the following International Journals: Solder and Surface Mount Technology, International Journal of Heat and Fluid Flow
	Editorial Board Member: Conference Series in Materials Science
Editorial Board Member: Materials Performance and Characterization, ASTM, USA	

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

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	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	-

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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, B'LORE	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	DELOITTE, 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	-

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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	SYNOPSIS, B'LORE	1	9.89	10.86
60	GAIL INDIA, N. DELHI	7	11.8	-
61	BARCLAYS TECH, PUNE	0	6.58	-
62	TALLY SOLUTIONS, B'LORE	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, B'LORE	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	ATOPTTECH 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	-

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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	SHRIRAM 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	-

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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
POSTGRAGUATES		
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
<u>MCA</u>	75	71
<u>MBA</u>	35	15
<u>MSC(Chemistry)</u>	14	0
<u>MSC(Physics)</u>	23	0
TOTAL	1152	823

***TOTAL NO. OF PLACEMENTS - 970**
(with 147 students getting placed in two companies)

PLACEMENT BREAKUP 2011-12					
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 07, ECE 08, EEE 08, I.T 08, MECH 04, MET 02, MIN 01	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	-

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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	DELOITTE, 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

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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	SYNOPSIS, 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

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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 LAWRIE, 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	-	-

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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	SHRIRAM 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, THRISSUR	APRIL -26-2012	1	-	CIVIL 01
181	NEUERTH INDIA, NOIDA	MAY 07-2012	3	MET 03	-
182	SANKALP SEMICONDUCTOR,	MAY 09-2012	*		

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	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
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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.

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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 (EcoleCatholiqued'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 / Assistanceship

As per the guidelines of Govt. of India (MHRD) Merit and Merit cum Means Scholarship have been awarded to I B.Tech. students every year who have got 60% above marks in +2 exam and the same will be continued based on their performance in II, III & IV B.Tech. Examinations. In addition, based on performances at the 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)

Undergraduate Course	SC	ST	Total
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.

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- 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.

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; ICT, 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'lore	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. Chrstyl A Aranha (B.Tech-2011) - (Erasmus Mundus 11) –EU
- c. Ms. Pooja Bhat (B.Tech-2011) – University of British Columbia, Vancour, 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 Toronto, Canada
- g. Sharath S. (B.Tech -2011), Osaka Unversity, Japan.
- h. Ravishankar M.S (B.Tech-2011), PennState, USA
- i Ms. Jnana Bairy(B.Tech 2010), Texas 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 Univesity, 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 Gotmeyer 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.	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. Dr. Arun M Isloor received state level award from Vision group on Science & Technology, Department of Science & Technology, Government of Karnataka on 09-02-2012.

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 Studnets 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 Bascillus Fastidiosus 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 Prasoon 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 Saraogi	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, ICT, 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 Isloor	CEPD, NCL, Pune
3	Ms. Sneha Ashok B.	Role of RAB GTPases in Melanosome Biogenesis	Dr. Subha Rao Gangishetty & Dr. Nishitha Isloor,	MCBI Dept., Bangalore
4	Mr. Srikanth Madderla	Differentiation of Mouse Embryonic and Adult Stem Cells in to Cardiomyocytes	Dr. Nibedita Lenka & Dr. C.C. Kartha, & Dr. Nishitha Isloor,	NCCS, Pune & Rajiv Gandhi Centre for Biotech., Thiruvanthapuram
5	Mr. Polavarapu Srinivas	Study on Ionic Liquid Based Aqueous Biphasic System Containing 1-Hexyl-3-Methylimidazolium 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. Vijayaraghavan	Microbial Degradation of Hydrocarbons in Petroleum Sludge	Dr. Nishitha A. Isloor	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 GTPB4</i>	Dr. Som Dutt & Dr. Prasanna B.D.	CSIR – IGBT, 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 – IGBT, Palampur H.P
19	Mr. Ravi B. Pujari	Optimization of Bacterial Production of Polyhydroxyalkanoate	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 Reseach (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 (IJCPT-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-odinators : Dr. K Chandrasekaran and Dr. T.G. Basavaraju
- ✓ Two week Workshop on "Effective Teaching/Learning of Computer Programming" 14th – 24th December 2009, Co-odinators: 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-odinator: Dr. P. Santhi Thilagam
- ✓ Three days Workshop on Unix Network Programming – 29th – 31st March 2010 Co-odinator: 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 1 st April 2011 to 31 st 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.

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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, Rajshekar 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 Rajashekar – 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. Rajashekar 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 Hutti 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 1st April 2011 to 31st 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, Croatia, 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. Cuppoletti, 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.	<u>Title of the Course</u>	<i>Duration</i>	<i>No.of Participants</i>	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-

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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 (GFSOCSN'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 progressing.
- 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 all over the country including four Regional Board of Apprenticeship Training (BOATs).

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

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, TEQIP	Rs. 8.16 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

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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
<u>BALANCE</u>		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
9410	Opening Balances: (a) Cash in hand (b) Bank balances	I	114866	295950838	Expenses (a) Establishment Expenses (b) Administrative Expenses	VII	398606925 <u>220764677</u>
102151057 117464771	(i) in current accounts (ii) Savings accounts		183957943 <u>296146293</u>	215836799	<u>Payments made against Funds for various projects:</u>	XII	1191452775
927429361	<u>Grants Received:</u> (a) From Govt. of India & other	II	726590780	484482685	<u>Expenditure on Fixed Assets & Capital Work-in - progress:</u>	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	114866	<u>Closing Balances:</u> (a) Cash in hand (b) Bank balances	XI	135585
998864748	<u>Any other receipts:</u>	VI	1906433939	183957943 296146293	(i) In current accounts (ii) Savings accounts		153455411 270617162
2353696617	TOTAL		3370132686	2353696617	TOTAL		3370132686