1 THE INSTITUTE

1.1 HISTORICAL BACKGROUND

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

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

1.2 LOCATION

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

1.3 CAMPUS

The campus covers an area of 295 acres in picturesque surroundings with Western Ghats in the East and the West Arabian Sea in the West. The campus is well laid out with roads, electrical installation, water supply, underground drainage etc. The campus being on the seashore, is blessed with clean air and a healthy climate. The National Highway NH 66 separates the campus into Western Side and Eastern Side campus. The Western Side of the campus houses the Departments of E&E, E&C, Computer and Information Technology, Guest Houses, STEP, Yoga centre and pristine beach.
2 GOVERNACE & 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 NITSER 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
2. Education Secretary, Ministry of HRD, Government of India
3. The Chairperson of National Institute of Technology Karnataka, Surathkal
4. Director of National Institute of Technology Karnataka, Surathkal
5. Chairman, UGC
6. Chairman, All India Council for Technical Education
7. Director, General, Council for Scientific and Industrial Research
8. Secretary, Department of Bio-Technology, Government of India
9. Secretary, Department of Atomic Energy, Government of India
10. Secretary, Department of Information Technology, GOI
11. Secretary, Department of Space, Government of India
12. Not less than three but not more than five persons to be nominated Member 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
13. Three members of Parliament, of whom two shall be chosen by the Member House of the people and one by the Council of States
14. Two Secretaries to the State Government, from amongst the ministries Member or departments of that Government dealing with technical education
16. Joint Secretary (Technical)/Additional Secretary (Technical), Department of Higher Education, Ministry of HRD, GOI

BOARD OF GOVERNORS

Chairman

Prof. K Umamaheshwar Rao
Director
NITK, Surathkal.

Members

Dr. Sukhbir Singh Sandhu
Additional Secretary (TE), Govt. of India
Dept. of Higher Education
Ministry of Human Resource Development
Room No. 122 ‘C’, Shastri Bhawan, New Delhi-110 001

Ms. Darshana M. Dabral
Joint Secretary and Financial Advisor
Ministry of Human Resource Development
Dept. of Higher Education, Technical Education Bureau
Room No. 120 ‘C’, Shastri Bhawan, NEW DELHI - 110 001.

Shri Mudda Kedarnath
Advisor – Aditya Birla Group
#17, Shankar Nilaya, 8th Main, 18th Cross
Upper Palace Orchard, Sadashivnagar
BENGALURU-560080.

Dr. Shanth Averahally Thimmaiah
Managing Director
M/s. METAMORPHOSIS Group of Companies
“PRAKRUTI BHAVAN”, #200, 1st & 2nd Floor, 1st Cross, 40th Main, Behind Central Silk Board, BTM Layout 2nd Stage, BENGALURU – 560068.
Dr. (Ms.) Lalitha R Gowda Ph.D.
Former Chief Scientist, CSIR
Central Food Technological Research
Institute, Baylor, 1235 Gange Road, 3rd
Cross, Kuvempunagar, MYSORE – 570023.

Dr. (Ms.) Anju Chadha
Professor - Laboratory of Bioorganic
Chemistry, Department of Biotechnology
& NCCR, Indian Institute of Technology
Madras, CHENNAI - 600 036.

Dr. M K Nagaraj
Professor, Department of Applied
Mechanics,
NITK, Surathkal.

Dr. Udaya Bhat K
Associate Professor
Department of Metallurgical & Materials
Engg,
NITK, Surathkal.

Secretary
Shri K Ravindranath
Registrar
NITK, Surathkal.

FINANCE COMMITTEE

Chairman
Prof. K Umamaheshwar Rao
Director
NITK, Surathkal.

Members
Dr. Sukhbir Singh Sandhu
Additional Secretary (TE), Govt. of India
Dept. of Higher Education
Ministry of Human Resource
Development, Room No. 122 ‘C’,
Shastri Bhawan,
New Delhi-110 001

Ms. Darshana M. Dabral
Joint Secretary and Financial
Advisor, Ministry of Human
Resource Development
Dept. of Higher Education,
Technical Education Bureau
Room No. 120 ‘C’,

ShastriBhawan,
NEW DELHI - 110 001.

Dr. Shanth Averahally
Managing Director
M/s. METAMORPHOSIS Group
of Companies
“PRAKRUTI BHAVAN”, #200, 1st
& 2nd Floor, 1st Cross, 40th Main,
Behind Central Silk Board
BMT Layout 2nd Stage,
BENGALURU – 560068.

Dr. M K Nagaraj
Professor, Department of
Applied Mechanics,
NITK, Surathkal.

Member Secretary
Shri K Ravindranath
Registrar
NITK, Surathkal.

BUILDING AND WORKS COMMITTEE

Chairman
Prof.K Umamaheshwar Rao, Ph.D.
Director
NITK, Surathkal – 575 025

Members
Shri. Sanjeev K Sharma
Director – NITs, Dept of Higher
Education,
MHRD, GOI, Shastri Bhavan, New Delhi.
Director - Finance
Dept. of Higher Education,
MHRD, GOI, Shastri Bhavan, New Delhi
A U Ravi Shankar, Ph.D
Dean (P&D), NITK, Surathkal
Mangaluru – 575 025
Prof. G S Dwarakish
Dean (P&D), NITK, Surathkal
Mangaluru – 575 025
Dr. S V Ravindra
HOD School of Architecture
University Visvesvaraya College of Engineering, Bengaluru University,
Jnana Bharathi, Bengaluru – 560 056
Ms. D Padmavathi  
Chief Engineer  
Chamundeshwari Electricity Supply  
Coorporation Limited (CESC Ltd.)  
Zonal Office, Vijayanagar, 2nd stage  
Hinkal, Mysuru – 570 017

Shri P K Naidu  
Project Manager, CPWD  
NITK-S Project circle, NITK, Campus,  
Srinivas Nagar, Mangaluru - 575025

**Member – Secretary**  
Ravindranath  
Registrar  
NITK, Surathkal,  
Post Srinivas Nagar,  
Mangalore-575 025

**OTHER COMMITTEES**

**SENATE**

**Chairman**
Prof. K. Uma Maheshwar Rao  
Director  
NITK, Surathkal – 575 025

**External Member**
N. C. Shivaprakash

Dr. (Ms.) Rama Govindarajan

Dr. (Ms.) Haripriya Gundimeda

**Members**
M.B. Saidutta, Ph.D. 
T.P. Ashok Babu, Ph.D. 
Dwarakish G. S, Ph.D. 
Ananthanarayana V. S, Ph.D. 
Prasad Krishna, Ph.D. 
S.M. Hegde, Ph.D. 
A. Mahesha, Ph.D. 
Arkal Vittal Hegde, Ph.D. 
Kiran G. Shirlal, Ph.D. 
Lakshman Nandagiri, Ph.D. 
Nagaraj M.K., Ph.D. 
Subba Rao, Ph.D. 
Hari Mahalingam, Ph.D. 
G. Srinikethan, Ph.D. 
Gopal Mugeraya, Ph.D.  
(on deputation to NIT Goa as Director) 
Denthaje Krishna Bhat, Ph.D. 
A. Chitharanjan Hegde, Ph.D. 
A. Nityananda Shetty, Ph.D. 
A. Vasudeva Adhikari, Ph.D. 
Badekai Ramachandra Bhat, Ph.D. 
Varghese George, Ph.D. 
Katta Venkataramana 
A.U. Ravi Shankar 
K. S. Babu Narayan 
K. Swaminathan 
M. C. Narasimhan 
R. Shivashankar 
S. Shrihari 
K. N. Lokesh 
Sitaram Nayak 
Subhash C. Yaragal 
P. Santhi Thilagam 
K. Chandrasekaran 
U. Shripathi Acharya 
John D’Souza 
M. S. Bhat 
Muralidhar Kulkarni 
Sumam David S. 
B. Venkatesa Perumal 
K. Panduranga Vittal 
Udayakumar R.Y.(on deputation to MNIT, Jaipur as Director) 
G. Ram Mohana Reddy 
B. R. Shankar 
Santhosh George 
A. Kandasamy 
Murulidhar N. N. 
Narendranath S. 
Appukuttan K. K. 
G. C. Mohan Kumar 
Gangadharan K. V. 
H. Suresh Hebbar 
Ravikiran Kadoli 
S. M. Kulkarni 
Shrikantha S. Rao 
Vijay H. Desai 
Udaya Bhat K. 
A. O. Surendranathan 
Jagannath Nayak 
K. Narayan Prabhu 
K. Rajendra Udupa 
V. R. Sastry 
Ch. S. N. Murthy
M. Govinda Raj
M. N. Satyanarayan
H. D. Shashikala
Kasturi. V. Bangera
N. K. Udayashankar
K. B. Kiran
Aloysius Henry Sequeira
Sri P. G. Mohanan, System Manager, CCC
Smt. Anasuya Chakari, Librarian i/c

Special invitee
Ms. Marathe Maitreyee Sanjiv

Ms. Supriya S.

Secretary
Shri K. Ravindranath, Registrar

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

**Constitution:**
- Dean (AA) Chairman
- Dean (Faculty Welfare) Member
- Dean (Planning & Development) Member
- Dean (Students’ Welfare) Member
- Dean (Research & Consultancy) Member
- Dean (Alumni Affairs & Institutional Affairs) Member
- H.O.D. of each Department / his nominee Members
- BOG member representing the faculty Member
- Three Representatives from the premier Academic Institutions Member
- IIM, others belonging to Southern region Member
- Assistant Registrars (Academic) Member
- Registrar Secretary

**QUARTERS ALLOTMENT COMMITTEE**

K N Lokesh, Director i/c, Ph.D. till 20.7.2017 President

K Uma Maheshwar Rao, from 21.7.2017 Chairman
T P Ashok Babu, Ph.D., till 14.3.2018
A H Sequeira, Ph.D. from 15.3.2018
M K Nagaraj, Ph.D., (BOG Member)
Uday Bhat, Ph.D., (BOG Member)
Sri. K Ravindranath, Registrar
N Gaonkar, Resident Engineer i/c till 31.8.2017
Sunil B M, Ph.D. from 1.9.2017
Sri. Rammohan Y, Dy. Registrar (A/cs)
K Narayana Prabhu, Professor, Met. & Mat. Engg.
Dr. (Mrs) P Santhi Thilagam, Assoc.
Professor, CSE
Sri. Monappa Mera, Assistant SG-1, A/c II Member
Suresha S N, Faculty In-charge (Estate Works) Secretary

**INSTITUTE GRIEVANCE COMMITTEE**

A C Hegde, Ph.D. till 29.7.2017
Dwarkish G S, Ph.D. from 30.7.2017 Chairman
Sripathi U, Ph.D., Professor, Dept. of E&C Engg. Member
Satyanarayana, Ph.D., Asst. Professor, Dept. of Physics Member
1. Sam Johnson P, Ph.D., Dept. of MACS Member
Mrs. Yashavanthi, Asst. Executive Engineer Member
Satyanarayana, Ph.D., Asst. Professor, Dept. of Physics Member
Vijaykumar Ghode., Sr. Scintific Officer, Central computer Centre Member
Gangamma S, Ph.D., Asst. Professor, Chemical Engg. Member
Mr. Soumen Karmakar, Asst. Registrar(Admn.) Member
### SECURITY COMMITTEE

- Dean (Faculty Welfare)
- Dean (P&D)
- Dean (SW)
- Registrar
- Chairman, CCC
- Prof. i/c Hostels
- Resident Engineer
- Dy. Registrar (A/cs)
- Faculty i/c Estate & works
- Faculty i/c Ele.works
- Faculty i/c Security
- Sri. Manohar Karanth, Security Officer

### LIBRARY ADVISORY COMMITTEE

- N Laxman, Ph.D. (from 1.1.2018)
- Mrs. Anasuya C (Secretary)
- Amba Shetty, Ph.D.
- Prasanna B D
- A C Hegde, Ph.D.
- Arun Kumar Thalla, Ph.D.
- Jeny Rajan, Ph.D.
- Nagendrappa H, Ph.D.
- P Srihari, Ph.D.
- Sowmya Kamath, Ph.D.
- B R Shankar, Ph.D.
- Anish S, Ph.D.
- Shashi Bhushan Arya, Ph.D.
- B M Kunar, Ph.D.
- T K Shajahan, Ph.D.
- Bijuna C Mohan, Ph.D.
- Mr. Iranna M Shettar

### NITK HEALTH CARE COMMITTEE

- Dean Faculty Welfare
- Girls Hostel Warden
- Professor Incharge Hostel Affairs
- SC/ST Cell Liaison Officer
- Faculty Representative
- Staff representative
- Women Representative (a) from Faculty (b) from staff
- Deputy Registrar (A/C)
- Supdt. Accts III
- President Students Council
- Girls Representative
- Medical Officer

### COMPLAINTS COMMITTEE

- Jayalekshmi B R, Ph.D. (Chairperson from 15.6.2016)
- C P Devatha, Ph.D.
- Aruna M, Ph.D.
- Yogeesh
- Parvathi
- Anasuya Chakari
- Manjula V Prasad
- Mrs. Merlyn Martis, NGO Advocate

### SPORTS ADVISORY COMMITTEE

- Director
- Dean (S. W.)
- Dean (P.W.)
- Registrar
- Dy.Registrar(A/cs.)
- Hem Prasad Nath, PhD, SAS officer
- Manoj, PhD.,SAS Officer
- Resident Engineer
- Faculty In-charge Hostel Affairs
- N Lakshman, Ph.D.
- Jagannath Nayak, Ph.D.
3 DEPARTMENTS AND SCHOOLS

<table>
<thead>
<tr>
<th>Department/Engineering</th>
<th></th>
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<tbody>
<tr>
<td>Applied Mechanics &amp; Hydraulics</td>
<td>(AM)</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>(CH)</td>
</tr>
<tr>
<td>Chemistry</td>
<td>(CY)</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>(CV)</td>
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<tr>
<td>Computer Engineering</td>
<td>(CO)</td>
</tr>
<tr>
<td>Electrical &amp; Electronics Engineering</td>
<td>(E&amp;E)</td>
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<tr>
<td>Electronics &amp; Communication Engineering</td>
<td>(E&amp;C)</td>
</tr>
<tr>
<td>Information Technology</td>
<td>(IT)</td>
</tr>
<tr>
<td>Mathematical &amp; Computational Sciences</td>
<td>(MA)</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>(ME)</td>
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<tr>
<td>Metallurgical &amp; Materials Engineering</td>
<td>(MT)</td>
</tr>
<tr>
<td>Mining Engineering</td>
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<tr>
<td>Physics</td>
<td>(PH)</td>
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SCHOOLS

<table>
<thead>
<tr>
<th>School</th>
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</thead>
<tbody>
<tr>
<td>School of Management</td>
<td>(SM)</td>
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</table>
4 ACADEMIC PROGRAMMES

4.1 PROGRAMMES OFFERED

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

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

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

| 1. Structural Engg. |
| 2. Geotechnical Engg. |
| 4. Transportation Engg. |
| 5. Construction Technology And Management |
| 6. Marine Structures |
| 7. Water Resources Engineering And Management |
| 8. Remote Sensing And Geographic Information Systems |
| 9. Manufacturing Engg |
| 10. Mechatronics Engg |
| 11. Thermal Engg |
| 12. Design And Precision Engg |
| 13. Power & Energy Systems |
| 14. VLSI Design |
| 15. Communication Engg |
| 16. Chemical Plant Design |
| 17. Industrial Pollution Control Engg. |
| 18. Industrial Biotechnology |
| 19. Computational Mathematics |
| 20. Materials Engg |
| 21. Process Metallurgy |
| 22. Nanotechnology |
| 23. Computer Science & Engg |
| 25. Information Technology |

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

IV. M.C.A. (Master of Computer Applications) - Six semesters

V. M.B.A. (Master of Business Administration) - Four semesters

VI. M.Sc. in Chemistry – (Four semesters)

VII. M.Sc. in Physics – (Four semesters)

VIII. Ph. D. Programme:
Ph.D. Programmes are offered in 14 Departments in various course and interdisciplinary specializations.

4.2 ACADEMIC CALENDAR

<table>
<thead>
<tr>
<th>Academic Year</th>
<th>Programmes</th>
<th>Admission Commenced on</th>
<th>Admission closed on</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017-18</td>
<td>MCA</td>
<td>17.7.2018</td>
<td>31.7.2017</td>
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<tr>
<td>2017-18</td>
<td>M.B.A.</td>
<td></td>
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<tr>
<td>2017-18</td>
<td>M.Sc. (Physics &amp; Chemistry)</td>
<td>27.6.2017</td>
<td>3.7.2018</td>
</tr>
<tr>
<td>2017-18 (July Session)</td>
<td>Ph.D.</td>
<td>11.7.2018</td>
<td>15.7.2018</td>
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</tbody>
</table>
5 ADMISSION POLICIES

5.1 ADMISSION PROCEDURE

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

M.Tech -GATE/Scholarship seats:-
On the basis of GATE Score, admissions for scholarship category (GATE) were made in the centralized on-line common Admission Process through Centralized Counseling for M.Tech. (CCMT) coordinated by NITK,Surathkal. After CCMT allotment of seats, the vacant and unfilled seats were filled in Spot admission on 6.8.2018 at NITK, Surathkal for the GATE candidates on merit basis.

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

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

M.B.A.-
Selection was based on CAT score and performance in the qualifying exam and Interview.

M.Sc (Chemistry & Physics):
Selection was based upon the academic performance in the qualifying degree programme and written aptitude test conducted by the institute.

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

All the students are required to stay in the Institute Hostels, unless permitted to reside outside under special circumstances. Students have to strictly adhere to the rules and regulations of the institute.
6 ADMISSIONS FOR 2017-18

6.1 The number of candidates admitted are as follows:

I. B.Tech.
1. Admission through JEE 733
2. G.O.I. Nominee through Ministry of External Affairs
3. DASA Scheme 101

Total 834

II. M.Tech./M.Tech. (By Research)
j) M.Tech Programme
The number of candidates admitted to First Year M.Tech. Programmes are:
1. With GATE qualifications for scholarship seats 465
2. Sponsored candidates 01
3. Admission under DASA 01
4. QIP candidates 04
5. L&T Sponsored Candidates 30
6. NAVY sponsored 01
7. ICCR Sponsored 04
Total 506

M.Tech. (By Research)

1. GATE qualified with Scholarship 16
2. Non Scholarship 33
Total 39

III MCA:
Selection of candidates for admission to MCA, were made on the basis of rank obtained in NIT MCA Common Entrance Test (NIMCET). Admissions were made through a Centralized counseling conducted by N.I.T. Durgapur. A Total 87 candidates admitted were as follows:-

<table>
<thead>
<tr>
<th>Category</th>
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<tbody>
<tr>
<td>OP</td>
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<td>SC</td>
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<td>ST</td>
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<tr>
<td>PWD</td>
<td>01</td>
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<tr>
<td>Total</td>
<td>87</td>
</tr>
</tbody>
</table>

IV M.B.A.:
Selection of candidates were made on the basis of CAT 2017 among candidates applied to NITK, Surathkal, Group Discussion and interview. A total 34 candidates were admitted as follows:-

<table>
<thead>
<tr>
<th>Category</th>
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<td>OP</td>
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<td>SC</td>
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<tr>
<td>Total</td>
<td>34</td>
</tr>
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</table>

V. M.Sc (Chemistry & Physics)
Selection were made on the basis of academic performance in the qualifying exam and written aptitude test conducted at NITK Surathkal. Following are the admission details:

i. M.Sc (Chemistry)

<table>
<thead>
<tr>
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<td>Spon &amp; PWD</td>
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<tr>
<td>Total</td>
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</table>

ii M.Sc (Physics)

<table>
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</thead>
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<tr>
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<tr>
<td>OBC</td>
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<tr>
<td>SC</td>
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<tr>
<td>ST</td>
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</tr>
<tr>
<td>Total</td>
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VI. Ph.D. Programme:

<table>
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External Registrants (Part Time) 38

A total number of 834 candidates have been admitted to the First Year B.Tech. Programmes according to the guidelines, instructions issued by the MHRD.

The PG & Ph.D. admissions have been made according to the Rules and Regulations issued by the Senate of the Institute.
### B.Tech. Students Strength for the year 2017-18.

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### MBA Students Strength for the year 2017-18

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### 6.3 ADMISSION STATISTICS Undergraduate Programmes – B. Tech.

**Particulars of sanctioned intake and admissions made during 2017-18**

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### ADMISSION STATISTICS – B.TECH. 2017-18

Details of Male & Female admissions – coursewise and categorywise

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## ADMISSION STATISTICS - POST GRADUATE PROGRAMMES

M. Tech. Programme - Particulars of Intake and Admissions during 2017-18

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<tr>
<th>Sl. No.</th>
<th>Name of the Programmes</th>
<th>Intake</th>
<th>Admitted</th>
<th>Out of the total admissions- No. of candidates admitted under category</th>
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<td>Projects</td>
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<td>Computational Mathematics</td>
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### M.TECH. PROGRAMME (BY RESEARCH) 2017-18

#### Intake

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<th>OBCPWD</th>
<th>SC</th>
<th>SCPWD</th>
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#### Admission made for the year 2017-18

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<td>Non-Scholarship Seat</td>
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#### DEPARTMENT OF CIVIL ENGINEERING

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#### DEPARTMENT OF APPLIED MECHANICS AND HYDRAULICS

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<td>Marine Structures</td>
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#### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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

**Particulars of Admissions during 2017-18**

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<th>M</th>
<th>F</th>
<th>M</th>
<th>F</th>
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<th>F</th>
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* Seats reserved for DASA candidates
** Additional seats for the international students under ICCR Scheme
PWD – Persons with Disabilities
**Ph.D. PROGRAMME**

*Particulars of Intake & Admissions made during 2017-18*

Intake for the year 2017-18

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<th>OC</th>
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<th>OB</th>
<th>OBPWD</th>
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**Details of Admissions made during 2017-18**

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<th>Full time Programme</th>
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<th>Out of the total Full time scholars, Number of Candidates belonging to the category of OC, OBC, SC, ST, OTHERS (Nonfellowship/QI.P/Sponsored and Admissions under Visvesvaraya Ph.D. Scheme).</th>
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*Annual Report 2017-18*  
28
| 6 | Chemical Engg | 2 | 6 | -- | -- | -- | -- | 2 | 3 | 0 | 3 | -- | -- | -- | -- | -- | -- | -- |
|---|----------------|---|----|-----|-----|-----|-----|----|---|---|---|---|----|-----|-----|-----|-----|-----|-----|-----|
| 7 | Metallurgical & Materials Engg | 6 | 1 | 1 OC (QIP) R | -- | 1 OC | -- | 4 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 OC (QIP) R |
| 8 | Mining Engg | 4 | 0 | -- | -- | 1 OC | 1 OBC | -- | 3 | 0 | 1 | 0 | 0 | 0 | 0 | -- | -- | -- |
| 9 | Computer Science & Engg | 3 | 3 | 1 QIP | 1 VIS (ST) | 1 OC | 1 OC IR | 1 OC ER (SPON) | 3 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 QIP | 1 VIS (ST) |
| 10 | Information Technology | 2 | 1 | -- | -- | 1 OC * | -- | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | -- | -- | -- |
| 11 | Physics | 2 | 0 | -- | -- | -- | -- | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -- | -- | -- |
| 12 | Chemistry | 0 | 5 | -- | -- | 1 OC | 1 OC IR | -- | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 1 | -- | -- | -- |
| 13 | Mathematical & Computational Sciences | 4 | 2 | -- | -- | 1 SC | 1 OC * | 3 | 2 | 0 | 0 | 0 | 0 | 1 | -- | -- | -- | -- |
| 14 | School of Management | 3 | 4 | -- | -- | 1 ST | 1 OC | 2 | 4 | 0 | 0 | 1 | 0 | 0 | 0 | -- | -- | -- |
| **Total** | **75** | **38** | **7 OC QIP 1 OC VIS** | **1QIP(R) 2 VIS** | **20 (9 OC, 7 OC (IR), 1 OBC (IR), 1 OBC, 1 SC, 1 ST Dec. sess. (7 OC, 6 OBC)** | **4 (2 OC 1 OBC 1 OC ER (SPON) Dec. sess. (1 OC)** | **48** | **23** | **13** | **11** | **10** | **2** | **4** | **2** | **7 OC QIP 1 OC VIS** | **1QIP(R) 2 VIS** |

*Admissions made during January session 2017, SPON= Sponsored. QIP = Admitted Under AICTE QIP Scheme, VIS= Under vishweshwarya scheme*
Total Student's Strength

Programme

Strength

1. Undergraduate 3215
2. Post Graduate (Including MCA/M.Tech./M.Tech (Research)/MBA/M.Sc.) 1405
3. Ph.D. Programme 775

Total 5395
7 EVALUATION AND EXAMINATION

7.1 EDUCATION SYSTEM

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

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

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

7.2 EXAMINATION & EVALUATION PROCEDURE

The examination and evaluation work of all the B.Tech./M.Tech./MCA/MSc/MBA students and Ph.D./M.Tech by Research candidates were carried out by the respective Faculty Members in their concerned Departments itself as per the regulations approved by the Senate of the Institute. The Grades obtained by each student with details of attendance in each course were submitted to the Examination/Evaluation Section for processing their Grade Cards as per the regulations of the Institute. The results were declared and published on the website of the Institute in time and Grade Cards were issued to all eligible students.
### 8 Examination Results For 2017

#### Undergraduate

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<th>Sl.No.</th>
<th>Branch</th>
<th>Total No. Appeared</th>
<th>No. of students passed in</th>
<th>Total Pass</th>
<th>Percentage of passes</th>
<th>No. of SC/ST candidates passed</th>
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<td>CGPA above 6 &amp; below 7</td>
<td>CGPA above 5 &amp; below 6</td>
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*- Repeaters
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Pie chart showing discipline wise B.Tech. admissions 2017-18

Civil Engineering 12%
Mechanical Engineering 20%
Electrical & Electronics Engg. 12%
Information Technology 13%
Computer Engg. 13%
Mining Engg. 5%
Metallurgical & Materials Engg 5%
Chemical Engg. 7%
Electronics & Communication Engg. 13%

35
Pie – chart showing discipline wise M.Tech. admissions 2017-18
Pie – chart showing discipline wise Ph.D. admissions 2017-18
Growth in enrolment UG/PG/Ph.D. students during the last Five years 2013-2017

Growth in enrolment UG/PG/Ph.D. students during the last Five years 2013-2017
Examination Results (PG)
Category wise details of UG Admissions 2017-18
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Category wise details of PG Admissions
### Ranks secured by the B.Tech./M.Tech./MCA/MBA/M.Sc. (Physics & Chemistry) Examination held in April/May, 2017

**B. Tech.**

<table>
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<td>2) Prof. M. N. Shivashankar Gold Medal</td>
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<td>2) Karthik Alloys Gold Medal</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3) Prof. H. V. Sudhaker Nayak Gold Medal</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>4) SMIORE Gold Medal</td>
</tr>
<tr>
<td></td>
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<td>5) 1986 Batch Gold Medal</td>
</tr>
<tr>
<td>9</td>
<td>MINING ENGINEERING</td>
<td>13610913MN39</td>
<td>SHIVAM SAHU</td>
</tr>
<tr>
<td></td>
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<td>1) Institute Medal</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2) Hutti Gold Mines Medal</td>
</tr>
</tbody>
</table>
### POST GRADUATES

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Branch</th>
<th>Reg. No.</th>
<th>Name of the Student</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Marine Structures</td>
<td>15008815MS09F</td>
<td>K SRILAKSHMI</td>
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<td></td>
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<td>1) Institute Medal</td>
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<tr>
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<tr>
<td>2</td>
<td>Remote Sensing &amp; Geographic Information System</td>
<td>15030415RS08F</td>
<td>N SHIVA SHANKARI</td>
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<tr>
<td></td>
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<td>2) Board Chairperson’s Medal</td>
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<tr>
<td>3</td>
<td>Water Resources Engineering &amp; Management</td>
<td>15038915WR09F</td>
<td>SHARANNYA T M</td>
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<td></td>
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<td>1) Institute Medal</td>
</tr>
<tr>
<td>4</td>
<td>Chemical Plant Design</td>
<td>15030315PD07F</td>
<td>YOHANNAN BIBIN SABILON</td>
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<td>5</td>
<td>Industrial Biotechnology</td>
<td>15012915IB15F</td>
<td>SHRADDHA MUNDRA</td>
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<td>6</td>
<td>Industrial Pollution Control</td>
<td>15029215PC07F</td>
<td>MUGADA SARAT KUMAR</td>
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<td>7</td>
<td>Construction Technology &amp; Management</td>
<td>15152415CM54F</td>
<td>SHAIK SUBHANI</td>
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<td>8</td>
<td>Environmental Engineering</td>
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<td>KAKADE KSHITIJA CHANGDEO</td>
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<td>Geotechnical Engineering</td>
<td>15017815GT06F</td>
<td>MAHIMA R</td>
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<td>15005715GT13F</td>
<td>SURYA E V</td>
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<td>2) Board Chairperson’s Medal</td>
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<td>10</td>
<td>Structural Engineering</td>
<td>15002315ST23F</td>
<td>SEETHU K</td>
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<tr>
<td>11</td>
<td>Transportation Engineering</td>
<td>15003715TS02F</td>
<td>ANUSREE ANAND P</td>
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<td>1) Institute Medal</td>
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<td>12</td>
<td>Computer Science &amp; Engineering</td>
<td>15014015CS03F</td>
<td>BHAU PRIYA SAYAL</td>
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<td></td>
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<tr>
<td>13</td>
<td>Computer Science &amp; Engineering – Information Security</td>
<td>15015115IS12F</td>
<td>LAVISH KOTHARI</td>
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<td>1) Institute Medal</td>
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<tr>
<td>14</td>
<td>Power &amp; Energy Systems</td>
<td>15017515PS19F</td>
<td>TALE SNIGDHA SUBHASH</td>
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<td>1) Institute Medal</td>
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<tr>
<td>15</td>
<td>Communication Engineering</td>
<td>15005315CE08F</td>
<td>AYSWARIA VIJAYAMOHAN</td>
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<td>1) Institute Medal</td>
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<td>16</td>
<td>VLSI Design</td>
<td>15000215VL04F</td>
<td>ARJUN S KUMAR</td>
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<tr>
<td>17</td>
<td>Information Technology</td>
<td>15016515IT05F</td>
<td>DANI VIVEK PADMANABH</td>
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<td>18</td>
<td>Computational Mathematics</td>
<td>15046115CMA10F</td>
<td>PRASHANT KUMAR</td>
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<td>19</td>
<td>Design and Precision Engineering</td>
<td>15016115DP08F</td>
<td>LAXIT GOYAL</td>
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<td>20</td>
<td>Manufacturing Engineering</td>
<td>15017015MF03F</td>
<td>ANOOP GANESH A</td>
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<td></td>
<td></td>
<td>1) Institute Medal</td>
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<tr>
<td>Sl. No.</td>
<td>Branch</td>
<td>Reg. No.</td>
<td>Name of the Student</td>
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<td>21</td>
<td>Mechatronics Engineering</td>
<td>15005115MC24F</td>
<td>SHASHIDHAR S UPPIN 1) Institute Medal</td>
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<td>22</td>
<td>Thermal Engineering</td>
<td>15008415TH03F</td>
<td>BALAJI S 1) Institute Medal 2) Dr. B. S. Samaga Cash Award</td>
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<td>23</td>
<td>Materials Engineering</td>
<td>15037315ML19F</td>
<td>SUJITH S 1) Institute Medal 2) Prof. K R Hebbar Gold Medal</td>
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<td>24</td>
<td>Nanotechnology</td>
<td>15009715NT02F</td>
<td>BIKESH GUPTA 1) Institute Medal 2) Board Chairperson’s Medal 3) Prof. K. L. Bhat &amp; Prof. P. Prasad Rao Gold Medal</td>
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<tr>
<td>25</td>
<td>Process Metallurgy</td>
<td>15008015PM08F</td>
<td>VIJAY PRAKASH SINGH PARIHAR 1) Institute Medal 2) Mrs. Sarojini Pillai Gold Medal</td>
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</tbody>
</table>

**Master of Computer Applications - 2017**

<table>
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<tr>
<th>Sl. No.</th>
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<th>Reg. No.</th>
<th>Name of the Student</th>
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<tbody>
<tr>
<td>26</td>
<td>Master of Computer Applications</td>
<td>14205414CA45</td>
<td>NITIN GHAWANA 1) Institute Medal 2) Dr. Saroja R Hebbar Gold Medal</td>
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</table>

**Master of Business Administration - 2017**

<table>
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<tr>
<th>Sl. No.</th>
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<th>Reg. No.</th>
<th>Name of the Student</th>
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<tr>
<td>27</td>
<td>Master of Business Administration</td>
<td>15301115HM29</td>
<td>SOMYA SINGH 1) Institute Medal 2) Board Chairperson’s Medal</td>
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**Master of Science - 2017**

<table>
<thead>
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<th>Name of the Student</th>
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</thead>
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<tr>
<td>28</td>
<td>Chemistry</td>
<td>15402815CY17</td>
<td>SATHISH C G 1) Institute Medal 2) Prof. G. H. Kulkarni Gold Medal</td>
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<tr>
<td>29</td>
<td>Physics</td>
<td>15401315PH10</td>
<td>LEKSHMI S 1) Institute Medal 2) K. Subbarayappa Gold Medal</td>
</tr>
</tbody>
</table>
9. Ph.D. Programmes & Doctorates Awarded

Ph.D. Programmes – Existing & Proposed

Department of Applied Mechanics and Hydraulics
Existing:
• Specialization
  (i) Coastal Engineering
  (ii) Water Resources Engineering
  (iii) Remote Sensing and GIS

Department of Civil Engineering
Existing:
• Specialization
  Structural Engineering, Geotechnical Engineering, Transportation Engg., Environmental Engineering, Construction Technology and Management, Geology and Earth Sciences

Department of Computer Science & Engineering:
Existing:
• Specialization

Proposed:
• Specialization
  Graph Theory, Graph Algorithms

Department of Chemistry
Existing:
• Specialization

Proposed:
  • Specialization:
    Perovskite solar Cells and Oleds

Department of Electronics and Communication Engineering
Existing:
• Specialization

Department of Electrical and Electronics Engineering
Existing:
• Specialization

Department of Information Technology
Existing:
• Specialization

Proposed:
  • Specialization
    Edge/Fog Computing, IoT for Smart City / Smart Office / Smart Building / Smart Classroom, Information Retrieval, Natural Language Processing, Semantic Web
Technology, Social Multimedia/Social Network Analysis

DEPARTMENT OF MATHEMATICAL AND COMPUTATIONAL SCIENCES

EXISTING:

• SPECIALIZATION

DEPARTMENT OF MECHANICAL ENGINEERING

EXISTING:

• SPECIALIZATION
Thermal Engineering, Manufacturing Engineering, Design And Precision Engineering, Mechatronics Engineering

DEPARTMENT OF MINING ENGINEERING

EXISTING:

• SPECIALIZATION
Rock Mechanics and Ground Control, Drilling and Blasting, Mine Planning Environmental Management

DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING

EXISTING:

• SPECIALIZATION
Process Metallurgy, Physical Metallurgy, Mechanical Metallurgy, Materials Engineering, Nanotechnology

DEPARTMENT OF PHYSICS

EXISTING:

• SPECIALIZATION
Solid State Physics, Materials Science, Theoretical Physics, Electromagnetics, Photonics, Compound Semiconductor thin films.

PROPOSED:

• SPECIALIZATION
Theoretical investigation of strongly correlated systems and solar cells

SCHOOL OF MANAGEMENT

EXISTING:

• SPECIALIZATION
Management, Social Sciences and Humanities

DOCTORATES AWARDED

DEPARTMENT OF APPLIED MECHANICS AND HYDRAULICS

Upto 31st March 2017 : 64
During period 1st April 2017 to 31st March 2018 : 08

1. Bhojraj B.E., Hyperspectral vegetation indices for Areca nut crop monitoring, 2017, Dr. Amba Shetty & Dr. M.K.Nagaraj

2. Rohan Colaso, Sensitivity of risks in construction scheduling, 2017, Dr. M.K.Nagaraj

3. Binu Mol, Studies on the effects of an emerged Impermeable and seaside perforated quarter circle breakwaters on near field hydrodynamics, 2017, Dr. A.Vittal Hegde & Dr. Subba Rao


5. Subrahmanya K., Hydro-geological studies on coastal wetland – A case study, 2017, Dr. A.Mahesha

6. Amog Mudbhatkal, Assessment of climate change impacts on river basins originating in the Wester Ghats of India, 2017, Dr. A. Mahesha

7. Yajneshwaran B., Parametric study of
soil structure interaction of a Diaphragm wall type berthing structure, 2017, Dr. Subba Rao & Dr. A. Vittal Hegde

8. Jagalingam B., Pan-sharpening the spatial resolution of multispectral image for the assessment of near shore Bathymetry, 2018, Dr. A. Vittal Hegde

9. Mohammad Shahid Gulgundi, Identification and appointment of pollution sources to GW quality using Receptor models, 2018, Dr. Amba Shetty

DEPARTMENT OF CHEMICAL ENGINEERING

1. Anusha Krishnamurthy “Studies on a fibrinolytic enzyme produced from marine Serratia marcescens subsp. Sakuensis”, 2018, Dr. Prasanna B.D.

2. Gopinath K. “Studies on Particulate Matter in Ambient Air of Urban Mangalore”, 2018, Dr. Raj Mohan B.

3. Pooja Nanda “Studies on Site-Specific Pegylation of Uricase from Bacillus fastidious using mPEG-Derivatives”, 2017, Dr. P.E. Jagadeesh Babu


5. Mr. Rajashekhara, S. “Batch Drying Studies of Solids in a Multiple Draft Tube Spouted Bed”, 2017, Dr. D.V.R. Murthy


DEPARTMENT OF CIVIL ENGINEERING

Up to 31st March 2017:-  65
During period 1st April 2017 to 31st March 2018:  05


3. Anil Kumar Studies on Modulus of Resilience of Lateritic Soil Blends Using CBR, DCP, PFWD, and Cyclic Triaxial Tests, with FEM Based Analysis on Dynamic Loading, 2018, Varghese George


DEPARTMENT OF COMPUTER ENGINEERING

UPTO 31ST MARCH 2017:- 19
DURING PERIOD 1ST APRIL 2017 TO 31ST MARCH 2018:-  No. Awarded: 08

1. Krishna Kumar P "Measurement of carotid artery wall thickness and diameters from magnetic resonance and ultrasound images” 2017, Dr. Jeny Rajan

2. Manoj Kumar M. V “An approach for handling concept drift and model simplification in log-based process analysis”, 2017, Dr. Annappa

3. Manoj V. Thomas “Identity and access management in the cloud federation environments” 2017, Dr. K. Chandrasekaran

4. Sumith N “Identification and analysis of influence in social networks : user centric approach”, 2018, Dr. Swapan Bhattacharya and Dr. Annappa

5. Likewin Thomas "Process mining based critical path recommendation in health care management", 2018, Dr. Annappa
6. Usha D “A Trust Based Security of Resources in Cloud Environment” 2018, Dr. K. Chandrasekaran
7. Bindu P “VGraph feature based multi-layer social network analysis for anomaly detection” 2018, Dr. P. Santhi Thilagam
8. Vathsala H “Long range prediction of Indian summer monsoon rainfall using data mining and statistical approaches” 2018, Dr. Shashidhar G. Koolagudi.

DEPARTMENT OF CHEMISTRY

UPTO 31ST MARCH 2017: 81
DURING PERIOD 1ST APRIL 2017 TO 31ST March 2018:- No. Awarded (including those for which viva has been successfully completed):- 07

1. Harikrishna Nandam, April, 2017, Dr. A. M. Isloor.
2. Liju Elias, August 2017, Dr A. C. Hegde
3. Dr. Mohamed Jafer Sadiq M., Ph.D. Title: Graphene - Metal Tungstate Nanocomposites for Catalytic Applications, November, 2017., Dr. D. Krishna Bhat
4. Raghavendra Seetharama Hebbar “Preparation, Characterization and performance studies of polyetherimide based membranes for water purification” September 2017, Dr Arun M. Isloor.
5. Irfana Moideen K. “Preparation and characterization of polyarylsulfone based membranes for water purification” December 2017, Dr Arun M. Isloor
7. Praveen Naik, February, 2018, Dr A.V. Adhikari

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

UPTO 31ST MARCH 2017:- 81
DURING PERIOD 1ST APRIL 2017 TO 31ST MARCH 2018:- No. Awarded (including those for which viva has been successfully completed):- 18

2. Jora M. Gonda " Power shield: A power-quality enhancer for current-source type of nonlinear loads”, October 2017, Dr. Sumam David S.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

UPTO 31ST MARCH 2017:- 22
DURING PERIOD 1ST APRIL 2017 TO 31ST March 2018:- No. Awarded: 01

1. (Mr. Tangella Bhavani Shanker “ACOUSTIC EMISSION SIGNAL BASED INVESTIGATIONS INVOLVING LABORATORY AND FIELD STUDIES RELATED TO PARTIAL DISCHARGES & HOT-SPOTS IN POWER TRANSFORMERS”, 2017, Dr, Gururaj S Punekar & Dr, Nagamani H N. (of CPRI Bangalore))

DEPARTMENT OF INFORMATION TECHNOLOGY

UP TO 31ST MARCH 2017: 13
DURING PERIOD 1ST APRIL 2017 TO 31ST MARCH 2018: 5


DEPARTMENT OF MECHANICAL ENGG.

UPTO 31ST MARCH 2017:- No. Awarded (including those for which viva has been successfully completed): 505

DURING PERIOD 1ST APRIL 2017 TO 31ST March 2018:- No. Awarded (including those for which viva has been successfully completed):- 13


2. GAJANAN ANNE, Development and Characteristics of Ultrafine Grained Mg-Zn/Al Multi layered Composites by Accumulative Roll Bonding Process, 2017, Guide: Dr. Ramesh M.R, Dr. H Shivananda Nayaka

3. SUHAS B G, Investigation on subcooled flow boiling heat transfer to water-ethanol mixture in conventional channel, 2018, Guide: Dr. Sathyabhama A

4. NIVISH GEORGE, Buckling and Dynamic Characteristics of non-uniformly heated FG-CNT polymer nano composite plate, 2017, Guide: Dr. S M Murigendrappa and Dr. P. Jeyaraj

5. VINOD S BHAGAT, Buckling and Dynamic Behavior of non-uniformly heated cylindrical panels, 2017, Guides: Dr. P. Jeyaraj and Dr. S M Murigendrappa.


DEPARTMENT OF MINING ENGINEERING

Up to 31st March 2018: No. awarded (including those for which viva has been successfully completed):- 19

Up to 31st March 2018 (During period 1st April 2017 to 31st March 2018):- 3

1. Balla Kalyan”, Experimental investigation on assessment and prediction of specific energy in Rock indestation test”, April 2017, Prof. Ch. SN. Murthy & Prof. R.P Choudhary.

2. N Laxmipathi,” Study illumination system in surface mining project and Development of optimum lighting Design Parameters” October 2017, Prof. Ch. S. N. Murthy, Dr. M. Aruna

3. 3. Sripad Ramachandra Naik,” Studies on stability assessment of large covers in Himalayan Region” November 2017, Prof. V. R. Sastry

DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING

Up to 31st March 2017:- 41
During period 1st April 2017 to 31st March 2018:- 05


2. Melby Chacko, “Effect of T6 Treatment on Corrosion of Al-SiCp Composite & Inhibition Evaluation of Benzimidazole and its Derivatives”, 2017, Dr. Jagannatha Nayak

3. Sharath P. C., Mechanical Properties and Microstructural Characterisation of Multi – Directional Forged and Heat Treated Zn-24Al-2Cu Alloy, 2018, Dr. Preetham Kumar G. V. & Dr. K. Rajendra Udupa


5. Baskaran T., Synthesis and Development of Sm2SrAl2O7 Based Air Plasma Sprayed Ceramic Thermal Barrier Coatings: Oxidation, Hot Corrosion and High Temperature Erosion Study, 2018, Dr. Shashi Bhushan Arya
DEPARTMENT OF PHYSICS

UPTO 31ST MARCH 2017:- No. Awarded (including those for which viva has been successfully completed):- 20
DURING PERIOD 1ST APRIL 2017 TO 31st March 2018:- No. Awarded (including those for which viva has been successfully completed):- 07
(FOR PERIOD OF REPORT ONLY)

5. Sreejesh, M., “Preparation Characterization and Applications of Graphene and its Composites”, 2017, Dr. H.S. Nagaraj
7. Jyothi J., “Nanostructured Spectrally Selective Coatings for High-Temperature Solar Thermal Applications”, 2018, Dr. H.S. Nagaraja and Dr. Harish Barshilia

SCHOOL OF MANAGEMENT

UPTO 31ST MARCH 2017:- No. Awarded (including those for which viva has been successfully completed):- 6
(FOR PERIOD OF REPORT ONLY)

5. Mr. Sumukh S. Hungund, "Innovation Approaches, Practices and Firm Performance among Select Software Product SMEs: A Case of Bangalore Firms”, 12.02.2018, Prof. K. B. Kiran
10.0 HUMAN RESOURCES

10.1 STAFF POSITION

<table>
<thead>
<tr>
<th>Teaching Staff</th>
<th>Number</th>
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<tbody>
<tr>
<td>Professors</td>
<td>63</td>
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<tr>
<td>Associate Professors</td>
<td>35</td>
</tr>
<tr>
<td>Assistant Professors</td>
<td>130</td>
</tr>
<tr>
<td>Other staff, A.P.D. &amp; System Manager</td>
<td>02</td>
</tr>
<tr>
<td>Contract Faculty</td>
<td>09</td>
</tr>
</tbody>
</table>

Non-Teaching Staff

| Administrative Officers | 17 |
| Technical supporting staff | 56 |
| Non-technical supporting staff | 93 |

239

THE STAFF

(A) Administrative Staff (Teaching)

Director: (Head of the Institution)

K N Lokesh, Ph.D. till 21.7.2017 F.N.
K Uma Maheshwar Rao, Ph.D. 21.7.2017 F.N.

Dean (Academic)

Katta Venkataramana, Ph.D. till 30.09.2017
M B Saidutta, Ph.D. from 1.10.2017 onwards

Dean (Planning and Development)

A U Ravishankar, Ph.D. till 31.12.2017
G S Dwarakish, Ph.D. from 1.1.2018

Dean (Faculty Welfare)

T P Ashok Babu, Ph.D. till 14.03.2018
A H Sequeira, Ph.D. from 15.03.2018

Dean (Alumni Affairs & Institutional Relations)

M B Saidutta, Ph.D. from 15.5.2013 to 31.8.2016
Prasad Krishna, Ph.D. from 1.9.2016

B Department of Applied Mechanics and Hydraulics

Professors:

A. Vittal Hegde, Ph.D. (Mangalore University)
N. Lakshman, Ph.D., (I.I.Sc., Bangalore)
M.K. Nagaraj, Ph.D. (I.I.Sc., Bangalore)
Subba Rao, Ph.D. (Mangalore University),
G.S. Dwarakish, Ph.D. Anna University,
Mahesh A, Ph.D. (IIT Bombay) HOD from 12.3.2017
Kiran G. Shirlal, Ph.D. (NITK)

Associate Professors

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

Assistant Professors:

K. Subrahmanya, Ph.D. NITK
Manu, (Ph.D. NITK)
Pruthviraj U., Ph.D. (NITK)
H.Ramesh, Ph.D. (NITK)
K. Vadivuchezhian, Ph.D. (IIT Madras)
Nasar T, Ph.D. (IIT, Madras)
Debabrata Karmakar, Ph.D., (IIT Kharagpur) 5.5.2015

Department of Chemical Engineering

Professors:

G. Srinikethan, Ph.D. (I.I.T. Madras)
Gopal Mugeraya, Ph.D. (I.I.Sc. Bangalore) on deputation to NIT Goa as Director from 15.07.2017
M.B. Saidutta, Ph.D. (I.I.T. Bombay)
Hari Mahalingam, Ph.D. Singapore HOD from 01.09.2017

**Associate Professors:**

K. Vidya Shetty, Ph.D. (NITK)
B. Raj Mohan., Ph.D. (I.I.T., Kharagpur), HOD from 1.9.2015 to 31.08.2017

**Assistant Professors:**

S. Gangamma, Ph.D. IIT, Bombay
Jitendra Pal S., Pursuing Ph.D. at IIT Delhi
Prasanna B.D., M.E. (Ph.D. NITK)
Regupathri, Ph.D., (Anna University, Chennai)
P.E. Jagadeeshbabu, Ph.D. (Anna Univ. Chennai)
Hari Prasad Dasari, Ph.D. (Korea Institute of Science and Technology, Korea)
Keyur Raval, Ph.D. (Aachen Den University)
D.Ruben Sudhakar, Ph.D. (IIT Madras)
B. Ashraf Ali, Ph.D. (IIT Madras)
Jagannathan T K, Ph.D. (IIT Madras)
Chinta Sarkar Rao, Ph.D. (IIT, Madras)

**Department of Civil Engineering Professors:**

R. Shivashankar, Ph.D. (A.I.T. Bangkok)
K.N. Lokesh, Ph.D. (Geology) (Gulbarga University)
M.C. Narasimhan, Ph.D. (IIT Madras)
Katta Venkataramana, Dr.Eng. (Kyoto University, Japan)
A.U. Ravi Shankar, Ph.D (Univ. of Roorkee)
Varghese George, Ph.D. (I.I.T. Bombay)
HOD from 21.4.2017
S. Shrihari, Ph.D. (Univ. of Roorkee)
Sitaram Nayak, Ph.D. (I.I.Sc. Bangalore)
Subhas C. Yaragal, Ph.D. (IISc. Bangalore)
K.S. Babunarayan, Ph.D. (NITK)

**Associate Professors:**

B.R. Jayalekshmi, Ph.D. (NITK)

**Assistant Professors:**

Sunil B.Malegole, Ph.D. (NITK)
Prashanth M.H., Pursuing Ph.D. at IISc
Basavaraj Manu, Ph.D. (IIT, Bombay)
Raviraj H. Mulangi, M.E., Ph.D., IISC
Suresha S N, Ph.D. (NITK)
Arun Kumar Thalla (IIT Rourkee), Ph.D.
Gangadhar Mahesh, Ph.D. (Hongkong)
A. S Balu, Ph.D. (IIT Madras)
C Rajasekaran, (IIT Madras)
C.P. Devatha, Ph.D. (IIT Rourkee)
A. Gowri, Ph.D. (IIT Madras)
Anjana Bhash, Ph.D. (IIT, Madras)
contractual
Bibuti Bhushan Das, Ph.D., (IIT Bombay)

**Department of Computer Engineering Professors:**

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

**Associate Professors:**

Vani M., M.Tech. (NITK, Surathkal) HOD from 17.8.2015 to 05.1.2017
Shanthi Thilagam, Ph.D. (NITK) HOD from 6.1.2017
Annappa,Ph.D (NITK, Surathkal)

**Assistant Professors:**

Alwyn Roshan Pais, Ph.D. (NITK)
Saumya A. Hegde, M.Tech. (NITK)
B.R. Chandavarkar, Ph.D. NITK
Mahendra Patap Singh, pursuing Ph.D.
Shashidhar G Koolagudi, Ph.D.(IIT Kharagpur)
Jeny Rajan, Ph.D. (University of Antwerpen, Belgium)
Mohit P. Tahiliani, Ph.D. (NITK)
Basavaraj Talawar, Ph.D. (IISC Bangalore)
Manu Basavaraju, Ph.D. (IISC, Bangalore)
M Venkatesan, Ph.D. (VIT University, Vellore) - Contractual

**Department of Chemistry Professors:**

A. Nityananda Shetty, Ph.D. (Mangalore Univ.)
A. Vasudeva Adhikari, Ph.D. (Karnatak Univ.)
A. Chitharanjan Hegde, Ph.D. (Mangalore Univ.)
B. Ramachandra Bhat, Ph.D. (Mangalore Univ.)
Krishna Bhat, Ph.D. (Mangalore Univ.)
HOD from 11.8.2016

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

**Assistant Professors:**
Udaya Kumar D., Ph.D. (NITK, Surathkal)
Darshak R. Bhai Trivedi, Ph.D. (Bhavnagar University)
Sib Sankar Mal, Ph.D. (JUB Germany)
Benceesh P. B., Ph.D. (University of Kerala)
Debashree Chakraborty, Ph.D. (IIT Kanpur)
Saikat Dutta, Ph.D. (University of Iowa, USA)

**Department of Electronics And Communication Engineering Professors:**
S. Sumam David, Ph.D. (I.I.T Madras)
Muralidhar Kulkarni, Ph.D. (JMI – New Delhi)
M. Shankarnarayan Bhat, Ph.D. (I.I.Sc., Bangalore)
John D’Souza, Ph.D. (I.I.T.Kharagpur)
U. Sripati Acharya, Ph.D., (I.I.Sc., Bangalore) HOD from 1.4.2016 to 16.04.2018

**Associate Professors:**
M. Ramesh Kini, Ph.D. NITK
Neelavar Shekar Shet, Ph.D. (NITK)
Laxminidhi T., Ph.D. (IIT, Madras) HOD from 17.04.2018
Ashwini Chathurvedi, Ph.D. (MUM Malaysia)

**Assistant Professors:**
Rekha S., Ph.D.
Kalpana G. Bhat, M.Tehc. Karnataka University
Aparna P., Ph.D. (NITK)
Joseph Antony A., M.E. (Anna Univ., Chennai) – Resigned from 23.04.2018
B. Nagavel, M.E., (Jadavpur University)Persuing Ph.D. atIIT Kharagpur
Krishna Moorthy K., Ph.D. at IIT, Bombay
Deepu Vijayasenan, Ph.D. (EPFL, Swizerland)
Prashantha Kumar H., Ph.D. (NITK)
M R Arulalan, Ph.D. (IISc, Bangalore)
Raghavendra B S, Ph.D. (IISc, Bangalore)
A V Narasimhadhan, Ph.D. (IISc), Bangalore
Pathipati Srihari, Ph.D. (Andhra University)
Shyam Lal, Ph.D. (BIT Ranchi)
Ratnamala Rao, Ph.D. (IIT Madras)

**Department of Electrical And Electronics Engineering Professors:**
Udayakumar R.Y., Ph.D. (IIT Bombay) on deputation to MNIT, Jaipur as Director from 08.10.2016
K. Panduranga Vittal, Ph.D. (Mangalore Univ.)

**Associate Professors:**
Jora M. Gonda, Ph.D. NITK
Shubhanga K.N., Ph.D. (IIT, Bombay)
Vinatha U., Ph.D. (NITK, Surathkal) HOD till 11.5.2017
Gururaj S. Punekar, Ph.D. (IIT, Kharagpur)
K. Manjunatha Sharma, Ph.D. (NITK)
Venkatesa Perumal, Ph.D. (IIT Delhi) HOD from 29.5.2017

**Assistant Professor :**
Iddya Raghavendra Rao M.Tech. (Mangalore Univ.)
Nagendrappa H., Ph.D. (Canada)
Dattatraya N. Goankar, Ph.D. (IIT, Roorkee)
Tukaram Moger, Ph.D. at IISC, Bangalore
Parthiban, Ph.D. (IIT, Roorkee)
Debashisha Jena, Ph.D. (NIT Rourkela)
Girisha Navada, M.Tech. (University of Calicut)
Karthikeyan, Ph.D. (IIT, New Delhi)
Sheron Figarado, Ph.D. (IISC, Bangalore)
Y Suresh, Ph.D. (NIT Rourkela) (Contractual)
Krishnan C M C, Ph.D. (Ghent University, Ghent, Belgium) (Contractual)

School of Management
Professors
A.H. Sequeira, Ph.D., (Mysore University) K.B.Kiran, Ph.D. (Mangalore Univ.) HOD from 06.9.2016

Associate Professors:
Shashikantha K., Ph.D. (University of Hyderabad)

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

Assistant Professors:
Dinesh Naik, M.Tech. (VTU, Belgaum)
Geetha V., Ph.D. (NITK)
Biju R. Mohan, Ph.D. NITK
Sowmya Kamath S., Ph.D. (NITK)
Jaidhar C D, Ph.D. (NIT, Tiruchirapalli)
Nagamma Patil, Ph.D. (IIT, Roorkee)

Department of Mathematical & Computational Sciences
Professors:
A. Kandasamy, Ph.D. (I.I.T. Bombay)
Suresh M. Hegde, Ph.D. (Delhi Univ.)
Santhosh George, Ph.D. (Goa University)
HOD till 16.08.2017
Murulidhar N.N., Ph.D. (I.I.T. Bombay)

Associate Professors:
Shyam Srinivas Kamath, Ph.D. (Karnataka Univ.)
HOD from 17.08.2017
Sujatha D. Achar, M.Sc. (Karnatak Univ.)
R. Madhusudhan., Ph.D. (IIT, Roorkee)

Assistant Professors:
D. Pushparaj Shetty, Ph.D. (IIT Delhi)
Vivek Sinha, Ph.D (IIT, Bombay)
V. Murugan, Ph.D. (IIT, Madras)
P. Sam Johnson, Ph.D. (Alagappa University)
Jidesh P., Ph.D. (NITK)
Satyanarayana Engu, Ph.D., (IIT Madras)
Vishwanath Kadapa Puttanna, Ph.D., (NITK)
Chandhini G, Ph.D. (IIT, Madras)
Jayaraman, Ph.D. (IIT, Madras) resigned from 9.8.2017

Department of Information Technology
Professors:
G. Ram Mohan Reddy, Ph.D. (Edinburgh, U.K.) HOD from 17.8.2015
Srinivasa Rao Kola, Ph.D. (IIT, Kharagpur)
A Senthil Thilak, Ph.D. (NIT, Tiruchirappalli)
Kedarnath Senapati, Ph.D. Utkal University (Contractual)

Department of Mechanical Engineering
Professors:
P. Mohanan, Ph.D. (I.I.T. Delhi) retired from 31.10.2017
T.P. Ashok Babu, Ph.D. (I.I.T. Delhi)
G.C. Mohan Kumar, Ph.D. (IIT, Chennai)
H. Suresh Hebar, 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)
Narendranath S., Ph.D. (IIT, Kharagpur) Hod from 22.01.2017
Shrikantha, Ph.D. (NITK)

Associate professors
Y. Suresh Kumar, M.E. (Mysore Univ.)
VRS from 12.2.2018
S.M. Murigendrappa, Ph.D. (I.I.T., Bombay)

Assistant Professors
Mervin A. Herbert, Ph.D. (I.I.T., Kharagpur)
Vasudeva M., Ph.D. (I.I.T. Bombay)
Guruprasad K.R., Ph.D. (I.I.Sc., Bangalore)
Kumar G.N., Ph.D. (IIT, Delhi)
Shivananda Nayak H., Ph.D. (IIT Roorkee)
Veersetty Gumtapure, Ph.D. (IIT, Madras)
Navin Karanth P., Ph.D. (NITK)
Subhaschandra Kattimani, Ph.D. (IIT, Kharagpur)
Sudhakar Jambagi, M.Tech. (Persuing Ph.D. at IIT Kharagpur)
Vijay Kumar H, Ph.D. (IIT, Bombay) resigned from 11.8.2017

Ajay Kumar Yadav, Ph.D. (I.I.T. Kharagpur)
D. Chakradhar, Ph.D., (NIT Warangal) resigned from 18.7.2018
Jeyaraj P, Ph.D., (IIT Madras)
Hemantha Kumar, Ph.D., (IIT, Madras)
Ramesh M.R, Ph.D., (IIT, Roorkee)
Sathyabhama A., Ph.D., (NITK)
Srikamath Bontha, Ph.D. (Wright State)
Arumuga Perumal D, Ph.D. ((IIT Guwahati)
Somasekhara Rao Todeti, Ph.D., (IISc Bangalore) (contractual)

Department of Mining Engineering
Professors:
V. Rama Sastry, Ph.D. (B.H.U. Varanasi)
HOD from 22.8.2017
C.H. Suryanarayana Murthy, Ph.D. (IIT Kharagpur)
M. Govinda Raj, Ph.D. (Mangalore University) HOD till 21.08.2018

Associate Professor:
Harsha Vardhan, Ph.D. (Indian School of Mines Dhanbad)
M. Aruna, Ph.D. (University of Dhanbad)

Assistant Professor:
K. Ramachander, Ph.D. (NITK)
Anup Kumar Tripathi, Ph.D. (University of Kentucky, Lexington, USA)
Ram Prasad Choudhary, Ph.D. (JNU, Jodhpur) on lien to JNU University from 24.11.2017
Bijay Mihir Kunar, Ph.D. (IIT, Kharagpur)

Department Of Metallurgical & Materials Engineering
Professors:

Mrityunjay R. Doddamani, Ph.D. (NITK, Surathkal)
N. Gnanasekaran, Ph.D. (IIT, Madras)
Arumuga Perumal D, Ph.D. ((IIT Guwahati)
Somasekhara Rao Todeti, Ph.D., (IISc Bangalore) (contractual)
A.O. Surendranathan, Ph.D. (Mangalore University)
K. Narayana Prabhu, Ph.D. (Mangalore Univ.)
Jagannatha Nayak, Ph.D. (NITK)

**Associate Professor:**
Udaya Bhat, Ph.D. (I.I.Sc., Bangalore)
HOD till 19.04.2018
Anandan Srinivasan, Ph.D. (I.I.T., Kharagpur) HOD from 20.4.2018
Kumkum Banerjee, Ph.D. (IIT Kharagpur)

**Assistant Professor:**
Shashi Bhushan Arya, Ph.D. (IIT, Bombay)
Ravishankar K.S., Ph.D. (NITK)
Mohammad Rizwanur Rahman, Ph.D., (Keio University, Japan)
Subray R. Hegde, Ph.D. (University of Canada)
Preeatham Kumar G V, Ph.D. (IIT, Madras)
Saumen Mandal, Ph.D. (IIT, Kanpur) from 27.4.2015 (contractual)

**Department of Physics Professors:**
Kasturi V Bangera, Ph.D. (Mangalore Univ.)
H.D. Shashikala Ph.D (Osmania Univ.)
Udayashankar N.K., Ph.D. (I.I.Sc. Bangalore)

**Associate Professor:**

**Assistant Professors:**
Nagaraj H.S., Ph.D. (Mangalore University)
Ajith K. Madam, Ph.D. (University of Hyderabad)
Partha Pratim Das, Ph.D. (University of Cincinnati Elec Engg.)
Deepak Vaid, Ph.D. (USA)

T. K. Shajahan, Ph.D. (IISC, Bangalore)
Kartick Tarafder, Ph.D. (Jadavpur University)

**ADMINISTRATIVE AND OTHER STAFF**

**Registrar:**
Ravindranath K., M.A. (Mangalore University)

**Deputy Registrar (Accounts):**
Ram Mohan Y, M.Com. (Mysore), LL.B. (Mangalore University)

**Assistant Registrars**
Kamlabh Kumar Singh, (M.Sc., M.S., MBA)
Soumen Karmakar, (MBA)
Bansod Pritam Ramesh, (M.Com, MBA)
Gaurav Chowdhury, (MBA)
Priyanka Dattanand Amadalli, (M.Sc.) from 15.12.2017

**Resident Engineer i/c:**
Goankar, Ph.D. from 1.9.2015 till 31.8.2017
Sunil B M, Ph.D., from 1.9.2017

**Executive Engineer (Electrical) Sri. Mohammad Firoz Khaza from 15.1.2018**

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

**Medical Officer:**
Dr. M.L. Balabhashkara

**Professor Incharge Hostel Affairs:**
Vasudeva M, Ph.D. till 17.1.2017
A C Hegde, Ph.D. from 18.1.2017

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

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

**Professor Incharge (Security)**
P Sam Johnson, Ph.D. from 23.5.2016  
**Security Officer:**  
Manohar Karanth

**Chief Vigilance Officer:**  
K Rajendra Udupa, Ph.D. till 16.7.2018  
Dr. K C Chandrasekaran, Ph.D. from 17.7.2017

**Central Public Information Officer (CPIO):**  
K. Ravindranath, Registrar, till 15.3.2018  
Soumen Karmakar from 16.3.2018

**OTHER SECTIONS**  
**Department of Training & Placement Professor:**  
Lakshman N, Ph.D. till 30.4.2018  
Vijay Desai, Ph.D. from 1.5.2018

**Industry Institute Partnership Cell Professor I/c.:**  
S M Kulkarni, Ph.D.

**SC/ST Cell**  

**OBC Cell**  
P C Deka, Ph.D. 16.2.2018

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

**SAS Officer:**  
Hem Prasad Nath, Ph.D. (Nagpur University)  
Manoj Kumar, Ph.D. (Techno Global University)

**Librarian:**  
Mallikarjuna Agadi, Ph.D. (Gulbarga University) from 16.2.2018

---

**Asst. Librarian**  
Anasuya Chakari, M.A. M.Lib.Sc. (Karnataka University) Librarian Incharge  
Iranna M Shettar (M.Lisc. M. Phil)

**Central Computer Centre Chairman / System Manager:**  
S S Kamath, Ph.D.

**System Manager**  
P G Mohanan, M.Tech. (Cochin University)

**Senior Scientific Officer:**  
Vijayakumar Ghode, M.Tech.

**NITK - Science & Technology Entrepreneurs’ Park**  
**OSD :-**  
K B Kiran, Ph.D. till 28.1.2018  
G Srinikethan, Ph.D. from 29.1.2018

**R&D Centre on Roofing Tiles**  
Faculty incharge – Dean (R&C)

**Centre for Continuing Education Chairman**  
Shrikantha Rao, Ph.D. from 8.7.2016

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

**Project Manager:**  
Kalbavi Rajendra Rao, B.E. (Mangalore Univ.)
### NON-ACADEMIC STAFF (NON-TEACHING) as on 31.3.2017

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Name of the Posts</th>
<th>In Position as on 31-03-2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Registrar</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Librarian</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Dy. Registrar (A/C's)</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>Asst. Registrar (Admin)</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>Asst. Registrar (Accounts)</td>
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<tr>
<td>6</td>
<td>Asst. Registrar (Academic)</td>
<td>2</td>
</tr>
<tr>
<td>7</td>
<td>Asst. Registrar (Purchase)</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>Assistant Librarian</td>
<td>2</td>
</tr>
<tr>
<td>9</td>
<td>SAS Officer</td>
<td>2</td>
</tr>
<tr>
<td>10</td>
<td>Senior Scientific Officer</td>
<td>1</td>
</tr>
<tr>
<td>11</td>
<td>Medical Officer</td>
<td>2</td>
</tr>
<tr>
<td>12</td>
<td>Security Officer</td>
<td>1</td>
</tr>
<tr>
<td>13</td>
<td>Executive Engineer</td>
<td>1</td>
</tr>
<tr>
<td>14</td>
<td>Senior Superintendent</td>
<td>1</td>
</tr>
<tr>
<td>15</td>
<td>Superintendent</td>
<td>2</td>
</tr>
<tr>
<td>16</td>
<td>Senior Secretary</td>
<td>1</td>
</tr>
<tr>
<td>17</td>
<td>Assistant (SG - I)</td>
<td>7</td>
</tr>
<tr>
<td>18</td>
<td>Assistant (SG -II)</td>
<td>1</td>
</tr>
<tr>
<td>19</td>
<td>Senior Assistant</td>
<td>27</td>
</tr>
<tr>
<td>20</td>
<td>Junior Assistant</td>
<td>15</td>
</tr>
<tr>
<td>21</td>
<td>Stenographer (SG - II)</td>
<td>3</td>
</tr>
<tr>
<td>22</td>
<td>Senior Stenographer</td>
<td>1</td>
</tr>
<tr>
<td>23</td>
<td>Assistant Engineer (SG-1)</td>
<td>2</td>
</tr>
<tr>
<td>24</td>
<td>Assistant Engineer (SG-II)</td>
<td>15</td>
</tr>
<tr>
<td>25</td>
<td>Senior Technical Assistant</td>
<td>6</td>
</tr>
<tr>
<td>26</td>
<td>Assistant Engineer</td>
<td>12</td>
</tr>
<tr>
<td>27</td>
<td>Technical Assistant</td>
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<td>28</td>
<td>Technical Assistant (SG-II)</td>
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<tr>
<td>29</td>
<td>Technicain (SG-II)</td>
<td>3</td>
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<tr>
<td>30</td>
<td>Senior Technician</td>
<td>7</td>
</tr>
<tr>
<td>31</td>
<td>Senior Work Assistant</td>
<td>1</td>
</tr>
<tr>
<td>32</td>
<td>Technician</td>
<td>2</td>
</tr>
<tr>
<td>33</td>
<td>Work Assistant</td>
<td>3</td>
</tr>
<tr>
<td>34</td>
<td>Senior Attendant</td>
<td>5</td>
</tr>
<tr>
<td>35</td>
<td>Attendant</td>
<td>30</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>166</strong></td>
</tr>
</tbody>
</table>
11. FACILITIES/AMENITIES

11.1 Hostels

The Institute reopened on 26-07-2017 for under-graduate and Post- graduate s per Academic Calendar for the year 2017-2018. All the students including foreign students are accommodated in the hostels as per the following details:

Total number of boys hostel = 11
Total number of girls hostel = 05
Total number of Rooms for boys = 2674
Total number of rooms for girls = 784

There are 10 messes operating in various hostel blocks to cater the needs of inmates. Out of which one vegetarian and one non vegetarian messes are running in girl's hostel and 6 vegetarian messes and two non-veg messes are running in boy's hostel. All the messes are provided with necessary infrastructure to cater to the different food habits of the students drawn from various parts of the country.

**Total number of messes**

<table>
<thead>
<tr>
<th>Name of the Mess</th>
<th>Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>I Block Mess</td>
<td>285</td>
</tr>
<tr>
<td>II Block Mess</td>
<td>404</td>
</tr>
<tr>
<td>IV Block Mess (Non Veg-Out Source)</td>
<td>513</td>
</tr>
<tr>
<td>V Block Mess (Non Veg-Out Source)</td>
<td>440</td>
</tr>
<tr>
<td>PG Block Mess (Out Source)</td>
<td>316</td>
</tr>
<tr>
<td>VII Block Mess</td>
<td>264</td>
</tr>
<tr>
<td>VIII Block Mess (Out Source)</td>
<td>502</td>
</tr>
<tr>
<td>Mega Block Mess (Out Source)</td>
<td>648</td>
</tr>
<tr>
<td>GH I block Mess ,Ground Floor (Out Source)</td>
<td>494</td>
</tr>
<tr>
<td>GH II block Mess , First Floor (Out Source)</td>
<td>483</td>
</tr>
</tbody>
</table>

The messes are managed by the active participation of the Student mess managers in preparation of the menu and other issues related to the management of the messes. Monthly mess bill accounts were audited by verifying the mess cards, stock sheets, cash and credit guest registers, purchase registers, mess membership issue register, mess bill calculation registers, petty cash book with vouchers and other records connected with monthly mess bill. Rationalization method was adopted to avoid the rate difference problem of various messes.
Total mess membership varies in every month. Out of the 10 messes IV Block mess, V block mess, VIII block mess, PG block mess, Mega Hostel Mess and Girls hostel messes are managed by the contractors.

**Reading Room Committee**
Reading room in the Hostel is managed by a separate elected students committee. The reading room committee organized CRRESCNDO 2017-18 during March 23-25, 2018 in a grand manner.

**Recreation committee**
The Recreation Committee constituted by election, looks after the sports activities of the residents of the hostels and provides indoor game facilities. The recreation committee organized Fresher’s Cup, flood lights Tournament, Inter Branch Tournament, Phoenix tournaments during October 2017-April 2018.

Overall Reading Room and Recreation committee have done their job in a commendable manner. The Cable TV facility existing in the campus has been extended to all the hostels. All the Hostel Rooms (Boys and Girls) have connected with Internet facilities.

**Mess Concession**
Mess Concession is offered to students (Hostellers), who need financial assistance to continue their studies in the Institute during ODD and Even semester. The fund raised by contribution from the hostellers i.e `10/- per semester along with hostel mess fees.

The concessions are granted based on the information furnished by the individual applicants in the prescribed applications, which if found to be incorrect, at a later date would be cancelled and withdrawn retrospectively.

The mess concession grantee must be regular in attendance and show improvements in his academic performance. The amount granted above will be credited to the mess bill account of the respective student by means of adjustment entry and will not be paid by cash.

Several festivals like Holi, Diwali and Ganesh Chaturthi celebrated by hostellers, through the fund is raised by contribution i.e `40/- from the hostellers. New Year- 2018 is first time celebrated by the students in this academic year.

During the Hostel day celebration various sports and games are conducting for mess workers. Best Kept Room for Hostellers and Best Kept Mess is also awarded on this occasion.

During the year under report, Medical Relief to the tune of Rs. 1,30,687/- has been sanctioned to students of the hostel blocks as per the recommendation of the Block Warden and Institute Resident Medical Officers, for their hospitalization in nearby Surathkal/Mangalore hospitals for treatment. This amount is met out of the fund created under “Self Sustaining Medicare Scheme” which is created by collecting Rs.35/- per student per semester.

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

Prof. A. Chitharanjan Hegde is working as a Professor in-charge Hostel Affairs NITK Hostels.

Presently, the following faculty members are rendering their services as wardens in different Hostel Blocks as mentioned against their names:
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Block</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harsha Vardhan, Ph.D.</td>
<td>Warden (Finance)</td>
<td></td>
</tr>
<tr>
<td>Vasudeva M, Ph.D.</td>
<td>Warden (Finance)</td>
<td></td>
</tr>
<tr>
<td>S Pavan Kumar, Ph.D.</td>
<td>Warden, I Hostel Block</td>
<td></td>
</tr>
<tr>
<td>Kartick Tarafder, Ph.D.</td>
<td>Warden, II Hostel Block</td>
<td></td>
</tr>
<tr>
<td>C. Rajasekaran, Ph.D.</td>
<td>Warden, III Hostel Block</td>
<td></td>
</tr>
<tr>
<td>Subhaschandra Kattimani,</td>
<td>Warden, IV Hostel Block</td>
<td></td>
</tr>
<tr>
<td>Sharanappa Joladarashi, Ph.D.</td>
<td>Warden, V Hostel Block</td>
<td></td>
</tr>
<tr>
<td>Debabrata Karmakar, Ph.D.</td>
<td>Warden, PG Hostel Block</td>
<td></td>
</tr>
<tr>
<td>Satyanarayana Engu, Ph.D.</td>
<td>Warden, PG Hostel Block</td>
<td></td>
</tr>
<tr>
<td>Saumen Mondal, Ph.D.</td>
<td>Warden, VII Hostel Block</td>
<td></td>
</tr>
<tr>
<td>Pushparaj Shetty D, Ph.D.</td>
<td>Warden, VIII Hostel Block</td>
<td></td>
</tr>
<tr>
<td>V Murugan, Ph.D.</td>
<td>Warden, VIII Hostel Block</td>
<td></td>
</tr>
<tr>
<td>Debashisha Jena, Ph.D.</td>
<td>Warden, Mega Hostel Tower II</td>
<td></td>
</tr>
<tr>
<td>Shashidhar G Koolagudi, Ph.D.</td>
<td>Warden, Mega Hostel Tower II</td>
<td></td>
</tr>
<tr>
<td>Shashibhushan Arya, Ph.D.</td>
<td>Warden, Mega Hostel Tower III</td>
<td></td>
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<tr>
<td>Darshak R Trivedi, Ph.D.</td>
<td>Warden, Mega Hostel Tower III</td>
<td></td>
</tr>
<tr>
<td>Raviraj H Mulangi, Ph.D.</td>
<td>Warden, Mega Hostel Tower I</td>
<td></td>
</tr>
<tr>
<td>Mrityunjay Doddamani, Ph.D.</td>
<td>Warden, Mega Hostel Tower I</td>
<td></td>
</tr>
<tr>
<td>(Mrs.) A Sathyabhamma, Ph.D.</td>
<td>Warden, Girls Hostel I &amp; II Block</td>
<td></td>
</tr>
<tr>
<td>Dr. (Mrs.) Suprabha K R.</td>
<td>Warden, Girls Hostel III Block</td>
<td></td>
</tr>
<tr>
<td>Dr. (Mrs.) Savita Bhat</td>
<td>Warden, Girls Hostel III Block</td>
<td></td>
</tr>
<tr>
<td>Dr. Paresh Chandra Deka</td>
<td>Warden, Mess Quality Control</td>
<td></td>
</tr>
<tr>
<td>Bibhuti Bhusan Das</td>
<td>Warden, Maintenance</td>
<td></td>
</tr>
</tbody>
</table>

Prof. Dr. Karanam Uma Maheshwar Rao, 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 functioning of the hostel activities.
11.2 CENTRAL COMPUTER

CCC has contributed in designing, building and maintaining an IT infrastructure for the Institute adequate to the academic needs, by providing quality IT services to support teaching, learning, research and innovations. CCC maintains the campus network backbone connectivity and internet connections on 24x7 basis. The CCC occupies 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.

CCC is currently headed by Dr Shyam S Kamath (Dept of M A C S). CCC has the following permanent staff associated to it. One Systems Manager, One Senior Scientific Officer, One Assistant Engineer (SG1), Two Assistant Engineers (SG2), Two Assistant Engineers, One Technician (SGII) and One Junior Assistant. CCC also has an Office Clerk, 2 Helpers, One Sweeper and One House Keeper working on contract basis.

Chairman, CCC seeks the guidance of the CCA Committee in important decisions.

NITK has a Campus wide LAN reaching academic buildings, residences and hostel rooms through wired and wireless networks. The campus backbone services are provided with about 20 kms of 12 core OFC using 1 Gbps and 10 Gbps backbone to the different buildings and broad band to the residences. Departments, Residences (through the broadband), Directorate (and administrative net), Guest houses and Hostels are individually connected to the core switch. The hostel networks are integrated into the academic network of NITK sharing the Internet bandwidth of the Institute. The first stage of the campus network was done in 1999 and the second stage of expansion was done in 2006 with the TEQIP funds. The Third Stage including Core Network Expansion and the Campus WiFi is completed in 2016 at a total cost of about Rs 6.78 crores. The expanded network including the Core Switches, Firewall, Backbone switches and the Campus Wi-Fi equipments are under warranty and maintenance of BSNL for 5 years. The Wi-Fi network is provided as an extension of the wired networks in the different buildings. The WiFi expansion is carried out with 744 Ruckus R500 Indoor access points, 40 Ruckus T300 Outdoor access points, 5 Ruckus H500 wall switches, 89 Netgear 24 port 10/100/1000Mbps PoE switch with 4 SFP ports and other active and passive network components.

All bonafide Universities of the nation are being given OFC based 1Gbps connectivity to NKN-PoP (National Knowledge Network Point of Presence) under NME-ICT (National Mission on Education through ICT). This includes University level institutions and NITK is one among them. On 26--08--2010, the network switches of NITK were reconfigured for commissioning the 1 Gbps line that has come to NITK Surathkal under this scheme. From 27--8--2010 onwards, this line is in use by the academic area and also the hostels. However, from 03--04--2012 onwards, this line has become a part of the National Knowledge Network which is designed to support advanced applications in areas such as Health, Education, Science & Technology, Grid Computing, Bioinformatics, Agriculture, and Governance. For General purpose Internet access, the available bandwidth was inadequate for a community of about 7000+ heavy users including the faculty, students and staff. In order to meet the demands of the users, an additional bandwidth of 1 Gbps is procured from BSNL at an annual cost of Rs 82.46 lakhs.

The NITK Data centre housed in the CCC Ground Floor acts as an integration hub of OFC/backbone. It houses Internet connections to BSNL & NKN, associated networking.
equipments and sufficient hardware to handle the critical backbone network services. Data Centre is upgraded with the following equipments

- Virtual Cluster Switch: This consists of two Brocade VDX 8770-8 (each with 48x 10G SFP+, 48 x 10G copper and 12x 40G QSFP) and one Brocade VDX 6740T-56-1G-F server farm switch
- 23 Nos. of Brocade ICX7250-48-2X10G and 8 Nos. of Brocade ICX7250-24-2X10G as building backbones with 10G uplinks to the core switch
- Two Nos. of Sophos XG750 firewalls in HA mode with VPN facility.
- Campus Wi-Fi Controller- Ruckus SmartZone 100

Main servers are connected to the data centre network. Critical services are accessible from inside and outside the network. CCC Uses Virtualisation with Blade Servers with VMWare, Dell Servers with Proxmox virtualisation environment/Ubuntu System containerisation environment.

NITK Website updations are entrusted with the CCC apart from the webserver maintenance. The domains of NITK (nitk.ac.in and nitk.edu.in) are also controlled by CCC. CCC hosts the MatLAB license server for the entire Campus Network. Apart from these, the Ground Floor of CCC houses (i) The HPC cluster being installed and commissioned and (ii) The 150 Node Skill Development Centre established by the NITK Alumni. The first floor hall of CCC with about 90 Desktop computers is available for general purpose computing & browsing. The computers of CCC are used to support First year Computational Practice Labs, General Purpose Learning & Internet access, On-Line tests (Training & Placement) & Various co-curricular and other student activities.

The network infrastructure facility management of NITK is outsourced. Comprehensive onsite AMC is available for the Network switches. There is a helpdesk number 0824 2473085. There is also a rate contract with the firm to facilitate any immediate need of network alterations within a limit. The process of identifying the Facility Manager is underway.

The facility has a 200KVA Diesel generator that was established in 1994 and two 20KVA and one 15 KVA online UPS systems procured later for providing backup power during the changeover. Two 15 KVA UPS systems provide the power backup to the CCC LAN. This is being reassessed to accommodate the needs of the HPC Cluster, Skill Developed Centre and the New devices of the Data Centre.

**Infrastructure Development**

- Expansion to the Network and Campus WiFi is completed in 2016 at a total cost of about Rs 6.78 crores.
- The Wi-Fi network is provided as an extension of the wired networks in the different buildings. The WiFi expansion is carried out with 744 Ruckus R500 Indoor access points, 40 Ruckus T300 Outdoor access points, 5 Ruckus H500 wall switches, 89 Netgear 24 port 10/100/1000Mbps PoE switch with 4 SFP ports and other active and passive network components.
- For General purpose Internet access, to meet the demands of the users, an additional bandwidth of 1 Gbps is procured from BSNL at an annual cost of Rs 82.46 lakhs.
- Data Centre is upgraded with the following equipments
  a) Virtual Cluster Switch: This consists of two Brocade VDX 8770-8 (each with 48x 10G SFP+, 48 x 10G copper and 12x 40G QSFP) and one Brocade VDX 6740T-56-1G-F server farm switch
  b) 2X10G and 8 Nos. of Brocade ICX7250-24-2X10G as building
backbones with 10G uplinks to the core switch
c) Two Nos. of Sophos XG750 firewalls in HA mode with VPN Facility.
d) Campus Wi-Fi Controller Ruckus SmartZone 100

The expanded network including the Core Switches, Firewall, Backbone switches and the Campus Wi-Fi equipments are under warranty and maintenance of BSNL for 5 years. An HPC cluster is installed in the CCC Premises. This is connected to the core network and available to the entire Campus Network.

**Notable Achievements during the year**
- Upgrading the Academic Backbone to 10Gbps
- Expanding the Campus WiFi and Upgraded Core Network
- Establishing the HPC Cluster
- Web servers Procurement
- Zimbra based Email services (@nitk.ac.in)
- Upgrading the servers

**Additions to the Building Infrastructure**
i. Expansion of the area of the Data Centre and relocation of Precision ACs for the Data Centre
ii. All UPS s moved to a single location to make the maintenance easier
iii. Re organisation of the First Floor Lab
iv. Reassessment and Improvement on the Power Backup and Air conditioning.

**List of Laboratories in the Department**
1. CCC LAN with 90 Desktops
2. Skill Development Centre with 150 Thin clients supported by a Server for Virtual Desktop
3. HPC Cluster made available to all
4. General Purpose Servers in the Data Centre and Virtual Servers on demand.

### 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 1,34,290 including Book-Bank books, online e-Books subscribes 249 print journals for all the disciplines. We have access to 8000 plus online Journals through INDEST. This year we have purchased 410 online full text journals from Taylor & Francis Database Vendors. The total area is 2758.56sq.meters including the extended floors as an additional space for reading hall. The Central Library has received “Highest User Award for IEL online (IEE Explore)” in 2014 amongst INDEST-AICTE Consortium Level 2 member’s category.

Library space and ambience, timings and usage, availability of a qualified librarian and other staff, library automation, online access, networking, etc.

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carpet area of library (in m²)</td>
<td>2758.56sqm</td>
</tr>
<tr>
<td>Reading space (in m²)</td>
<td>1800</td>
</tr>
<tr>
<td>Number of seats in reading space</td>
<td>500</td>
</tr>
<tr>
<td>Number of users (issue book) per day</td>
<td>600</td>
</tr>
<tr>
<td>Number of users (reading space) per day</td>
<td>1000</td>
</tr>
</tbody>
</table>
Timings: During working day, weekend, and vacation

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</thead>
<tbody>
<tr>
<td>Monday to Saturday</td>
<td>8.00 a.m. to 12.00 midnight</td>
</tr>
<tr>
<td>Sunday</td>
<td>8.00 a.m. to 4.00 p.m.</td>
</tr>
<tr>
<td>General Holidays:</td>
<td>9.00 a.m. to 12.00 noon and vacation</td>
</tr>
<tr>
<td></td>
<td>8.45 a.m. to 5.30 p.m.</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Number of library staff</th>
<th>14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of library staff with degree in Library</td>
<td>3</td>
</tr>
<tr>
<td>Management Computerization for search, indexing, issue/return records Bar coding used</td>
<td>YES</td>
</tr>
</tbody>
</table>

1. Genesis and Growth:
NITK Central Library established in the year 1960 is provided with modern facilities and offers automated library services to its clientele comprising of about 6000 users namely undergraduate and postgraduate students, research scholars, faculty members and supporting staff of various departments of the institute. NITK library also gives the facility of institution membership to educational institutes and industries located in and around Mangalore. This Library is located in an independent building with a carpet area of 2759 sq meters in the centre of the Campus and it can accommodate more than 500 students/users at a time. At present, the library has a collection of around 1,34,290 books besides subscribing to around 249 National and International Print Journals.

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

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

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

5. Digital Library:

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

Some of the services available in the Digital Library are:

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

6. Book-Bank:

General Book-Bank for all students consists of multiple copies of textbooks. The books are lent to all students for home reading for 30 days. Every year multiple copies are added to the Book-Bank. In addition to this, there is a separate Book-Bank facility for SC/ST students also. There are 30,049 books available in all branches in Book-Banks of this Library. Automation of Book-Bank book is completed and the circulation of books is being done by using BARCODE System.

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

The following facilities have already been introduced in the Library:

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

Borrowing Privileges and Renewal:

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

Books may be renewed for further period provided no other reader has reserved for the book. The renewal request should come, before the expiry of due date. No more than three consecutive renewals shall be allowed. Librarian in the interest of the library service can demand the return of any library materials from any user before expiring the due date. Students have to return the books on or before the due date. A fine of Rs.0.50 per book per day will be levied, if the books are not returned within the expiry date.

Services provided by the Library:

- Open Access System
- New arrivals list
- News paper clipping display
• Selective dissemination of information and current awareness service (SDI and CAS)
• Book-Bank facility
• Digital Library
• Inter library loan of books
• Reprographic services
• On-line public access catalogues
• CD-Rom data base access
• Compilation of bibliography on selected topics
• Practical and Apprenticeship training for diploma and degree student of Library and Information Science
• On-Line information retrieval through DELNET
• E-journals through INDEST Consortium.

Other Activities:

For fresher of U.G. and P.G. courses, Library conducted orientation classes in the beginning of the academic year.

The Library is publishing list of “New Arrivals” Bimonthly & sending the same to all Faculty members through e-mail.

The Library provides practical training to the Diploma students of Library Science from the Government Polytechnic for Women, Mangalore and Apprentice Training programme is also conducting.

Library is also providing the SDI Service (Selective Dissemination of Information) on the various on-going Research Projects sponsored by the NITK, D.S.T., C.S.I.R. and other Research Organization etc. Under-Graduates, Post-Graduates and Research Scholars are also making use of these services for their project works. Seminars and Information Retrieval Services by using Computer.

Services to Industries, Educational Institutions, Government, Establishments, the neighboring Govt. Departments, Educational Institutions and Industries are using this Library services quite often.

Membership fee of Rs.10,000/- (5 cards) introduced to the industries and several industries are members to this Library.

The Library has an Inter Library Loan facility with leading Institutions and G.O.I. Establishment.

Member of National Information Center for Machine Tools and Production Engineering (NICMAP), CMTI, Bangalore.

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

The Central Library is a member of NIT- Consortium. It subscribes full text resources of Taylor & Francis e-journals.

Research Publications

Dr. Mallikarjun Angadi, Librarian

Conference (International)

<table>
<thead>
<tr>
<th>Title of paper</th>
<th>Conference Name, Place, Dates, Page Nos.</th>
<th>Author(s)</th>
</tr>
</thead>
</table>
11.4 LABORATORIES

DEPARTMENT OF APPLIED MECHANICS AND HYDRAULICS

Hydraulics Laboratory: - Flow Measuring Units, Pumps, Water meters, Calibration Devices, Hydraulic Machines, Pressure Gauges, Valves, Tilting flume, Pipe bursting unit, Ultrasound flow meter, Basic Hydrology Unit.

Strength of Materials Laboratory: - U.T.M 5 T, 40 T, 100 T, 200 T (Electronic), Hardness Testing M/c, Torsion Testing M/c.


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

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


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<thead>
<tr>
<th>Title of paper</th>
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<tr>
<th>Title of paper</th>
<th>Conference Name, Place, Dates, Page Nos.</th>
<th>Author(s)</th>
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<tbody>
<tr>
<td>Quick Response (QR) Codes in Libraries: Case study on the use of QR codes in the Central Library, NITK</td>
<td>National Conference on “PROFESSIONALISM IN LIBRARY AND INFORMATION SERVICES FOR USER EMPOWERMENT: OPPORTUNITIES AND CHALLENGES”(PR OFUSE 2017) At: Mangalore University, Mangalore, April 27 - 28, 2017, pp. 144-151</td>
<td>Iranna M. Shettar</td>
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<th>Conference Name, Place, Dates, Page Nos.</th>
<th>Author(s)</th>
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<tbody>
<tr>
<td>LABORATORIES</td>
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<tr>
<td></td>
<td>Hydraulics Laboratory: - Flow Measuring Units, Pumps, Water meters, Calibration Devices, Hydraulic Machines, Pressure Gauges, Valves, Tilting flume, Pipe bursting unit, Ultrasound flow meter, Basic Hydrology Unit.</td>
<td></td>
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<tr>
<td></td>
<td>Strength of Materials Laboratory: - U.T.M 5 T, 40 T, 100 T, 200 T (Electronic), Hardness Testing M/c, Torsion Testing M/c.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wave Mechanics Laboratory: - Regular Wave Flume [50 X 0.71 X 1.1 m] – 2 No.s, Digital Storage Oscilloscope with software, Wave probe with software, Total station.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hydraulic measurement Laboratory: - Ultrasonic Testing Kit, Pen Type pH meter, TDS meter, Electronic Balance, Conductivity meter, Turbidity meter, Spectrophotometer.</td>
<td></td>
</tr>
</tbody>
</table>
Computer Laboratory:
- Computer systems: 15 No.s
- Mike 21 software
- Scanner, Laser printer
- SVSS Software

DEPARTMENT OF CHEMICAL ENGINEERING:

Testing Lab:

Project Lab I:
- Refrigerated Centrifuge, Digital pH meter, Rotary shaker – Lead, Ultra Sonic water Bath, Quartz Immersion well Reactor, Muffle furnace Digital, Peristaltic pump Ultra, Ultrasonic Sonicator, Electro Spinning equipment, UV Ozone Cleaner, Online UPS 5KVA

PROJECT I A:
- Continuous homogeniser & homogeniser, Ultra Sonicator, Dosage Pump

Mass Transfer Lab:

Project Lab II:
- Bench Top Fermentor, Horizontal laminar flow work station, Gel document, Refracted heating bath, Thermo spectro photo meter, Eppendorf centrifuge, Particle Size Analyser

COMPUTER LAB:
- Hot Air Oven, Pressure gauge tester, Microscope Camera, High Pressure high temperature gas liquid phase, Incubator - shaker Lead, Fire extinguisher CO2, Microprocessor – trainer, BOD Incubator, Air Pre heater, Pyrolytic Reactor

Project Lab III:
- Deep Freezer, Programme Temperature Control System, Freeze Dryer, Centrifuge, Hitachi spec Uv solid sampler attached to Hitachi, Minispin centrifuge, Microscope, Analytical Weighing Balance Wensar, Eppendroff centrifuge

HEAT TRANSFER LAB:

PROJECT LAB IV:
- Electric oven - with forced air supply, Ultra Sonic water bath, Auto clave with Teflon liner, Balance - electronic Shimadzu, RCT Basic safety Control Magnetic stirrer, Stirred Cell Membrane Unit, U V Irradiated membrane filtration Unit.

PROJECT LAB V DG ROOM:
- Flash point apparatus, Viscometer - (Redwood & say bolt), Eddy current drive with motor & accessories, Ozone Generator-L4g, Conductivity Meter – Matrix, Jacketed vessels, Generator - 10 KVA, Ozone Monitor/TLA

70


DST - FIST LABORATORY: GEL Documentation, TG-DTA 6300( Thermo gravimetric Analyser, HPLC, ELS II Detector HPLC, LC -MS Systems & Accessories, ICP –OES, FPLC System


Draft Tray Dryer, Diffusivity Measurement, Counter current leaching, Cross current leaching, Steam Distillation, Vapor liquid equilibrium, Surface evaporation, Liquid Extraction in Packed Bed.

**PROCESS CONTROL & REACTION ENGG:** Batch reactor, RTD in tubes plug flow reactor, RTD in packed bed, RTD in CSTR, Reactor combination of PFR and CSTR, Magnet pump, Multi range conductivity meter, Digital online, Process control loop trainers, Non-inracting tank, Time constant of Pressure Vessel & mercury meter, Constant temperature bath.


**FLUIED LAB:** Flow through pipes and fittings, Flow through office meter, Flow through rotameter, Flow through fluidized bed, Flow through Packed bed, Flow through venturi meter, Flow through Notches, Flow through coils, Characteristics of a centrifugal pump, Pitot tube, Open orifice, Annulus.

**PARTICULATE TECHNOLOGY LABORATORY:** Rotary high vacuum pump, Balance - electronic, Ball mill, Vacuum pump, Seive Shaking Machine, Garden shredder, Screen effectiveness, Air permeability, Jaw crusher, Air elutriation, Batch sedimentation, Leaf filter, Drop weight crusher, Attrition mill, Jaw Crusher, Vibrator

**DEPARTMENT OF CIVIL ENGINEERING**

Civil Engineering Material Testing Laboratory:-3000 kN Compression Testing Machines, Vibrating Tables, Concrete Flexure Testing Machine, Vee-Bee Test Apparatus, Rebound Hammer, Tile Testing Machine, Compaction Factor Test Apparatus, Los Angeles Abrasion Test set-up, Deep Freezers, Pelletizer,

Earthquake Engineering Laboratory:-
Accelerometers, Mini Shake Table to test Models of Beams & Buildings, Soil-Structure Interaction Study system (?) . Computational facility for seismic response simulation and dynamic soil-structure interaction studies

Environmental Engineering Laboratory:-
UV Spectrophotometer, High Volume Air Sampler, Voltametry, Gas Chromatograph, HPLC, Ion selective electrode meter, Kjeldahl nitrogen distillation apparatus, Flame Photometer

Geotechnical Laboratory:- Tri-axial loading facility, Rock cutting facility, Nuclear Density Gauge, Permeability Test apparatus.

Transportation Engineering Laboratory:- 50 kN and 20 kN Fatigue Testing Machines Gyratory Compactor, Immersion Wheel Tracking Device, Modified Marshall Test Setup Pavement Core Drilling Device, Portable Pendulum Type Skid Resistance Tester, Portable Axle Load Weighing Pads, Portable Falling weight deflectometer & Ground Probing, Radar (MHRD-TAT Project), Mini ROMDAS Asphalt Mixers of Capacity 5 litre and 20 litre, capacity, Asphalt Theoretical
Density Tester, Wheel Rut Shaper and Wheel Rut Tester

**Structures Laboratory:** - 2000 kN-Compression Testing Machine, In-situ Ion Migration Tester, Muffle Furnace, Column Testing Machine, Vibrating Tables, Loading Frames- 2 No, RCPT Test Apparatus - 2 sets, Corrosion Monitoring Unit, Accelerated Curing Tank, Humidity and Temperature Controlled Chamber

**Survey Stores:** - Total Station, Auto Levels, Theodolites, Dumpy Levels

**Advanced Asphalt Characterisation and Rheology Laboratory:** - Modular Compact Rheometer System, Capillary Viscometer System, Brookfield Rotational Viscometer, Deep Freezing Unit, Rolling Thin Film Oven

**Computer Aided Design (CAD) Laboratory:** - 30 Computers, 2 No's 5KVA UPS Softwares

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING:**

**SYSTEMS & NETWORKS LAB:**

**ALGORITHMS LAB:**
Computers – 33 No’s. (27- Dell OptiPlex 9010DT 6-HP Prodesk 600G3MT), Printer – 01 (Cannon LBP 2900B), LAN – 100 Mbps, Wi-Fi AP – 01 (RuckusR300),

**INTEL E-COMMERCE & MULTI-CORE LAB (M.TECH (CSE)-PROJECT LAB):**
Computers – 21 Nos. (2 – Lenovo Think Centre 19 – Dell OptiPlex9010MT) Printer – 01 (HP LaserJet 1020 plus) LAN – 100 Mbps Wi-Fi AP – 01 (RuckusR300)

**INTERNET & WEB ENGINEERING LAB:**
Computers – 42No’s. (34-HP Elitedesk 800G11- Lenovo Think Centre M90 HP Prodesk 600G3 MT, Projector - 01 (EPSON X36 LCD Projector), Printer – 01 (HP LaserJet 1010), LAN – 100 Mbps, Wi-Fi AP – 01 (Ruckus R300)

**MICROPROCESSOR LAB:**
Computers – 1 Nos. (01 – Dell OptiPlex 9010), Digital IC Trainer Kit Digital IC Tester and other accessories, LAN – 100 Mbps, Wi-Fi AP – 01 (Ruckus R300)
Data Centre/IBM Open Power Lab -
Server Class System (10 Nos.) 03-Dell Power Edge T360, 01-DELL Power Edge R720, 02-DELL Power Edge R420, 01-DELL Power Edge T710, 01-DELL Power Edge R730, 02-IBM Xeon Server IBM Open Power Series System- 02-IBM p-Series Server Model 9131/52A Server class system-01-DELL Power Edge R740, 01-Super Micro Boston X86 server

DEPARTMENT OF CHEMISTRY:

Extractive :
Membrane Technology Laboratory. Surpass Electrokinetic analyzer, K-coater, Salinity testing unit, Hollow fiber spinning unit, Rotovapor

Synthetic Organic Chemistry Lab

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

High Voltage Testing Laboratory - 100 KV impulse generator, HV standard capacitor, 5 KV 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

Virtual Instrumentation Laboratory - NIDAQ systems, PXI1010 units with High Voltage measurement unit, NI-ELVIS stations, LABVIEW softwares, dSPACE 32xx rapid prototyping platform

Embedded Systems Laboratory - OSEK RTOS, KEIL RTOS, KEIL IDE for 805x, ARM, CODEWARRIOR IDE for 68HCX, TI DSC Code composer Studio for 28XX MOTOROLA, INTEL,ARM,PIC DSC/MC units

Industrial Automation Laboratory - Distributed Control Systems [YOKOGAWA CS1000], PLC ROCKWELL RSLOGIX%, ABB RTU232.

Digital System Design Lab -BASYS2 and BASYS3 kits supporting XILINX SPARTAN 2/3e FPGA, Analog Discovery 2 Kits supporting MSO Functionalities

Micro Grid Laboratory - 10 kw wind solar hybrid system (2 wind turbines of 3.2 kw each and 3.6 photovoltaic system) capable of operating in grid connected and islanding mode of operation with charge controllers and Inverter. 1.2kW fuel cell bases experimental system.

Analog Electronics Laboratory - Comprises of trainer kit based systems to understand linear and nonlinear configuration of operational amplifier (IC 741) and Timer (IC 555) based circuits

Digital Electronics Laboratory - Comprises of trainer kit based systems to understand functioning of basic and universal logic gates, Combinational circuits and sequential circuits.

Signals & Systems Laboratory - athWorks based computational platform to model and characterize the continuous and discrete time signal and system characteristics in time and frequency domain.

DSP Laboratory - On using MathWorks based computational platform to write the code and uses of Simulink to understand the application of signal transformation in linear and nonlinear mixing, in typical communication systems such as AM, FM process. Understanding of Phase look loop (PLL) functioning, Approximation of Ideal filter responses using FIR and IIR filters.

Power Systems Laboratory - Scale-down model of 4-machine power systems, NI-based ADC and DAC cards for real-time data acquisition, Industry grade packages: EMTDC/PSCAD, MATLAB, LabVIEW softwares and in house developed power system stability analysis package, MatSim.

Department of Electronics and Communication Engineering

Analog Electronics Lab: - Digital Storage Oscilloscope, Function Generator, DC Regulated Power Supply Analog/Digital IC Tester

Digital Electronics Lab: - Digital Trainer, Analog/Digital IC Tester

Integrated Electronics Lab (Research Lab for Ph. D. Students): - Workstations, Access to all design tools available in the department.

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 Equipments, 3GHz Spectrum Analyzer, RF Training Kit, RF Signal Generator, Vector Network analyzer 40GHz & Accessories, 3GHz Network Analyzer, 100MHz Mixed Signal Oscilloscope, 80MHzFunction/Arbitrary Waveform Generator, Digital Multimeter 6.5 digit Triple Output DC Regulator Power Supply, Electronic Instrumentation Training Kit, RF Tools – HFSS, CST Microwave Studio, Digital Source meter with Safety universal Test Lead kit

Software: Genesis Core Bundle License, Agilent VEE 8.5 , ADS 10 User Licence, Optsim 5 User Licence


Microprocessor & Embedded Systems Lab: - Workstations, Cadance ORCAD PSPICE A/D, PCB design tools, Matlab, Simulink, ARM based code development tools.

Network Management Lab: - Foundry N/w’s Fastlron Edge X424
**R&D Lab (Research Lab for Ph. D. Students)**: Workstations, Access to all design tools available in the department.

**Centre for Excellence for Wireless Sensor Networks**: Work stations, WSN Design kits, Qualnet SW, NETSIM SW, Sensors.

**Stochastic Modeling Imaging and Learning (SMILE) Lab**: Workstations, Access to all design tools available in the department.

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**Digital Design Lab – I**: DIGITAL IC TRAINER Model - UDT 4004-20, DIGITAL IC TESTER MME-DIT 2040-1

**Digital Design Lab – II**: DIGITAL IC TRAINER Model - ML 555T-20, DIGITAL IC TESTER MME-DIT 2040-1

**Research Laboratory**: HP Compaq 8200 Elite MT PC-1, HP Compaq 8300 Elite MT PC-5, HP Compaq 8100 Elite MT PC-2, Dell Optiplex 9020 MT core i7-3, HP xw4400 workstation-2, Lenovo Workstation E-1225V5, Dell PowerEdge R730 2U Rack Mount Server-1, C-Netgear RN626X Ready NAS

**Internet Technology Laboratory**: HP Compaq 8200 Elite MT PC-1, HP Compaq 8300 Elite MT PC-4, Dell 9010 DT-26761536 optiplex M-1, Dell Optiplex 9020 MT core i7-2, HP Z800 Workstation SGH030TDHR (GPU Computing Server)-1, Dell Power Edge R730XD 2U Rack Mount Server-1

**Virtualization Lab**: N Computing L300 Clients -18

**Post Graduate Lab – I**: HP Compaq 8100 Elite MT PC-7, HP Compaq 8200 Elite MT PC-4, HP EliteDesk 800 G1 TWR -6, Dell Optiplex 9020 MT core i7-10, Serveillance Setup, Dlink DCS 2103 CAMERADCS 2103-2

**Post Graduate Lab – II**: Desktop: HP Compaq 8300 Elite MT PC -2, HP EliteDesk 800 G1 TWR -2, N Computing L300 Clients -2, Cameras: Serveillance Setup, Dlink DCS 2103 CAMERADCS 2103-2

**Project Laboratory**: Desktop: Dell Optiplex 9020 MT core i7-9, HP EliteDesk 800 G1 TWR -1, HP Compaq 8100 Elite MT PC-10, HP Compaq 8200 Elite MT PC-3, Lenovo Think M90(5498-PR1)-3, HP Compaq dc 7900 Convertible Minitor -3 HP Compaq dx 2700 MT PC-1, IBM Thinkcenter (IBM, 8116A11)-1, Workstations: Dell Precision T1700-3

**Undergraduate Lab – I**: Desktop: Lenovo Think M90(5498-PR1)-56, HP Compaq dc 7900 Convertible Minitor -4, HP Compaq 8200 Elite MT PC-2, HP Compaq 8100 Elite MT PC-4, HP compaq dc 2700-1, IBM Thinkcentre-2, HP compaq xw4400 Workstation-1, 8841 45A IBM e server x236(99KYD74)-1, DL160 G6 E5504 HOT PL UG SERVER -1, AH234 A HP RX2660 SERVER (intergrity server)-1, Brand Connol Mode Ntpsc T7025 Fermi-1, Surveillance Setup, Dlink DCS 2103 CAMERADCS 2103-3MIC Systems: KQ-SRS-1112 Infrared Sound Field Reinforcement System-1

1. **Undergraduate Lab - II**: Desktop: HP Compaq 8200 Elite MT PC-24, HP Compaq 8300 Elite MT PC-16, HP Compaq 8300 Elite Small Form Factor-1, HP Compaq 8100 Elite MT PC-3, HP Elite Desk 800 G1 TWR -4, HP Compaq dc 7900 Convertible Minitor –1

**DEPARTMENT OF MATHEMATICAL & COMPUTATIONAL SCIENCES**

Ground Floor - 49 Intel i7 Desktop with 8 GB RAM with dual OS
1st Floor - 40 Intel i7 Desktop with 8 GB RAM with dual OS 22 Intel i7 Desktop with 3 GB RAM with Ubuntu
2nd Floor (Software Development center) - 30 Intel i7 Desktop with 8 GB RAM with dual OS
Project Lab (1st Floor) - 19 Intel i7 Desktop with 8 GB RAM with dual OS
DEPARTMENT OF MECHANICAL ENGINEERING

Advanced Dynamics Lab: Experimental Modal Analysis, Forced Vibration Analysis, Tuned Impulse Hammer, Minishaker with controller, Modal Analysis Software

Wind tunnel laboratory: subsonic wind tunnel, force balance

Advanced Manufacturing Laboratory: 3-D Printing, Fused Deposition Modeling based 3-D Printer, Material Extrusion, Single Screw Extruder

Smart structures laboratory: Free and forced vibration setup with controller, Impact hammer, Tri-axial accelerometer, Electrodynamical shaker, Analyzer, closed loop controller, force sensor, impedance head

Refrigeration and Air-conditioning Research Laboratory: Micro heat pipe test rig, Vapour pressure determination test rig, Thermoelectric refrigeration test rig, Condenser pressure variation VCR test rig, Vortex tube refrigeration test rig, Air engine test rig, Weather simulation chamber & Window air conditioner test rig, two Stage VCR test rig with intercooler.

Turbomachinery Laboratory: Low speed compressor cascade test facility, Low speed turbine cascade test facility, Centrifugal blower test rig.

Polymer composites lab: vartm facility Advanced fluid mechanics Lab: Desiccant analysis test rig.

Tribology Laboratory: Metallurgical Sample Saw, High Temperature Tubular furnace, Ball mill, Disc Polishing Machine, Microscope, Pin on Disc Tribometer.

1. List of Software in CAD/CAM Laboratory:
   - Pro Engineer CREO 50 Users
   - Autocad 50 Users
   - Ansys15.0 25 Users
   - AnsysV10.0 10 Users
   - MSCAdams 50 Users
   - MSCatran 50 Users
   - MScatran 50 Users
   - MSCMarc 50 Users
   - MScytran 50 Users
   - CatiaP3 10 Users
   - CATIANovia 05 Users
   - CATIADelmi 05 Users
   - CATIAPLMEExpress 05 Users
   - LMS AMESim (Multi-domain system Simulation) 05 users
   - Unigraphics with AdvancedbMachining Module 05 Users
   - Deform (Design Environment for FORMing 01 User
   - AutodeskMoldflow 25 Users
   - SimPACK (MBD Software) 25 Users
   - MasterCAM 02 Users
   - HyperWorks 05 Users
   - RobotKit 02 Nos.


Vibration and Condition Monitoring Laboratory: Electromagnetic shaker (100kgf, 50kgf, 25kgf), Horizontal slip table, VTS electro-dynamic shaker (25lbs), Gauss meter, Electro magnets (1.5 Tesla), Impact hammer, Single and tri-axial accelerometers, Data acquisition system (NI, HBM), Microphone and SLM, MicroEpsilon Laser displacement pickups, ADAMS, NA STRAN, PATRON, MARC, DITRON, ANSYS, Devitron, Labview.

Robotics Laboratory: Lego Robotic Kit, Firebird, Basic Electronic Components, DC Motors, Connecting Pins, Wires, LEDs Berg Strip, and Bread Board, Quadcopter kit, Wall Following Robot.
**Metrology Laboratory:**

A. Linear Measurements
1. Vernier Caliper
2. Vernier Depth Gauge
3. Vernier Height Gauge

B. Micrometer
4. External Micrometer
5. Internal Micrometer
A. Jaw Type Inside Micrometer
B. Caliper Type Inside Micrometer
6. Depth Micrometer
7. Bench Micrometer
8. Digital Micrometer
9. Telescopic Gauge

C. Measurement Using Slip Gauge
10. Calibration of Micrometer, Vernier Caliper,
12. Measurement of Mean Distance between Surface and Spacing between Holes.
15. Study On Limit And Position Gauges

D. Linear and Angle Measurement
16. Combination Set.

E. Angle Measurement
17. Universal Bevel Protractor
18. Sine Bar

F. Flatness And Straightness Measurement
19. Clinometer

G. Screw Thread Measurement
20. Screw Pitch Gauge
21. Screw Thread Micrometer
22. Effective Diameter
   Measurement Using Two Wire And Three Wire Method.

H. Gear Tooth Measurement
23. Vernier Gear Tooth Caliper
24. Tooth Span Micrometer
   I. Study On Opto-Mechanical Instruments
25. Tool Makers Microscope
26. Measurement Using Comparator

J. Surface Roughness Measurement
27. Surface Roughness Meter (SJ 301)

**Microsystems Laboratory:** MEMS Sensors Scanning Tunneling Microscope, Self Build Kit, Atomic Force Microscope, Comsol and Intellisuite (Courtesy : NMDC), Sugar Toolbox and MATLAB (Institute Network)


**Machine Dynamics and Vibration Laboratory:** Kinematics of Epicyclic Gear, Kinematics of Cam Mechanism, Kinematics of Gear Train, Kinematics of Slider Crank Mechanism, Spring Mass System, Transmissibility Apparatus, Free Vibration of beam, Experimental Modal Analysis.

**CNC, Pneumatic and Electro Pneumatic Laboratory:** Trainer Lathe, Trainer Milling Machine, Electro Pneumatic Trainer Kit with Cylinders and Control valves
IC Engine Research Laboratory:
MMM Vertical 4-Stroke Diesel Engine,

Fuels Laboratory: Boys gas Calorimeter set (Calorimeter+ gas flow meter (0-1000ml), Redwood viscometer No.1, Saybolt Viscometer, TAR Viscometer (Redwood viscometer No.2, Instech Calorimeter), Flash point tester (Close-up), Barometer with room temperature no.597, Digital weighing machine (0-10 grams), Saybolt Viscometer (old), Bomb Calorimeter, Cleveland Flash & fire point apparatus, Weighing machine (0-2 kg).

Theory of Machines Laboratory: Spring mass system, Whirling shaft apparatus, Motorised gyroscope apparatus, Digital weighing machine (0-50kgs), Physical balance, Dead weight tester (0-35kgs), Digital dead weight tester (0-60kgs), Digital dead weight tester (0-250kgs), Planimeter set, Thermo Hygrograph H-10/100%, Computerised Emission test set up, Single stage spur gear, Single stage spur gear with intermediate, Two stage spur gear, Three stage spur gear, Three speed and reverse gear, Worm gear, Bevel gear, Rack and quadrant gear drive, Reversing gear, Epicyclic gear (sun & planet), Cycloidal motion, Internal rolling gear drive, Internal gear and pinion drive spur gear.

Automotive Electronics Laboratory: IRIS CAR (Lab Car), with Breakout box, ECU, Injector Box, Wire harness, Communication Module, DC Power Supply, Function Generator, Oscilloscope, Cut Section Models.

Stress Analysis Laboratory
Poloriscope, Strain measurement setup
Fracture and Fatigue Laboratory
Fatigue setup

DEPARTMENT OF MINING ENGINEERING:-

Rock Mechanics Laboratory: Rock cutting machine, Compression testing machine, Schimidit hammer, Digital inclinometer, Core drilling machine, other rock cutting facilities, Ground Penetration Radar (GPR), Related Software (Fraglyst, Sirrovision and numerical modeling software).

Drilling and Blasting Laboratory: Minimates, Minimate plus, High speed video camera, VOD monitor, Laser profile, WIPFRAG software, Jack hammer drilling set up, Air compressor, Modified lathe machine for rock cutting, Manometer, Crossing point temperature, Digital Methanometer, CO detector, Psychomotor and etc.

Mine Environmental Engineering Laboratory: Water pollution monitoring kit, Respirable dust sampler, Sound level meter, Gas testing set up, Exhaust gas analyzer, Multi gas detector


Mine Surveying Laboratory: Prismatic Compass, Surveyor Compass, Vernier Theodolite, Micro-Optic Theodolite, Dumpy level, Auto level, Digital level, Total station, Handheld GPS, DGPS.

Mine Planning and Design Laboratory: D-link manageable switch, HP 3200 A4 scanner, HP 1010/1015 Laser printer, HP plotter, Surpac Mine Planning Software, Reliability software, Sirovision software J K Sim blast software, Mine Pollution Laboratory: Merc SQ118 water quality analyzer, High volume air sampler, Respirable dust sampler, Sound level meter, Opacity meter, Point sampler, Beta attenuation meter, Weather monitoring station.

DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

Extractive Metallurgy Lab: Crushers, Ball mill, Floatation cells, C&S analyzer, Sieve analyzer

Testing of Materials Lab: UTM, Instron, Wear testing machine, Hardness testers, NDT, Fatigue testing machine

Physical Metallurgy Lab: Metallography, Microhardness, Image Analyser, Dilatometer

Ceramics & Polymer Lab: Ceramics & Polymer Lab

Heat treatment Lab: Heat treatment furnaces, Thermal cycle furnaces

Metal Finishing Lab: Plating

facilities

Foundry lab: Induction furnace, Permeability meter

Scanning Electron Microscope Lab: Scanning Electron Microscope with EDAX

Casting Research Lab: Data logger, Hot stage microscope, Contact Angle Analyser, Image analyzer, Instron tensile tester, Quenchometer, Stereo microscope, 2D Surface Profiler, Solid Cast Software, Ultrasoundator, Ultrasound velocity meter, Thermal property analyser, DAGE bond tester


Transmission Electron Microscope Lab: Transmission electron microscope, GATAN ion milling unit.

Metal Processing Lab: Rolling mill, Precision cutting machines, 250 ton Hydraulic press

Corrosion Lab: Potentiostat and Impedance analyser

Coating lab: PVD facility, electron beam deposition set up. DC sputtering setup

FTIR Lab: FTIR Spectrometer, Four robe resistivity measurement system, USB Oscilloscope

XRD Lab: X-ray Diffractometer

Ceramic & Thin Film Lab: UV Ozone Cleaner, Ultrasonic Atomizer, Scratch Tester, Spi Coater, Probe Sonicator, Vacuum Oven, Screen Printer, Stretching Machine with Compressor, Four Probe & Two Probe, Glass Cutter, Fume Hood.
**DEPARTMENT OF PHYSICS:**

Thin Films Lab:- X-Ray diffractometer, Keithley Source Meter, Keithley Multimeter Sputtering Unit, Physical Deposition Unit Spray Pyrolysis Unit, LCR Meter, Vacuum coating system.

Optoelectronics Lab: Ocean Optics Inc SD2000 spectrometer, Thermal evaporator, Keithley Source Meter (model 2400). Jobin Yvon spectrometer with a CCD based detector, Keithley 6485 Picoammeter, Agilent E4980A Precision LCR meter 20 Hz to 2MHz.

Crystal Growth & Nano materials Lab :- Solution growth system for crystal growth, High temperature furnace, Magnetron sputtering system, Thin film coating unit, Fume Hood, Vacuum deposition system, Thermal, DC, RF coating system.


Materials Research Lab:- Electrochemical Workstation, Mbraun Glove Box, Neware battery analyzer, Keihly 2 probe and 4 probe measurement systems, Ocean Optics UV-Vis spectrometer, DC Spectrum Analyzer, Muffle Furnace, Weighing Balance Battery Crimper set up, Sputtering Unit, Spin Coater, Spray Pyrolysis unit, Vacuum Oven, Hot air oven.

Advanced Instrumentation Lab:- X-ray Diffractometer, Photoluminescence, Spectrometer

Computational Physics Lab:- Power Edge Dell Server

Functional Nanostructured Materials Research Lab:- Hot air oven, Bench-Top Centrifuge, Weighing Balance (0.1mg precision), Photocatalytic reaction chamber Ultrasonicator.

**SCHOOL OF MANAGEMENT:**

Computer laboratory:- SPSS, Palisade Decision Tools Suite, CMIE Prowess Database, CRISIL Research Reports

Itell Language Laboratory:- Software from Logitech Solutions Itell catering 500+1 user

**11.5 WORKSHOPS**

**DEPARTMENT OF APPLIED MECHANICS AND HYDRAULICS:**

Departmental mini workshop : Lathe, shearing machine, drilling machine. Grinding machine

**DEPARTMENT OF CIVIL ENGINEERING**

Civil Engineering Department Workshop:- A Lathe, A Shearing Machine, Electrically, operated Power Saw, and Welding, Transformer

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

Electrical Department Workshop - Lathe, Drilling And Welding Machines Along With Work Bench And Other Machine Tool Facilities

**DEPARTMENT OF MECHANICAL ENGINEERING**

Machine Shop - I: Center Lathe, Heavy duty Center Lathe Geared head Center Lathe, Shaping machine, Universal Milling Machine, Heavy duty pillar type drilling machine, Light duty pillar type drilling machine, Pedestal grinding machine, Capston Lathe.

Machine Shop - II: Surface Grinding Machine, Cylindrical Grinding Machine, Capstan

**Carpentry Shop:** Wood turning lathe, Circular saw, Carpentry bench vise and table

**Fitting Shop:** Bench vise with table, Surface plate, Anvil Power Tool, Drilling set and accessories, Saber saw, Jig saw, Hot air gun, Tappers, Nibbler, Shearing machine, Grinding machine, Circular saw, Impact wrench, Battery operated drill, Blower, Eccentric sander, Router machine, Wood planner, Jig saw, Hammer drilling, Core cutter drilling machine

**Sheet Metal Shop:** Soldering table, Bench vise, Shearing machine

**11.6 HOSPITAL, POST OFFICE, SHOPPING CENTRE**

**Hospital:** One Health Care Center with the services of regular doctors and visiting expert doctors is available. Medical Shop is also available in the Health Care Center.

**Post Office:** Post Office is available within the Campus.

**Banks:** Two banks (SBI and Canara Bank) are functioning within the Campus. Four ATMs (2 of SBI and 2 of Canara bank) are available at different locations within the campus.

**Shopping Centers:** Two Shopping Complexes are available within the campus accommodating about 15 shopping rooms which includes Saloon, Beauty Parlors, Printing and Xerox, Vegetable outlet, Bakery, Tailoring, Cloth Shop, Milk parlors, food outlets etc.

**Physical education & Facilities:** Full-fledged Gymnasium facility, sports grounds for out-door games, Sports complex for in-door games are available within the campus.

**11.7 PHYSICAL EDUCATION FACILITIES**

**FACILITIES/AMENITIES:**

Department of Physical Education and Sports of this Institute has got excellent Sports infrastructures and facilities provided here is considered as one of the best among all NITs as well as among other Institutions and Universities of this State. Standard, well maintained play fields for all major games like one 400Mts. Track for Athletics, One 75 Yards Boundary Cricket field with 3 playing pitches, One 70 yards boundary Cricket field with a matting wicket, 2 standard size Football fields, 2 Hockey fields with 2 pairs of goalposts with boards, 2 concrete Basketball courts with FG boards and Flood Light facilities, 1 Basketball concrete court at Girls Hostel with flood lights, 2 Volleyball courts with flood light facility, 4 Tennis courts, 2 Ball Badminton, 2 Throwball, 2 Kho-Kho, 2 Kabaddi, 2 Tennikoit courts are available for use. Provision is also there to put Two Handball court with goal posts and one Baseball field with all Bases and other required amenities. An indoor hall with 3 Badminton courts and 4 TT tables with proper Lighting system, kept open for 15 hours a day, all 365 days 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 are open for use of everyone even during early
mornings and late evenings. Above all these, like a jewel on the Crown an international standard Swimming Pool of 50 x 21 Mts., 8 lane with anti wave lane markers, Olympic type take off boards and diving facilities with 3 Platforms of 1, 3 and 5 meters height as well as a Fiberglass Spring Board fixed at 1 Meter height is ready for use in this Institute.

**GAMES & SPORTS FACILITIES:**

All students, staffs and residents in and around the campus are freely permitted to utilize all Play ground and Gym facilities available in the Institute. Admission to Swimming Pool is free to all students of this Institute. Staffs, residents of the Campus, family members of the staff and staff + students of the campus schools are charged with nominal fee to use the Pool. High quality and standard Sports/Games equipments/articles are provided to students and staffs of this Institute who use these play field facilities, except some personal articles like Tennis, Shuttle Badminton and TT Rackets. Opportunity to all students, staffs and other residents of the campus have been provided to participate in different level of competitive Sports and Games, by organizing Inter-Class, Inter-Branch, Inter Year and Campus open tournaments(Competitions) in all most all games for both sections. Girls Block Hostel has been provided with a Basketball, Volleyball, Tennikoit, Kho-Kho, and Badminton courts, 2 TT Tables, 4 Carom Boards and Gym with some fitness equipments including a Mini Gym. Arrangements have been made to provide TT Tables, Carrom Boards and a set of Cricket stumps and Bats to each Blocks of Boys Hostels. Volleyball, Throw ball and Badminton courts have been laid near Staff Recreation Club for the use of staff members. TT, carom and Chess like indoor games with required sports articles were also provided for staff club.

All those who get selected to represent the Institution and participate in any of the tournament will be provided with Institute Uniforms (Colors) and all expenditures during participation of that team will be met by the Institute. In addition, Football and Hockey team members will be provided with Stockings and Shin Guards, Cricket team members will be provided with white Pants, Shirts and Caps. 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.800-00 per year.
11.8 STAFF QUARTERS

Staff quarters: 197 numbers of Faculty and 120 numbers of Non-faculty staff quarters are available in the Campus.

12 STUDENT ACTIVITIES

STUDENTS UNION

Election to the Students' Union of the Institute was held on 10.4.2017 and the following office bearers were elected:
Tanuj Kumar Kadiyala – President
Gagan S – Secretary
Sai Kumar – Joint Secretary
Aishwarya Sanjeev Kumar – Girls Representative

GAMES AND SPORTS

STUDENTS ACTIVITIES:

All students, staffs and community in and around the campus are free to use the playing, training and coaching facilities available in the DPES of this Institute. Staff of the DPES are ready to provide instruction, teaching, coaching and training facilities to all interested peoples in and around the campus. This year students teams in the following games were selected by conducting selection tournament/trials and these selected teams have been trained, coached and well prepared to participate in different level tournaments. 1) Athletics, 2) Aquatics, 3) Badminton, 4) Ball Badminton, 5) Basketball, 6) Carom, 7) Chess, 8) Cricket, 9) Football, 10) Handball, 11) Hockey, 12) Kabaddi, 13) Kho-Kho, 14) Table Tennis, 15) Tennis, 16) Volleyball, and 17) Weight Lifting, Power Lifting and Body building, in Boys section, 1) Athletics, 2) Aquatics, 3) Badminton, 4) Basketball 5) Tennis, 6) Table Tennis, 7) Throwball, and 8) Volleyball, in girls section. Special coaching camps are being held by engaging qualified coaches in Athletics, Aquatics, Basketball, Football, Handball, Hockey 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 21 days duration were conducted by PED in the Institute Swimming Pool. Staff and Students of our Institution, Campus Schools and neighboring Schools and Colleges are making good use of these facilities. Since it is mandatory for students to participate in Sports and Games, arrangement is made to accommodate as many students as possible in different play fields. Instruction and proper guidance has been provided to all to enhance participation in different sports, games and Physical Fitness activities systematically and effectively.

All students are insisted to participate in any of the fitness activities of their choice regularly to maintain their Physical Fitness level. Every student is encouraged to spend at least half an hour a day in the play field playing any games of their choice as recreation. All students of this Institute are insisted to become member of the Swimming pool and attain the knowledge of water survival skill or swimming. “Learn to swim” as well as advanced swimming coaching camps are conducted to cater the needs of all students and campus people. Competitions are being conducted from the lowest level starting from, their own class/Section, inter class, inter Branch, inter year and inter collegiate level. Intra-Mural competitions in individual sports like Athletics and Aquatics were conducted by DPES and Medals, Certificates and prize money were being awarded to the winners of these competitions as a motivation. Students were allowed to participate in Taluk, District and state level open as well as inter collegiate competitions organized by other colleges, District Associations and other Government organizations. Students are permitted to participate in State and national level sports competitions organized by AIU and other neighboring institutions. All of our Institute teams
are permitted to participate in All India Inter NIT Sports organized at other NITs. Institute is regularly organizing All India Inter NIT Sports every year in some or other games. This year, All India Inter NIT in Handball, Hockey, Kabaddi and Swimming were being organized at our Institute during 12\textsuperscript{th} to 14\textsuperscript{th} January, 2018. More than 500 students from other NITs (22 Men Kabaddi teams, 8 Hockey teams, 8 Handball teams & 12 Swimming Men and Women teams) participated in this Inter NIT sports. Participants were being provided with free Boarding and Lodging facilities. During INCIDENT National level cultural Festival, DPES organized “Slam Dunk” Inter Collegiate Basketball and “Spin Shot” Inter Collegiate Throwball (Women) Tournament inviting teams from all over India. Recreation committee is conducting inter branch, inter year and inter class competitions in many games utilizing all facilities available in the DPES. Phoenix an intra mural sports competitions has been conducted in the even semester this year also.

Intra-Mural Competitions in Aquatics and Athletics conducted during the month of October, 2017 attracted large number of student participants. Prize money, Medals and Certificates were distributed to 3 place winners of each event. Institute Aquatics and Athletics teams were selected on the basis of these results.

Phoenix, a gala of sports (An Inter year competitions for students) has been conducted in the even semester and by enthusiastic huge participation, students responded overwhelmingly and spontaneously.
13 RESEARCH, DEVELOPMENT & CONSULTANCY PROJECTS

13.1 R & D PROJECTS (ONGOING & SANCTIONED)

DEPARTMENT OF APPLIED MECHANICS AND HYDRAULICS

1. Fund for Improvement of S&T Infrastructure in Universities and Higher Educational Institutions (FIST) Program – 2014 (Strengthening PG teaching and research – Spectro radiometer and Random wave generator with accessories), Sponsored by : DST, Govt. of India, Investigator(s): Subba Rao , G.S.Dwarakish, A. Mahesha, H.Ramesh, Manu & Pruthviraj U., Rs. 209.0 Lakhs, 2015-20

2. Coupled dynamic analysis associated with the response and design loads of offshore floating wind turbine, Sponsored by : SERB, DST, Govt. of India, Investigator: Debabrata Karmakar, 25.0 Lakhs, 2016-18

3. Hydrodynamic performance characteristics of Caisson type breakwater, Sponsored by : Ministry of Earth Sciences, Investigator(s) :Manu (PI), Subba Rao (Co-PI) & A.Vittal Hegde(Co-PI), 78.84 Lakhs, 2016-21

4. Optimal Damping of porous screen in Tuned Liquid Damper-Structure interaction, Sponsored by : SERB, DST, Govt. of India, Investigator :T. Nasar, 32.67 Lakhs, 2016-19

5. Climate change - Impact on West coast river basins, Sponsored by : Ministry of Water Resources Investigator(s) : Dr. A.Mahesha, Dr. Amba Shetty, Dr. Varija & Dr. H. Ramesh, 65.40 Lakhs, 2016-19


8. Effect of Frictional Heat on Coefficient of Friction during Full Slip of Al6061 T6 Hertzian Contacts, Sponsored by : Science & Engineering Research Board (SERB), DST, Investigator : Dr. Vadivuchezhian K, 27.0 Lakhs, 2018-20

DEPARTMENT CHEMICAL ENGINEERING

1. DST- FIST Level I project for Chemical Engineering Department DST FIST Implementation Team : Prof. M.B.Saidutta; Dr.Vidya Shetty K, Dr. Prasanna B D, Dr. I Regupathi, Dr. P E Jagadeeshbabu , Rs.227 lakhs.- 2014-2019

2. Development of a sustainable technology to produce oxalate depleted starch from Taro corms by AISTDF, SERB Principal Investigator: Dr. Prasanna B.D, Co-PI: Dr. Rungtiwa W (Mahidol university, Thailand) & Dr. E. Maribel Agoo (De La Salle University, Philippines); at the cost of Rs. 25.44 Lakhs (2018-2021). Sanctioned date: 01.02.2018

3. In vitro mass culture of Steinernema jeffre Tyense, a biocontrol agent against key insect pests by DST (International Division). Principal Investigator: Dr. Prasanna B.D, PI (South Africa): Dr. Antoinette P. Malan (Stellenbosch University); at the cost of Rs 27.6 Lakhs. Sanctioned date: 07.12.2016

4. Ambient airborne particulate matter: Effect of biological component on lung inflammation SERB-DST, Govt. of India. Principal Investigator: Dr. Gangamma S. at the cost of Rs 51 lakhs

5. Air pollution induced immune cell dysfunction: Implication in Viral infection (In collaboration with IISER, Bhopal, SERB-DST, Govt. of India. Principal Investigator: Dr.
1. Development of tool for detection of XML based Injection Vulnerabilities in web applications - sponsored by DIT MCIT, PI: Dr. P. Santhi Thilagam Co-PI: Dr. Alwyn Roshan Pais, at the cost of 38.16 Lakhs, 2014-2016

2. FIST Program sponsored by DS, PI: Head of the Department CSE, at the cost of 56.00 Lakhs, 2014-2018

3. Information Security Education and awareness Phase-II sponsored by DIT MCIT, PI: Dr. Alwyn Roshan Pais Co-PI: Dr. P. Santhi Thilagam, at the cost of 2.7 crore(Approx), 2015-2020

4. Design of a modular FPGA accelerated Chip Multiprocessor Architecture Simulator - sponsored by DST, PI: Dr. Basavaraj Talawar, at the cost of 26.9 Lakhs, 2016-2018

5. An automatic system for identification of phonological processes in children of age two and half to six and half years - sponsored by DST, PI: Dr. Shashidhar G. Koolagudi, Co-PI: Prof. Venkat Raja at the cost of 30.00 Lakhs, 2016-2019
6. Retinal cysts identification and quantification from low SNR optical coherence tomography scans using image processing techniques - sponsored by DST (SERB EMR grant) PI: Dr. Jeny Rajan, Co-PI: Dr. Shashidhar G Koolagudi and Dr. Abhishek Kothari at the cost of 33.5 lakhs(Approx), 2017-2019

7. Development of Tool for Detecting of Application Layer Distributed Denial of Service Attacks on Web Applications -- sponsored by MEITY Government of India, PI: Dr. P. Santhi Thilagam at the cost of 29.78 Lakhs, 2017-2019


DEPARTMENT OF CHEMISTRY

1. INSPIRE-Faculty Project, ‘Chemical fixation of carbon dioxide via transition metal catalyzed carboxylation reactions’, Dr. Beneesh P B, DST, 35 Lakh, 2016-19.


3. Towards development of Low cost, nanoporous hollow fiber membranes for Haemodialysis application, Dr A. M. Isloor, VGST, Govt of Karnataka, 60 lakh, 2015-18.


5. Dr. Sib Sankar Mal, SERB, DST, 23.55 Lakh, 2015-18.


DEPARTMENT ELECTRONICS AND COMMUNICATION ENGINEERING

1. Advanced Research Lab in RF Communications and Networks sponsored by DST, Govt. of India. Principal Investigator: Prof. Muralidhar Kulkarni and Prof. U. Shripathi Acharya; E&C Engg. at the cost of Rs. 116 Lakhs. (2016 to 2020).

2. Special Manpower Development Project on VLSI (SMDP-VLSI) phase-III – Chips-to-Systems sponsored by (DIT) MCIT, Govt. of India. Principal Investigator: Prof. Ramesh Kini M. and Prof. T. Laxminidhi; E&C Engg. at the cost of Rs. 1.6 Crores. (December 2014 to December 2019).


4. Compact multi-band antenna with independently controlled resonant frequency and polarization for mobile wireless applications sponsored by SERB-DST, Govt. of India. Principal Investigator: Dr. Krishnamoorthy K.; E&C Engg. at the cost of Rs. 44.22 lakhs. (2017 to 2020).

5. Development and real-time implementation of fully automated liver cancer detection system from H&E stained liver histopathological images sponsored by SERB-DST, Govt. of India. Principal Investigator: Dr. Shyam Lal; E&C Engg. at the cost of Rs. 10 lakhs. (2017 to 2020).

6. Automatic Multilingual Speaker Profiling & Forensics sponsored by SERB-DST, Govt. of India. Principal Investigator: Dr. Deepu Vijayasenan; E&C Engg. at the cost of Rs. 13.5 lakhs. (2017 to 2019).

7. Prognosis and diagnosis of osteoporosis and fracture risk assessment using image processing
techniques sponsored by TEQIP II. Principal Investigator: Prof. Sumam David S.; E&C Engg. at the cost of Rs. 1.35 Lakhs. (2016 to 2017).


10. Intel Embedded Initiative sponsored by Intel Corporation. Principal Investigator: Prof. Sumam David S.; E&C Engg. at the cost of Rs. 5.3 Lakhs. (2011 to continuing).

11. Designing a System to measure moisture content of Cashew seeds both raw and processed sponsored by Kalbavi Cashews, Mangalore. Principal Investigator: Prof. U. Shripathi Acharya and Prof. T. Laxminidhi; E&C Engg. at the cost of Rs. 4.00 Lakhs. (2015 to 2017).


14. Standalone Evaporative Air Cooler – Pump flow and speed controller using solar energy, Sponsored by DST, Dr.B.Venkatesaperumal & Dr.A.Karthikeyan and Dr. M Arun (Mech), Rs. 38.69 Lakhs, 2017 (2.5 years)

15. Solar water pump system, PI:Dr.B.Venkatesaperumal & Dr.A.Karthikeyan, Rs. 5 Lakhs, 2017 (1 year).


17. Two Research scholarships to investigate in the areas of i. Sensing Techniques, ii. Super-efficient Motor Control, under “Visvesvarya PhD Scheme,GOI, MCIT, DEITY.PI:
7. Establishing center of excellence (CoE) in “Renewable Energy Source integrated Smart Grid Technologies (RENEST)” Frontier Areas of Science and Technology (FAST), MHRD, GOI. PI: Prof. Panduranga Vittal K., Rs. 400 Lakhs (Sanctioned Rs. 250 Lakhs under Phase 1), 2014-2018.

8. Rainwater harvesting off the terrace of a high-raised building in coastal areas for micro-hydro power generation and utilization of rain water to augment the existing power and water supply facilities of NITK Surathkal, NITK-IRG, PI: Nagendrapa H., Rs. 5.0 Lakhs, 2017-2018.


11. Investigation on the Operation & Control of Multiple Distributed Generation resources in a Microgrid(Phase-II). Ministry of Power, Govt. of India through, Central Power Research Institute Bangalore(CPRI), Dr. D. N. Gaonkar (PI), Dr. D. Jena (co-PI), Rs. 25 Lakhs July 2016 to March 2018.


**DEPARTMENT OF INFORMATION TECHNOLOGY**

1. MIS for Academic, Administrative and Financial Activities of NITK Surathkal. Principal Investigator: Prof. G. R. M. Reddy, Prof. Ananthanarayana V S, Dr. Shyam S Kamath, Rs. 54 Lakhs, April 2017 - April 2019

2. Smart HCC: Automated Health Care Centre Activities, Principal Investigator: Prof. G. R. M. Reddy, Prof. T. P. Ashok Babu, Rs. 5.0 Lakhs June 2017 - June 2018


5. Academic Centric Student Information System - ACSIS, Principal Investigator: Prof. Ananthanarayana V.S., Rs. 53,68,000, 2016 - 18


7. A Framework for Deep Learning based Analytics for Intelligent Healthcare Applications. DST-SERB (Early Career Research Grant), Principal Investigator: Dr.
Sowmya Kamath S, Rs. 35 Lakhs, Jun 2017 - Jun 2020

DEPARTMENT MATHEMATICAL AND COMPUTATIONAL SCIENCES

1. Efficient Regularization methods for ill-posed Operator Equations and their Applications: Principal Investigator: Santhosh George, Dept. of MACS, at the cost of 18.5 lacs, Core Research Grant by SERB, Department of Science and Technology, Govt. of India, EMR/2017/001594( June 2018 to May 2021).

DEPARTMENT MECHANICAL ENGINEERING


2. Dr. Sharnappa J and Dr. Hemantha Kumar, Experimental Investigation of Passive, Semi-Active and Active Vibration Control of Composite Sandwich Structure, 2017-2020, 51.5Lakhs, DST, Govt. of India, Ongoing


4. Dr. S C Kattimani and Dr. S M Murigendrappa, Experimental characterisation and numerical modelling of delamination growth in Fiber Reinforced Polymer laminated composites under cyclic loading, 2016-2019, 2684000, DST-SERB, Ongoing

5. Dr. S M Murigendrappa And Dr. S C Kattimani, An Experimental And Theoretical Investigation On Narrow Thermal Hysteresis Of Cu-Al-Be Based Sma Actuator For Vibration Isolation, 2016-2019, 1647800, Dst-Serb, Ongoing

6. Dr. S C Kattimani, Active Vibration Control Of Laminated Composite Sandwich Plates Inhygrotehrmal Environment Using 1-3 Piezoelectric Composites, 2018-2021, 47.90lakhs, Dst-Serb, Ongoing


8. Dr. Gandham Phani Kumar (IITM), Dr. Srikanth Bontha (NITK) and Dr. Dheepa Srinivasan (GE Power) Understanding the Evolution of Residual Stress During Repair and Refurbishment of Gas Turbine Components via Laser Additive Manufacturing 2018-2020, 66 Lakhs, UchchatarAvishkar Yojana (UAY), Sanctioned

9. Dr. Mrityunjay Doddamani, Dr. Srikanth Bontha and Dr. Vamsi Krishna Balla Development of Composite Filament for Lightweight 3D Printed Components 2016-2019, 33 Lakhs, DST-TECHNOLOGY SYSTEMS DEVELOPMENT PROGRAMME (TSDP), Ongoing

10. Experimental Investigation On Pulsating Synthetic Jet Micromixers To Determine The Injection Dynamics Of Insulin In Hydrogels For Subcutaneous Drug


DEPARTMENT OF MINING ENGINEERING


DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

1. Corrosion and Impedance study of Ti-Nb alloy forms developed by PM techniques sponsored by DST-SERB, Principal Investigator: Dr. S. B. Arya, Dept. of Met & Mats. Engg. at the cost of Rs.18.81 lakhs (Period: 2015-17)

2. All solution processed transparent low temperature synthesized Indium Zinc Tin Oxide based high performance thin film transistors for active matrix displays sponsored by DST-SERB, Principal Investigator: Dr. Saumen Mandel, Dept. of Met & Mats. Engg. at the cost of Rs.21 lakhs (Period: 2016-18)


DEPARTMENT OF PHYSICS

1. DST-FIST Research facility for Physics Department, Principal Investigator: Dr. H.S. Nagaraja, Physics Department at the cost of Rs. 65 Lakhs (2013-2018)

2. DST-SERB-Si Electrodes for Li ion battery: Principal Investigators Dr. H.S. Nagaraj and Dr. Ajith K.M. Physics Department at the cost of Rs. 37 Lakhs (2015-2018)

3. Atomistic Modeling of metal organic compounds: towards molecular spintronics, Principal Investigator Dr. Kartick Tarafder Physics Department at the cost of Rs 12 Lakhs (2016-2019)

4. Dynamics of Low Energy Antifibrillation pacing: Unpinning pinned rotating waves using far field electric pulses. Principal Investigator: Dr. T.K. Shajahan; Physics Department at the cost of Rs. 30 Lakhs (2017-2020)

5. Transition Metal Oxide Based Devices for Nonvolatile Resistive Random Access Memory Applications. Principal Investigator: Dr. Partha Pratim Das, Physics Department at the cost of Rs. 37 lakhs (2017-2020)
1. Project title – A Study of Adaptation to Technological Innovation in Agriculture to Mitigate Climate Change Effects and its Impacts on Rural farmers
2. Project Title – Coffee Certification and Food Security in Arakku valley in India

13.2 PROPOSED PLAN FOR RESEARCH

DEPARTMENT OF CHEMICAL ENGINEERING

Submitted proposals:

1. Proposal with Dr. Prasanna B.D, NITK and in collaboration with Prof. Rintu Banerjee, IIT Karagpur on ‘Fibrinolytic enzymes production and purification’ was submitted to the scheme ‘Imprint II’
2. Proposal with Dr. GN Kumar and Dr. Gnanasekaran, NITK surathkal in collaboration with Dr. Krishnan Murugesan, Associate Professor, Indian Institute of Technology Roorkee, on “Design and development of portable hybrid energy production unit to synergistically produce electricity and biofuels by utilizing solar energy and non-edible oil’ was submitted to the scheme ‘Imprint II’.
3. Dr Vidhya Shetty K, Deparment of chemical Engg. Submitted imprint proposal on, “Design and development of a solar photocatalytic, flow through water disinfection unit using Ag@TiO\textsubscript{2} based nanocomposites as photocatalysts for community based application” in collaboration with IIT Bombay and Vijaya industries, udupi.

New Labs/Equipment

Establishment of Energy material Laboratory

Target for sponsored R&D projects:-

Soot Oxidation activity, Electrolyte material, SOFC, Mass Transfer in Nanofluids; Photocatalytic reduction of CO\textsubscript{2}

DEPARTMENT OF CHEMISTRY

New Labs/Equipment:- Membrane Technology Laboratory. Surpass Electrokinetic analyzer, K-coater, Salinity testing unit, Hollow fiber spinning unit, Rotovapor

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Target for Sponsored R&D projects:- Project on Bio-Mechanics from IMPRINT Hand-held Doppler signal analysis from Karnataka State Govt. Projects from DRDO and LRDE.

New Areas of Research:- Bio-Mechancis

DEPARTMENT OF CIVIL ENGINEERING

Investigator Name Funding Amount
Dr. Anjana Bhasi DST
Dr. BBD DST & KIOCL
Dr. Talla Imprint

DEPARTMENT OF MATHEMATICAL & COMPUTATIONAL SCIENCES

"Operator Valued Frames" sponsored by DST; Area of research is Functional Analysis ; Future collaboration with IIT Chennai

DEPARTMENT OF MECHANICAL ENGINEERING

- Dr. Prasad Krishna, Dr. Sudhakar Jambagi, Development of Fly ash CNT reinforced Thermally Sprayed Coatings for Marine Structures for enhanced resistance to fouling, erosion and corrosion.
- Dr. Prasad Krishna, Virtual Prototyping Platform for Product Development
Dr. Prasad Krishna, Effect of Geometry on Interfacial heat Transfer Coefficient at Metal-mold interface in Permanent Mold casting processes

Dr. Prasad Krishna, Modeling of Residual stresses in Laser Surface Melting of TiAl Alloys

Dr. Jeyaraj Pitchaimani, Vibro-acoustic analysis of sandwich panels under thermal loading

Dr. Jeyaraj Pitchaimani, Development of biodegradable composite

Dr. Srikanth Bontha, Computational Modeling of Laser Additive Manufacturing Processes

Dr. Arumuga Perumal, Lattice Boltzmann simulation of NEMS devices

Dr. Ranjith M, Design and analysis of microfluidic sperm sorter using CFD

Dr. Ranjith M, Analysis of RBC migration and deformation under viscous flow using Immersed Boundary Method

Dr. Hemantha Kumar, Characterization of Magnetorheological Monotube damper through Experimental and Computational Analysis

Dr. Experimental and Theoretical Investigation on Fatigue Crack Growth Rate of Similar and Dissimilar Aluminum Alloy Joints Produced by Friction Stir Welding

Dr. Hemantha Kumar, Condition Monitoring of Face Milling Tool using Vibration and Sound Signals Analyses

Dr. Hemantha Kumar, Investigations on the use of Magnetorheological Fluid and Magnetorheological Elastomer in Structural Vibration Control

Dr. Hemantha Kumar, Condition Monitoring of IC Engine using Online and Offline Monitoring Techniques

Dr. Hemantha Kumar, Magnetorheological (MR) Fluid Damper Development for Vehicular Applications

Dr. Hemantha Kumar, Synthesis and Characterization of Magnetorheological Fluids for Different Engineering Applications

Dr. Hemantha Kumar, Vibration Analysis of Fully and Partially Treated Sandwiched Cantilever Beam with Magnetorheological Fluid

Dr. Hemantha Kumar, Dynamic testing and Characterization of Friction Damper

Dr. Hemantha Kumar, Tool Vibration Control by Magnetorheological Damper

Dr. Hemantha Kumar, Study of vehicle dynamics of a four wheeler with MR Damper

Dr. Hemantha Kumar, Design and control of MR Damper for prosthetic application

Dr. Ramesh M R, Development of thermal spray coatings for tribological applications

Dr. Srikanth Bontha, Laser Processing of Mg Alloys

Dr. S. M. Murigendrappa, Design and Development of Vibration Actuator using SMA

Dr. Anish S, Novel stent design for human carotid artery

Dr. Anish S, Purge flow in turbine cascade

Dr. Anish S, Overspray in gas turbine engine

DEPARTMENT OF INFORMATION TECHNOLOGY

New Labs/Equipment: Smart Healthcare, Green Cloud Datacenter, Edge/Fog Computing

Target for Sponsored R&D projects: DST-SERB

New Areas of Research: Internet of Things, QoS Aware Energy Efficient Datacenters, IoT for Smart City/Smart Building /Smart Home/Smart Classroom

Institutions / organizations for future collaborations: TCS Innovations Lab, IBM Cloud Centre of Excellence and CLOUDS LAB, Melbourne University

DEPARTMENT OF MINING ENGINEERING

One R&D project on ‘Study of Human Body Vibration in Surface Mines’ will be communicated to SERB under High Risk High Reward category.
DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING

New Labs/Equipment:
1. Surface Engineering Laboratory
2. Facility for assessment of health of quenchants
3. High performance workstation
4. Intel Fortran compilers

Target for Sponsored R&D projects:
1. To get at least one sponsored R&D project per year
2. DST Start up grant
3. BARC Young scientist start-up grant

New Areas of Research:
1. Surface Engg.
2. Smart Materials
3. Data base on liquid Quenchants
4. Wetting/ dewetting of liquids
5. Hydrodynamic stability
6. Shape Memory Alloys

DEPARTMENT OF PHYSICS

New Labs/Equipment:- CCD Camera, LabView Software, High end compute cluster and VASP software, Solar Simulator, Mask Aligner.

Target for sponsored R&D projects:- Medical industry, Hospitals (Manipal), Defence (DRDO), Energy sector (ISRO)

New areas of Research:- Plasmonics sensors, Terahertz components and devices (in collaboration with SAMEER, Mumbai and IIT Bombay)

SCHOOL OF MANAGEMENT

New areas of Research:- Climate Change Adaptation in agriculture, Energy and Environment.

MAJOR EQUIPMENT/FACILITIES

DEPARTMENT OF COMPUTER ENGINEERING

1. HP Desktop Computer Systems - Core i7, 8GB RAM, 500GB Hard disk
2. HP Prodesk 600 G3MT Desktop Computers – Intel Core i5, 8GB RAM, 1TB Hard disk
3. Dell-R740 - Dell Power Edge R740 Server with 192GB RAM FFSKLN2

DEPARTMENT OF MECHANICAL ENGINEERING

- Electromagnetic shaker (100kgf, 50kgf, 25kgf), Horizontal slip table, VTS electro-dynamic shaker (25lbs), Gauss meter, Electro magnets (1.5 Tesla), Impact hammer, Single and tri-axial accelerometers, Data acquisition system(NI, HBM ), Microphone and SLM, MicroEpsilon Laser displacement pickups, ADAMS, NASTRAN, PATRON, MARC, DITRON, ANSYS, Devitron, Labview
- Lego Robotic Kit, Firebird, Basic Electronic Components, DC Motors,Connecting Pins, Wires,LEDs Berg Strip, and Bread Board, Quadcopter kit, Wall Following Robot
- Linear Measurements: Vernier Caliper, Vernier Depth Gauge,Vernier Height Gauge
- Micrometer: External Micrometer, Internal Micrometer, Jaw Type Inside Micrometer, Caliper Type Inside Micrometer, Depth Micrometer, Bench Micrometer, Digital Micrometer, Telescopic Gauge
- Measurement Using Slip Gauge: Calibration of Micrometer, Vernier Caliper,Calibration of Height Gauge, Snapgauge, Ring Gauge and Plug Gauge, Measurement of Mean Distance between Surface and Spacing between Holes, Measurement of Dovetail Angle and Checking the Taper Angle of Taper Plug Gauge, Checking An Angle Plate, Study On Limit And Position Gauges
- D.Linear and Angle Measurement: Combination Set.
  - E.Angle Measurement: Universal Bevel Protractor, Sine Bar
• **F. Flatness And Straightness Measurement:** Clinometer

• **G. Screw Thread Measurement:** Screw Pitch Gauge, Screw Thread Micrometer, Effective Diameter Measurement Using Two Wire And Three Wire Method.

• **H. Gear Tooth Measurement:** Vernier Gear Tooth Caliper, Tooth Span Micrometer

• **Study On Opto-Mechanical Instruments:** Tool Makers Microscope, Measurement Using Comparator

• **J. Surface Roughness Measurement:** Surface Roughness Meter (SJ 301)

• Micro heat pipe test rig, Vapour pressure determination test rig, Weather simulation chamber & Window air conditioner test rig, Thermoelectric refrigeration test rig, 2 Stage VCR test rig with intercooler, Condenser pressure variation VCR test rig, Vortex tube refrigeration test rig, Air engine test rig

• **MEMS Sensors, Scanning Tunneling Microscope, Self Build Kit, Atomic Force Microscope, Comsol and Intellisuite (Courtesy : NMDC), Sugar Toolbox and MATLAB (Institute Network)**


• **Kinematics of Epicyclic Gear, Kinematics of Cam Mechanism, Kinematics of Gear Train, Kinematics of Slider Crank Mechanism, Spring Mass System, Transmissibility Apparatus, Free Vibration of beam, Experimental Modal Analysis**

• **Trainer Lathe, Trainer Milling Machine, Electro Pneumatic Trainer Kit with Cylinders and Control valves**


• Boys gas Calorimeter set (Calorimeter+ gas flow meter (0-1000ml), Saybolt Viscometer, Redwood viscometer, TAR Viscometer, Redwood viscometer, Instech Calorimeter, Flashpoint tester (Close-up), Barometer with room, temperature no. 597, Digital weighing machine (0-10 grams), Saybolt Viscometer (old), Bomb Calorimeter, Cleveland Flash & fire point apparatus, Weighing machine (0-2 kg)

• **Spring mass system, Whirling shaft apparatus, Motorised gyroscope apparatus, Digital weighing machine (0-50 kgs), Physical balance, Dead weight tester (0-35 kg), Digital dead weight tester (0-60 kg), Digital dead weight tester (0-250 kg), Planimeterset, Thermo-Hygrograph H-10/100%, Computerised Emission test set up, Single stage spur gear, Single stage spur gear with intermediate, Two stage spur gear, Three stage spur gear, Three speed and reverse
gear, Wormgear, Bevelgear, Rack and quadrant gear drive, Reversing gear, picyclic gear (sun & planet), Cycloidal motion, Internal rolling gear drive, Internal gear and pinion drive spur gear
- IRIS CAR (Lab Car), with Breakout box, ECU, Injector Box, Wire harness, Communication Module, DC Power Supply, Function Generator, Oscilloscope, Cut Section Models
- Center Lathe, Heavy duty Center Lathe, Geared head Center Lathe, Shaping machine, Universal Milling Machine, Heavy duty piller type drilling machine, Light duty piller type drilling machine, Pedestal grinding machine, Capston Lathe
- Wood turning lathe, Circular saw, Carpentry bench vise and table
- Bench vise with table, Surface plate, Anvil, Power Tool, Drilling set and accessories, Saber saw, Jig saw, Hot air gun, Tappers, Nibbler, Shearing machine, Grinding machine, Circular saw, Impact wrench, Battery operated drill, Blower, Eccentric sander, Router machine, Wood planner, Jig saw, Hammer drilling, Core cutter drilling machine
- Soldering table, Bench vise, Shearing machine
- Subsonic wind tunnel
- Experimental Modal Analysis, Tuned Impulse Hammer, Modal Analysis Software, Forced Vibration Analysis, Minishaker with controller
- Moulding facility
- Pin on Disc Tribometer, Metallurgical Sample Saw, High Temperature Tubular furnace, Ball mill, Disc Polishing Machine, Microscope, sigma Z blade mixer
- Free and forced vibration setup with controller, Impact hammer, Tri-axial accelerometer, Electrodynamic shaker, Analyzer, closed loop controller, force sensor, impedance head
- Low speed compressor cascade test facility, Low speed turbine cascade test facility, Centrifugal blower test rig
- Desiccant analysis test rig
- 3D Printing, Material Extrusion, Fused Deposition Modeling based 3-D Printer, Single Screw Extruder

**New Labs/Equipment:-**
- Mechanism Design Laboratory
- Microfluids and Nanofluids Laboratory
- Biophysics Laboratory
- Automation Technologies (Lab I)
- Automation Technologies (Lab II)
- Advanced Manufacturing Laboratory
- Light Weight Materials Laboratory
- Sample Preparation Laboratory
- Multiphase Fluid Dynamics Laboratory
- Additive Manufacturing Laboratory
- Boiling Heat Transfer Laboratory
- Solidification Simulation Laboratory
- Foundry Laboratory
- Advanced Heat Transfer Laboratory
- Solar Energy Laboratory
- Welding Laboratory
- Advanced Fluid Mechanics Laboratory
- Computational Mechanics Laboratory
- Vehicle Dynamics Laboratory
- Smart Materials Laboratory
- Computational Fluid Dynamics Laboratory
- Combustion Laboratory
- Renewable Energy Laboratory
- Design Innovation Centre
- Fist Composite Centre
- Functional Materials Laboratory
- Manufacturing Laboratory
- Advanced Machining Division
- Melting Section
- Materials Testing Section
- Corrosion Engineering Laboratory
- Pyrolysis, Gasification and Torrefaction Laboratory

**DEPARTMENT OF MINING ENGINEERING**

- Human Vibration Meter & Analyser with Accessories Rs.399777.00
- Total station, NOVA DGPS

**DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING**

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Name of the Equipment</th>
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<tbody>
<tr>
<td>1</td>
<td>Dynamic Control Angle Analyzer</td>
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<tr>
<td>2</td>
<td>Form Talysurf Intra with Ultra Software with accessories</td>
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<tr>
<td>3</td>
<td>Digital Image Analysis System Camera Adopter</td>
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<td>4</td>
<td>Heating Stage Temperature upto 1500°C (Furnace)</td>
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<td>5</td>
<td>Jeol Model SEM</td>
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<tr>
<td>6</td>
<td>Tensile Testing Machine fully Computerized</td>
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<td>7</td>
<td>Melt Flow Indexer</td>
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<td>8</td>
<td>Dage 4000 Plus Bond Tester &amp; Image Capture System</td>
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<td>9</td>
<td>Joel High Resolution Transmission Electron Microscope (TEM)</td>
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<td>10</td>
<td>EDS System for Jeol TEM (TEM)</td>
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<td>11</td>
<td>Bottom Mount Camera</td>
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<td>12</td>
<td>Jasco FTIR Spectrometer</td>
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<td>13</td>
<td>Portable Quenchanct Test System with Quench Probe &amp; Thermocouple Heating Furnace</td>
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<td>14</td>
<td>Universal Testing Machine of 30 KN Capacity with Accessories</td>
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<td>15</td>
<td>Salt Spray Bath</td>
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<tr>
<td>16</td>
<td>Shimadzu Micro Vickers Hardness Tester</td>
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<td>17</td>
<td>Magnetic Sputtering PVD Unit</td>
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<td>18</td>
<td>Scratch Hardness Tester Linear Tester</td>
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<td>19</td>
<td>Low Temperature Ion Milling System with Accessories for TEM</td>
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<tr>
<td>20</td>
<td>Tensile Tester with Accessories</td>
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<tr>
<td>21</td>
<td>SP-150 Potentiostat Galvanostst Chassis along with accessories</td>
</tr>
<tr>
<td>22</td>
<td>Trinocular Reflected Light Microscope with Digital Camera</td>
</tr>
<tr>
<td>23</td>
<td>Differential Scanning Calorimeter</td>
</tr>
</tbody>
</table>

**DEPARTMENT OF PHYSICS**

1. High power Nd:YAG laser
2. Jobin Yvon Spectrometer
3. Physical Deposition Units
4. Spray Pyrolysis Units
5. Photoluminescence Spectrometer
6. X-ray Diffractometers

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44. Veeresh Nayak C, M R Ramesh, Vijay Desai, Sudip Kumar Samanta Examination for high temperature wear and oxidation proprieties of nickel based metal matrix composite fabricated by metal injection moulding International Conference On Composite Materials And Structures. IIT-HYDERABAD, 27-29th December 2017


47. Veeresh Nayak Chinnathaypgal, M R Ramesh, Vijay Desai and Sudip Kumar Samanta Studies on wear characteristics of metal injection molded T15 Tool steel part at different temperatures Advances in materials and processing: Challenges and opportunities (AMPCO 2017). Organized by Department of Metallurgical and Materials Engineering, IIT Roorkee. 20th Nov. – 2nd Dec. 2017


49. H.S. Nithin, Vijay Desai, Ramesh M R Cyclic Oxidation and Hot Corrosion Behaviour of Plasma Sprayed CoCrAlY/WC-Co Coating on Turbine Alloys International Conference on Metallurgical Coatings and Thin Films, San Diego, CA, USA, April 24-28, 2017

50. P V Badiger, V Desai, M R Ramesh, Sharnappa Joladarashi Fretting wear behavior of monolayer and multilayer Ti-Based coatings developed on alloy steel TACT2017 International Thin Films Conference Oct. 15-18, 2017, National Dong Hwa University, Hualien, Taiwan


52. Hargovind Soni, Narendranath S, Ramesh M R Evaluation of wire electro discharge machining characteristics of Ti50Ni45Co5 shape memory alloy International Conference on precision, meso, micro and nano engineering, Indian institute of Technology Madras, December 07-09, 2017.


7. M.S. Nandana, K. Udaya Bhat, and C.M. Manjunatha, Retrosregression and Re-ageing Treatment of AA7010 to Improve the Corrosion Resistance, ICONEST -17, IISC Bangalore, PP-Cor 13 Aug 10-12, 201.


27. Gurudath B, Dr. Srikanth Bontha, Dr. Subray R Hegde, Stress Analysis of Rail Steel, IIM NMD ATM 2017, BITS PILANI GOA, NOV 11-14, 2017.


36. Robbi Vivek Vardhan, Sanjay Pujari, Pavan Pujar, Saumen Mandal, Effect of annealing atmospheres on enhancement of conductivity of indium zinc titanium oxide transparent electrode developed through low temperature solution combustion technique, 81st Annual session of Indian Ceramic Society and International Conference on Expanding Horizons of Technological Applications of Ceramics and Glasses (EH-TACAG’17), COE, Pune, India, 14-16th December 2017.

37. Komalakrishna H, Kaushal R Shakya, Gavraw Kumar, Saumen Mandal, Study of biomineralization of porous hydroxyapatite scaffold developed from cuttlefish bone, 81st Annual session of Indian Ceramic Society and International Conference on Expanding Horizons of Technological Applications of Ceramics and Glasses (EH-TACAG’17), COE, Pune, India, 14-16th December 2017.


41. T. Baskaran, S B Arya, Fabrication of Samarium Stronsium Aluminate (Sm2SrAl2O7) ceramic and deposition of thermal barrier coating by air plasma process, International Conference On Research in Mechanical Engineering Sciences (RiMES, 2017, Manipal University, Manipal, Karnataka, 21-23 Dec.

42. T. Baskaran, **S B Arya**, Evaluation of microstructural changes and thermally grown oxide growth of oxidized Sm$_2$SrAl$_2$O$_7$ ceramic thermal barrier coatings for gas turbine applications, 81st Annual session of Indian Ceramic Society and International conference on “Expanding Horizons of Technological Applications of Ceramics and Glasses” ETACAG’17, Pune, 14-16 Dec, 2017.


44. T. Baskaran, **SB Arya**, Oxidation behavior of Sm$_2$SrAl$_2$O$_7$ ceramic thermal barrier coatings for gas turbine applications, NMD-ATM-2017, Goa, November 2017.


47. Gajanan Anne, M R Ramesh H Shivananda Nayaka, **SB Arya**, Microstructure, mechanical and corrosion properties of accumulative roll bonded Mg-2%Zn/anodized Al-7075 composite, Int. Conf. on Emerging Trends in Materials and Manufacturing Engg, NIT Thiruchirapalli, 2017.


DEPARTMENT OF PHYSICS
5. Sterin N. S., S. S. Mal, P. P. Das, “Resistive switching in NaV1O28 polyoxometalate thin film based two terminal device”, International Conference On Recent Advances in Materials Science and Biophysics (RAMSB 2018), Mangalore University, India, Jan 23-25, 2018
13. Ahmed Rizwan C.L, Deepak Vaid, “Second order phase transition in thermodynamic geometry and


SCHOOL OF MANAGEMENT


**NATIONAL CONFERENCE**

**DEPARTMENT OF APPLIED MECHANICS AND HYDRAULICS**


**DEPARTMENT OF CIVIL ENGINEERING**


**DEPARTMENT OF CHEMISTRY**


2. Meenaketan Sethi and D. Krishna Bhat, “HIGH


DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING


DEPARTMENT OF MECHANICAL ENGINEERING

1. Ravikumar K.N., Hemantha Kumar and K.V. Gangadhara Fault Diagnosis of Ball Bearing of Two Stroke IC engine Based on Vibration Signals using Decision Tree and K-Star algorithm. 5th National symposium on Rotor Dynamics (NSRD 2017), 2017


DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING


DEPARTMENT OF PHYSICS

plasma at different ambient pressures”, National Laser Symposium - 26, December 2017


**SCHOOL OF MANAGEMENT**


5. Sunil Khosla and Pradyot Ranjan Jena, “Unravelling the Socioeconomic Determinants that Affect Poverty: An Econometric Analysis from Rural Odisha”, Conference on Transforming Odisha: policies, Institution, and Innovation, Centre for the Study on Contemporary Societies, Bhubaneswar, IN, March 4-6, 2018.


8. Rajesh Acharya H, “Investment and Exchange Rate: Firm Level Evidence from India, at the two day national conference on ‘Globalizing the Finance?’ organized by Department of Economics, Pondicherry University, from 10 to 11 April, 2017.
TECHNICAL EVENTS

DEPARTMENT OF APPLIED MECHANICS AND HYDRAULICS

Books Chapters:
4. Beena Mary John, R T Arun Vignesh, Kiran G Shirilal* and Subba Rao, Experimental Study on Role of Emergent Artificial Coastal Vegetation in Controlling Wave Run up, 36, Hydrologic Modeling, Water Science and Technology Library, Springer

GIAN Course:
1. Practical Analysis of Environmental Data with Open Source Software (R and QGis), Dr. Amba Shetty & Dr. Pruthviraj U., MHRD, New Delhi, February 5-9, 2018
2. Geo statistical Analysis of Environmental Data, Dr. Amba Shetty & Dr. Pruthviraj U., MHRD, New Delhi, February 19-23, 2018

FOREIGN VISITORS TO DEPARTMENT

1. Dr. Gomez Cecile, Scientist, IRD, Agrosystems and Hydrosystems, FRANCE, 07.04.2017
2. Mr. Kusangi Kazuma, Professor, Dept. of Aerospace of Marine system engineering, Osaka Prefectre Univerisity, Japan, 06.09.2017
3. Dr. S.Neelamani, Senior Research Scientist, Coastal Management Program, Kuwait Institute of Scientific Research, Kuwait, 02.01.2018
4. Prof. Ada E. Yonath, Nobel Laureate in Chemistry (2009), Israel, 10.01.2018
5. Prof. Serge Haroche, Nobel Laureate in Physics (2012), France, 10.01.2018
6. Dr. Georg Hörmann, Senior Scientist, Dept. of Hydrology and Water Management, Kiel University, Germany, Feb. 5-9, 2018
7. Dr. Pierre Goovaerts, Chief Scientist, Bio-Medware Inc., Courtesy Associate Professor, Soil and Water Science Department, University of Florida, USA, Feb. 19 - 23, 2018
8. Mr. Snehamoy Chattergi, Asst. Professor, Geological and Mining Engineering, Michigan Technological Universym, USA, 15.03.2018
9. Dr. Gomez Cecile, Scientist, IRD France, 17.04.2018

INDIAN VISITORS TO DEPARTMENT

1. Dr. Sharad K. Jain, Proessor, NIH Roorkee, 22.03.2017
2. Dr. Nagesh Kumar, Professor, IISc., Bengaluru, 23.05.2017
3. Dr. S.K.Mishra, Professor, Dept. of Civil Engineering, IIT Roorkee, 14.07.2017
4. Prof. Prasad Bhaskaran, Professor, IIT Kharagpur, 05.09.2017
5. Dr. Sanasiraj, Professor, IIT Madras, 29.09.2017
6. Dr. M.Karthikeyan, Scientist,
• Dr. G.S.Dwarakish, 2018, ‘Climate change and global sustainability : Action for bridging the gap’, 2nd International conference on Climate change 2018, , 15-16, Feb. 2018, colombo , Sri lanka has been honoured with BEST PAPER AWARD.

Some of the events conducted by the dept.

Workshop titled Prakruthi Infocus on 9th Jan. 2016
Workshop titled Satellite Remote Sensing based Societal Applications on 30th June 2016
CEP on Advanced Surveying, Total Station, GIS, GPS & Mapping during : 25-29 July 2016.
Training Programme on Mike 21 Software during : 22-26 August, 2016
GIAN Course on Geo statistical Analysis of Environmental Data during : December 05-09, 2016
Workshop titled Prakruthi Infocus on 4th Feb. 2017

AWARDS AND RECOGNITIONS

Workshop titled Prakruthi Infocus on 9th Jan. 2016
Workshop titled Past, present and future scenariion in Marine Structures on 20th Feb. 2017
GIAN Course on Practical Analysis of Environmental Data with Open Source Software (R and QGis) during : February 5-9, 2018
GIAN Course on Geo statistical Analysis of Environmental Data, during : February 19-23, 2018

DEPARTMENT OF CHEMICAL ENGINEERING

Book chapters
2. Dr. Raj Mohan B., Dr. Jaya Mary Jacob & Dr. Dhilna Damodharan - Contributed a chapter in Handbook of Metal-Microbe Interactions and Bioremediation, CRC Press, Taylor & Francis Group (2017)

Patents
1. Keyur Raval, Vishnu M, Raj Mohan Balakrishnan, “Removal of heavy metals from contaminated water by adsorption using melanin bound activated carbon”, Indian patent office, patent application number: 201841000695, date: 06.01.2018
2. Keyur Raval, Rohit Kalnake, D V R Murthy, “Rotating packed disc bioreactor”, Indian patent office, patent application number: 201841000694, date: 06.01.2018
3. Vidy Shetty K, Afshan Kilpady, Deekshitha, “Bacterial based synthesis of core shell AgO@TiO2 nanoparticles for photocatalytic water disinfection and dye degradation” Indian Patent Office, Application Number: 201741044068 December 8th, 2017

REVIEWS:
1. Dr. Keyur Raval, Review of the fullength article, “Kinetic modelling of hyaluronic acid production in palmyra palm (Borassus flabellifer) based medium by Streptococcus zoopidemicus MTCC 3523” in Elsevier journal “Biochemical Engineering Journal”.

STTPS (SHORT TERM TRAINING PROGRAMMES)/SCHOOLS
1. Short Term training Programme on “Basics of Environmental Engineering “ for Engineers of MRPL Organized by Department of Chemical Engineering and Centre for Continuing Education , NITK Surathkal, held during 20-26 March 2018. Coordinators: Dr. Hari Mahalingam and Dr. Vidy Shetty K

CONFERENCES:
1. National Conference on Risk Reduction and Disaster Management in Industries -2018 (RRDMI-2018) held on 20th and 21st January 2018 organized by Department of Chemical Engineering , NITK Surathkal in association with Department of Factories, Boilers, Industrial Safety and Health, Government of Karnataka and National Disaster Management Authority, Government of India. Conference Chair: Prof. G.Srinikethan. Organizing Secretary: Dr. Vidya Shetty K

SEMINARS (NATIONAL & INTERNATIONAL)
1. Seminar on Multiphase Flow by on 2nd September 2017
2. Seminar on “Indigenous Technologies: From laboratory to the field” by Prof. Sirshendu De, IIT Kharagpur, 11th October 2017
3. Seminar on “Recycling of Carbon Dioxide to Methanol and Derived Products – Closing the Loop” by
Expert Lecture


Talk

1. Talks on “Basics and Technologies in natural gas processing career counselling for prospective process engineers” by Mr. Jamil Ahamed, Doha, Qatar, 15th January, 2018

VISIT TO ABROAD (Faculty):

1. Dr. Vidya Shetty K, Department of Chemical Engineering attended and presented a paper at NanoWorld Conference in Boston, USA during April 03-05, 2017

Awards

1. Dr. S. Gangamma -European Respiratory Society short term fellowship 2017, Blizard Institute, Queen Mary University, London.

DEPARTMENT OF COMPUTER ENGINEERING

SEMINARS (NATIONAL & INTERNATIONAL)

1. SDN Online Lab organized by Dr. Mohit P Tahliliani on 20th December 2017
2. Wireless Alternative to Fiber for Residential Enterprise and Urban Access organized by Dr. Mohit P Tahliliani on 21st December 2017

WORKSHOPS:

Dr. Mohit P. Tahliliani and Dr. B R Chandavarkar organized A WINGS’s 7th 3 days’ Workshop on “Open-source Network Experimentation (ONE-2017)”, 1st – 3rd June 2017

FACULTY DEVELOPMENT PROGRAMME

Cryptanalysis: Tools and Techniques organized by Dr. Alwyn R Pais from 4th - 8th December 2017

GIAN COURSE

1. Algorithmic foundations of Wireless Sensor Networks with Applications organized by Mrs. Saumya Hegde and Dr. Pushparaj Shetty with A GIAN (MHRD Govt. of India) from 10-14th December 2017
2. Software Based Networks : SDN and Integration of Virtualization in Networks organized by Dr. Mohit P Tahliliani with A GIAN (MHRD Govt. of India) from 19-23rd December 2017

STRESS MANAGEMENT TRAINING PROGRAMME

EXPERT/TECHNICAL TALK

1. Need of Interdisciplinary Research in Contemporary Research Arena organized by Dr. Shashidhar G Koolagudi on 03rd July 2017
2. Practical Formal Methods for Mainstream LLVM Developers organized by Dr. Alwyn R Pais on 10th August 2017
3. Modern Speech Interfaces organized by Dr. Shashidhar G Koolagudi on 10th August 2017
4. Data Visualization organized by Dr. P. Santhi Thilagam on 04th September 2017
5. Big Data Analytics Software Development Life Cycle(BDA-SDLC) organized by Dr. Alwyn R Pais on 03rd November 2017
6. Formal Verification of robustness properties of Hybrid Systems organized by Dr. P. Santhi Thilagam on 2nd January 2018
7. Wireless Network Performance Evaluation organized by Dr. Mohit P Tahliliani on 3rd January 2018
FOREIGN VISITORS TO DEPARTMENT
1. Dr. Santosh Nagarkatte Assistant Professor of Computer Science at Rutgers University visited on 10th August 2017
2. Dr. Sajal K. Das Distinguished Professor Computer Science Rolla USA visited department from 10-14th December 2017
3. Daniel St. Clair Endowed The Chair Professor Missouri University of Science & Technology Rolla USA visited department from 10-14th December 2017
4. Prof.K. K. Ramakrishnan Professor University of California Riverside USA visited department from 19-23rd December 2017
5. Dr. Aravind R. Raghavan Director of Product Management at Tarana Wireless Inc. Santa Clara USA visited on 21st December 2017
6. Prof. Sumit Roy Professor Dept of Electrical Engineering University of Washington Seattle USA visited on 3rd January 2018

VISIT TO ABROAD (Faculty):
1. Dr. Annappa was invited as a Visiting expert to Universite des Mascareignes Mauritius during 19th May to 18th June 2017.
2. Dr. K. Chandrasekaran Delivered an invited talk/ tutorial in the International Conference KMO 2017, Beijing China, titled “Knowledge Management in the context of Pervasive and Mobile Computing”.
3. Dr. Mohit P. Tahliliani Delivered a talk on “Need for Speed: Minimize the Impact of Bufferbloat in Home Broadband Internet” at Lawrence Livermore National Laboratory 12th October 2017.
4. Dr. Mohit P. Tahliliani Selected as a Mentor at Google Campus Sunnyvale California from 13th – 15th October 2017. Funded by Google Summer of Code to participate in GSoC Mentor Summit

DEPARTMENT OF CHEMISTRY
NATIONAL CONFERENCE

BOOKS PUBLISHED :
2. Dr. A. M. Isloor, Inorganic Nanomedicines, published by Transtech Publishers, Switzerland

BOOKS EDITED:
1. Advanced Nanomaterials for Membrane synthesis and its applications, Published by Elsevier, 2018

EXHIBITIONS
1. Dr. A.M. Isloor has exhibited Membrane module and its filtration at the National level Exhibition organized at Rashtrapathi Bhawan on 19 & 20th March 2018.
PATENTS


POSTERS PRESENTED


FOREIGN VISITORS TO DEPARTMENT

1. Dr. Erna Yulawati, Associate Professor of UMP Palembang, Indonesia visited Chemistry Dept. NITK Surathkal on August 2017.

VISIT TO ABROAD (Faculty):

1. Dr. A. V. Adhikari, Dr B. Ramachandra Bhat, Dr D. Krishna Bhat and Dr Udayakumar D. attended 5th International conference of Indian Council of Chemists at Swiss-Belhotel Rainforest, Kuta, Bali, Indonesia, June 7-9, 2017.

2. Dr. Arun M. Isloor of Chemistry Dept. visited Universitas Muhammadiah Palembang-Indonesia during June 2017 and University of Toronto-Canada during February 2018.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

TECHNICAL EVENTS ORGANIZED

Workshop:-


Training

1. Two day Hands-on Training programme on IoT by Dr. M. S. Bhat with NITK, Surathkal Newton Bhabha Fund Royal Academy of Engineering, 23rd – 24th February 2018.


GIAN Course:-

1. Advance level course on Introduction to Software Defined Networking by Dr. P. Srihari and Dr. Prashantha Kumar H with GIAN (MHRD), 26th – 30th March 2018.

2. MHRD Supported GIAN Advance Level Course on Estimation, Tracking and Information Fusion by Dr. P Srihari, 04th – 08th December 2017.


FOREIGN VISITORS TO DEPARTMENT

1. Prof. John Mathews, Professor School of Electrical Engineering & Computer Science Oregon State University Corvallis, OR 97331, USA, visited on 28th March 2018.

2. Mr. Akshay Pattabhi, PhD Student UC Berkeley visited on 20th September 2017.
3. Dr. Pramod Kolar, Staff Engineer, Portland, Intel Corporation, Oregon Area, visited on 17th August 2017.

4. Mr. Vikram Shenoy Handiru, PhD Researcher, NTU Singapore, visited on 11th August 2017

VISIT TO ABROAD (Faculty):

1. Dr. Sumam David S., Department of E&C Engg, attended 19th International Conference on Industrial Technology at Lyon, France and presented a paper, February 20-22, 2018.

2. Dr. Aparna P., Department of E&C Engg, attended International Conference on Infocom Technologies and Unmanned Systems (ICTUS 2017) at Dubai and presented a paper, 18-20 December 2017.


6. Dr. P Srihari, Department of E&C Engg, attended IEEE Radar Conference at Seattle, USA and presented a paper, May 8-12, 2017.

DEPARTMENT OF INFORMATION TECHNOLOGY

BOOK CHAPTERS:-


STTPS (SHORT TERM TRAINING PROGRAMMES) / SCHOOLS

1. 5 Days Short-Term Program on "IPv4 Networking Fundamentals" by Dr. Jaidhar C D, 19th to 23rd March 2018

2. Two day workshop on "Information Security" by Dr. G. Ram Mohana Reddy with
Mercedes Benz & OLA
Bangalore, 31/10/2017

3. One Day workshop on "AMD Tech Day" by Dr. G. Ram Mohana Reddy with AMD
Bangalore, 23/3/2018


5. Dr. Sowmya Kamath S visited Kumamoto University (Japan) for Research interaction and conference paper presentation, Mar 5-11, 2018


VISIT TO ABROAD (FACULTY):-


2. Dr. Geetha V visited Kumamoto University, Japan for IES 2018, 7-9 March 2018.


5. Dr. Sowmya Kamath S visited kumamoto University (Japan) for Research interaction and conference paper presentation, Mar 5-11, 2018.


DEPARTMENT OF COMPUTATIONAL & MATHEMATICAL SCIENCES

Workshops:-


DEPARTMENT OF MECHANICAL ENGINEERING

BOOKS PUBLISHED :-


CONFERENCES

- International Conference on design, materials and manufacture29 Jan 2018serbdstnewdelhi, csir, new delhi gcMohankumar
National Conference
Combustion Institute Indian Section
Kumar G N

WORKSHOPS:
- SHAPER, Quantity 2, QUALITY MACHINE TOOLS COPORATION BATALA, QHT18G
- HYDRAULIC POWER HACKSAW
  Quantity: 1, SHREE NIDHI ENGINEERING BENGALURU, HPS-300
- WOOD TURNING LATHE, 3, YASH MACHINE TOOLS AHMEDABAD, YMT921

DEPARTMENT OF MINING ENGINEERING.

GIAN Course

1. GAIN Course on “Computer Application and data analysis in mining and other core industries” Organised by Department of Mining Engineering on 12th to 16th March 2018 at NITK, Surathkal (course coordinator Prof.B.M.Kunar).

DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

Book Chapters:


Foreign Visitors to Department:

1. Dr. Sameer Guduru, Post Doctoral Researcher Engineer, SAT&T & LP3, CNRS, Aix-Marseille Univ., Marseille, France visited on 30th May, 2017.
2. Dr. Sumanth Shankar, Director, LMCRC, Dept. of Mechanical Engineering, McMaster University, 26th September, 2017
3. Dr. M. P. Phaniraj, Brain Korea Asst. Professor, Dept. of Materials Science & Engineering, Seoul National University, 09th March, 2018
4. Dr. Samir Degan, President, NACE International, Houston, USA, 21st March, 2018

Visit to Abroad (Faculty):
2. Dr. A. O. Surendranathan attended conference on “Nanotech France” at Paris, France during 28th to 30th June 2017

DEPARTMENT OF PHYSICS

BOOKS PUBLISHED :-


POSTERS PRESENTED

FOREIGN VISITORS TO DEPARTMENT
1. Dr. Nishant Sirse, Post-Doctoral Fellow, Dublin City University, UK delivered a special lecture on Electronegative Plasma Diagnostics, May 24th 2017
2. Dr. Sakshath S, Post-Doctoral researcher, Technische University, Kaiserslautern, Germany delivered a special lecture on Ultrafast Demagnetisation Dynamics in Multicomponent Systems, January 12th 2018.

SCHOOL OF MANAGEMENT

Book Chapters:-

REVIEWS:-
Reviewed journal manuscripts for following journals
1. World Development
2. Ecological Economics
3. Journal of cleaner production
4. Working paper for Gujarat Institute for Development Research (GIDR)
5. Applied Economic Perspective and Policy

STTPS (SHORT TERM TRAINING PROGRAMMES)/SCHOOLS

1. Management Development Programme on Talent Management and Succession Planning for KIOCL – by Prof. K. B. Kiran and Dr. Rashmi Uchil from 11th December to 15th December, 2017 at NITK Surathkal

CONFERENCE SEMINARS (NATIONAL & INTERNATIONAL) WORKSHOPS


FACULTY DEVELOPMENT PROGRAMME
GIAN COURSE
1. Randomized Controlled Trials (RCTs) and Non-experimental Approaches to Program Evaluation and Research Design, from October 23-27, 2017, Pradyot Ranjan Jena

FOREIGN VISITORS TO DEPARTMENT
1. Prof Laurence Larghi from HEIG-VD, Switzerland, Professor, visited Indian Leg of International Summer University Program 2018, on 9th February to 22nd February 2018.
2. Prof. Tianan Yang from BIT, China, Professor, visited Indian Leg of International Summer University Program 2018, on 9th February to 22nd February 2018.
3. Prof Zysman Eytan from HEIG-VD, Switzerland, Professor, visited Indian Leg of International Summer University Program 2018, on 9th February to 22nd February 2018.

VISIT TO ABROAD (Faculty):
1. Dr. Shashikantha Koudur, Associate Professor, attended the 1st International Conference on Performing and Visual Arts,
University of Malaya, Kuala Lumpur, Malaysia, Jan. 9-11, 2018.

2. Dr. S. Pavan Kumar visited Switzerland as part of *Summer University 2017*, it is an exchange program between School of Management, NITK and School of Management and Engineering Vaud, Switzerland. The event was organized during June 28th 2017 to July 14th 2017.

3. Dr. Suprabha K. R visited Japan for the International Engineering Symposium held on March 7-9, 2018.

**CONSULTANCY PROJECTS**

**DEPARTMENT OF APPLIED MECHANICS & HYDRAULICS**

1. Inspection and assessment of removable sand quantity in sand bars of Nethravathi, Gurpur, Nandini and Shambhavi rivers of DK dist, May 2017., Client : Dy. Director, Dept of Mines & Geology, Mangalore. , Consultant : Prof. Amai Mahesha, Rs. 6.0 Lakhs

2. Feasibility study on coastal reservoir construction to impound Nethravathi river flood waters: A sustainable strategy for water resources development for Mangalore. May – Aug, 2017., Client : Chairman, CSSP, Indian Institute of Science, Bengaluru- 12. , Consultant : Prof. Amai Mahesha, Dr. H. Ramesh, Dr. T Nasar, Dr. Manu B. and Dr. Raviraj M., Rs. 6.0 Lakhs

3. Design of drainage system at Mangalore airport, 2018, Client : AAI, Mangalore, Consultant : Dr. Paresh Chandra Deka, Rs. 10.00 Lakhs

4. Sand Mining exploration in Karwar district, 2018, Client : Deptt. Of Mining and Geology, Govt. of Karnataka, Consultant : Dr. Paresh Chandra Deka & Dr. H. Ramesh, Rs. 7.00 Lakhs

**DEPARTMENT OF MINING ENGINEERING**


2. .Prof.V.R.Sastry,” Study of Impact of Ground Vibrations caused due to Blasting in Stone Quarry”, Sr.Geologist, Department of Mines, &Geology, Udupi District, April-May 2017, 86,250.00. 3.


4. Prof.V.R.Sastry,” Study of Impact of Ground Vibrations caused due to Blasting in Stone Quarry in Hallady”,


6. Prof.V.R.Sastry,” Study of Ground Vibrations generated due to Blasting Operation” August –September 2017, 88,500.00

7. Prof.V.R.Sastry, “Slope stability study in Rain Lime Stone Mine”, Rain cements, Srinagar colony, Hyderabad, August –September 2017, 5,95,700.00


10. Prof.V.R.Sastry,“Study of the Ground Vibrations caused due to blasting in stone quarry”, Hirechosaba Stone Crusher, M/S. Santa Narayna Nayak, M/S. Santa Narayna Nayak, November-December 2017, 94,400.00
12. Prof. V.R. Sastry, Dr. Ram Chandar, K, “Study of ground vibration caused due to tunnel blasting”, M/S GVPR-ELHCC(JV), Yettinahole Project, Sakleshpura, November -December 2017, 94,400.00.
13. Prof. V.R. Sastry,” Consultancy for slope blasting methodology for safe excavation of jackwell pump house, BPLIS, Narayanapura dam, Karnataka”, Amrutha construction Pvt ltd, Ashwath Nagara, Bangalore., February-March 2018, 2,36,000.00.
15. Prof. V.R. Sastry, Dr. Ram Chandar. K, Study for stability of dump and highwall benches, KTKOC Sector-I, Bhupalapalli Area, Singareni Colleries co. ltd, Kothagudem Colleries, Telangana state, March – April 2018, 54,000.00.
17. Prof. V.R. Sastry,” Vibration Test on PVIP Aqueduct at ch.5400 of Paipra MD in Mulavoor village, Kothamangalam Tq” Mr. Shareef, quarry Owner

DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

1. Dr. Udaya Bhat K: Failure Analysis of GOHDS stripper, MRPL, Rs.85,000/=, April 2017 (completed)
2. Dr. Udaya Bhat K: Failure Analysis of SS 202 steam pipes, SKF Boiler’s & Driers, Moodabidri, Rs.69,000/=, June 2017, (completed)
3. Dr. K.N. Prabhhu: Comparative Study of Wetting Behavior and Mechanical properties of Pb-based and Pb-free Solders for Soldering Applications at ABB Limited, Rs. 14 ,00,000, June 2017, (completed)
4. Dr. Udaya Bhat K: Excessive Slag formation, Lamina Foundries, Nitte, Rs. 40,120/-, July 2017, (completed)
5. Dr. Udaya Bhat K: Analysis of coatings for Aluminum extrusions, CPWD, NITK, August 2017, Rs.54,120/= (completed)
6. Dr. Subray Hegde: Failure of STG7 Steam Turbine Blades – Preliminary Report, MRPL, October 2017, Rs.97,940/= (completed)
7. Dr. Subray Hegde: Rail Fracture Analysis, KRCL, November 2017, Technical Outreach Activity Completed.
8. Dr. Udaya Bhat K: Development of quality assurance, SKF Boiler’s & Driers, Moodabidri, December 2017, Rs. 80,000/=, (completed)
10. Dr. Subray Hegde: Failure of DCU Heater Tubes, MRPL, 2018, Rs. 3,65,800 (On going).
11. Dr. Subray Hegde: Failure of K-Type Thermocouples, MRPL, 2018, Rs.4,07,100/=, (On going).
12. Dr. Subray Hegde: Failure of DCU Tube Anchor, MRPL, 2018, Rs.3,65,800/= (On going).
13. Dr. Subray Hegde: High Temperature Hydrogen Cracking of Distillation Vessel, MRPL, 2018, Rs. 3,00,900/= (On going).
15. Dr. Subray Hegde: Failure of Cooling Pump Impeller, MRPL, 2018, Rs.4,54,300/= (On going).
16. Dr. Subray Hegde: Cracking of fractionator Column, MRPL, 2018, Rs.3,65,800/= (On going).
15 HUMAN RESOURCE DEVELOPMENT

15.1 TRAINING STATUS

DEPARTMENT OF CHEMICAL ENGINEERING

1. Miss. Rajalakshmi K. (Reg. No.148041CY14F05) and Miss. Kavyashree S Keremane (Reg. No.165027CY16F03), (full-time Ph.D. students of Prof. A. V. Adhikari, Dept. of Chemistry, NITK) carried out research work in Nanyang Technological University, Singapore (from Jan 1st to June 1st, 2018) under “NTU- India Connect Research Internship Programme 2018” with Prof. Subodh Mhaisalkar, Energy Research Institute @NTU, Singapore.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING


3. Dr. Deepu Vijayasenan, Department of E&C Engg, attended the workshop on Brain, Computation and Learning at IISc, Bangalore on 8-13 January 2018.

4. Dr. B. Nagavel, Department of E&C Engg, attended Short Term Course on Design of Microwave Antennas for Wireless Communication Application at IIT Kharagpur during 21-26 August, 2017.


7. Dr. Sumam David S., Department of E&C Engg, attended NIRF India Rankings 2017 function at Rashtrapati Bhavan, New Delhi on 10th April 2017.


SCHOOL OF MANAGEMENT

1. First Deshpande Gopalakrishnan Symposium conducted by IIT Madras, Chennai on 28th-30th January, 2018, Prof. K. B. Kiran.

2. Reach Where you aspire to- Leadership Training Programme conducted by All India Management Association (AIMA) from February 21-23, 2018, Jodhpur, Dr. Bijuna C. Mohan.

3. Specialized training programme for Women Professionals on “Reach Where You Aspire To: Leadership Training” organised by All India Management Association (AIMA) from 21 to 23 February, 2018 at Ranbaka Palace, Jodhpur, Rajasthan, Dr. Dhishna P.

4. Ten days GIAN Course on “Comparative Literature” organised by Dr Punyashree Panda at the School of Humanities, Social Science & Management from 6-12-2017 to 16-12-2017 at Indian Institute of Technology Bhubaneswar, Dr. Dhishna P.

DEPARTMENT OF INFORMATION TECHNOLOGY

1. Prof. G. Ram Mohana Reddy attended Amdocs Sponsored 2-Day Industry Interaction (Faculty Enrichment Program), Pune, India, August 3-4, 2017.
2. Prof. G. Ram Mohana Reddy attended Deloitte Sponsored 1Day Bridge-Aligning Academia with Industry Analytics, Hyderabad, India, Feb. 24, 2018


5. Prof. Ananthanarayana V S attended Workshop on Curriculum organized by NITK on 10 March 2018.

**PLACEMENT OF STAFF FOR ACADEMIC EXCELLENCE**

**Department Of Computer Engineering**

1. Dr. Annappa Invited as a Visiting expert to Universite des Mascareignes Mauritius during 19th May to 18th June 2017.

2. Dr. Mohit P. Tahiliani Selected as a Mentor for Google Summer of Code (GSoC) from ns-3 organization (30th May 2017 to 21st Aug 2017)

3. Dr. K. Chandrasekaran As CVO of NITK organized a one week “Vigilance Awareness Week” during 30th Oct to 4th Nov 2017

4. Dr. K. Chandrasekaran delivered an invited talk/ tutorial in the International Conference KMO 2017 titled “Knowledge Management in the context of Pervasive and Mobile Computing”.

5. Dr. Mohit P. Tahiliani Invited to participate in "Intel India Colloquium" at Bangalore 9th October 2017

6. Dr. Mohit P. Tahiliani Delivered a talk on "Need for Speed: Minimize the Impact of Bufferbloat in Home Broadband Internet" at Lawrence Livermore National Laboratory 12th October 2017


**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

1. Dr. Sumam David, Department of E&C Engg., Branch Counsellor of the IEEE student branch @ IEEE Annual General Body Meeting Bangalore.

2. Dr. Sumam David, Department of E&C Engg., Professor in charge of Analytics, Accreditation & Ranking.


4. Dr. U. Shripathi Acharya, Dr. Ramesh Kini M., Dr. Laxminidhi T., Dr. Ashwini Chaturvedi and Dr. Shyamlal visited Govt. Engg. College, Jhalawar, Rajasthan to participate in twinning activities during 11-16, September 2017.

5. Dr. U Shripathi Acharya, Department of E&C Engg, appointed as external member, Department Curriculum Committee in E&C Engg. MIT Manipal, 2017.

6. Dr. U Shripathi Acharya, Dr. T Laxminidhi, Dr. Ramesh Kini and Dr. Ashwini Chaturvedi, Department of E&C Engg, Nominated as Nodal officers for the proper planning, co-ordination, implementation, monitoring and evaluation of TEQIP-III activities in NITK

8. Dr. Aparna P., Department of E&C Engg, Chaired a Session on Computational Applications in the XIV Control Instrumentation System Conference CISCON-2017 held on 3 - 4 November 2017 at Dept. of Instrumentation and Control Engg, MIT Manipal


DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

1. Gururaj S Punekar Invited talk of 3 Hrs in management Development program for KIOCL personnel on “Strategy Electrical”
2. Gururaj Punekar KOICL Mangalore extended an invitation for a training session “Electrical Safety” at their premises for their technical personnel.
3. Gururaj S Punekar, The Institute of Marine Engineers Mangalore, requested for a guest lecture on “Spectacular Lightning”.

DEPARTMENT OF MECHANICAL ENGINEERING

Arumuga Perumal D, Innovative Technological Research (Thermal Engineering) & Dedicated Teaching Professional Award

DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

1. Dr. A. O. Surendranathan, 15-9-2017: Conferred the Engineers’ Day Honour-2017 by The Institution of Engineers (India), Mangaluru Local Centre, & Kodagu, Dakshina Kannada & Udupi Engineers’ Association

2.28-12-2017: Marquis Who’s Who selected for their official 2018 Albert Nelson Marquis Lifetime Achievement Award

2. Dr. K. Narayan Prabhu, Selected for the National Metallurgists’ Day (NMD) Award - Metallurgist of the Year in the Nonferrous Category. The award was presented on the 55th National Metallurgists’ Day held on 14th November 2017 at BITS Pilani-Goa by Shri Chaudhary Birender Singh, Union Minister of Steel, Government of India. NMD award scheme is instituted by the Ministry of Steel, Government of India to honour technologists/scientists in recognition of their specific original contributions made in the fields of production/research made in the last 5 years and its impact on National Scenario.

3. Dr. S. Anandhan, Elected Fellow of the Institution of Engineers (India) from the 31st of August 2017.

4. Dr. Kumkum Banerjee, Selected for the award of Distinguished Woman in Engineering for the contribution and achievement in the field of Metallurgical Engineering on 3rd March 2018.
Placement Details Highlights

The year 2017-18 has been a very successful year for the Dept. of Training & Placement. We had reasonably very high percentage of Placements and Training slots.

Main Objectives:
To provide opportunities for,

1. Placement to all students of the final year B.Tech, M.Tech, MCA, MBA and M.Sc.
2. Training to all students to be covered during the 5th, 6th and 7th Semester vacations. The compulsory training for B.Tech. Mining Engg. Students during the 5th and 6th Semester vacations.
3. Provide Counseling and facilitate development of Soft Skills and Personal Effectiveness to help students build a successful career.

Performance Overview:
1. A total of 256 Companies visited NITK Surathkal for Campus Recruitments.
2. 47 Companies visited NITK for Placement process for the first time.
3. 870 students were placed – 610 B.Techs, 161 M.Techs, 67 MCAs, 27 MBAs, 4 MSc (Chemistry) and 1 MSc (Physics)

Placement Detail 2017 - 18

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### BRANCHWISE PLACEMENTS 2017-2018:

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(With 63 students getting placed in two companies)

*Final Results awaited*
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<td>AKS IT SERVICES, B'LORE</td>
<td>May 16, 2018</td>
<td>*</td>
<td></td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>256</td>
<td>ALSHAYA INDIA, B'LORE</td>
<td>May 19, 2018</td>
<td>*</td>
<td></td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>
## Training Slots for the Academic Year 2017-18

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Branch</th>
<th>No. of Slots</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Chemical Engineering</td>
<td>62</td>
</tr>
<tr>
<td>02</td>
<td>Civil Engineering</td>
<td>31</td>
</tr>
<tr>
<td>03</td>
<td>Computer Engineering</td>
<td>63</td>
</tr>
<tr>
<td>04</td>
<td>Electronics &amp; Communication Engineering</td>
<td>50</td>
</tr>
<tr>
<td>05</td>
<td>Electrical &amp; Electronics Engineering</td>
<td>73</td>
</tr>
<tr>
<td>06</td>
<td>Information Technology</td>
<td>58</td>
</tr>
<tr>
<td>07</td>
<td>Mechanical Engineering</td>
<td>117</td>
</tr>
<tr>
<td>08</td>
<td>Metallurgical &amp; Material Engineering</td>
<td>53</td>
</tr>
<tr>
<td>09</td>
<td>Mining Engineering</td>
<td>82</td>
</tr>
<tr>
<td><strong>Total Number of Students</strong></td>
<td><strong>589</strong></td>
<td></td>
</tr>
</tbody>
</table>

- **Number of Companies**: 134
- **Number of Training Slots**: 589
17 SPECIAL INITIATIVES

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

The Post Graduate students who have qualified with GATE are paid a sum of Rs.12,400/- as P.G. stipend per month. M.Tech. (Q.I.P.) Regular and (Q.I.P.) Poly are paid Rs.4,000/- per month.

Full-Time Ph.D. Research Scholars are paid institute scholarship @ Rs.25,000/-p.m for I and II year and III, IV and V year Rs. 28,000/- per month. Ph.D. QIF( R) students are paid Fellowship of Rs.9,000/- per month and a contingent grant of Rs.10,000/- per year.

17.2 MEMORANDUM OF UNDERSTANDING (MOUs)

1. Rambal India limited, Thiruporur, Tamil Nadu, 5th March 2018, 3 years
   TEQIP
2. University of District of Columbia (UDC) school of Engineering and applied Science Washington, USA, 18 January 2018, 5 years
3. Internshala, 18th January 2018, 3 years
4. Gheorghe Asachi, Technical university of Lasi, Romania, under Erasmus + Programme, 9th January 2018
5. Networkers Home New Delhi, 6th December 2017, 1 year
6. Mangalore Refinery and Petrochemicals Ltd. (MRPL), 4 the December 2017, 10 years
8. AMD india Private limited (AMD India), 8th April 2017, 2 years
9. Infineon Technologies Asia Pacific Pte Ltd, 6th April, 2017, 5 years

17.4 Innovations & Technology Transfer

DEPARTMENT OF CIVIL ENGINEERING

INNOVATIONS:-Details of Innovation:- Isolated, characterized and Identified Iron Bacteria - Acidithiobacillus Ferroxidans BMSNITK17 (USA Genbank Accession Number - MG271840), Basavaraju Manu/Baskar Malwa

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING


MECHANICAL ENGINEERING

1. Swirl Generator for Human Arterial Network (Patent filed), Prashantha B, Anish S
2. Dual fence with tapered trailing edge for turbine /compressor blade passage (Patent filed), Kiran K N, Anish S Multi material smart structure with controllable multi directional property
3. RohitRajpal, Arunkumar. M.P., Susheel Kumar, Gangadharan K V, patent filed
4. A Nerve Trimming Kit, Abhijith J Kamath (EE B tech), Gangdharan K V, Pruthviraj, KMC and CSD , Patent filed Ulnar Neuropathy
Device, Omey Mohan manyar, rsheshHarshenduGokani, RaghavendraSirigeriHanumesh, RakshithRathnakarKamath, Dr. K V Gangadharan& Dr. Vijay Desai

5. KMC & CSD, Patent filed
6. Automated Illizarov Apparatus, Dr. Vijay Desai, KMC, CSD patented filed

17.5 Concessions For SCs, STs, Handicapped Students
All SC/ST candidates are eligible for exemption of Tuition Fees as per the order of M.H.R.D., GOI, New Delhi.

17.6 SC/ST CELL
In order to promptly address the grievances of the employee/students belongs to SC/ST community and to monitor the implementation of reservation and maintenance of reservation roster/register, SC- ST Cell was established in the year 2006.

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

- In 2017-2018 Ministry of Social Justice and Empowerment under the Central Sector Top Class Education Scholarship(TCES) Scheme provides scholarship for the top 23 first year B.Tech SC students and top 12 SC students from second, third and final year each, who's family income is below 4.5lakhs.

In 2017-2018, Ministry of Tribal Affairs under Central Sector Top Class Education Scholarship (TCES) scheme provides scholarship for B.Tech/ M.Tech ST students who have registered online in the National Scholarship Portal and who’s family income is below 4.5 lakhs. 5 ST students (Ministry of Tribal Affairs) from third and final year B.Tech are receiving TCSE scholarship.

- To cater the needs of academically weaker students, in 2017-2018, SC-ST Cell has arranged Special Coaching Classes for all theory subjects and Computer Programming Lab for first year B.Tech students belongs to SC/ST/OBCs, Minorities and PWDs category.

- SC-ST Cell has coordinated Ambedkar Jayanthi in the Institute on April 14th 2017. Shri P. Harishekaran IPS, IG, Manglore, was the Chief Guest of the function and Chief Guest delivered 2 hours and 45 minutes talk on various aspects of the society.

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

Apart from the Scholarship schemes, SC-ST cell has organized many programs for the benefit of SC/ST students of this Institute. Following are the details of the program conducted during 2016-2017.

Following are the programs organised by SC/ST Cell for our Students.
Professional Skill Development Programme
Date: 12th to 15th August 2017
No. of Student Participated: 37
**Topic Covered:** Ice Breaking, Group Discussion, Counselling, Motivation, Personality Development, Communication Skill, Body Language, CV Building & Covering Letter, Time Management, Calculation Technique, Interview, Aptitude & Logical Reasoning,

**Self Enrichment Programme**
**Date:** 2nd to 4th December 2017  
**No. of Students Participated:** 20  

**Faculty Workshop**
**Date:** 2nd and 3rd March 2018  
**No. of Teaching /Non Teaching Staff Participated:** 29  
**Topic:** “Reservation Policy of Government of India”  
**Resource Person:** Professor Rana

**17.7 NSS (National Service Scheme)**

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

**17.8 RIGHT TO INFORMATION ACT (RTI 2005)**

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

**RIGHT TO INFORMATION UNDER THE ACT**

A citizen has a right to seek such information from a public authority which is held by the public authority or which is held under its control. This right includes inspection of work, documents and records; taking notes, extracts or certified copies of documents or records; and taking certified samples of material held by the public authority or held under the control of the public authority. The Act gives the citizens a right to information at par with the Members of Parliament and the Members of State Legislatures. 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. 72 RTI Applications were received during the year 2017-18 (from 01.04.2017 to 31.03.2018).


17.9 YOGA CENTRE HISTORY

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

RECENT INITIATIVES

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

MAJOR ACHIEVEMENTS

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

17.10 TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME (TEQIP)

NITK has been consistently identified as one of the top performers in implementing the TEQIP project. Based on the good performance in TEQIP-I & TEQIP-II and on the merit & strength of our Institutional Development Proposal (IDP) for TEQIP-III, our Institute has been selected to participate in TEQIP-III with a total outlay of Rs. 700 lakhs.

TEQIP-III commenced with effect from 01-04-2017. Our Institute has been designated as Mentor Institute for Government Engineering College, Jhalawar, Rajasthan. A Memorandum of Understanding (MoU) with MHRD and agreement between NITK and Mentee Institute GEC Jhalawar have been signed on 7th July 2017.

Action Plans for every quarter of the year 2017-18 have been sent to NPIU covering various activities envisaged by NPIU. Details of these activities have been uploaded in Public Finance Management System (PFMS). All the payment transactions in TEQIP-III are regulated under this portal only.

Procurement

Budget allocated by NPIU for procurement of goods/equipments is Rs.350/-lakhs. Accordingly procurement activities initiated and till 31-03-2018 a sum of Rs. 49,46,867/- has been spent on this. Procurement of other equipment/software is under progress.

Academic Activities:
Twinning activities are under progress. A team of faculty members from the Department of E & C Engineering, Department of Physics, Department of Information Technology, Department of Computer Science and Engineering, Department of Mechanical Engineering, Department of Civil Engineering and School of Management have visited Mentee Institute - Government Engineering College, Jhalawar. During this visit faculty members engaged regular classes in which the fundamental principles of various engineering courses were emphasized. Faculty members also gave an overview of the scope of various engineering disciplines and the opportunities available in industry/R&D organization and academia. A visit to central facilities such as Hostels, Library, Sports Complex, Computer Centre was also conducted and extensive feedback on the improvements to be carried out in these departments was provided.

A team of Faculty members from Government Engineering College, Jhalawar have visited NITK Surathkal and had interactions with faculty members of various departments and visited central facilities like Central Library, Central Computer Centre, Placement Cell, R. E. office etc. They were given a guided tour of the entire Institute and were briefed about the good practices put in place in these Central Facilities.

A team of Faculty members, TEQIP officers, Principal and Chairperson BoG from GEC Jhalawar visited NITK in the month of January 2018, visited various departments, various activity centers, Central Facilities and interacted with the Faculty members, Heads of Sections and other concerned non-teaching staff.

Another team of Faculty members of GEC Jhalawar dealing with Procurement process under TEQIP-III visited NITK on 05-02-2018 and 06-02-2018 and studied the procurement procedure such as preparation of Procurement Plan, Purchase procedures, drafting specifications etc. They visited various Laboratories and interacted with the concerned faculty members and others. Procurement plans for all engineering departments of GEC Jhalawar were prepared with the help of faculty members of NITK, Surathkal.

A 5 days short term course on "IPv4 Networking Fundamentals" had been organized in the department of Information Technology during 19th-23rd March, 2018 for the benefit of I.T. and C.S. students of GEC Jhalawar.

**Improving Non-Cognitive skill of students**

(i) Finishing School programme for the benefit of students had been organized as envisaged in the IDP and as per the guidelines issued by NPIU. The activity was carried out during October 3 - 15, 2017 and approximately 20 students participated in this exercise.

(ii) Induction Programme is one of the vital activities under Improve Students Learning head. Accordingly, Induction programme for the benefit of newly joined Ist year B. Tech students. (About 800 students) was organized during October 6 - 8 2017 and November 3 - 5, 2017.

(iii) Student Learning Assessment (SLA) for the students of Department of Electronics and Communication Engineering and Department of Information Technology was held during November 15 -16, 2017 in compliance with NPIU/MHRD norms. This exercise was carried out at Central Computer Centre. Approximately 440 students and the faculty members of the respective departments took part in this exercise.

**Recruitment of Asst. Professors for TEQIP focus states:**

Selection of Assistant Professors on contract to TEQIP-III institutions of focus states was a new additional activity introduced by the MHRD/NPIU in the project. With the cooperation from various departments, this exercise
was completed during December 11-12, 2017 at NITK.

**Faculty and Staff Development:**
During the project duration i.e. August 2017 to March 2020, the provision for budgetary estimate under Faculty and Staff Development and Motivation head for faculty members and non-teaching staff is as under:

(i) For faculty members of NITK to attend Training programmes/Conferences/Seminars/Workshops within India, a provision of Rs. 50,000/- per faculty has been made.

(ii) For non-teaching and supporting staff of NITK to attend Training programmes/Workshops within India a provision of Rs. 40,000/- per staff member has been made. (Both the above figures of Rs. 50,000/- and Rs. 40,000/- have been arrived at after study of the Institute norms for travel, accommodation and other miscellaneous expenses).

**Students attending conference and internship in Industry:**

(i) TEQIP-III provides for enhancement of Research & Development and Innovation among the students of UG, PG and Ph.D Scholars in the Institution. Following activities are permitted under this scheme:

Attending workshops, Technology exhibitions, publications by UG and PG (Regular) and M. Tech (by Research) and Ph.D Scholars attending conferences/presentation of research papers in National/International conferences held **in India**.

Travelling expenses (travel by Train by III AC class)
Per diem @ Rs. 950/- (includes Boarding, lodging) per day.
Sundry expenses/allowances as per actual against cash memos.

Above expenditure will be subject to the availability of TEQIP funds under particular account head. A student can avail this facility **only once** during the TEQIP-III phase. A total of **37 students** have availed this benefit during the year 2017-18.

(ii) It has been made mandatory that the UG students should undergo three internships in industry each spanning at least 4 weeks before completion of their UG programme, as per the guidelines issued by NPIU.

In accordance with the above mandatory clause of NPIU, UG students of this Institute are allowed financial support from TEQIP-III fund as permissible under sub-activity 2.2.a. of list of permissible and non-permissible expenditure published by NPIU.

(iii) In accordance with the provisions of instructions of NPIU, reimbursement of GATE examination Fee to the final year B. Tech students has been made available. A total of 127 students have availed this facility.

**Expenditure up to 31-03-2018:**

<table>
<thead>
<tr>
<th>Description of activity</th>
<th>Amount spent in Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Procurement</td>
<td>49,46,867.00</td>
</tr>
<tr>
<td>Mentoring/Twinnig System</td>
<td>5,41,036.00</td>
</tr>
<tr>
<td>Assistantship</td>
<td></td>
</tr>
<tr>
<td>Research &amp; Development</td>
<td>3,71,468.00</td>
</tr>
<tr>
<td>Travel expenses</td>
<td>2,92,795.00</td>
</tr>
<tr>
<td>Office Expenses</td>
<td>70,326.00</td>
</tr>
<tr>
<td>Salary to Staff</td>
<td>6,30,096.00</td>
</tr>
<tr>
<td>Graduate Employability</td>
<td>2,61,845.00</td>
</tr>
<tr>
<td>Improve Student Learning</td>
<td>10,68,558.00</td>
</tr>
<tr>
<td></td>
<td>Amount</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Selection of Asst. Professors</td>
<td>5,44,501.00</td>
</tr>
<tr>
<td>Faculty and Staff Development</td>
<td>78,026.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>90,15,067.00</strong></td>
</tr>
</tbody>
</table>
18 INDUSTRY INSTITUTE INTERACTION

18.1 INDUSTRY INSTITUTE PARTNERSHIP CELL (I.I.P.CELL)
The IIP Cell at NITK, Surathkal is engaged in building Institute Industry Collaboration for mutual benefit. The Cell is headed by a faculty member of Associate Professor or above grade supported by a Literate Assistant. The faculty in-charge reports to Dean (P & D)/Director. IIP Cell is mainly involved in handling of Testing and Consultancy works of all the departments and arranging endowment lectures. The Institute Revenue Generation through Testing and Consultancy has been improving substantially. The total revenue through Testing & Consultancy works for the year 2017-18 is Rs. 1.30 (One Crores thirty Laks)
IP 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 COMPUTER ENGINEERING

1. Dr. Santhi Thilagam was a Technical committee Member at International Conference on Technical Advancements in Computers and Communication on 10th & 11th April 2017, Tamil Nadu, India
2. Dr. Annappa was invited as a Visiting expert to Universite des Mascareignes Mauritius during 19th May to 18th June 2017.
3. Dr. Mohit P. Tahiliani Selected as a Mentor for Google Summer of Code (GSoC) from ns-3 organization (30th May 2017 to 21st Aug 2017)
4. Dr. K. Chandrasekaran as CVO of NITK organized a one week “Vigilance Awareness Week” during 30th Oct to 4th Nov 2017 (Newsletter copy attached).
5. Dr. K. Chandrasekaran Delivered an invited talk/ tutorial in the International Conference KMO 2017 titled “Knowledge Management in the context of Pervasive and Mobile Computing”.
6. Dr. Mohit P. Tahiliani Selected as a Mentor for Google Summer of Code (GSoC) from ns-3 organization (30th May 2017 to 21st Aug 2017)
7. Dr. Mohit P. Tahiliani Invited to participate in ”Intel India Colloquium” at Bangalore 9th October 2017.
8. Dr. Mohit P. Tahiliani Delivered a talk on ”Need for Speed: Minimize the Impact of Bufferbloat in Home Broadband Internet” at Lawrence Livermore National Laboratory 12th October 2017.

DEPARTMENT OF CHEMISTRY

NIIST – CSIR, Trivandrum and CUSAT, Kochi

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Texas Instruments India Ltd., DRDO, LRDE,ANRC, Boeing, Academic and Research., April 2017 to March 2018

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

1. KIOCL-Mangalore Training session on their premises on their request of “Electrical Safety” By G S Punekar 2 Hrs
2. KIOCL Management Development training a session “Electrical Strategy” by G S Punekar at NITK Premises as part of MDP of management Sciences-NITK 1.5 Hrs x2= 3 Hrs

DEPARTMENT OF INFORMATION TECHNOLOGY

210

DEPARTMENT OF MECHANICAL ENGINEERING

1. Robert Bosch Bangalore, M Tech Project, 1 Year.
2. WABCO INDIA LTD, M Tech Project, 1 Year.
3. Robert Bosch Bangalore, M Tech Project, 1 Year.
4. Rambal India Pvt. Limited, Project Collaborator, 3 years.
5. Ashok Leyland Limited, Project Collaborator, 3 years.
6. Aryatechnocrats, Project Collaborator, 3 years.
7. Aditya Auto, Dept. of Heavy Industry sponsored project on Electrical Vehicle, 3 years.
9. ONGC - MRPL, Consultancy support, 3 years.

DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

- INDIRA GANDHI CENTRE FOR ATOMIC RESEARCH, KALPAKKAM
- INDIAN INSTITUTE OF SCIENCE, BANGALORE
- NATIONAL AERONAUTICS LTD., BANGALORE
- HINDUSTAN AERONAUTICS LTD., BANGALORE
- JINDAL SOUTH WEST, VIJAYANAGAR
- INTERNATIONAL FEDERATION OF HEAT TREATMENT AND SURFACE ENGINEERING (IFHTSE), UK
- KENNAMETAL LTD., BANGALORE
- THERMET SOLUTIONS (P) LTD., BANGALORE
- TATA INSTITUTE OF FUNDAMENTAL RESEARCH, HYDERABAD
- IIT HYDERABAD

Foundry & Forging Internship May To June 2017
Hindustan Aeronautics Limited Bangalore
19.0 SIGNIFICANT ACHIEVEMENTS

19.01 Notable Achievements

DEPARTMENT OF CIVIL
ENGINEERING

Achievements during 1st April 2017 to 31st March 2018

R. SHIVASHANKAR

- Reviewed papers for Intl. Journal of Pavement Research and Technology, Elsevier; Journal of computational engg and physical modeling; Journal of Institution of Engineers (India); Southeast Asian Geotechnical Journal, Geomechanics and Engineering Journal (Techno-press), Indian geotechnical conference 2017, GeoShanghai 2018 international conference etc.

- Reviewed PhD theses from VTU, JNTUH, JNTUA, NITC etc.

- Nominated as Technical Committee (TC 107 on laterites and lateritic soils) member of the Intl. Society of Soil Mechanics and Geotechnical Engg. for 2018-2021

- Appointed member of assessment committee of National Transportation Planning and Research Centre (NATPAC) at Trivandrum

DEPARTMENT OF ELECTRONICS &
COMMUNICATION ENGINEERING

Achievements during 1st April 2017 to 31st March 2018

Dr. Shyam Lal received outstanding reviewer award for the prestigious journal i.e. "Biomedical Signal Processing and Control" Elsevier Publisher. February 2018.

IEEE Bangalore - Best Large student Branch Award for the year 2017 presented to NITK - Surathkal in recognition of their outstanding contribution to the Bangalore section in the year 2017.

Best paper award for the paper titled "A Novel Dual-Gate Nano-Scale InGaAs Transistor with modified Substrate Geometry" by Baldeo Sharan Sharma and M. S. Bhat, in the IEEE International Conference on Innovations in Electronics, Signal Processing and Communication (ICIESC 2017), 6-7 April, 2017.

DEPARTMENT OF ELECTRICAL &
ELECTRONICS ENGINEERING

Achievements during 1st April 2017 to 31st March 2018

- Prof. K. Panduranga Vittal - Chairman, Institute of Engineers, Mangalore Chapter, 2016-18.

- Prof. K. Panduranga Vittal - Member, BOS, MCE, Hassan, 2016-17.

- Prof. K. Panduranga Vittal - Academic Auditor for EEE Departments of NIE – Mysore, 2017.

- Prof. K. Panduranga Vittal - Member of Standing Committee, formed under the chairmanship of Mrs. Sumam David, Prof. ECE to frame guidelines and monitor MHRD - HEFA funding in NITK.

- Dr. Nagendrappa H. - Received Best Research Paper Award in the IEEE-International Conference – ICSPACE 2017 held at Bangalore.


DEPARTMENT OF INFORMATION
TECHNOLOGY


Dr. Sowmya Kamath S - Recipient of Early Career Research Award from
Department of Science and Technology (DST), Govt. of India in June 2017

Dr. Sowmya Kamath S - Participated in Innovation Exhibition 2018 and Interaction with Grassroots innovators at Rashtrapathi Bhawan on special invite (19th March, 2018)

Dr. Sowmya Kamath S - Innovative work titled "Predictive Analytics for Intelligent Healthcare Applications" was selected for participation in the Festival for Innovation and Entrepreneurship 2018 (FINE 2018), organized by The President’s Secretariat in association with Department of Science & Technology/National Innovation Foundation -India (March 19-21, 2018).

DEPARTMENT OF MINING ENGINEERING

Notable Achievements:

"National Design Award- 2017 in Mining Engineering’ for Outstanding Contribution in the field of Engineering Design by National Design Research Forum (NDRF) of Institution of Engineers.

DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

Students Achievements:


2. T. Baskaran - Best Poster Award – Structural Ceramics Poster Presentation on Int. Conference on EH-TACAG’17 during December 2017 at Indian Ceramic Society, Pune


Special talk from Institute/Industries/R&D


3. Prof. Bikramjit Basu, Materials Research Centre, IISc, Bangalore, Topic: Additive Manufacturing of Implantable Biomaterials: A New Paradigm, 14-08-2017

4. Prof. B. S. Murthy, Professor & Head Dept. of Metallurgical & Materials Engg., Institute Professor, Girija & R. Muralidharan Institute Chair Professor, IIT, Madras, Topic: Excitement in Making and Probing Materials at Small Scale, 22-09-2017

5. Dr. Sumanth Shankar, Director, LMCRC, Dept. of Mechanical Engineering, McMaster University, Topic: Advances in Net Shaped Casting & Solidification Research at McMaster University, 26-09-2017


7. Dr. R. Raghavan, Hindustan Zinc Ltd., Topic: Chemical Analysis in Non-

8. Mr. Ullal Pranav Nayak
Alumnus of the Department
(M.Sc. in Materials Science under ‘ERASMUSMUNDUSFAME’
scheme in Univ. of Augsburg
Germany & University of Averio
(Portugal), Topic: Effect of Single
Point Forming on the
Microstructure and Mechanical
Properties of Aluminium and
Steel, 24-10-2017.

9. Dr. Uday Chakkingal, Professor
Indian Institute of Technology,
Madras, Topic: Improvement in
Biomaterial Properties of MG
Alloy by Severe Plastic
Deformation, 22-01-2018

10. Mr. Surya Pratap Singh, Sr.
Process Engineer Mineral
Processing Department Central
R&D Lab, Hindustan Zinc Ltd.,
(Vedanta Resources PLC),
Udaipur, Rajasthan, Topic:
Recovery of metals from low
quality ore at HZL, 16-02-2018

11. Mr. Karthik Karkera, Manager
R&D at HILTI, Topic: An overview
of manufacturing processes at
HILTI, Surat, Gujarat,
07-03-2018

12. Dr. M. P. Phaniraj, Brain Korea
Asst. Professor, Dept. of
Materials Science & Engineering,
Seoul National University, Topic:
Development of low carbon ultra
high strength steel with nano-
sized copper and carbide
precipitates, 09-03-2018.

13. Dr. Samir Degan, President,
NACE International, Houston,
USA, Topic: NACE International
& its mission across the globe to
control corrosion issues 21-03-
2018

Faculty achievements:

1. Dr. K.N. Prabhu receiving the
Metallurgist of the Year Award from by
Shri Chaudhary Birender Singh, Union Minister
of Steel

1. Dr. Kumkum Banerjee receiving the
award of "Distinguished Woman in
Metallurgical Engineering" by Venus
International Foundation, Chennai.

SCHOOL OF MANAGEMENT
Report on the Management
Development Programme on Talent
Management and
Succession Planning
A Management Development Programme (MDP) on Talent Management and Succession Planning for Kudremukh Iron Ore Company Limited (KIOCL) was conducted by the School of Management, NITK Surathkal during 11th to 15th December 2017. In today's competitive and fast changing environment, both Business & HR leaders consider talent management to be one among their topmost priorities. It has been well-recognized that a robust talent strategy is required for organizations to achieve peak performance, be it for the present or the future. Hence, ensuring continuous flow of high quality talent has become part of the larger business agenda.

Hence the MDP was designed for the senior managers of KIOCL. 25 senior management personnel from the General Manager and the Deputy and Assistant General Manager cadres participated in the programme. The programme was designed to accommodate diverse topics ranging from Enhancing managerial success by leveraging alignment strategies, strategic analysis, disaster management, safety management, electrical engineering, remote health monitoring and control of systems, succession planning, leadership, talent management to integrating strategies with vision and mission of KIOCL. The MDP was conducted with the help of resource persons both within the Institute and from outside. The MDP was coordinated by Dr. Rashmi Uchil, Assistant Professor, School of Management. The programme was conducted on a full day basis for 5 days.

Summer University Program 2018
Indian Leg of International Summer University Program 2018 was organized
by School of Management (SoM), National Institute of Technology Karnataka, Surathkal (NITK) in collaboration with University of Applied Sciences Western Switzerland, School of Business and Engineering Vaud (HEIG-VD), Switzerland and Beijing Institute of Technology (BIT), China. The program was held during 9th February to 22nd February 2018.

Dr. S. Pavan Kumar from SoM, NITK and Prof Laurence Larghi from HEIG-VD, Switzerland were the coordinators for the event. Prof K. B. Kiran, Head, SoM had supervised the event and Prof. G. S. Dwarakish, Dean (Planning and Development), NITK was the chief guest for the function. Apart from 24 students from all the above three Universities Prof. Tianan Yang from BIT, China and Prof Zysman Eytan from HEIG-VD, Switzerland also took part in Summer University 2018.

DR. DHISHNA P RECEIVED THE VENUS INTERNATIONAL FOUNDATION AWARD OF “YOUNG WOMAN IN LANGUAGE STUDIES” for the contribution and achievement in the field of English Language 2017 organized by VIF, Centre for Women Empowerment at Chennai, Tamil Nadu India.

Dr. Suprabha K.R. received The Venus International Foundation award of “Young Woman in Management” for the contribution and achievement in the field of Finance 2018 organized by VIF, Centre for Women Empowerment at Chennai, Tamil Nadu India.

DEPARTMENT OF INFORMATION TECHNOLOGY

ACHIEVEMENTS DURING 1ST APRIL 2017 TO 31ST MARCH 2018


Dr. Sowmya Kamath S - Recipient of Early Career Research Award from Department of Science and Technology (DST), Govt. of India in June 2017

Dr. Sowmya Kamath S - Participated in Innovation Exhibition 2018 and Interaction with Grassroots innovators at Rashtrapathi Bhawan on special invite (19th March, 2018)

Dr. Sowmya Kamath S - Innovative work titled “Predictive Analytics for Intelligent Healthcare Applications” was selected for participation in the Festival for Innovation and Entrepreneurship 2018 (FINE 2018), organized by The President’s Secretariat in association with Department of Science & Technology/National Innovation Foundation -India (March 19-21, 2018).

Addition(s) to Building Infrastructure

DEPARTMENT OF MECHANICAL ENGINEERING

4th, 5th And 6th Floors Have Been Completed And Occupied At The Existing Department Building.

DEPARTMENT OF COMPUTER ENGINEERING

New building for the department is being constructed.

Department of Physical Education & Sports

ACHIEVEMENTS:
2. BSA Kumar Inter collegiate Basketball tournament conducted by yenepoya University – Runner-Up.
3. All India Inter NIT Athletics, Weight Lifting, Power Lifting and Body building Championship Held at MNIT Jaipur: Won Team Championship In Body Building and Mr. Prathamesh of I Mtech was declared as Mr.NIT for the year, 2015-16.
4. All India Inter NIT Sports held at SVNIT Surat, Badminton, (Men)
Second Runner-Up, Tennis, Runner-Up.

5. All India Inter NIT Sports held at NIT, Calicut, Basketball Men and Women teams were Second Runner-Ups.

6. All India Inter NIT Sports held at NITK Surathkal during 18th to 20th March, 2016. Institute Aquatics Men team won Team Championship, Aquatics Women team won team Championship and Hockey team won First place.

7. In “REVELS” All India Inter Engineering Collegiate Tournaments organized by MIT, Manipal: Volleyball Women teams were Runners-Up.

8. NITK Cup, 2015-16 Chess Tournament held at NITK Surathkal: Institute Men & Women Team were Winners.
20. ASSOCIATED CENTRES
20.1. National Institute Of Technology Karnataka (STEP)

NITK is equipped with a Science & Technology Entrepreneurs’ Park (STEP) in a separate earmarked zone [20 acres land] of the vast complex of NITK. The major goals of the NITK-STEP is to create a healthy startup technology ventures through Business Incubation, capitalize on the intellectual base at the academia to develop competitive business units, to nurture and grow the spirit of Techno Entrepreneurship and Entrepreneurial Thinking through promotion of appropriate training programs and capacity building, to reach out to the young, unemployed youth in the region and improve their employability by imparting Technology-based skill development programs etc. STEP was formed as an independent registered society in the year 1994 by the erstwhile KREC. It became functional in 1998 by setting up its administrative and entrepreneurs’ block along with other required infrastructure.

NITK-STEP has incubated so far about 44 incubatees (physical incubation), of which a few have established multi crores sales turnover companies employing hundreds of knowledge workers. A few of the innovators prompted have turned out to be outstanding ones bagging reputed, national and international level awards. Robosoft Technologies Pvt. Ltd. a unit which emerged out of NITK-STEP in 2000. Other innovations include 4 independent product developments cum testing units of M/s Omnesys Technologies (P) Ltd. Now part of Thomson Reuters managed by 4 incubatees (development center heads) moved out in October 2013. This technology unit offering financial software products to capital market was shifted to Mangalore for large-scale commercial operations. Remote control system for power tillers, and Mozziquit, mosquito trap, innovative import substitution product, Bacterial Colony Counter, developed by Expert Vision Labs (P) Ltd., are some of the products innovated and produced with the expertise from NITK-STEP. Thus the innovations which emerged out of NITK-STEP show a deep link with the local requirements and utilizing local talent.

Prof. G. Srinikethan, Dept. of Chemical Engg. NITK has taken over the charge as Director i/c. NITK-STEP on 29.01.2018.
The Core Advisory Group of NITK-STEP was constituted from the following members:
1. Prof. Suman David, Dept. of E&C Engg., NITK
2. Prof. N. Lakshman Nandagiri, Dept. of Applied Mechanics, NITK
3. Dr. Venkatesh Perumal, Dept. of E&E, Engg., NITK
4. Dr. Ashwini Chaturvedi, Dept. of E&C Engg., NITK
5. Dr. Jeny, Rajan, Dept. of Computer Engg., NITK
6. Dr. Hariprasad Dasari Dept. of Chemical Engg., NITK
The First meeting of the Core Advisory Group of NITK-STEP was held on 23.02.2018.

Training Programmes :
1. Training Program on “Talent Management and Career Progression to the Executives of KIOCL Ltd. was conducted from 11th to 15th December 2017.
2. NITK-STEP & Dept. of Electrical & Electronics Engg. of NITK jointly proposed to conduct one week self-financed short term course on “Power Converter design “

Existing Entrepreneurs:
2. Mindstack Technologies
4. Technisy
5. Serpro Consultations
6. ZENDX Technologies Pvt. Ltd. (Startup company)

Proposed :
1. Establishment of IPR Cell
2. Conduct of Certificate/Degree courses in association with NITK.
## 20.2 CENTRE FOR CONTINUING 
EDUCATION (C.C.E)

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Title of the Course</th>
<th>Name of the Coordinator</th>
<th>Duration</th>
<th>No. of Participants</th>
<th>Type of the Programme</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Workshop on ‘Build &amp; Fly Mini Quad Copter’</td>
<td>Dr. Pruthviraj U &amp; Prof. K.V. Gangadharan</td>
<td>16-04-2017 (One day)</td>
<td>69</td>
<td>For faculty, Practicing Engineers, PG &amp; UG students</td>
</tr>
<tr>
<td>2</td>
<td>Workshop on ‘Open Source Network Experimentation (ONE-2017)</td>
<td>Dr. Mohit P. Tahiliani &amp; Dr. B.R.Chandavarkar CSE Dept.</td>
<td>01-06-2017 to 03-06-2017</td>
<td>18</td>
<td>For UG, PG, Research Scholars &amp; Faculty</td>
</tr>
<tr>
<td>4</td>
<td>PMGSY Pavements Module-II</td>
<td>-do-</td>
<td>29-05-2017 to 30-05-2017</td>
<td>20</td>
<td>-do-</td>
</tr>
<tr>
<td>5</td>
<td>Repairs &amp; maintenance of Buildings</td>
<td>Dr. B.B. Das Civil Engg. Dept.</td>
<td>19-06-2017 to 23-06-2017</td>
<td>29</td>
<td>For Engineers from various division of Karnataka Govt., sponsored by Engg. Staff College, KR.Sagara.</td>
</tr>
<tr>
<td>7</td>
<td>Water &amp; Waste Water Treatment</td>
<td>Dr. Basavaraju Manu, Asst. Professor, Dept. of Civil Engg.</td>
<td>28-08-2017 to 01-09-2017</td>
<td>12</td>
<td>For Engineers from various division of Karnataka Govt., sponsored by Engg. Staff College, KR.Sagara.</td>
</tr>
<tr>
<td>8</td>
<td>Recent Trends in Highway Pavements &amp; Design &amp; Highway Geometrics</td>
<td>Dr. Suresha S.N. Asst. Professor Dept. of Civil Engg.</td>
<td>11-09-2017 to 15-09-2017</td>
<td>22</td>
<td>For Engineers from various division of Karnataka Govt., sponsored by Engg. Staff College, KR.Sagara.</td>
</tr>
<tr>
<td>9</td>
<td>Basics of Environmental Engineering</td>
<td>Prof. Hari Mahalingam &amp; Dr. Vidya Shetty, Dept. of Chemical Engg.</td>
<td>20-03-2018 to 26-03-2018</td>
<td>21</td>
<td>Training program for MRPL Engineers</td>
</tr>
</tbody>
</table>

Total: 267
QIP CENTRE ACTIVITY DETAILS

FOR THE YEAR 2017-2018

I) QIP (Engineering) Scheme : Details of students on role during 2017-18:

<table>
<thead>
<tr>
<th>Ph.D Program</th>
<th>Master’s Degree Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre Ph.D</td>
<td>I year</td>
</tr>
<tr>
<td>(2017-18 batch) 12</td>
<td>(2017-18 batch) 07</td>
</tr>
</tbody>
</table>

II) QIP (poly) Scheme : Details of students on role during 2017-18:

<table>
<thead>
<tr>
<th>Ph.D Program</th>
<th>Master’s Degree Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre Ph.D</td>
<td>I year</td>
</tr>
</tbody>
</table>

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

1 ACTIVITIES :

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

Technology is available for transfer for the following products:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Product Details</th>
<th>Technology Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Bricks</td>
<td>Ready</td>
</tr>
<tr>
<td>2</td>
<td>Hollow Blocks</td>
<td>Ready</td>
</tr>
<tr>
<td>3</td>
<td>Cavity Bricks</td>
<td>Ready</td>
</tr>
<tr>
<td>4</td>
<td>Hollow Roof Block</td>
<td>Ready</td>
</tr>
<tr>
<td>5</td>
<td>Roof Tiles</td>
<td>Ready</td>
</tr>
</tbody>
</table>
## 3. Facilities at R & D Centre:

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.</td>
<td>Jaw Crusher</td>
<td>18. Mixing Tank with Scrap Blunger</td>
</tr>
<tr>
<td>5.</td>
<td>Moisture Meter</td>
<td>20. Pilot Level Kiln</td>
</tr>
<tr>
<td>7.</td>
<td>Weighing Balance</td>
<td>22. Ram and Mould</td>
</tr>
<tr>
<td>8.</td>
<td>Ball Mills</td>
<td>23. 10/7 CFT Concrete Mixer</td>
</tr>
<tr>
<td>9.</td>
<td>Discharge Tank with Agitator</td>
<td>24. Wheel Borrows</td>
</tr>
<tr>
<td>12.</td>
<td>Filter Press</td>
<td>27. Vibrating Earth Rammer</td>
</tr>
<tr>
<td>15.</td>
<td>Granulator / Pulveriser</td>
<td>30. Pulveriser</td>
</tr>
</tbody>
</table>

## 4. Services Offered:

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