

**National Institute of Technology Karnataka, Surathkal**  
**Mangalore - 575 025, India**



**ANNUAL AND AUDIT REPORT**  
**2024 - 25**

**NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA SURATHKAL**  
**MANGALORE - 575 025 INDIA**



# **ANNUAL REPORT**

## **2024-25**

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## DIRECTOR'S REPORT

### Introduction

National Institute of Technology Karnataka (NITK), Surathkal was established in 1960 as Karnataka Regional Engineering College (KREC), and upgraded as NIT with Deemed University status in 2002. It is an 'Institute of National Importance' as per NIT Act, 2007 and NITSER Act, 2012. It is ranked 17<sup>th</sup> in all India ranking for engineering, and 46<sup>th</sup> overall, as per NIRF (2024). This report highlights notable developments, achievements and new initiatives of NITK during 2024-25.

### Infrastructure

The 295-acre residential campus of NITK has all basic amenities including housing, hostels, messes, sports complex, NCC grounds, cooperative stores, health care centre, banks, post office and schools. Academic infrastructure includes department buildings, laboratories, lecture hall complexes, library, workshops, central computer centre, central research facility, and S&T Entrepreneurs' Park. Key infrastructure projects completed in 2024-25 include 'Skytrack' over NH-66, an Olympic-sized swimming pool, and new Lecture Hall Complex-D. Infrastructure upgradation includes Silver Jubilee Auditorium refurbishment, VoIP-based communication replacing old EPABX system, underground cabling of electrical lines from 33KV substation, piped natural gas in association with GAIL, and optic fibre cabling in residential areas. BEL, Bangalore supported a physiotherapy unit. Institute alumni helped in constructing a lawn tennis court, and a rain water reservoir of about 30 million litres capacity. A Non-Formal Sanskrit Education Centre was established under the aegis of Central Sanskrit University, and an Indian Knowledge System (IKS) section was set up in the Main Library. One Nation One Subscription scheme was implemented, providing access to 13,000 e-Journals.

### Faculty and Staff

As on 31<sup>st</sup> March 2025, there are 296 regular faculty members, who are supported by 166 regular and 245 temporary non-teaching staff members. During 2024-25, one round of faculty recruitment was completed and 28 new faculty members had joined. Orientation program and seed grants were provided for them to kick-start R&D activities. Recruitment for 18 Group-A non-teaching positions is underway and likely to be completed in August 2025.

### Academic Activities

NITK offers B.Tech programs in 11 disciplines and M.Tech programs in 28 specializations, as well as M.Tech (Research), MSc, MBA, MCA and PhD programs. There are two industry-supported M.Tech. programs: Construction Technology & Management (with L&T), and Power Electronics & Control for Electric Vehicles (with Bosch). During AY-2024-25, four M.Tech programs (Industrial Biotech, Materials Engg., Power & Energy Systems, and VLSI Design) were accredited for 6 years each by the National Board of Accreditation. New student admissions in 2024 included 1038 in B.Tech. program, 767 in M. Tech program (including M. Tech-Research and self-financed), 69 in MSc, 77 in MBA, 64 in MCA, and 157 in PhD program. The total number of students is nearly 7000, of which more than 25% are female. The 22<sup>nd</sup> Annual Convocation held in November 2024 was graced by Shri Kiran Kumar, former Chairman of ISRO and Prof. Govindan Rangarajan, Director of IISc Bangalore as Chief Guests. A total of 2078 academic degrees were awarded, including 1002 UG, 937 PG and 139 PhD degrees.

### Research and Publications

The Central Research Facility (CRF), 15 Centers of Excellence and 50 R&D Labs facilitate basic as well as applied research at NITK. During 2024-25, the faculty initiated 45 new projects valued at about ₹19 crores supported by ANRF, DRDO, ISRO, VGST and other agencies. The total number of ongoing R&D projects is 160, valued at about ₹45 crores. These are focused on key areas of national interest including space, nano-



engineering, biomedical, energy materials, pollution management and sustainability. During 2024-25, faculty shared the relevant knowledge by publishing 1418 papers in SCI/Scopus indexed journals, averaging 5.33 indexed publications and 13.10 citations per faculty per year. They also presented 412 papers in national conferences and 56 in international conferences, which helped in establishing and strengthening collaborations with other institutes.

### **Innovation and Entrepreneurship**

Entrepreneurship Cell (E-Cell), Institute Innovation Cell (IIC), and S&T Entrepreneur's Park (STEP) organized several events to strengthen the innovation and entrepreneurship ecosystem. It included Innovation Week, Entrepreneurship Festival (INCUBATE), Startup Expo and other events. The Capacity Building in Design & Entrepreneurship (CBDE) workshops supported by MoE had 350 participants, and mentored 13 student startup teams. The Innovation, Design & Entrepreneurship (IDE) Bootcamp supported by MoE and AICTE had 350 participants. NITK also hosted the coding hackathon (Hackverse) and Smart India Hackathon, each with over 200 participants. During 2024-25, total 47 patents were filed, 61 patents were granted, and 4 patents were licensed. Till date, more than 120 startup companies have been incubated in STEP, including success stories such as BHive, Chai Point, Delhivery, DriveU, MeritNation, Nestaway, Pinkvilla, Practo Healthcare and Robosoft, who are inspiring many more students to explore entrepreneurship.

### **Collaborations and MoUs**

During 2024-25, NITK signed academic/ research collaboration agreements with Agder University Norway, Oakland University Michigan, IIT Jodhpur, IIT Madras, BMVNTFSA Bangalore, CMTI Bangalore, C-DAC Pune, DRDO (D-FTM/TDF) Delhi and TCIL Delhi. Several industry partnerships were also established or renewed, including Robosoft Technologies Pvt. Ltd. Udupi, Moovita Pte. Ltd. Singapore, 5C Network Pvt. Ltd. Bengaluru, and HP Software Operation Pvt. Ltd. Bengaluru.

### **Conferences and Training Programs**

During 2024-25, NITK organized about 20 national and international conferences/ symposia/ workshops. Most of these were inter-disciplinary in nature and involved partners from other institutes and industry. The 11<sup>th</sup> IEEE International Conference on Power Electronics, Drives & Energy Systems (PEDES) had 400 participants, including 80 from overseas. The Institute organized four training programs for Bharat Ratna M. Visvesvaraya National Training Facility for Skills for All (BMVNTFSA), Govt. of Karnataka. To empower faculty, staff and students belonging to under-privileged categories, the SC/ST Cell organized training programs coinciding with Dr. Ambedkar Jayanthi, Jan Jatiya Gaurav Divas, and other events. A workshop titled "Indian Knowledge Systems and Heritage Awareness (IKSHA)" was organized to discuss IKS contents and pedagogy in engineering curriculum. The NITKconnect event in Bangalore showcased several brought together nearly 1000 alumni, faculty and students.

### **Extra-Curricular Activities**

The technical festival ENGINEER and cultural festival INCIDENT brought hundreds of students from other colleges. In the Inter-NIT Tournaments held at various places during 2024-25, the NITK team won Best Women Athlete, Best Basketball Player (Men), Best Volleyball Player (Women), Best Kho-Kho Defender (both Men and Women), Best Table Tennis Player (Men), Chess Champion, Mr. NIT in Body Building, Best Power Lifter, Best Swimmer (Women), and Team Runner-Up in Swimming (both Men and Women). The NCC students of NITK also participated in the regional get-together and Republic Day events in Delhi. The rural activities of NSS students in Pilikula were appreciated by the local authorities.

### Internships and Placements

The Career Development Centre invited nearly 500 companies to NITK. More than 78% of eligible UG students and 70% of eligible PG students got placed, with average CTC of about ₹18 lakhs. Major Indian companies included Ather, Bajaj Auto, BEL, Biocon, BPCL, C-DOT, Delhivery, Exide, EIL, GAIL, HRRL, HLL, HCL, Hero, HPCL, JSW, L&T, ICICI, IDBI, MNGL, MRPL, NSE, Petronet, Reliance, Shree Cement, Tata Electronics, TCE, UIDAI, Vedanta and others. Global MNCs included Accenture, Adobe, AMD, Arista Networks, ARM, Barclays, Caterpillar, Citi India, Collins Aerospace, Dell, Deloitte, Deutsche Bank, Goldman Sachs, Google, Honda, Hyundai, Honeywell, Intel, Intuit, Microsoft, Nutanix, Oracle, Palo Alto, PwC, Qualcomm, Salesforce, SAP Labs, Samsung, Siemens, Texas Instruments, Uber, VISA, Western Digital, Wells Fargo, ZS Associates and others. Many companies provided internships, of which 70% led to full-time job offers. Other students secured admissions in prestigious universities in India and abroad, or pursued family business, public service and other career paths of their interest.

### Alumni in News

NITK is fortunate to welcome excellent students from all over the country year after year, who make the Institute their 'second home', and after graduation continue to excel in various spheres. During 2024-25, Ashwin Shenvi (2004 batch) was appointed as Joint Director of CBI, New Delhi. Suhas Lalinakere Yathiraj (2004 batch) won a silver medal in the SL4 category in Badminton at the Paris 2024 Paralympics. Rekha Kudligi (1987 batch) was awarded the Best Supporting Actress by Chandanavana Film Critics Academy. Tirumani Sri Pooja (2019 batch) secured 62<sup>nd</sup> rank in UPSC Exam, and Himanshu Thapliyal (M.Tech 2023 batch) secured 1<sup>st</sup> rank in UPSC Engineering Services Exam. Sub Lieutenant Anannya Rao (2024 batch) was commissioned into the Indian Navy.

### Other Prominent Activities

NITK had coordinated the Central Seat Allocation Board (CSAB-2024), and successfully allotted over 42,000 seats in 98 institutes including NITs, IITs, SPAs and GFTIs. The Institute also coordinated with other NITs for creating the "Viksit Bharat 2047 Sectorial Vision" and submitted to the MoE. The institute community regularly participated in ShramDaan under Swachh Bharath Abhiyan program and in the Swachh Surathkal City program in association with local NGOs.

### Financial Support

NITK received revenue and capital grants amounting to ₹244 crores from the Ministry of Education in FY 2024-25. Internal revenue generation from student fees, consulting, testing, investments and other sources totaled about ₹110 crores. About ₹2.8 crores of CSR grants were received from 14 corporates for various R&D projects. The alumni donated ₹ 0.56 crores to their alma mater, in addition to the infrastructure projects (build and transfer) mentioned earlier. The Corpus fund has steadily grown and has reached about ₹320 crores.

### Conclusion

The Institute is grateful to the support from the Ministry of Education, the Board of Governors, and Senate members of the Institute. The faculty and staff are to be appreciated for their dedication to duty, and whole-hearted participation in various initiatives. The Institute is committed to the vision of 'Viksit Bharat 2047', and is striving to achieve global excellence coupled with local relevance. For this purpose, we are working closely with both internal stakeholders (faculty, staff, students and residents), and external stakeholders (Government, industry, alumni and other institutes).

Date:  
Place: Surathkal

(PROF. B. RAVI)  
DIRECTOR  
N.I.T.K., SURATHKAL



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## 1. NITK AT A GLANCE 2024-25

### 1.1 Academic Structure

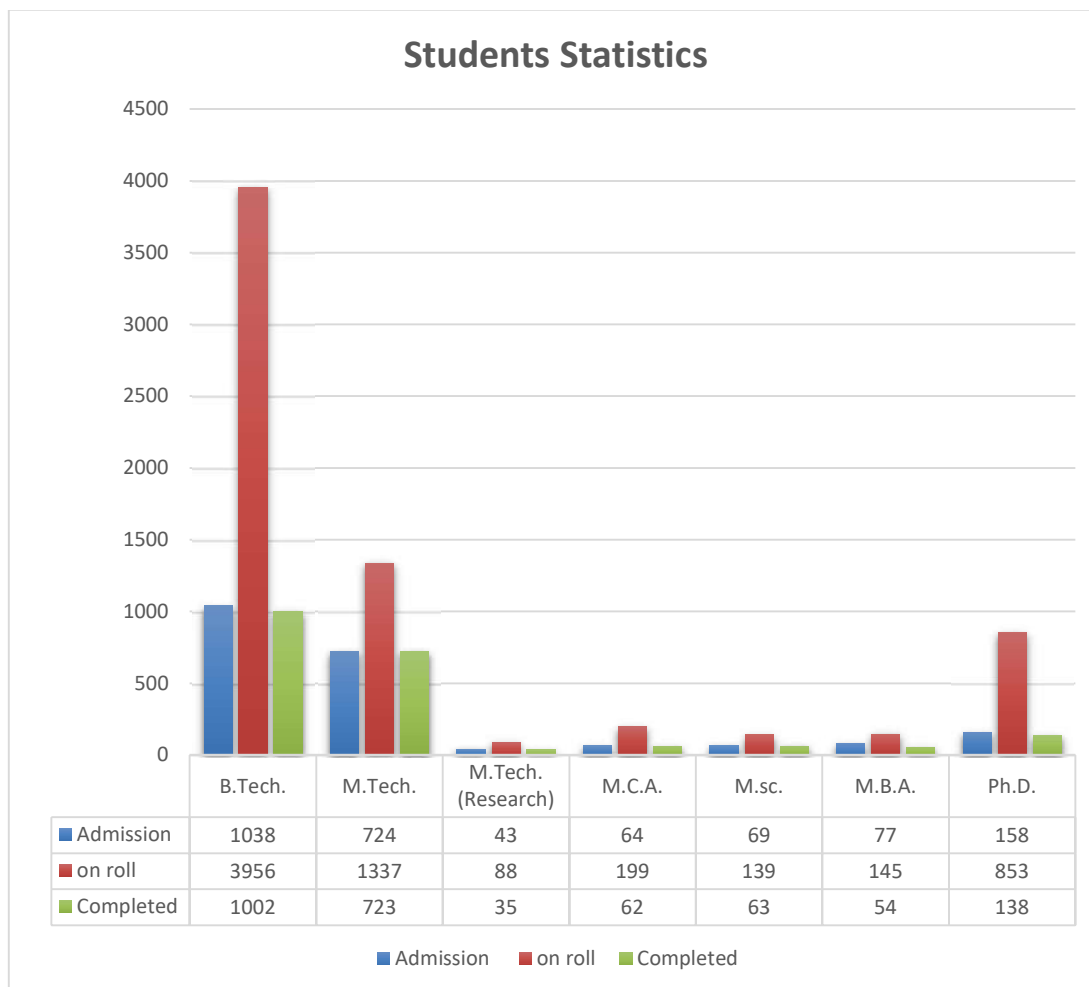
#### DEPARTMENTS/SCHOOLS

CH	Chemical Engineering
CY	Chemistry
CV	Civil Engineering
CO	Computer Science & Engineering
E&E	Electrical & Electronics Engineering
E&C	Electronics & Communication Engineering
IT	Information Technology
MACS	Mathematical and Computational Sciences
ME	Mechanical Engineering
MT	Metallurgical & Materials Engineering
MN	Mining Engineering
PH	Physics
WROE	Water Resources & Ocean Engineering
SHSSM	School of Humanities, Social Sciences and Management

#### CENTERS

CCC	Central Computer Centre
CRF	Central Research Facility
CE & QIP	Centre For Continuing Education & QIP
CIC	Centre for Innovation Cell
CSEE	Centre for Sustainable Energy Engineering
CSD	Centre for System Design
CTS	Centre for Transdisciplinary Studies
COEDM	COE in Digital Manufacturing
COSH	Centre for Open-Source Software and Hardware
HCC	Health Care Centre
SEARCH	The System for Emergency Assistance, Response & Communication Hub

## STUDENTS



**UG/PG/Ph.D. student statistics for the year 2024-25**

## 2. THE INSTITUTE

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 philanthropist, was instrumental in establishing this Institute; hence, the campus is named after him “Srinivasnagar”. KREC made a small yet significant beginning with three Departments offering BE programs in Civil, Mechanical and Electrical Engineering. Since then, KREC has grown from strength to strength and set unprecedented records in the field of technical education in the country. Initially, the College was affiliated with 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. 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 5 June 2007 and became effective from 15 August 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 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 while identifying and resolving problems faced by 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 sources of pride and inspiration to the Institute. NITK is consistently rated among the top engineering and technological institutes in India. Today, the Institute offers eleven B.Tech programs, 31 postgraduate programs and Doctoral programs in all its fourteen Departments and is making significant advances in R&D and outreach activities too.

### 2.1 Location

The Institute is located at Srinivasnagar, Surathkal in the Dakshina Kannada District of Karnataka State, 21 km north of Mangaluru 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 Mangaluru -Mumbai Konkan Railway route and the nearest seaport is New Mangalore which is 8 km south of the Institute premise.

### 2.2 Campus

The campus covers an area of 295 acres in picturesque surroundings with Western Ghats in the East and the 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, lush greenery and a healthy climate. The National Highway 66 separates the campus into Western Side and Eastern Side campus. The Western Side of the campus houses the Departments of Electrical and Electronics Engg., Electronics & Communication Engg., Computer Science and Engg. and Information Technology, Guest House, STEP, Yoga Center and pristine beach.

## 2.3 Governing Bodies of the Institute

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 Chairperson 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 the NITSER Act 2007 and rules laid down by the Government of India.

The structure contains a Council of NITs, BoG and Other Committees.

### 2.3.1 Council of NITs

- Hon'ble Minister, Ministry of Education (erstwhile MHRD), Government of India
- Education Secretary, Ministry of Education (erstwhile MHRD), Government of India
- The Chairperson of National Institute of Technology Karnataka, Surathkal
- Director of National Institute of Technology Karnataka, Surathkal
- Chairman, UGC
- Chairman, All India Council for Technical Education
- Director, General, Council for Scientific and Industrial Research
- Secretary, Department of Bio-Technology, Government of India
- Secretary, Department of Atomic Energy, Government of India
- Secretary, Department of Information Technology, GOI
- Secretary, Department of Space, Government of India
- 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 woman, having special knowledge or practical experience in respect of education, industry, science or technology
- Three members of Parliament of whom two shall be chosen by the Member House of the people and one by the Council of States
- Two Secretaries to the State Government, from amongst the ministries Member or departments of that Government dealing with technical education Two Secretaries to the State Government, from amongst the ministries Member or departments of that Government dealing with technical education
- Financial Adviser, Ministry Government of India
- Joint Secretary – Technical (Technical)/ Additional Secretary (Technical), Department of Higher Education, Ministry of HRD, GOI.

### 2.3.2 Board of Governors

Designation	Name & Address	Term
<b>Chairperson</b>	Dr. Vijay Sankeshwar Chairman & Managing Director VRL Logistics Ltd. Hubballi – 580023.	From 12.12.2023 to 29.5.2024
<b>Chairperson In-charge</b>	Prof. B.Ravi Director NITK, SURTHKAL.	From 30.05.2024
<b>Members:</b>		
<b>Director Ex-Officio</b>	Prof. B.Ravi Director NITK, SURTHKAL.	From 15.06.2023

<b>Nominee of the Central Government</b>	Ms. Saumya Gupta, IAS (TR:2004) Joint Secretary (NITs) Dept. of Higher Education Ministry of Education (Shiksha Mantralaya) Govt. of India, Room No.203, C – Wing Shastri Bhavan, NEW DELHI – 110 001.	From 07.12.2021 to till date
	Sh. Sanjog Kapoor Joint Secretary & Financial Advisor Integrated Finance Bureau, Ministry of Education, (Shiksha Mantralaya) Govt. of India, 120-C, Shastri Bhawan, New Delhi - 110 001.	From 06.01.2023 to till date
<b>Nominee of the State Government</b>	1. Dr. H. N. Jagannatha Reddy Professor, Civil Engineering Branch Bangalore Institute of Technology K.R. Road, V.V. Puram Bengaluru – 560004.	From 03.11.2023 to till date
	2. Shri K. Ajith Kumar Rai Founder and Chairman Suprajit Group of Companies Tara, 144/1, 4th Main, Defence Colony Indiranagar, Bengaluru – 560038.	Notification No. ED/252/TEC/2021 dated 03.11.2023 received from the Under Secretary to Government, Higher Education Department (Technical), Bengaluru.

<b>Designation</b>	<b>Name &amp; Address</b>	<b>Term</b>
<b>Nominee of the NIT Council</b>	Vacant	
	Vacant	
<b>Nominee of the Institute Senate</b>	Prof. U. Shripathi Acharya Professor Department of E & C Engineering NITK, SURATHKAL.	Upto 09.11.2024
	Prof. Dwarakish G. S Professor, Dept. of WR&OE NITK, SURATHKAL.	From 10.11.2024 to two years
	Dr. Vasudeva Madav Associate Professor Department of Mechanical Engineering NITK, SURATHKAL.	From 31.10.2023 to two years
<b>Director, IIT-Bombay.</b>	Prof. K. V. Krishna Rao Deputy Director (FEA) & Professor, Dept. of Civil Engineering Indian Institute of Technology Bombay P.O. IIT Powai, Mumbai – 400 076. <b>[Nominee of the Director, IIT-Bombay].</b>	From 27.05.2022 to three years
<b>Secretary</b>	Shri K. Ravindranath Registrar N.I.T.K., SURATHKAL.	Till date



### 2.3.3 Finance Committee

Designation	Name & Address	Term
<b>Chairperson</b>	Dr. Vijay Sankeshwar Chairman & Managing Director VRL Logistics Ltd. Hubballi – 580023.	From 12.12.2023 to 29.5.2024
<b>Chairperson In-charge</b>	Prof. B. Ravi Director, NITK, SURTHKAL.	From 30.05.2024
<b>Members:</b>		
<b>Director Ex-Officio</b>	Prof. B Ravi Director, NITK, SURTHKAL.	From 15.06.2023 to till date
<b>Nominee of the Central Government</b>	Ms. Saumya Gupta, IAS (TR:2004) Joint Secretary (NITs) Dept. of Higher Education Ministry of Education (Shiksha Mantralaya) Govt. of India, Room No.203, C – Wing Shastri Bhavan, NEW DELHI – 110 001.	From 07.12.2021 to till date
	Sh. Sanjog Kapoor Joint Secretary & Financial Advisor Integrated Finance Bureau, Ministry of Education, (Shiksha Mantralaya) Govt. of India, 120-C, Shastri Bhawan, New Delhi - 110 001.	From 06.01.2023 to till date
<b>FC Member - Nominee of the State Government</b>	Shri K. Ajith Kumar Rai Founder and Chairman Suprajit Group of Companies Tara, 144/1, 4th Main, Defence Colony Indiranagar, Bengaluru – 560038.	From 03.11.2023 to till date Notification No. ED/252/TEC/2021 dated 03.11.2023 received from the Under Secretary to Government, Higher Education Department (Technical), Bengaluru.
<b>FC Member - Nominee of the Senate</b>	Prof. U. Shripathi Acharya Professor, Dept. of Electronics & Communication Engg. NITK, SURATHKAL.	Upto 09.11.2024
	Prof. Dwarakish G. S Professor, Dept. of WR&OE NITK, SURATHKAL.	From 10.11.2024 to two years
<b>Member Secretary</b>	Shri K. Ravindranath Registrar, N.I.T.K., SURATHKAL	Till date

### 2.3.4 Building and Works Committee

Designation	Name & Address	Term
<b>The Director – ex-officio Chairman</b>	Prof. B. Ravi Director NITK, SURTHKAL.	From 15.06.2023 to till date
<b>Members (Ex-officio):</b>		
Director or Deputy Secretary or his nominee dealing with the NITs in	Ms. Veena Dunga Deputy Secretary (NITs), Govt. of India Department of Higher Education Ministry of Education (Shiksha Mantralaya)	30.08.2022 to till date

the Ministry <b>And</b> Director or Deputy Secretary or his nominee dealing with the Finance of NITs in the Ministry - as ex-officio members of the Central Government.	Room No. 429A-C, Shastri Bhavan, New Delhi – 110001.	
	Shri Mukesh Kumar Director – Finance Integrated Finance Bureau Govt. of India Ministry of Education (Shiksha Mantralaya) Room No.522-C, Shastri Bhawan, New Delhi-110 001	Till date
Dean, Planning and Development or similar position – Member	Prof. Gangadharan K. V. Dean (P&D), NITK, Surathkal.	05.10.2023 to two years
<b>Members:.</b>		
One member nominated by the Board of Governors.	Prof. Lakshman Nandagiri Professor, Dept. of Water Resources & Ocean Engineering, NITK, Surathkal	Nominated vide Ref. No.67.3.3/67th meeting dated 12-08-2022 from 12.08.2022 to three years
One expert <b>each from Civil and Electrical</b> Engineering wing of Central or State Government or any autonomous body of repute – Member.	Shri Suneet K Dadheech upto September 2024 Shri B. Srinivasa from 01.10.2024 Superintending Engineer cum Project Manager, CPWD, NITKS Project Circle Office, NITK campus, Mangaluru – 575025	Nominated vide Ref. No.67.3.3/67th meeting dated 12-08-2022 from 12.08.2022 to three years
	Sri Ravikanth Kamath Superintending Engineer (E), Karnataka Power Transmission Corporation Limited, Works and Maintenance Circle, Maroli, Kulashekar, Mangaluru – 575005	Nominated vide Ref. No.67.3.3/67th meeting dated 12-08-2022 from 12.08.2022 to three years
<b>Registrar- ex-officio Member Secretary.</b>	Shri K. Ravindranath Registrar, N.I.T.K., SURATHKAL	Till date

### 2.3.5 Senate

Name	Position
Prof. B. Ravi Director, NITK, Surathkal.	Chairman from 15.06.2023 to till date
Dr. Subhash C. Yaragal, Dy. Director	Member
Dr. Rajesh M Hegde	External Member (from 03.10.2022)
Dr. Neelima M. Gupte	External Member (from 03.10.2022)
Dr. Debashish Acharya	External Member (from 03.10.2022)
Dr. Dwarakish G S	Member
Dr. Laxminidhi T.	Member
Dr. Gangadharan K. V.	Member
Dr. Udaya Bhat K.	Member
Dr. Prasanna Belur Devarabhatta	Member
Dr. A. Chitharanjan Hegde	Member
Dr. I. Regupathi	Member
Dr. M. B. Saidutta	Member (Superannuation on 31.07.2024)
Dr. (Ms.) Vidya Shetty K.	Member
Dr. Raj Mohan B.	Member
Dr. P. E. Jagadeesh Babu	Member

Dr. Keyur Raval	Member
Dr. Hari Prasad Dasari	Member
Dr. Hari Mahalingam	Member
Dr. Darshak Rameshbhai Trivedi	Member
Dr. A. Nityananda Shetty	Member
Dr. Badekai Ramachandra Bhat	Member
Dr. Denthaje Krishna Bhat	Member
Dr. Arun Mohan Isloor	Member
Dr. Uday Kumar Dalimba	Member
Dr. Basavaraju Manu	Member
Dr. Katta Venkataramana	Member (Superannuation on 30.04.2024)
Dr. M. C. Narasimhan	Member
Dr. Varghese George	Member
Dr. S. Shrihari	Member
Dr. Sitaram Nayak	Member
Dr. (Mrs.) Jayalekshmi B. R.	Member
Dr. Bibhuti Bhusan Das	Member
Dr. Arun Kumar Thalla	Member
Dr. C. P. Devatha	Member
Dr. Gangadhar Mahesh	Member
Dr. Suresha S. N.	Member
Dr. Sunil B. M.	Member
Dr. A. S. Balu	Member
Dr. Manu Basavaraju (HoD)	Member (upto 13.02.2025)
Dr. B. R. Chandavarkar (HoD)	Member (from 14.02.2025)
Dr. K. Chandrasekaran	Member
Dr. Annappa	Member
Dr. (Mrs.) P. Santhi Thilagam	Member
Dr. Shashidhar G. Koolagudi	Member
Dr. Alwyn Roshan Pais	Member
Dr. Neelavar Shekar Vittal Shet	Member
Dr. John D'Souza	Member (Superannuation on 30.04.2024)
Dr. (Mrs.) Sumam David S.	Member
Dr. M. Shankarnarayana Bhat	Member
Dr. U. Shripathi Acharya	Member
Dr. Ashvini Chaturvedi	Member
Dr. Ramesh Kini M.	Member
Dr. Deepu Vijayasenani	Member
Dr. Debashisha Jena	Member
Dr. Udaykumar R. Yaragatti	Member
Dr. K. Panduranga Vittal	Member
Dr. Gururaj S. Puneekar	Member
Dr. Shubhanga K. N.	Member
Dr. B. Venkatesa Perumal	Member
Dr. Dattatraya Narayan Gaonkar	Member
Dr. (Mrs.) Vinatha U.	Member
Dr. Manjunatha Sharman K.	Member

Dr. Geetha V. (HoD)	Member
Dr. G. Ram Mohana Reddy	Member
Dr. Ananthanarayana V. S.	Member
Dr. Jaidhar C. D.	Member
Dr. P. Sam Johnson	Member
Dr. A. Kandasamy	Member
Dr. Santhosh George	Member
Dr. Shankar B. R.	Member
Dr. Murulidhar N. N.	Member
Dr. Shyam S. Kamath	Member
Dr. Murugan Veerapazham	Member
Dr. R Madhusudhan	Member
Dr. Pushparaj Shetty D.	Member
Dr. S. M. Murigendrappa	Member
Dr. Prasad Krishna (on lien to NIT Calicut as Director)	
Dr. Narendranath S (on lien to NERIST Itanagar as Director)	
Dr. G. C. Mohan Kumar	Member
Dr. S. M. Kulkarni	Member
Dr. Ravikiran Kadoli	Member
Shrikantha S. Rao	Member
Dr. Hemantha Kumar	Member
Dr. Anish S.	Member
Dr. Srikanth Bontha	Member
Dr. P. Jeyaraj	Member
Dr. Ramesh M. R.	Member
Dr. Subhaschandra Kattimani	Member
Dr. Sharnappa Joladarashi	Member
Dr. Kumar G. N.	Member
Dr. Veershetty Gumtapure	Member
Dr. (Mrs.) Sathyabhama A.	Member
Dr. H. Shivananda Nayaka	Member
Dr. Arun M.	Member
Dr. Kumkum Banerjee	Member
Dr. K. Narayan Prabhu	Member
Dr. Jagannatha Nayak	Member
Dr. Anandhan Srinivasan	Member
Dr. Subray R. Hegde	Member
Dr. Ravishankar K. S.	Member
Dr. M. Rizwanur Rahman	Member
Dr. Harsha Vardhan	Member
Dr. M. Govinda Raj	Member
Dr. Karra Ram Chandar	Member
Dr. Aruna Mangalpady	Member
Dr. Kartick Tarafder (HoD)	Member
Dr. Udayashankar N. K.	Member
Dr. M. N. Satyanarayan	Member
Dr. Nagaraja H. S.	Member

Dr. Ajith Kulangara Madam	Member
Dr. Sheena (HoD)	Member (upto 24.01.2025)
Dr. Ritanjali Majhi	Member
Dr. Kiran K. B.	Member
Dr. Shashikantha Koudur	Member
Dr. Pradyot Ranjan Jena	Member
Dr. S. Pavan Kumar	Member
Dr. K. Varija	Member
Dr. Lakshman Nandagiri	Member
Dr. Kiran G. Shirlal	Member
Dr. Mahesha A.	Member
Dr. (Mrs.) Amba Shetty	Member
Dr. B. M. Dodamani	Member
Dr. Manu	Member
Dr. Ramesh H.	Member
Dr. Nasar	Member
Professor In-charge (CCC) / System Manager, CCC	Member
Dr. Mallikarjuna Angadi, Librarian	Member
Shri K. Ravindranath, Registrar	Secretary

### 2.3.6 Board of Studies (BOS - UG/PG/Research)

<b>Constitution:</b>	
Dean (Academic)	Chairman
Dean (Faculty Welfare)	Member
Dean (Planning & Development)	Member
Dean (Students' Welfare)	Member
Dean (Research & Consultancy)	Member
Dean (Alumni and Corporate Relations)	Member
H.O.D. of each department/their nominee	Members
Librarian, Central Library	Member
BOG member representing the faculty	Member
Three representatives from the premier academic institutions such as IIT, NIT, IISc IIM, etc. belonging to the Southern region	Members
Assistant Registrar (Academic)	Secretary





### 3. ADMINISTRATION

#### 3.1 Policy Makers

<b>DIRECTOR</b>	Prof. Bhallamudi Ravi
<b>DEANS</b>	
Academic	Prof. Dwarakish G S
Faculty Welfare	Prof. T. Laxminidhi
Planning & Development	Prof. Gangadharan K V
Alumni and Corporate Relations	Prof. Prasanna B D
Research & Consultancy	Prof. Udaya Bhat
Students Welfare	Prof. A Chitharanjan Hegde
<b>ASSOCIATE DEANS</b>	
Faculty Recruitment	Dr. Prasanna B D
Staff Welfare	Dr. Kumar G N
Alumni Network	Dr. Sowmya Kamath S
Corporate Relations	Dr. Hari Prasad Dasari
(P&D) - Development & Maintenance	Dr. Suresha S.N.
(P&D) - Planning & Procurement	Dr. Gangadhar Mahesh
Sponsored Research	Dr. Shashidhar G. Koolagudi
Academic (UG Programs)	Dr. Arun M
Post Graduate & Research	Dr. Vinatha U
Parent Interface	Dr. Rekha S
Testing & Consultancy	Dr. Sunil B M
Sports & SAC	Dr. S Pavan Kumar
<b>PROFESSOR IN-CHARGE</b>	
Student Internships	Dr. Arun M Isloor
MOUs & Agreement	Dr. Vasudev M
Institute Website	Dr. Biju R Mohan
Reservation Cell	Dr. Veershetty Gumtapure
Staff Recreation Club	Dr. Shashikantha Koudur
Communication Networks	Dr. B. R. Chandavarkarr
Continuing Education	Dr. Ashvini Chaturvedi
Transdisciplinary R&D	Dr. Pruthviraj U
Healthcare Centre	Dr. Saumya Hegde
Fellowships & Scholarships	Dr. Sharnappa Joladarashi
Central Research Facility	Dr. Keyur Raval
Brochure & Newsletters	Dr. (Ms) Dhishna Pannikot
Staff Training Programs	Dr. Bhawana Rudra
S&T Ent'ship Park	Dr. Subraya R Hegde
Admission & Enrolment	Dr. Uday Kumar D
Institute Innovation Council	Dr. Sreevalsa Kolathayar
Learning Resources	Dr. Shyam S Kamath
Civil Infrastructure	Dr. Ramesh H
Electrical Infrastructure	Dr. Venkatesa Perumal
R&D Equipment & Facilities	Dr. P Jeyaraj
University Linkages	Dr. Pradyot Ranjan Jena
Women Welfare Cell	Dr. Rashmi Uchil
Housing & Hospitality	Dr. Shyam Lal

Indian Knowledge System	Dr. Satyabodh M Kulkarni
Centre For Continuing Education & QIP	Dr. Neelavar Shekar Vittal Shet
CIC-Cell	Dr. Pathipati Srihari
Commercial Complex Establishment	Dr. Gangadharan K V
Media Advocacy & PR	Dr. Saikat Dutta
Accreditation & Ranking	Dr. Manu
Garden & Horticulture	Dr. Aparna P

### 3.2 Executives

REGISTRAR	Sri K. Ravindranath
JOINT REGISTRAR Dy. Registrar i/c (Finance & Accounts)	Sri Y Ram Mohan till 31.3.2025 Dr. Rashmi Uchil, from 1.4.2025
Assistant Registrar (Admin.) Dy. Registrar	Mr. Gaurav Choudhary till 23.8.2024 Mr. Bansod Pritam Ramesh
Deputy Registrar (in-charge) Administration, Establishment & RTI	Prof. A S Balu
Assistant Registrar (Accounts/Purchase)	Ms. Priyanka Dattanand Amadalli
Asst. Registrar Academic	Mrs. Sandhya
SAS OFFICER	Dr. Manoj
Senior SAS Officer	Dr. Hem Prasad Nath

#### Other Committees:

##### Quarters Allotment Committee

Dean (Faculty and Staff Welfare) Chairman	Superintending Engineer I/c Member
Professor-in-charge (Housing and Hospitality) Member (Secretary)	Deputy Registrar I/c (Admin, Estt. & RTI) Member
Professor-in-charge (Civil Infrastructure) Member/Joint Secretary	President – NITK-Non-Teaching Employees Association Member
Internal BoG Member (Professor's Cadre) Member	President – NITK Employees Association Member
Professor-in-charge (Electrical Infrastructure) Member	Association Dean (Faculty Welfare) Member
Professor-in-charge (Reservation Cell) Member	Associate Dean (Staff Welfare) Member
Professor-in-charge (Women Welfare Cell) Member	

##### Institute Grievance Redressal Committee

<b>Prof. Badekai Ramachandra Bhat</b> Department of Chemistry Chairperson	Dr. Chinta Sankar Rao Dept. of Chemical Engg.
Prof. Sathyabhama A Dept. of Mechanical Engg. Member	Dr. Manoj SAS Officer Member
Dr. A Senthil Thilak Dept. of MACS Member	Ms. Priyanka Dattanand Amadalli Assistant Registrar

### Security Committee

	Dean (P&D) Chairman		Dy. Registrar (F&A) Member		Superintending Engineer Member
	Dean (S.W) Member		PIC (Safety and Security) – Secretary		PIC Estate and Works Member
	Dean (FW) Member		PIC (CCC) Member		PIC Electrical & Works Member
	Registrar Member		PIC (Hostels) Member		Security Officer Member

### Library Advisory Committee

<b>Prof. Shyam S. Kamath</b> Professor In-Charge, Learning Resources	<b>Dr. Rohitkumar Nainegali</b> Member (Civil Engg.)
<b>Dr. Pushpajit Khaire</b> Member (M.A.C.S.)	<b>Dr. Kiran M.</b> Member (Inf. Tech.)
<b>Dr. Arumuga Perumal</b> Member (Mech. Engg.)	<b>Dr. Girisha H. Navada</b> Member (Electrical & Electronics)
<b>Dr. Shashi Bhushan Arya</b> Member (Met. & Mat. Engg.)	<b>Dr. Partha Pratim Das</b> Member (Physics)
<b>Dr. Suprabha K. R.</b> Member (SHSSM)	<b>Dr. B M Kunar</b> Member (Mining Engg.)
<b>Dr. B R Chandavarkar</b> Member (Computer Science)	<b>Mrs. Anusuya C.</b> Member (Central Library)
<b>Dr. Vijayendra S. Shetti</b> Member (Chemistry)	<b>Dr. Mallikarjun Angadi</b> Secretary (Central Library)

### Sports Advisory Committee

<b>Dean SW</b> Chairman	<b>Sports Secretary</b> Member
<b>Associate Dean (Sports &amp; SAC)</b> Member	<b>Joint Secretary sports</b> Member
<b>SAS Officer</b> Member	<b>Sr. SAS Officer</b> Member Secretary

### Internal Complaints Committee

<b>Dr. Rashmi Uchil</b> Associate Professor, SHSSM Chairperson, ICC-SH	<b>Mrs. Sandhya</b> Asst. Registrar (Academic) Member, ICC-SH
<b>Dr. M N Satyanarayan</b> Professor, Dept. of Physics Member – ICC-SCH	<b>Mr. Vaibhav S Lonkar</b> Superintendent (Estt. & Gen. Section) Member, ICC-SH
<b>Dr. Saranya P,</b> Asst. Professor (Grade -II) Dept of Civil Engg. Member – ICC-SCH	<b>Mrs. Manjula V. Prasad</b> NGO Member, Udupi External Member, ICC-SH

**Dr. Shweta H R**

Asst. Professor, (Grade – I), Dept. of WR&OE  
Member, ICC-SH

**Health Care Committee**

<b>Dean (Faculty Welfare)</b> Chairman, HCC	<b>Ms. Gayathri Rao K</b> Member
<b>Professor Incharge, HCC</b> Member	<b>Joint Registrar</b> Member
<b>Warden,</b> Girls Hostel Member	<b>Supdt. Accounts III</b> Member
<b>Professor in-charge (Hostel Affairs)</b> Member	<b>President Student's Council</b> Member
<b>Liaison Officer</b> SC/ST Cell Member	<b>Girls Representative</b> Member
<b>Prof. G Ram Mohan Reddy</b> Dept. of Information Technology Member	<b>Dr. Sulochana Nayak</b> Member
<b>Prof. Pavan Kumar</b> SHSSM Member	<b>Dr. M L Balabhaskara</b> Secretary
<b>Dr. C P Devatha,</b> Dept. of Civil Engg. Member	





## 4. DEPARTMENTS/ CENTERS

### 4.1 Academic Programmes

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

- Artificial Intelligence
- Chemical Engineering
- Civil Engineering
- Computational Data Science
- Computer Science & Engineering
- Electrical and Electronics Engineering
- Electronics & Communication Engineering
- Information Technology
- Mechanical Engineering
- Metallurgical & Materials Engineering
- Mining Engineering

#### II. M.Tech. (Postgraduate Programme) – Four Semesters

- Chemical Engineering
- Communication Engineering and Networks
- Computational and Data Science
- Computer Science & Engg
- Computer Science & Engg- Information Security
- Construction Technology and Management
- Environmental Engg.
- Environmental Science and Technology
- Geoinformatics
- Geotechnical Engg.
- Industrial Biotechnology
- Information Technology
- Manufacturing Engg
- Marine Structures
- Materials Engg
- Materials Process Technology
- Mechanical Design
- Mechatronics Engg
- Nanotechnology
- Power & Energy Systems
- Power Electronics and Control for Electric Vehicle (Online Programme)
- Power Electronics and Control
- Signal processing and Machine Learning
- Structural Engg.
- Thermal Engg
- Transportation Engg.
- VLSI Design
- Water Resources Engineering and Management

#### III. M.Tech. by Research:

In all the above M.Tech Programmes as well as in Rock Excavation Technology and Management in the Department of Mining Engineering

**IV. M.C.A. (Master of Computer Applications) - Six semesters****V. M.B.A. (Master of Business Administration) - Four semesters****VI. M.Sc. (Four semesters)**

- Chemistry
- Physics

**VII. Ph. D. Programme:**

Ph.D. Programmes are offered in all 14 Departments in various streams and interdisciplinary specializations.

**4.2 Academic (Admission) Calendar (2024 – 25)**

Academic Year	Programmes	Admission Commenced on	Admission closed on
2024-25	B.Tech.	11.08.2024	17.08.2024
2024-25	M.Tech.	06.08.2024	10.08.2024
2024-25	M.Tech. by Research/ Spon.	10.06.2024	14.06.2024
2024-25	MCA	10.08.2024	25.08.2024
2024-25	M.B.A.	30.05.2024	05.06.2024
2024-25	M.Sc. (Physics & Chemistry)	10.08.2024	10.08.2024
2024-25	Ph.D	10.06.2024	14.06.2024

## 5. AWARDS AND DISTINCTIONS

### DEPARTMENT OF CHEMICAL ENGINEERING

- ❖ Dr. Vidya Shetty K, Dr. Minimol M and Dr.M.B.Saidutta received IChE NRC award- Best Paper published in the IChE's Journal "Indian Chemical Engineer" in the year 2023 awarded during the Inaugural session of CHEMCON-2024 (Annual congress IChE-2024) on 27th December 2024
- ❖ Dr. Vidya Shetty K, Afshan Kilpady, Deekshitha have been granted an Indian Patent titled "Bacterial Based Synthesis of Core Shell AgO@TiO<sub>2</sub> Nanoparticles For Photocatalytic Water Disinfection And Dye Degradation" (Application Number: 201741044068 dtd. 08/12/2017) granted on 30/10/2024(Patent No.553703)
- ❖ Dr. Prasanna Belur. D and his team have been granted a patent entitled "A composition for reducing the acidity in edible aroid corms and a method of preparing edible aroid corms with reduced acidity" bearing No. 557014 has been granted on 27.12.2024.
- ❖ Dr I. Regupathi and his team have been granted a patent entitled 'Simultaneous partitioning of multiple bioactive compounds from the crude extract', Indian Patent No. 554325.
- ❖ Dr. Jagadeesh Babu and his team have been granted a patent entitled "Method for Synthesising PANI/GO based Composite Proton Exchange Membrane" bearing No. 557155
- ❖ Dr. Jagadeesh Babu and his team have been granted a patent entitled "A pH-Sensitive Topical Wound Healing Hydrogel" bearing No. 557879
- ❖ Dr. Keyur Raval and his team have been granted an Indian Patent titled "METHOD FOR PRODUCING CHITIN-DEGRADING ENZYMES AND CHITIN OLIGOMERS BY WAY OF BACILLUS ARYABHATTAI" (Patent No. 545262)
- ❖ HP Dasari, SS Patil, MB Saidutta.have been granted an Indian patent titled "Lamox Materials As Soot Oxidation Catalysts For Diesel Particulate Filters." 9<sup>th</sup> august, 2024
- ❖ HP Dasari, Sunaina S Patil have been granted an Indian patent titled "Transitional Metal-Doped Ceria Praseodymium-Based Nanofiber Catalysts Synthesised Via Electrospinning Technique for Diesel Soot Oxidation" 19<sup>th</sup> July, 2024
- ❖ HP Dasari, Vijay MP Akhil, Anjana P Anantharaman have been granted an Indian patent titled "Solid oxide fuel cell anode material as soot oxidation catalyst" 24<sup>th</sup> April, 2024
- ❖ Mr. Nishant Patil under Dr. Ashraf Ali. B received the best paper award on " Hydrodynamics of Droplet flow behaviour in Microchannel " at 9<sup>th</sup> International Conference on Recent Advancements in Chemical, Environmental and Energy Engineering (RACEEE 2025) at SSN College of Engineering, Chennai on 6th February 2025.
- ❖ Sai Teja M V under Dr. Ashraf Ali B received the best paper award on " Experimental and Numerical Investigation of Multiphase Flow Characteristics in T-shaped Microchannels" at 9<sup>th</sup> International Conference on Recent Advancements in Chemical, Environmental and Energy Engineering (RACEEE 2025) at SSN College of Engineering, Chennai on 6th February 2025.
- ❖ Mr. Abhishek S under supervision of Dr. Mohan Lal Meena won the best oral presentation award for the paper entitled "Machine learning modelling in nanocomposite synthesis using carbon nanotube embedded with polypyrrole for supercapacitor application" at NITK-CREST 2025.

### DEPARTMENT OF CIVIL ENGINEERING

- ❖ **Dr. Mithun Mohan** was awarded the Best Reviewer for the year 2024 by the Journal of Traffic and Transportation Engineering (a Q1 Journal).

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

#### **Dr. Sourav Kanti Addya:**

- ❖ Best Poster paper award (Poster track) to Prasanna Kumar, Sushma S A, Sourav Kanti Addya, K Chandrasekaran in the 17th COMSNETS 2025. Title: Collaborative deadline-sensitive multi-task offloading in vehicular-cloud networks.

- ❖ Nominated as an Editorial Board member (Associate Editor) of IEEE Transactions on Services Computing Editorial Board.

#### DEPARTMENT OF CHEMISTRY

- ❖ RSC Advances: Most cited article in 2024: Shreeganesh Subraya Hegde; Badekai Ramachandra Bhat (2024), Sustainable energy storage: Mangifera indica leaf waste- derived activated carbon for long-life, high-performance supercapacitors. RSC Adv.,14, 8028–8038. <https://doi.org/10.1039/D3RA08910J>.
- ❖ Mr. Mahesha P Nayak under the guidance of Prof. B. Ramachandra Bhat in the Department of Chemistry has secured 2nd place for presenting an oral presentation on “Enhanced bifunctional electrocatalyst for water splitting – synthesis and characterization of Cu-BTC/S-rGO composite for efficient HER and OER” at the National Conference on “Trends in Multidisciplinary Research: challenges and Applications” organized by M S Ramaiah College of Arts, Science and Commerce - Autonomous, Bengaluru on 15th and 16th, 2024.
- ❖ Ms. Sushmitha S. under the guidance of Prof. B. Ramachandra Bhat, Department of Chemistry has secured 1st place in a poster presentation titled “Non-enzymatic SnO<sub>2</sub> Biosensors for Point-of-Care Cholesterol Detection” at the National Conference on “Trends in Multidisciplinary Research: Challenges and Applications,” organized by M S Ramaiah College of Arts, Science, and Commerce – Autonomous, Bengaluru on May 15th and 16th, 2024.
- ❖ Dr. Saikat Dutta recognized as one of the **Top 2% scientists in the world**, according to Scopus data based on composite C-score in 2024 by Stanford University and Elsevier (Top 2% scientists ranking in **2024** website: <https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/7>).

#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

- ❖ Dr. Shyam Lal awarded USD 5000 Google Cloud Skills Boost Credits, 30th December 2024, Funding Organization: Google, USA, Funding: USD 5,000/- (INR 4,28,022.09) , Project duration: 6 months
- ❖ Dr. Shyam Lal and Team have got Best Paper Award for paper, titled "Modified Dual Domain Network for SAR Change Detection" has been awarded the Best Paper Award for the technical session- Signal and Image Processing Track at the CONECT'24 conference at IISc Bangalore. This recognition is a testament to the outstanding quality, innovation, and impact of your research.
- ❖ Dr. Shyam Lal received Outstanding Publication Award from VGST GoK, Funding Agency: Vision Group on Science and Technology (VGST), Department of Electronics, Information Technology, Biotechnology and Science & Technology, Government of Karnataka, VGST Scheme: Award for Outstanding Research Publication(AORP), Award: Cash Rs. 25,000 + Citation.
- ❖ G. Ramachandra and M. S. Bhat have won best paper award for the paper titled, "Vision in Versatility: Dual CCD-CMOS Imaging With Compressed Sensing for Sustainable IoT Surveillance Drones" at the IEEE CONNECT'24 at IISc Bangalore, 12-14 July, 2024.

#### DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

- ❖ Ms. Priyanka Halu awarded PG-Best thesis award at the National level: GRID-INDIA Power System Awards (GIPSA-2025) under the guidance of Dr. Gururaj S Puneekar.
- ❖ Gururaj S Puneekar and Priyanka Halu, “Electrical Load Forecasting Using Rithu’s (रिथु) of Vedic Calendar for Power Management”, received the session Best paper award at the IKS Conference in Management 2024, held during July 4th- July 6th 2024, hosted by SJMSOM, IIT Bombay.
- ❖ Dr. R Kalpana, “Outstanding WiE Professional Academia” for the year 2024 in recognition of her exceptional dedication and contributions as her efforts and commitment to promoting the mission of IEEE WIE, IEEE Bangalore Chapter.

- ❖ Dr. R Kalpana, "IEEE WinTechCon Award 2024" from the IEEE Circuits and Systems (CAS) and Women in Engineering Bangalore Chapter in the Faculty Members Category, at Bangalore on 12th -13th November 2024.
- ❖ Bussa Vinusha, Dr. R. Kalpana, and Dr. Daravath Kishan awarded Best Paper Award on the paper titled "A Two-Switch Multiport Non-Isolated DC-DC Converter for On-Board EV Charging Applications," presented at the IEEE 4th International Conference on Sustainable Energy and Future Electric Transportation (SEFET), held from July 31 to August 3, 2024, at The Plaza, Begumpet, Hyderabad.
- ❖ Dr. R Kalpana and Mr Sameer Sinha awarded, Best Paper Award on the paper titled "A Zig-Zag Multi-winding Transformer based AC-DC Converter for EV Battery charger using Interleaved Buck DC-DC Converter" in IEEE 4th International Conference on Sustainable Energy and Future Electric Transportation (SEFET), held from July 31 to August 3, 2024, at, Begumpet, Hyderabad.
- ❖ N. S. Rathod and K. N. Shubhanga, awarded Best Paper Award on the paper titled "Performance Analysis of VMD to Decompose, Detrend and Denoise Power System Signals," 2024 4th International Conference on Emerging Frontiers in Electrical and Electronic Technologies (ICEFEET), Patna, India, 2024.
- ❖ Krishna Rao and Shubhanga KN, awarded Best Paper Award on the paper titled "On the Ability of Eigensystem Realization Algorithm to Identify the Dominant System Modes", IEEE International Conference on Advances in Renewable Energy and Electric Vehicles (AREEV 2025), held at NMAM Technology, Nitte, India, 2025.

## DEPARTMENT OF INFORMATION TECHNOLOGY

### Dr. Geetha V

- ❖ Best paper award in 6<sup>th</sup> International Conference on Machine Learning, Image Processing, Network Security and Data Sciences (MIND 2024) authored by Sandya S and Geetha V for paper entitled "Multi-Stage Binarization Approach for Ancient Tigalari Palm Leaf Manuscripts", 20-21 December 2024, NIT Goa.

### Prof. G. Ram Mohana Reddy

- ❖ IndiaAI Mentorship for B. Tech (AI) Project "AI Virtual Mental Health Counselor", IndiaAI, Ministry of Electronics and Information Technology (MeitY), Gol, March 2025.
- ❖ IndiaAI Mentorship for B. Tech (AI) Project "SleepX: AI-Powered Insights into Genetic and Lifestyle Factors of Sleep Disorders", IndiaAI, Ministry of Electronics and Information Technology (MeitY), Gol, Nov. 2024.
- ❖ IndiaAI Mentorship for B. Tech (AI) Project "Enhanced Cardiovascular Disease Classification from ECG Signals via AI and Deep Learning Approaches", Ministry of Electronics/Information Technology (MeitY), Gol, Nov. 2024

### Dr. Anand Kumar M

- ❖ Elevated to the grade of IEEE Senior member
- ❖ Under the guidance of Dr. Anand Kumar M, a student has been selected for the prestigious IndiaAI Fellowship (1 Lakh Rupees) by the IndiaAI Mission, Govt. of India, to work on "Advancing Hate Speech Detection: A Multimodal AI Approach,"
- ❖ Under the guidance of Dr. Anand Kumar M, a student has been selected for the prestigious IndiaAI Fellowship (1 Lakh Rupees) by the IndiaAI Mission, Govt. of India, to work on "Optimizing LLMs".

### Dr. Janani T

- ❖ Best Paper Award in PEDES 2024

## DEPARTMENT OF MECHANICAL ENGINEERING

- ❖ According to Stanford University survey data, Prof. Ramesh M R, Prof. P Jeyaraj, Prof. Kattimani, and Dr. Arumuga Perumal are among the top 2% of scientists.
- ❖ Dr Arumuga Perumal received the Modelling and Simulation Excellence Award from NITK Global Alumni Association on 30th November 2024.

## DEPARTMENT OF MINING ENGINEERING

- ❖ Prof. Karra Ram Chandar received 'Engineers' Day Honour' from Institute of Engineers (India)- Mangalore on 15<sup>th</sup> Sept. 2024.

### Recognitions:-

- ❖ Prof. Karra Ram Chandar is an Apex Committee Member for Coal India R&D Board (2024-2026).
- ❖ Prof. Karra Ram Chandar is an empanelled Subject Expert for National Centre of Coal and Energy Research -CMPDI (2024-2025).
- ❖ Prof. Karra Ram Chandar is selected as the Expert Committee Member of AICTE (2025-2026).
- ❖ Prof. Karra Ram Chandar is member of GATE Syllabus Committee of Mining Engineering.
- ❖ Dr B. M. Kunar is nominated as a member for finalizing the vision mission statement of GCE Keonjhar, Odisha.
- ❖ Dr S K Reddy is a GATE Exam (2025) committee member for Mining Engineering.
- ❖ Dr S K Reddy is an expert committee member for Teachers Recruitment Board, Chennai (2024-2025).

## DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING

- Prof. K. Narayan Prabhu awarded IIM Distinguished Educator Award by the Indian Institute of Metals, November 2024
- Editor-in-chief recommended the article by Dr. Saumen Mandal titled "A review on high entropy silicides and silicates: Fundamental aspects, synthesis, properties" as "Editor's Choice" and as "TOP CITED ARTICLE" in International Journal of Ceramic Technology (IJACT).
- "Best paper by Young Researcher Award - 2024" to Mr. Lakkimsetti Lakshmi Praveen working under the guidance of Dr. Saumen Mandal, during the International Conference on Advanced Ceramics for Sustainability (Cera4s 2024) (November 28 – 30, 2024), organized by IIT Madras.
- Best Paper award to Mr. Bibekananda Sahoo working under the guidance of Prof. Udaya Bhat K. for the paper presentation in "2025 International Conference on Smart and Sustainable Developments in Materials, Manufacturing and Energy Engineering (SME 2025)", NITTE, Udupi, Karnataka.

## Achievements during 1st April 2024 to 31st March 2025

1. P. Gayathri, K. Sreelakshmi, V. Thota: "Equability and strong equability in Banach space", Communicated.
2. P. Gayathri, V. Thota: " On stability of restricted center properties and continuity of restricted center map under  $I_p$ -direct sum", Communicated
3. P. Gayathri Shortlisted to appear for the interview of Inspire Faculty Fellowship 2024.
4. The manuscript, titled "Elements of Functional Analysis and Operator Theory", by S. Kundu and M. AGGARWAL is submitted to a well-reputed international publishing house for consideration.
5. M. AGGARWAL Submitted two research papers to international journals

## SCHOOL OF HUMANITIES, SOCIAL SCIENCES AND MANAGEMENT

### Dr. Rahul Sivarajan

- ❖ Dr. Rahul Sivarajan received the Best Reviewer in the Human Resource Management Stream in the ANZAM (Australia New Zealand Academy of Management) 2024 Conference.





## 6. ADDITION TO BUILDING INFRASTRUCTURE

### DEPARTMENT OF MECHANICAL ENGINEERING

- ❖ Developed a Micro/Nano manufacturing laboratory inside the mechanical department building.
- ❖ The Fuel Cell lab was established inside the Central Research Facility (CRF)
- ❖ The Water Electrolysis lab was developed in the department building

### DEPARTMENT OF PHYSICAL EDUCATION -

A high-quality vinyl matting has been laid in the Table Tennis Hall to enhance the playing experience and ensure better safety and comfort for the users. In addition, the hall has been repainted with a green-colored wall specifically designed to meet the visual requirements of professional table tennis, creating an ideal environment for training and competition. Further elevating our sports infrastructure, a new international standard swimming pool adhering to FINA specifications has been inaugurated. This state-of-the-art facility includes a modern viewing gallery, advanced infrastructure, and a cutting-edge ozone-based water filtration unit, adding a significant feather to the cap of the department and enriching the institute's overall sports ecosystem

## 7. RESEARCH, DEVELOPMENT, AND CONSULTANCY PROJECTS

### 7.1 R & D Projects (Ongoing, Sanctioned, Completed)

#### DEPARTMENT CHEMICAL ENGINEERING

##### Ongoing

- ❖ A Collaborative Research Project with IIT Bombay titled "Integrated Photocatalytic and Membrane Bioreactor Process for Effective Removal of Emerging Contaminants and Disinfection" is ongoing with funding from DST Joint Research Grant under Water Technology Initiative (WTI) with Prof. Vidya Shetty K as one of the PIs jointly with PIs from IITB. Total funding: 72.32 lakhs NITK (Rs.22.8 lakhs) ; IITB (Rs.49.5 lakhs) Duration: Three years (January 2021-December 2023 and Extension granted by DST till July 2024 )
- ❖ DST-CoE – CCUS-CDI Carbon Capture Utilization and Storage – Third National level Centre of Excellence (5.35 Cr) 5 yrs Dr. Raj Mohan B (PI) Dr. R J Krupadam (PI) NEERI Nagpur
- ❖ SERB - CRG project "Investigation on Functionalised-Graphene-Oxide Anchored Arbitrator in PANI/PS based Polymer Electrolyte Membrane for Fuel Cell Application" 55 Lakhs 3 yrs Dr. JagadeeshBabu (PI) Dr. Raj Mohan B. (Co-PI)
- ❖ DST, SERB, CRG, 42.9-Lakh, Title: Investigation on Functionalized-Graphene-Oxide Anchored Arbitrator in PANI/PS based Polymer Electrolyte Membrane for Fuel Cell Application, PI- Dr. Jagadeesh Babu

##### Sanctioned

- ❖ CSIR ASPIRE Project sanctioned to **Prof. Vidya Shetty K** (sanction number 22WS (0008)/2023-24/EMR- II/ASPIRE) on 18 June 2024 Title : Microbial mediated synthesis of metal-based nanocomposites from electronic waste for water disinfection and development of a flow through water disinfection system with the immobilized nanocomposites funded by CSIR. Duration : 3 years Grant of approximately Rs.26.29 lakhs
- ❖ **Dr. Mohan Lal Meena** received Rs. 10 Lakh as Faculty seed grant for his proposal titled " Development of Layered double perovskite near infrared light emitting diode for pesticide monitoring of fruits and vegetables"
- ❖ **Dr. Rajasekaran M** received Rs. 10 Lakh as Faculty seed grant for his proposal titled" Molecular investigation of 2D materials for alcohol-water separations"

##### Completed

- ❖ LSRB-DRDO "Design and Development of Affinity Based Sensors for the detection of radiological compounds in point of CBRM emergencies using ZnO NPs functionalized by Amidoxine and Muginic Acid" (57 Lakhs) 3 yrs, Dr. Raj Mohan B (PI), Dr. JagadeeshBabu P E (Co-PI)
- ❖ CSR Grant from HEFA: Chito- oligosaccharides production from the enzymatic route, 18 lacs, (June 2022 to June 2024) Principal Investigator: Dr. Keyur Raval- Completed.

#### DEPARTMENT OF CIVIL ENGINEERING

- ❖ New resilient breakwater of safety of Port and Harbour against Tsunami, Sponsored by Ministry of Ports, Shipping and Waterways, GOI. Principal Investigator (PI): Dr. Babloo Chaudhary, Co-PI: Dr Sridhar G and Prof. Katta V, Grant: Rs. 45.0 Lakhs.
- ❖ Computation of Site-Specific Earthquake Parameters and Dynamic Analysis of Bhandardara Masonry Dam, Sponsored by Water Resources Department, Govt. of Maharashtra, No. AID/PB-3/80-2022, PI: Dr. Sreevalsa Kolathayar & Co-PI: Dr. Pavan G S (2022-25)
- ❖ Technology Development and Engineering Performance Evaluation of Jute Geocells for Slope Stabilization and Pavement Applications, Sponsored by National Jute Board, Ministry of Textiles, Govt. of India, NJB/Tech/JPDS/2022-23/8609. PI: Dr. Sreevalsa Kolathayar. Co-PIs: Dr. Raviraj H M, Dr. Somsekhar T (2023-26). Grant: Rs. 48 lakhs

- ❖ CoE in Water-related disaster management, Sponsored by Govt. of Kerala, No. 241/2022/KSCSTE, Col-laborator: Dr. Sreevalsa Kolathayar (2022-25). Grant: Rs. 60 lakhs
- ❖ Establishment of Geotextile Laboratory, Sponsored by NTTM Ministry of Textiles, Edu-23-00024, Coor-dinator: Dr. Sreevalsa Kolathayar (2024-26).
- ❖ Capacity Building on Design Thinking and Entrepreneurship, Sponsored by MoE, MoE-CBDE-2024-NITK, PI: **Dr. Sreevalsa Kolathayar**, Co-PIs: Dr. Pruthviraj U, Dr. Rashmi Uchil (2024-26)
- ❖ Development of AI-based Prediction System Coupled with Ecological Mitigation Technologies for Land-slide Prone Areas, Sponsored by DST TDP, DST/TDT/TDP-73/2022, Co-PI: **Dr. Sreevalsa Kolathayar** (2023-26). Grant: Rs. 1 crore.
- ❖ AquaWISE-AI-Enhanced Water Intelligent System Engineering for NITK Campus, Sponsored by NITK En-dowment Fund. PI: Dr. Pruthviraj U, Co-PI: **Dr. Sreevalsa Kolathayar**. Grant: Rs. 34 lakhs.

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

- ❖ Information Security Education and Awareness Phase-III-sponsored by DIT MCIT, PI: Dr. Alwyn Roshan Pais Co-PI: Dr. P. Santhi Thilagam, at the cost of 47.80 lakhs , 2024- 2025
- ❖ Establishment and PayRoll Module sponsored by CSD, PI: Dr. Sourav Kanti Addya, CO-PI: Dr. Biju R Mo-han, Dr. Anand Kumar M, Dr. Basavaraj Talawar at the cost of 39.72 Lakhs, 2022-2024
- ❖ Automatic Early Detection of Lung Cancer from LDCT Images based in Deep Neural Networks spon-sored by SERB, PI: Dr. Annappa B., Co. PI: Dr. Jeny Rajan, at the cost of 29.55Lakhs, 2023-2026
- ❖ Enhancing the Security of SELinux/SEAndroid Policies sponsored by C3iHub, IIT Kanpur, PI: Dr. Radhika B S At the cost of 14.83 Lakhs, 2023-2025.
- ❖ Solmelu, sponsored by Robosoft Technologies Pvt. Ltd, PI: Dr. Saumya Hegde, Co-PI: Dr. Mohit P. Tahi-liani, at the cost of 34.60 lakhs, 2023-24 (18 months)
- ❖ Enabling Multi-disciplinary and Broader Radio Applications for Community Empowerment (EMBRACE) sponsored by Robosoft Technologies Pvt. Ltd. PI: Dr. Pruthviraj U, Co-PI: Dr. Mohit P. Tahiliani, at the cost 75.90 lakhs, 2024-2025 (One year)
- ❖ WiFi Performance and Diagnostics, sponsored by Zen Exim Pvt. Ltd., Ahmedabad, PI: Dr. Mohit P. Tahi-liani, at the cost 13.75 lakhs, 2024-2025 (One year)
- ❖ Design and Development of freelance marketplace using Web 3.0 Technology sponsored by Robosoft Technologies Pvt. Ltd. PI: Dr. Sourav Kanti Addya, Co-PI: Dr. Mohit P. Tahiliani at the cost of 18.00 lakhs, 2022-2024.
- ❖ Intrusion Detection in Networks Slices and Software-Defined Networking sponsored by Ihub NTIHAC Foundation, IIT Kanpur. PI: Dr. Mahendra Pratap Singh, Co.PI: Dr. Alwyn Roshan Pais & Dr. Radhika B.S. at the cost of 36.33 lakhs, 2024-2027
- ❖ Migrating NITK Surathkal Campus Network to IPv6 funded by APNIC Foundation. PI: Dr. Mohit P. Tahi-liani, Co-PI: Dr. Saumya Hegde at the cost of INR 210 lakhs, 2022-2025.
- ❖ CredChain, PI: Dr. Mohit P. Tahiliani, Co-PI: Dr. Sourav Kanti Addya at the cost of INR 21 lakhs, 2024-2026.
- ❖ Design, Development and Testing of a Quantum Network Simulation Module in ns-3 funded by Quan-tum Research Park (QuRP), IISc Bangalore. PI: Dr. Mohit P. Tahiliani at the cost of INR 12 lakhs (October 2024 - October 2025).

## DEPARTMENT OF CHEMISTRY

- ❖ “Synthesis of azulene-porphyrin conjugates and their exploration as anti-Kasha-active fluorophores” Sponsored by ANRF-CRG, Principal Investigator: Dr. Vijayendra S. Shetti, at the cost of Rs. 30.01 Lakhs (completed)
- ❖ **Completed:** SERB-CORE Research Grant – 3 years November 2021-November 2024 Budget: 34.9 Lakhs, Principal Investigator: Dr. Beneesh P B Title: Synthesis of Carbo- and Heterocycle Based Novel Hybrid Polycycles and their Applications Current Status: Completed on 30<sup>th</sup> November, 2024.
- ❖ **Completed:** SERB-Core Research Grant (Ref. No. CRG/2021/001084). Title of the Project: “Prawn shell-derived natural protein-based highly efficient UV protection coating for drug products”.

- ❖ **Ongoing:** SERB-Core Research Grant (CRG/2022/009346) Title of the Project: Novel catalytic conversion of chitin biomass to furanics and levulinates via 5-(acetoxymethyl) furfural for a shell biorefinery.

## DEPARTMENT ELECTRONICS AND COMMUNICATION ENGINEERING

- ❖ "Quantitative retrieval and spatiotemporal analysis of soil quality parameters using geospatial datasets and machine learning techniques in Western plains and Ghat Regions of Karnataka", sponsored by VGST, Department of Electronics, Information Technology, Biotechnology and Science & Technology, Government of Karnataka. Co-Principal Investigator: Dr. Shyam Lal; E&C Engg., at the cost of Rs. 40.00 lakhs, (2024-2026).
- ❖ "Deep Learning-Driven Multipath Profiling and Vehicle Fingerprinting for Enhanced V2V Communication in Smart Cities" sponsored by Department of Telecommunications (DoT), Telecom Technology Development Fund (TTDF), Government of India. Principal Investigator: Dr. Prabu K; E&C Engg., Co-Principal Investigator: Dr. Shyam Lal, Dr. Ashvini Chaturvedi; E&C Engg., and Mr. Ajar Behari, Senior Director of Product Management, Radisys. at the cost of Rs. 1.29 crore, (2024-2027).
- ❖ "Design and Development of S and L5 dual band GaN HEMT based Low Noise Amplifier with built in Antenna for NAVIC Receiver", sponsored by PES University, Bengaluru, Principal Investigator: Dr. Rashmi Seethur, Co-PI: Dr. Sandeep Kumar of Rs. 10.00 lakhs, (2023-2025).
- ❖ "Design and Fabrication of Lab-on-Chip Hybrid Plasmonic Slot Waveguide based Nanograting Gas Sensor" sponsored by CSIR, Govt. of India, Principal Investigator: Dr. Mandeep Singh; E&C Engg., at the cost of Rs. 26.25 lakhs, (2023-2026).
- ❖ "Development of low phase noise optoelectronic oscillator with phase compensation approach for radar application" sponsored by DRDO, Govt. of India, Principal Investigator: Dr. Mandeep Singh; E&C Engg., (Co-PI: Prof. M. Kulkarni; Co-PI at IIT (ISM) Dhanbad: Prof. Sanjeev Kumar Raghuwanshi;) at the cost of Rs. 30.046 lakhs, (2022-2025).
- ❖ "Speech technologies in Indian languages" sponsored by MeitY, Govt. of India, Principal Investigator: Dr. Deepu Vijayasan; E&C Engg. (A Consortium project with IITM, IISc, IIT Goa and other HIEs) at the cost of Rs. 90.00 lakhs (NITK grant), (2022-2025).
- ❖ "Design and Development of Automated Software Tools for Early Forest Fire Detection and Burn Severity Analysis from Multi-sensor Satellite Imagery Data" sponsored by IIRS(ISRO), Principal Investigator: Dr. Shyam Lal, Dr. Ragavendra B.S. and Dr. Aparna P.; E&C Engg., at the cost of Rs. 37.9 lakhs, (2022-2025).
- ❖ "Nanophotonic porous-silicon based nanostructures for ultra-fast methanol sensing at room temperature" sponsored by SERB-DST Govt. of India, Principal Investigator: Dr. Mandeep Singh; E&C Engg., at the cost of Rs 35.58 lakhs, (2022-2025).
- ❖ "Fractional order non-local Variational Regularization Models and their Applications in Image Processing" sponsored by SERB-DST Govt. of India, Principal Investigator: Dr. Bini A A at the cost of Rs 6.60 lakhs, (2022-2025).
- ❖ "Engineering novel label free multi-layer plasmonic nano-biosensor for DNA hybridization" sponsored by Department of Biotechnology (DBT), Ministry of Science and Technology, Govt. of India, Principal Investigator: Dr. Mandeep Singh; E&C Engg., at the cost of Rs. 57.49 lakhs, (2021 to 2026).
- ❖ "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).

## DEPARTMENT ELECTRICAL AND ELECTRONICS ENGINEERING

- ❖ Design and Development of Low Power Wind Turbine System for Telecom Tower Application Sponsored by MoweAIR, GMBH, Germany, PI: Dr. Dastagiri Reddy, Co-PI: Dr. Prajof P., at the cost of 42,000 Euros from July 2024(ongoing)
- ❖ Bio Signal Processing System for the development of human-machine interaction sponsored by Ministry of Electronics & Information Technology, MeitY, Government of India, Principal Investigator: Dr. Krishnan CMC at the cost of Rs. 25 Lakhs from 2019-2024.

- ❖ Smart Electric Vehicle Supply Equipment with improve Reconfigurability, Economic, Availability and Performance (REAP) sponsored by DST-SERB Core Research Grant, Principal Investigator: Dr. B Dastagi-ri Reddy at the cost of Rs. 60 Lakhs from 2021-2024.
- ❖ An affordable therapeutic solution for rehabilitation of cerebral palsy children with crouch gait, sponsored by DST-SERB Core Research Grant, PI: Dr. Krishnan C M C. at the cost of Rs. 60 Lakhs, from 2021-2024.
- ❖ Design and Development of highly efficient and high voltage gain DC-DC converter for grid connected PV System sponsored by Ind Arka Energy Pvt. Ltd., Bangalore, PI: Dr. Vignesh Kumar V. Co-PI: Prof. B. Venkatesaperumal, Rs. 8.07 Lakhs, 2022-2024.
- ❖ Design and Development of Multi Input/Multi Output Power Converter Sponsored by Indian Space Research Organization (ISRO), PI: Dr. A. Karthikeyan at the cost Rs. 26.13 Lakh, from 2022 - 2024.
- ❖ Laboratory scale demonstration of a Kite based wind power system Sponsored by Science and Engineering Research Board (SERB), PI: Dr. A. Karthikeyan at the cost Rs. 51.05 Lakh, from 2022 - 2025.
- ❖ Design and Development of Partial Power Processing Converter for Efficient Utilization of Solar PV System Sponsored by VGST Karnataka, PI: Dr. Md. Waseem Ahmad at the cost Rs. 3 Lakh, from March 2023.
- ❖ Sophisticated Optimised DC-DC Converter for Charging Electric Vehicles Using Reliable GAN devices and Planar Magnetics Sponsored by Science and Engineering Research Board (SERB), Department of Science & Technology, Bharat Sarkar (GoI), PI: Dr. R. Kalpana at the cost of Rs. 30Lakhs, 2023-2026.
- ❖ Solar PV based electric vehicle charge with V2G and G2V capability for net-zero emission e-mobility Sponsored by Centres of Innovative Science, Engineering and Education (CISEE), PI: Dr. B. Venkatesaperumala, at the cost of Rs. 30 Lakhs, from 2023-2025.
- ❖ Design & Development of High-Power Multi-output GaN based DC-DC converter with 70V input and Digital Control Loop Sponsored by ISRO Respond, PI: Dr. V. Vignesh Kumar, Co PI: Dr. B. Venkatesaperumala at the cost of Rs. 26.03 Lakhs from 2023-2025
- ❖ Design of Inductive Coil Sturcture and Controller for 3-Phase Wireless EV Charger Sponsored by L&T Technology Services, Bangalore, PI: Dr. Dharavathk Kishan, Co-PI: Dr. Prajof P at the cost of Rs.7.15 Lakhs from 2023-24.
- ❖ Development and Validation of an India Solar Energy Nowcasting System (ISENS) in India in support to the local TSO and DSO's Sponsored by Ministry of Power Through CPRI Bangalore. PI: Dr. Yashwant Kashyap at the cost of Rs. 49.99 Lakhs from 2024.
- ❖ Rare Earth Magnet-Free Axial Flux Synchronous, Radial Flux Switched Reluctance Motor and their Controllers for EV Applications". Supported by Anusandhan National Research Foundation (ANRF) for financial support through Electric Vehicle Mission under Mission for High Impact Areas (MAHA) program. PI: Dr. B. Venkatesaperumala, at the total cost Rs. 7.25 Crore, from 2025-2028.

## DEPARTMENT OF INFORMATION TECHNOLOGY

### ONGOING

- ❖ Decision Support System for Delivery Management using Fetus Weight Estimation and Maternal Features, Duration: 3 Years from March 2024, Grant: SERB-TARE, Role: Mentor (Prof. Ananthanarayana V S) Budget: 18.3Lakhs [ANRF/F/1349/2024-25, Dated 14 May 2024]
- ❖ Artificial Intelligence-based Modeling and Assessment of Saltwater Intrusion Phenomenon, sponsored by SERB POWER Grant, funded by DST SERB, Govt. of India, at the cost of Rs. 30 Lakhs. Duration: 2022-25. (Co-PI: Dr. Sowmya Kamath S)
- ❖ Bharat 5G Use Cases Lab, sponsored by the Department of Telecommunications, Govt. of India. Funded at the cost of Rs. 71 Lakhs. Duration: 2023-28. (Co-PI: Dr. Sowmya Kamath S)
- ❖ A project titled, "A Deep Explainable Framework for Semantically Similar Document Retrieval and Summarization of Legal Text" sanctioned by ANRF- SERB-CRG, Govt. of India, Amount: Rs. 42 Lakhs, Duration: 3 years (2024 - 2027) [Dr. Anand Kumar M]
- ❖ A project titled, "Creating Awareness in the Field of Artificial Intelligence through Hands-on Activities for School Children in Select Districts of Karnataka, Kerala and Tamil Nadu" sanctioned by DST-NCSTC, Govt. of India, Amount: Rs. 37.12 Lakhs, Duration: 3 years (2024 - 2027) [Dr. Anand Kumar M]

- ❖ "Artificial Intelligence-based Modeling and Assessment of Saltwater Intrusion Phenomenon in West-Flowing Rivers of Coastal Karnataka using Multimodal Data Sources", Sponsored by SERB-POWER. Principal Investigator: Dr.Shrutilipi Bhattacharjee at the sanctioned cost of 28+ Lakhs
- ❖ Implementation of Quantum Support Vector machine and Quantum Naive Bayes System for the Detection of Spam and Non Spam Mails Sponsored by Meity. Principal Investigator: Dr.Bhawana Rudra at the cost of Rs. 14.29 Lakhs
- ❖ Quantum Cryptanalysis using Grover's Quantum Search Algorithm Sponsored by SAG-DRDO. Principal Investigator: Dr.Bhawana Rudra at the cost of Rs. 5129154 Lakhs.
- ❖ Development of Independent Quantum Random Number Evaluator For Real-Time Validation" sponsored by Qnu Labs. Principal Investigator: Dr.Bhawana Rudra for a total amount of Rs.352277.20/-

#### **SANCTIONED**

- ❖ A PQC based - Lightweight Key Exchange Scheme for Secret Key Communication, Sponsored by TIH, IBITF, IIT Bhilai for an amount of RS. 25,37440/--Dr. Bhawana Rudra

#### **COMPLETED**

- ❖ Microsoft AI for Earth Grant Spatial Data Analytics for Environmental Modeling, funded by Microsoft at the cost of US \$15,000. Duration: 2022-23. (PI: Dr. Sowmya Kamath S.)
- ❖ Google Cloud COVID-19 Research Grant, funded by Google Inc. at the cost of US \$10,600. Duration: 2020-21. (PI: Dr. Sowmya Kamath S.)
- ❖ A Framework for Deep Learning-based Analytics for Intelligent Healthcare Applications, sponsored by DST-SERB (Early Career Research Grant), funding Rs. 32.56 Lakhs. Duration: Jun 2017 - Aug 2020. (PI: Dr. Sowmya Kamath S.)

### **DEPARTMENT MATHEMATICAL AND COMPUTATIONAL SCIENCES**

- ❖ A study on non-linear ill-posed equations under weak conditions with emphasis on Parameter Identification Problem and Applications to Imaging, Core Research Grant by SERB, Department of Science and Technology, Govt. of India, No. CRG/2021/004776 , Rs.2123264
- ❖ P. Jidesh (PI) and S. George (coPI) A retinex inspired framework for intensity homogenization contrast upgradation and restoration of satellite and area images,Core Re-search Grant by SERB, Department of Science and Technology, Govt. of India, CRG/2020/000476., Rs. 2299264
- ❖ A study of frames for operators in Hilbert spaces, sponsored by SERB-TARE. Principal investigator: Prof. P. Sam Johnson; Rs.18,30,000/ (18.10.2022 to 17.10.2025)
- ❖ Hyers-Ulam stability of frames and operators in Hilbert spaces, sponsored by DAE-NBHM; Principal investigator: Prof. P. Sam Johnson; Rs.2,71,500 (04.05.2023 to 03.05.2026)
- ❖ Hyers-Ulam Stability of Unbounded Operators and Co-Semigroup Operators, sponsored by SERB-MATRICES ; Principal investigator: Prof. P. Sam Johnson; Rs.6,60,000/ (21.12.2023 to 20.12.2026)
- ❖ Non-local and Non-Convex fractional order Total Variation minimization models and their applications in image restoration, PI: Jidesh P., Funding Agency: SERB/ANRF, Outlay: Rs. 6,60,000/-, March 2023-March-2026, Ongoing.
- ❖ Artificial Intelligence framework for prediction of accidents and antisocial events through video surveillance., Principal Investigator: Dr. Pushpajit Khaire, MACS, Amount- 8.15 Lakhs Faculty Seed Grant (FSG)
- ❖ Institute Faculty seed grant titled "Stress-Strength reliability for lifetime distributions based on survival signature" Rs:730000/-
- ❖ Design and Development of Message Authentication Techniques for NavIC, Funding Agency: ISRO, Govt. of India, Role: Principal Investigator, Funding Amount: 21.78 Lakhs. Period: June 2024 to June 2026



## DEPARTMENT MECHANICAL ENGINEERING

- ❖ Dr Mervin Joe Thomas and Prof. Gangadharan received funding of Rs 1.53 crores from the Indian Council of Medical Research (ICMR) for the development of a smart bed to prevent bedsores.
- ❖ Prof. Sathyabhama received funding of Rs 15 Lakhs from VGST Karnataka for the development of a ternary mixture-based solar absorption refrigeration system.
- ❖ Prof. Sathyabhama received funding of Rs 47.08 Lakhs from ANRF for the investigation into the effect of water on the boiling heat transfer coefficient of NH<sub>3</sub>/LiNO<sub>3</sub> mixture.
- ❖ Dr. Ranjeet Kumar Sahu, Prof. Hemantha Kumar, and Prof. Debashisha Jena received funding of Rs 30.23 Lakhs from SERB DST for the synthesis of Intelligent Nanostructured Materials via a Plasma Source based Digital Nanomanufacturing Method and their Characterisation.
- ❖ Dr. Ranjeet Kumar Sahu, Prof. Hemantha Kumar, and Prof. Debashisha Jena received funding of Rs 28.18 Lakhs from SERB DST for the Semi-Active Damping using Controllable Orifice for Four Wheeler Automobile.
- ❖ Dr. Saurabh Chandraker and Dr Ranjeet Kumar Sahu received funding of Rs 31.56 Lakhs from SEED DST for the design and development of Hybrid-FRP based Composites for Low-cost and Sustainable Mobile Shelter Houses.
- ❖ Dr. Srikanth Bontha and Dr. Rajasekaran B (NITK) received funding of Rs 3.38 Crores from DRDO for assessing suitable additive manufacturing technology for processing Titanium Aluminide components with desired microstructures and high-temperature properties for aeroengine applications.
- ❖ Dr. Srikanth Bontha (NITK); Dr. Sunil Chakrapani, Michigan State University, USA received funding of Rs 44.48 Lakhs from SPARC for Laser Additive Manufacturing of Novel and High-performance Ni-based Superalloy Composites.
- ❖ Dr. Srikanth Bontha and Dr. A.S.S. Balan received funding of Rs 31.06 Lakhs from SERB-CRG for Laser Directed Energy Deposition of Functionally Graded Cu-SS316L structures for Power Generation Applications.
- ❖ Dr. A.S.S. Balan and Dr. Srikanth Bontha received funding of Rs 36.5 Lakhs from ANRF (SERB-CRG) for Functionally Graded Cu-Cr-Zr / NiCrAlY / YSZ based thermal barrier coating using Laser Directed Energy Deposition for Rocket nozzle Applications.
- ❖ K V Gangadharan, B Venkatesa Perumal, Jeyraj P (NITK), Kamalesh Hatua, Sankaran (IITM), Jose Titus (IIT Hyderabad), Ganesh (CDAC) received funding of Rs 10.33 Crores from ANRF (SERB-CRG) (90%) + 7Industries (10%) for Rare Earth Magnet-Free Axial Flux Synchronous, Radial Flux Switched Reluctance Motor and their Controllers for EV Applications.
- ❖ Jeyraj P, K V Gangadharan received funding of Rs 25 Lakhs from DRDO for the design and analysis of foldable kinematic linkage mechanisms for antenna deployment for the HMV 6x6 platform.
- ❖ K V Gangadharan, Pruthviraj U, and Bijuna C Mohan received funding of Rs 25 Lakhs from Ministry of MSME, DC + M/s Bellare GIS Consultancy OPC Private Ltd for the development of a hand-held compact non-optical sensor device for soil analysis- GPS/GIS.
- ❖ K V Gangadharan, Pruthviraj U received funding of Rs 1.25 Crores from International Sustainable Energy Foundation ("ISEF") for Green Waves: Electrifying Cochin Port and Harit Sagar Transformation.
- ❖ K V Gangadharan, Pruthviraj U received funding of Rs 1.01 Crores from International Sustainable Energy Foundation ("ISEF") for Moo-Ving Forward: Electrifying Karnataka's Milk Industry.
- ❖ Sruthilipi, Swomya Kamath, Pruthviraj U, K V Gangadharan, S.K. Ghosh(IIT KGP) received funding of Rs 28.79 Lakhs from SERB for Artificial intelligence-based modelling and assessment of saltwater intrusion phenomenon in west-flowing rivers of coastal Karnataka using multimodal data sources.
- ❖ K V Gangadharan, Pruthviraj, and Sewa Ram (SPA Delhi) received funding of Rs 1.80 Crores from the International Sustainable Energy Foundation ("ISEF") for the Electrification of Indian Seaports and research-based policy recommendation.
- ❖ K V Gangadharan, Pruthviraj U received funding of Rs 3.76 Crores from NMEICT for Virtual Lab Phase III Etn.
- ❖ P S Suvin received funding of Rs 15.6 Lakhs from ANRF (SERB-CRG) for enhancing lubricant performance in an electrical environment to overcome bearing failures in electric vehicles.
- ❖ Poornesh Kumar Koorata received funding of Rs 40 Lakhs from Petronet LNG Ltd for Fuel cell technology development.

- ❖ Poornesh Kumar Koorata received funding of Rs 99.9 Lakhs from Petronet LNG Ltd for low-weight fuel cell stack development.
- ❖ Dr. Ranjith M, Dr. Krishnan CMC received funding of Rs 25.2 Lakhs from CRG SERB for Investigations on inertial migration dynamics of aerosol particles.
- ❖ Dr. Ajay Kumar Yadav and Dr. M. R. Ramesh received funding of Rs 23.8 Lakhs from CRG SERB for the design and development of a Supercritical carbon dioxide-based naturally circulated solar thermal collector.
- ❖ Dr. M. R. Ramesh and Dr. Sharnappa Joladarashi received Rs 30.2 Lakhs from CRG SERB to evaluate the performance of HVAF-sprayed NiAl intermetallic-based composite coatings for aerospace repair and manufacturing applications.
- ❖ Dr Vasudeva Madav and Co-PI Prof Ashok Babu received funding of Rs 1.36 Crores from ADA Bangalore for the Generation of design data VCS Condenser g effect at NITK for AMCA
- ❖ Dr Vasudeva Madav received funding of Rs 48.6 Lakhs from Tecnimont Pvt—Ltd for Implementation of Biogas Plant and related LCA Studies Phase-I.
- ❖ Dr Vasudeva Madav received funding of Rs 1.20 Crores from TCMPL & KTIPO and MAIRE Group for the Implementation of a Tonne Biogas Plant and related LCA Studies Phase -II.
- ❖ Dr Vasudeva Madav received funding of Rs 8 Lakhs from TCMPL for Experimental Investigation of Steam Biogas Reforming to Produce Hydrogen from Food Waste Generated Biogas.
- ❖ Dr Vasudeva Madav received funding of Rs 5 Lakhs from Shri R Krishna Murthy,1981 Batch NITK/KREC (Alumnus) for Green Hydrogen Production by Sea water Electrolysis.
- ❖ Dr Vasudeva Madav received funding of Rs 2.5 Lakhs from Ghatge Patil Industries Pvt Ltd, Maharashtra, for Pilot studies on the generation of Electricity for the NITK campus using the campus waste Phase 3 Proposal: Food and vegetable Waste Management.
- ❖ Dr Vasudeva Madav, Dr. Navin Karanth P.Dr. Saumya Hegde, Dr. Dinesh Naik, Dr Saikat Dutta, Prof. Arun Kumar Thalla, Prof. Shrikanth S Rao received funding of Rs 16.46 Lakhs from Warrior HEART Hub for Pilot studies on the generation of Electricity for an AI-ML-based system for Sustainable Waste Management at NITK Campus.

## DEPARTMENT OF MINING ENGINEERING

- ❖ Performance of Electronic Detonators in Limestone Mines, Sponsored by M/s. Ramco Cements Limited. Principal Investigator: PI: Prof. Karra Ram Chandar, Co-PI: Prof. M. Govinda Raj (Budget: Rs. 6.5 Lakhs) (On-going 2024-2026).
- ❖ Determination of optimum safe distance of dump from pit and design guidelines for overall stability in open pit mines in different geo-mining conditions, SERB, CRG (Ongoing), 2024-2026. (Sanction order no. 91/NITK/MIN/SKR/SERB/2024-25/A18 Dated 10/06/2024: Rs. 35.28 lakhs) (PI: Dr. Sandi Kumar Reddy)
- ❖ Underground Mine Real Time Air Quality Monitoring and Assessment at Surface Control Room based on LoRa Sensors, IoT and Machine Learning Techniques, Sponsored by Vision Group on Science and Technology, Govt. of Karnataka, 2023-2025 (Sanction order no. KSTePS/VGST/K-FIST L1/GRD No.1047/2021-22/427 dated 15/02/2023: Rs. 15.00 lakhs) (PI: Dr. Sandi Kumar Reddy & CI: Dr. M. Aruna)
- ❖ Scientific Study for Pit Stability of Subbarayanahalli Iron Ore Mine & Thimmappanagudi Iron Ore Mine, Sponsored by M/s. Karnataka State Minerals Corporation Limited (A Govt. of Karnataka Undertaking), 2023-2025. (ongoing) (Sanction order no. KSMCL/Prod/NITK/Correspondence/2022-23/3046 dated 07/02/2023: Rs. 9.98 lakhs) (PI: Dr. Sandi Kumar Reddy & CI: Dr. M. Aruna)
- ❖ Definition of Delay Sequencing in Blast Designs Using Advance Analytical Techniques for Optimization of Blast Fragmentation and Improving Mine Economics in Non-Coal Mines, (Jointly with CIMFR-Nagpur & Anna University), Sponsored by Ministry of Mines – Govt of India. Principal Investigator: PI: Prof. Karra Ram Chandar jointly, Total budget:Rs. 42 Lakhs. (On-going 2022-2025).



## DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

- ❖ “Surface Engineering of Biomedical Implants for the Prevention of MDR Infection” Funded by DST/ICD/BRICS/Call-5/SEBIPMI/2023, Principal Investigator: **Dr. Selvakumar Murugesan**, Dept. of Met & Matls. Engg., at the cost of Rs.44,34,400/-
- ❖ “Fabrication of 2-D Layered Nanosheets Strengthened Multifunctional Coating for Bone Tissue Regeneration” Funded by DST, Principal Investigator: **Dr. Selvakumar Murugesan**, Dept. of Met & Matls. Engg., at the cost of Rs.11,64,260/-
- ❖ “Development of High Temperature Wear and Erosion Resistant Coatings for Thermal Components using High-Velocity Air Fuel (HVOF) Spraying – A Robust Cost-Effective Technology”, Funded by CPRI, Principal Investigator: **Dr. B. Rajasekaran**, Dept. of Met & Matls. Engg., at the cost of Rs.56,70,000/-
- ❖ “Improvement of Surface Properties of CFRP payload components” funded by Space Application Centre (SAC-ISRO), Principal Investigator: **Dr. B. Rajasekaran**, Dept. of Met & Matls. Engg., at the cost of Rs.36,00,000/-
- ❖ “Realisation of Al Alloy AA2219/AA2014 Integrally Stiffened Cylindrical Structure through Flow Forming”, funded by ISRO. CO-PI: **Dr. Preetham Kumar GV**. Amount sanctioned: Rs. 88 lakhs. Sanction letter number: ISRO/RAC-S/NITK/2021-22
- ❖ “Prawn shell-derived natural protein – based highly efficient UV protection coating for drug products” sponsored by Science & Engineering Research Board (SERB), Principal Investigator: **Dr. Saumen Mandal**, Dept. of Met & Matls. Engg., Co-principal Investigator: Dr. Saikat Dutta, Dept. of Chemistry, at the cost of Rs.35,21,650/-
- ❖ ANRF TARE Project, “Design and Development of Thermo Electric Cooler Integrated Nano-PCM Based Portable Milk Device for Rural Use”, File Number: TAR/2023/000177 Mentor: **Prof. K. Narayan Prabhu**, Dept. of Met & Matls. Engg.
- ❖ “Single Photon Detection in NIR Region with Rare Earth Element Doped Graphene Quantum Dot Sponsored by Quantum Research Park (QuRP)”, Principal Investigator: **Prof. Mohammad Rizwanur Rahman** at the cost of 12 Lakhs.
- ❖ “Development of Adrenaline Auto Injector Prototype for Intramuscular use in Serious Allergic Reactions”, funding by DST-MIDAS, Prof. S. Anandhan, Co-PI (PI: Prof. Sharnappa Joladarashi, NITK) at the cost of INR 33,85,454
- ❖ “Integrated Experience of Additive Manufacturing from Lab Scale to Industrial Scale”, funding by [National Science Foundation \(USA\)](https://www.nsf.gov/) International Research Experience for Students (IRES) grant, Amount: US \$ 269,333, **Prof. S. Anandhan**, Co-PI (PIs: Prof. Nikhil Gupta, New York University, USA & Dr. Mrityunjay Doddamani, IIT Mandi)

## SCHOOL OF HUMANITIES, SOCIAL SCIENCES AND MANAGEMENT

### (ONGOING)

- ❖ **Prof. Ritanjali Majhi**- Sustainable Farming Futures: Unlocking the Potential of Circular Agri-Food Systems for Farmer, Funded by SPARC GoI 2023-2025, Rs. 54,02,261.
- ❖ **Prof. Pradyot Ranjan Jena & Prof. Ritanjali Majhi** - Impact of Soil Health Card Scheme on Productivity and Income of the Farmers: A Randomized Control Trial (RCT) Experiment in Eastern India, Rs. 70 Lakhs. Funding Agency: Asian Development Bank Institute, Japan.
- ❖ **Dr. Bijuna C. Mohan**, Co-PI- Dr. Prithviraj U - Wristband Design Solution with Emergency Alerts for lifeguards, Activity Sponsored by Ministry of MSME. Principal Investigator: at the cost 17.20 Lakhs. Principal Investigator: Dr. Anand Kumar M, Co-PI- **Dr. Bijuna C Mohan**, Creating awareness in the field of artificial intelligence through hands-on activities for secondary school children in select districts of Karnataka, Kerala, and Tamil Nadu, sponsored by DST, at the cost 37.12 Lakhs

### (SANCTIONED)

- ❖ **Dr. Bijuna C. Mohan**, Co-PI- Prof. K V Gangadharan - Development of hand-held compact non-optical sensor device for soil analysis- GPS/GIS Activity Sponsored by Ministry of MSME. Principal Investigator: at the cost 22.93 Lakhs.

- ❖ **Dr. Rajesh Acharya H**-'Rural-Urban Casual Labour Migration and Energy Poverty: Household-Level Evidence' sponsored by the Indian Council of Social Science Research (ICSSR). Principal Investigator: Rajesh Acharya H with a budget of Rs. 17 lakhs.

#### DEPARTMENT OF PHYSICS

- ❖ Transition Metal Oxide Based Devices for Nonvolatile Resistive Random Access Memory Applications (ongoing)
- ❖ "Development and Characterization of Advanced Solar cell" ( G.R.D. - 536) (Ongoing)

#### DEPARTMENT OF WATER RESOURCES AND OCEAN ENGINEERING

- ❖ Quantitative retrieval and spatio-temporal analysis of soil quality parameters using Geospatial datasets and machine learning techniques in Western Plains and Ghat regions of Karnataka, sponsored by: Vision Group on Science and Technology(VGST), Department of Electronics, Information Technology, Biotechnology and Science & Technology, Government of Karnataka, Project Investigator(PI) : Dr. Shwetha H R, Project Co-Investigator: Dr. Shyam Lalat the cost of Rs. 40 Lakhs, from 2024 to 2026.

### 7.2 Consultancy Projects

#### DEPARTMENT OF CHEMICAL ENGINEERING

- ❖ Performance Evaluation of STP and TTP at MSEZ. Kavour, by Mangalore MSEZ Ltd, Mangalore. PI – Dr. Raj Mohan B
- ❖ Rapid EIA study for maintenance dredging projects {Amadalli, Tadri, Harwada, Belekeri} in Uttara Kannada district by Fisheries Harbour Project, Tadri 21-10-2024 PI – Dr. Raj Mohan B
- ❖ ETP Adequacy Study as per CPCB Guidelines at Humnabad Unit NICHINO INDIA 11-06-2024 PI – Dr. Raj Mohan B

#### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

- ❖ Knowledge Partner for Cloud Development and Architecture, Tata Consultancy Services(TCS)-iON. PI: Dr. Annappa & Dr. Sourav Kanti Addya from January 2024-2027.
- ❖ Basic DevOps Engineering, TCS iON. PI: Dr. Basavaraj Talawar from July – December 2024.
- ❖ RemoteUs: A WAN Aggregation Solution - Phase 0 Tata Communications Ltd. PI: Dr. Mohit P. Tahiliani, duration: 2.0 months, Rs. 4,60,200 (Start date: 18-03-2024)
- ❖ Design and Development of a Video Analytics Platform, MACS-G Solutions DMCC, Dubai. PI: Dr. Mohit P. Tahiliani, duration: 12.0 months, Rs. 14,85,000 (Start date: 29-02-2024)
- ❖ Development and Verification of Quantum Encryption Defender Products, Outside the Stacks, Inc., USA. PI: Dr. Mohit P. Tahiliani, duration: 12.0 months, Rs. 6,48,000 (Start date: 24-01-2024)
- ❖ Samsotech Online Check-in Solution Samsotech International FZC, Dubai PI: Dr. Mohit P. Tahiliani, duration: 4.0 months, Rs. 2,40,000 (Start date: 04-10-2023).
- ❖ Multi-Source Text Extraction and Document Generation Module, Prasanna Technologies Private Limited. PI: Dr. Mohit P. Tahiliani. Duration: 1 month, Rs. 42,480 (Starting date: 14-10-2023).
- ❖ MACS-G Solutions DMCC, Dubai. PI: Dr. Mohit P. Tahiliani, Co-PI: Dr. Kedarnath Senapati. Duration: 6.0 months, Rs. 7,92,000 (Start date: 11-07-2023)
- ❖ Testing and Consultancy Module in IRIS funded by NITK Surathkal. PI: Dr. Mohit P. Tahiliani at the cost of INR 7.49 lakhs (Feb 2023 - July 2023).
- ❖ Design and Development of Research Projects Module in IRIS funded by NITK Surathkal. PI: Dr. Saumya Hegde, Co-PI: Dr. Mohit P. Tahiliani at the cost of INR 9.75 lakhs (November 2023 to March 2024).

- ❖ Empirical Evaluation of Named Data Networking for Modern Day Applications, Tata Communications. PI: Dr. Mohit P. Tahiliani. Duration: 4 months, Rs. 14,51,400
- ❖ Shadow IT Detection using Corporate Email, Normalyze Inc. PI: Dr. Mohit P. Tahiliani. Duration: 3 months, Rs. 1,79,542.
- ❖ Database Query Analysis, Normalyze Cloud Security Services Private. PI: Dr. Mohit P. Tahiliani. Duration: 3 months, Rs. 2,11,869.
- ❖ RemoteUs: A WAN Aggregation Solution - MVP, Tata Communications. PI: Dr. Mohit P. Tahiliani. Duration: 6 months, Rs. 29,50,000
- ❖ Design and Development of Connector APIs , Normalyze Cloud Security Services Private. PI: Dr. Mohit P. Tahiliani. Duration: 3 months, Rs. 2,11,869.
- ❖ AI-Driven Video Stitching and Object Detection for Enhanced Surveillance and Analytics, Croma Technolabs. PI: Dr. Jeny Rajan, Co-PI: Dr. Mohit P. Tahiliani. Duration: 5 months, Rs. 9,15,975.
- ❖ Design and Development of Connector APIs - Phase 2, Normalyze Cloud Security Services Private. PI: Dr. Mohit P. Tahiliani. Duration: 5 months, Rs. 6,12,066
- ❖ Samsotech EasyOrder Application, Samsotech International FZC. PI: Dr. Mohit P. Tahiliani. Duration: 5 months, Rs. 4,46,728.

#### DEPARTMENT OF CHEMISTRY

- ❖ Testing and Consultancy on the purity of Silver and Gold coated Silver plate design from Shri Hosa Marigudi Devasthanana, Kap, Rs. 38940.00 (NITK/CY/2024-25/0002) Feb, 2025.
- One consultancy project with Sea6 Energy Pvt. Ltd, Bangalore, has completed (Rs. 1.9 L).

#### DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

- ❖ Integrated Charger Inverter for Electric Vehicles, Hella India Automotive Pvt. Ltd., Pune, PI: Dr. B Dastagiri Reddy and Dr. Prajof P. from 2022(Ongoing)

#### DEPARTMENT OF INFORMATION TECHNOLOGY

- ❖ EMC Automation, Duration: 1 Year, 2024 – 25, Budget: Rs. 7, 15, 640, Agency: Marelli, India Role: Principal Investigator (Prof. Ananthanarayana V S) Co-Principal Investigator (Dr Sowmya Kamath and Dr Geetha V)
- ❖ AR-HUD Design, Duration: 1 Year, 2024 – 25, Budget: Rs. 8, 64, 360, Agency: Marelli, India, Role: Principal Investigator (Dr Geetha V) Role: Co-Principal Investigator (Dr Sowmya Kamath and Dr Ananthanarayana V S)
- ❖ "Business Data Management using AI/ML", MIS India, sponsored at the cost of Rs. 28.34 Lakhs for the duration of 2022-24. PI: Dr. Sowmya Kamath S.

#### DEPARTMENT OF MECHANICAL ENGINEERING

- ❖ Prof. Keyur Raval and Dr. Ranjeet Kumar Sahu, Inspecting the materials of PVC fills and PVC drift eliminators, Hamon Cooling Systems Pvt. Ltd., Rs. 0.0826 Lakhs
- ❖ Poornesh Kumar Koorata and Sudhakar Jambagi, Quality inspection of equipment supplied to Wenlock Hospital, M/s SLN Associates, Rs. 0.236 Lakhs
- ❖ Poornesh Kumar Koorata, Quality check report on hospital furniture supplied to Wenlock Hospital, M/s Minerva Healthcare and Scientific Pvt Ltd, Rs. 0.165 Lakhs
- ❖ Poornesh Kumar Koorata, Quality check report on hospital furniture supplied to Wenlock Hospital, M/s Imtiaz Engineering Enterprises, Bangalore, Rs. 0.165 Lakhs
- ❖ Ramesh H, Poornesh Kumar Koorata, SC Kattimani, Rapid EIA study for maintenance dredging projects, Fisheries Harbour Project, Tadri, Rs.7.18 Lakhs

- ❖ Ramesh H, Poornesh Kumar Koorata, SC Kattimani, Detailed Rapid EIA report for the modernisation of Gangolli fisheries harbor, Additional Director, Fisheries, Rs. 6.18 Lakhs.
- ❖ Ramesh H, Poornesh Kumar Koorata, SC Kattimani, Detailed Rapid EIA report for the modernisation and upgradation of Malpe fisheries harbor, Additional Director, Fisheries, Rs. 4.13 Lakhs
- ❖ Ramesh H, Poornesh Kumar Koorata, SC Kattimani, Detailed Rapid EIA report for the modernisation and upgradation of the Mangalore fisheries harbor, Additional Director, Fisheries, Rs. 9.44 Lakhs.

## DEPARTMENT OF MINING ENGINEERING

- ❖ Blast Vibration Study in the quarry of Mr. Sridharan. T, Idukki- Dist, Kerala (2025), PI: Prof. Karra Ram Chandar.
- ❖ Slope stability Study of Mr. M.K. Shaji Quarry, Malappuram- Dist, Kerala (2025), PI: Prof. Karra Ram Chandar..
- ❖ Blast Vibration Study in the quarry of Mr. P.M. Kuttiamu Haji, Malappuram- Dist, Kerala (2025), PI: Prof. Karra Ram Chandar..
- ❖ Slope & Dump Stability Study of Ramdev Iron Ore Mine (RIOM), M/s. MSPL Limited, Hospete, Karnataka (2025), PI: Prof. Karra Ram Chandar..
- ❖ Slope & Dump Stability Study of Narasimha Iron Ore Mine (NIOM), M/s. MSPL Limited, Hospete, Karnataka (2025), PI: Prof. Karra Ram Chandar..
- ❖ Scientific study to assess the intensity of ground vibrations due to blasting in the quarry of M/s. Mattathil Mines and Developers (P) Ltd., M/s. Mattathil Mines and Developers Private Limited, Thrissur- Dist, Kerala (2025), PI: Prof. Karra Ram Chandar..
- ❖ Blast Vibration Study in the quarry of M/s. Ottappalam Taluk Karinkal Quarry Operators Industrial Cooperative Society Limited, Palakkad- Dist, Kerala (2025), PI: Prof. Karra Ram Chandar.
- ❖ Blast Vibration Study in the quarry of M/s. New Pannippara Bricks and Metals, Malappuram- Dist, Kerala (2025), PI: Prof. Karra Ram Chandar.
- ❖ Slope & Dump Stability Study of Cudnem-Cormolem Mineral Block, M/s. JSW Steel Limited, Goa (2025), PI: Prof. Karra Ram Chandar.
- ❖ Scientific study to assess the effect of quarry blasting on surrounding structures / water tanks, M/s. Maria Granites, Idukki Dist, Kerala (2025). PI: Prof. Karra Ram Chandar.
- ❖ Scientific Slope Stability Assessment of A. Narayani Iron Ore Mines, Chitradurga: Evaluating Geo-Mining Conditions with Focus on Altered Phyllite of JINHARSH INDUSTRIAL SOLUTIONS PRIVATE LIMITED, PI: Dr. Akhil Avchar January 2025 to March 2025.
- ❖ HGML-Teknomin Underground Decline & Ancillary work Survey Work at Hutti Gold Mine of THE HUTTI GOLD MINES COMPANY LIMITED (PSU), PI: Dr. Akhil Avchar February 2025 to March 2026.
- ❖ Scientific Study for controlled blasting at Mangampet Barytes Mine of M/S APMDCL Ltd. of The Andhra Pradesh Mineral Development Corporation Limited (Government of Andhra Pradesh), PI: Dr. Akhil Avchar, November 2024 to March 2025.
- ❖ Feasibility study of laterite quarry at Ananthayoor, Kerala of K A LATEX PRIVATE LIMITED, PI: Dr. Akhil Avchar, December 2024 to February 2025.
- ❖ Slope Stability Study for Sondenahalli Mine of TUMKUR MINERALS PVT LTD, PI: Dr. Akhil Avchar, December 2024 to March 2025.
- ❖ Blast Vibration Study in the quarry of M/s. Jas Granite Aggregates Private Limited, M/s. Jas Granite Aggregates Private Limited, Kannur- Dist, Kerala (2024), PI: Prof. Karra Ram Chandar.
- ❖ Blast Vibration Study in the quarry of M/s Al Fathima Crusher India Pvt. Ltd, M/s. AL Fathima Crusher India Private Limited, Kollam-Dist, Kerala (2024), PI: Prof. Karra Ram Chandar.
- ❖ Scientific study to assess the effect of quarry blasting on surrounding structures, M/s. B&B Granites, Thrissur- Dist, Kerala (2024), PI: Prof. Karra Ram Chandar.
- ❖ Slope Stability Study of Kachavaram Limestone Mine, Shree Cement Limited – AP (2024), PI: Prof. Karra Ram Chandar.
- ❖ Scientific slope stability studies at Neeralakere Dolomite Mines, Bagalkot (ML No.2442/23.18 Acres) of Karnataka State Minerals Corporation limited. PI: Dr. Akhil Avchar, April 2024 to July 2024.
- ❖ Scientific Slope study at Rishabhdev Serpentine Mine (ML No. 04/2000) of RMES Consultancy, Udaipur Rajasthan PI: Dr. Akhil Avchar September 2024 to December 2024.

- ❖ HGML-TCL Third Party Consultant for UG-Survey Work of THE HUTTI GOLD MINES COMPANY LIMITED (PSU), PI: Dr. Akhil Avchar April 2024 to July 2025.
- ❖ Scientific Slope study of Morwad Marble Mines (JK Arora) of RMES Consultancy, Udaipur Rajasthan, PI: Dr. Akhil Avchar, September 2024 to December 2024.
- ❖ Scientific Study for Controlled Blasting in Gothra Limestone Mine, Nawalgarh, Rajasthan of Shree Cement Limited; PI: Dr. Akhil Avchar, April 2024 to June 2024.
- ❖ Slope study at Morwad Marble Mine of RMES Consultancy, Udaipur Rajasthan PI: Dr. Akhil Avchar, April 2024 to June 2024.
- ❖ Scientific Slope Study at Tripura Sundari Marble Mine (ML 14/1993, 1 Ha. area) of RMES Consultancy, Udaipur Rajasthan PI: Dr. Akhil Avchar, April 2024 to June 2024.
- ❖ Pit Slope Stability Scientific Study for Block II, Sirigao-Mayem Mineral Block of Salgaocar Shipping Co. Pvt. Ltd. located in Bicholim Taluka of North Goa District, Salgaocar Shipping Company Private Limited (2024), PI: Sandi Kumar Reddy.
- ❖ Proposed Dump Slope Stability Scientific Study for Block II, Sirigao-Mayem Mineral Block of Salgaocar Shipping Co. Pvt. Ltd. located in Bicholim Taluka of North Goa District, Salgaocar Shipping Company Private Limited (2024), PI: Sandi Kumar Reddy.
- ❖ Slope stability study of the Mauli Iron Ore block of M/s Sociedade De Fomento Industrial Pvt. Ltd. For safe workings and optimum design situated at Redi (Kanyale) village, Vengurla Taluka, Sindhudurg District, Maharashtra State, Sociedade De Fomento Industrial Pvt. Ltd (2024), PI: Sandi Kumar Reddy.
- ❖ Slope stability study of the Subranahalliron Ore block of M/s Karnataka State Minerals Corporation Limited, at Sandur village, Hospete Taluka, Bellary District, Karnataka state (2025), PI: Sandi Kumar Reddy.
- ❖ Slope stability study of the Sateli Mine of M/s Gadag Mines & Minerals Pvt. Ltd. for safe workings and optimum design situated at Sateli village, Sawantwadi Taluka, Sindhudurg District, Maharashtra State (2025), PI: Sandi Kumar Reddy.
- ❖ Slope stability study of the for Block II, M/s KIA International Industrial Pvt. Ltd. for safe workings and optimum design situated at Thivim-Pirna villages, Bardez Taluka, North Goa District, Goa State (2025), PI: Sandi Kumar Reddy.

## DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING

- ❖ Shaft Failure Analysis of Hydrogen-1 Forced Draft Fan, GB2301, MRPL funded T&C project (Rs. 6 Lakhs) completed by Dr. Sumanth Govindarajan and Subray Hegde.
- ❖ Knowledge Partner for Data Analysis of High Temperature FESEM from AAG LAB solution, Udupi Nirmithi Kendra, FESEM – JEOL and FESEM - Jeol & XRD analysis. Principal Investigator: Prof. Mohammad Rizwanur Rahman from 2024-2025.
- ❖ Received work order worth 20 Lakhs from the Critical rotory maintenance team, MRPL in March 2024, Dr. Sumanth Govindarajan

## SCHOOL OF HUMANITIES, SOCIAL SCIENCES AND MANAGEMENT

### Dr. Bijuna C. Mohan-

- ❖ Dr. Bijuna C Mohan & Co-PI- Prof. K V Gangadharan, A Study on the Impact Assessment of the CSR Activities undertaken by New Mangalore Port Authority, NMPA PI from December 2024 -2025.
- ❖ Prof. K V Gangadharan & Co-PI- Dr. Bijuna C Mohan, Developing Guidelines for EoDB and Business Process Re-engineering: Leveraging Automation & Technology, NMPA, PI from November 2024 -2025.
- ❖ Dr. Bijuna C Mohan & Co-PI- Prof. K V Gangadharan, Measuring social and economic impact of cruise tourism at New Mangalore Port, NMPA PI from August 2024 -2025
- ❖ Dr. Bijuna C Mohan & Co-PI- Prof. K V Gangadharan, Developing guidelines for media and public outreach, NMPA PI from July 2024 -2025

## DEPARTMENT OF WATER RESOURCES AND OCEAN ENGINEERING

- ❖ Vetting for the construction of Pozhiyoor fishing harbour in Thiruvananthapuram district, Kerala, PI: Dr. Ramesh H.
- ❖ Proof checking for structural design for containerised equipment system in Agalega island, Mauri, PI: Dr. T. Nasar.
- ❖ Detailed Rapid EIA report for the Modernization and upgradation of Mangalore fisheries harbour, PI: Dr. Ramesh. H, Co-PI: Dr. Poornesh Kumar Koorata, Dr. Subhaschandra Kattimani
- ❖ Detailed Rapid EIA report for the Modernization and upgradation of Malpe fisheries harbour, PI: Dr. Ramesh H Co-PI: Dr. Poornesh Kumar Koorata, Dr. Subhaschandra Kattimani
- ❖ Detailed Rapid EIA report for the Modernization of Gangolli fisheries harbour, PI: Dr. Ramesh. H Co-PI: Dr. Poornesh Kumar Koorata, Dr. Subhaschandra Kattimani.
- ❖ Proof checking of Civil structural design of the Plinth beam for Transformer installation in Agal., PI: Dr. T. Nasar.
- ❖ Determination of changes in seawater quality parameters, PI: Dr Shwetha H, Co-PI: Dr. Basavaraju Manu, Dr. Varija.K
- ❖ Expert services towards review on Marine structures for the construction of Green field port, PI: Dr. T. Nasar.
- ❖ Providing Third Party Monitor Services for "Construction of Coastal Berth at Old Mangalore Port, PI: Dr. T. Nasar.
- ❖ Providing Third Party Monitor Services for "Construction of Coastal Berth at Old Mangalore Port, PI: Dr. Manu, Co-Pi: Dr. T. Nasar.
- ❖ Hydrological and hydraulic modelling of the Gurpur River basin, PI: Dr Shwetha H. Co-PI: Dr. Varija. K, Dr Vadivuchezhian Kaliveeran.
- ❖ Vetting of stability and load bearing capacity of vertical live load of KAWAR port jetty, PI: Dr. Kiran Gangadhar Shirlal, Co-PI: Dr. Pruthviraj. U
- ❖ Rapid EIA study for maintenance dredging projects {Amadalli, Tadri, Harwada, Belekeri}, PI:Dr. Ramesh H.
- ❖ Consultancy services for Panna Reservoir study and its impact on surrounding plots at Reliance, Dr. Ramesh H.
- ❖ Tor & financial offer for carrying out bathymetric survey, geotechnical survey, PI: Dr. T. Nasar.
- ❖ Providing qualitative third-party inspection services for strengthening and widening to four lanes of existing road from KK gate to Baikampady Tank Bund Road with Pavement Quality Concrete, PI :Prof. Varija K, Co-PI: Prof. G. S. Dwarakish – Dr. Subrahmanya Kundapura.
- ❖ Providing qualitative third-party inspection services for Widening the service road from Panambur circle to Malya gate with bituminous surface. PI :Prof. Varija K, Co-PI: Prof. G. S. Dwarakish – Dr. Subrahmanya Kundapura.
- ❖ Vetting of Hydraulic Design and Drawings for Combined Multi Village Water Supply Scheme to Shiral, PI: Dr.B.M. Dodamani
- ❖ Detailed Rapid EIA Report for Providing River Protection Work Near Devarakudru at Kote Alinge, PI:Dr. Ramesh H.
- ❖ Preparation of TEFR for setting up greenfield port cum Ship building yard cum ship repairing, PI: Dr. T. Nasar.
- ❖ prepare pre-feasibility report for establishing ship building, Dry dock and Vessel Parking facility, PI: Dr. T. Nasar.
- ❖ Vetting the Report on the load Carrying capacity of Jetty Area of Bharati Shipyard at Thannirbhavi, PI: Dr. T. Nasar.
- ❖ Enhancement of water storage capacity around Timmappayya well at NMP. PI: Dr.B.M. Dodamani, Co-PI: Dr. Ramesh. H, Dr. Amai Mahesha
- ❖ Enhancement of water storage capacity around Timmappayya well at NMP, PI: Dodamani, Co-PI: Dr. Ramesh. H, Dr. Amai Mahesha. Dr Sunil B. M.



## 7.3 Future Plans

### DEPARTMENT OF CHEMICAL ENGINEERING

#### ❖ New Labs/Equipment:

1. Gas Analyzer
2. Biomass pyrolyser for converting agricultural waste into useful product
3. Fuel Cell Testing Station
4. Membrane Casting Unit

#### ❖ Target for sponsored R&D Projects:

1. Prof. Vidya Shetty K - Planning to write project proposals on (i) Green Hydrogen production and (ii) Degradation of Microplastics
2. Prof. Hari Prasad Dasari - DST Advanced Materials "Development of Rare-Earth Doped Ceria-based Electrode Materials for High-performance Supercapacitors via Experimental and Machine Learning Approaches."
3. Dr. Vaishakh Nair - Project on sustainable agriculture

#### ❖ New Areas of Research:

- ❖ Prof. Vidya Shetty K- Degradation of Microplastics, Green Hydrogen production
- ❖ Prof. Hari Prasad Dasari - Supercapacitor Applications, Microbial Fuel Cells, Synthesis of Activated carbon from soot, Synthesis of Nanofibers, CO-Oxidation
- ❖ Dr. Vaishakh Nair - Development of Bioplastics

### DEPARTMENT OF CHEMISTRY

#### Future Plans:

- Synthesis of bioactive molecules based on the newly developed methods.
- Expanding the potential of the scaffolds for photophysical applications.
- Further research work in the field of thermoelectrics, nanofluids, photocatalysis, supercapacitors and materials for energy and environmental applications.

### DEPARTMENT OF INFORMATION TECHNOLOGY

#### New Labs/Equipment:

##### Dr. Sowmya Kamath S

- ❖ Set up a state-of-the-art GPU server for the department for supporting projects related to AI/ML/data analytics.
- ❖ Upgradation of equipment for High Performance Computing Lab.

##### Dr. Bhawana Rudra

- ❖ Quantum and Network Security Lab

**New Areas of Research: Nil**

### DEPARTMENT OF MATHEMATICAL AND COMPUTATIONAL SCIENCES

#### ❖ New Labs/Equipment:

- ❖ Planning to set-up a research lab for AI and Computer vision research.
- ❖ Vision Intelligence (Project Lab): Setting up of a Vision & Data Science Research Laboratory through funding from internal and external agencies.
- ❖ Setting up a Data Stream and Time Series Analysis Lab / GPU Servers
- ❖ High performance computing Lab

#### ❖ Target for sponsored R&D Projects:

- ❖ CEFICA Submitted
- ❖ Planning to submit proposals to funding agencies in the area of application of AI and Data science in various scientific domains
- ❖ ISRO Respond , Google Academic Research Award , Amazon

- ❖ Prime Minister Early Career Research Grant (ANRF)
- ❖ Core Research Grant (ANRF)
- ❖ DST-DAAD -Indo-German Joint Call for Proposals
- ❖ Order Theoretic K-theory
- ❖ Prime Minister Early Career Research Grant / Core Research Grant / NVIDIA Applied Research Accelerator Program / Inclusivity Research Grant
- ❖ Seed grant, Early research career scientist.
- ❖ ECRG, DBT, WISE SCOPE
- ❖ Already submitted a research proposal to NBHM in December 2024. Working on more research proposals.
- ❖ Graph theory for Social networks
- ❖ Quantum Secure Communications. Target Agency DST under NQM

❖ **New Areas of Research:**

- 1- Iterative method for non differentiable operators.
- 2- Operator Algebras
- 3- Generative AI.
- 4- Density ratio estimation
- 5- Physics/Chemistry Informed Neural Networks
- 6- Computer Vision, Machine Learning, and Artificial Intelligence.
- 7- “Theory of Reproducing Kernel Hilbert Space” and “Operator Ideals in Banach Space Theory”. I willing to work on Hypercyclicity of weighted shift on Bergman and Dirichlet Spaces in “Theory of Reproducing Kernel Hilbert Space” and Operator Ideals arising from approximation properties in “Banach Space Theory”.
- 8- Time Series Analysis (Anomaly Detection, Forecasting, Classification)
- 9- Brain Tumor image segmentation using deep learning approaches.
- 10- Investigating deep learning techniques for medical image segmentation and diagnostics), Segmentation of Drone Images (Implementing deep learning frameworks for infrastructure monitoring.
- 11- Birkhoff-James orthogonality and its application in geometry of Banach space theory
- 12- Working on Multifunctions
- 13- Reliability using signature function
- 14- Social Networks,
- 15- Analysis and application of deep learning techniques to solve problems involving differential equations
- 16- Analysis of Fourier Spectral methods in the context of solving differential equations involving discontinuous solutions / shocks

## DEPARTMENT OF MECHANICAL ENGINEERING

- ❖ Dr Arumuga Perumal is proposing a novel design of a Mini channel using machine learning applications in CFD in collaboration with IIT Tirupati.
- ❖ Dr Abhilash Singh is trying to develop a helmet testing facility for the design of helmets to mitigate head injuries.
- ❖ Dr Mervin Joe Thomas and Prof. Gangadharan are working on developing wing-in-ground-effect sea planes for faster and effective mobility.
- ❖ Dr Sudhakar Jambagi is proposing Tribocorrosion studies over burdened materials in collaboration with Coal India Ltd.
- ❖ Dr. Saurabh Chandraker is proposing sustainable solutions through the development of 3d 3d-printed polymers lab in collaboration with Incube R&D consultancy & Carbon Light.
- ❖ Dr Ranjeet Kumar Sahu is proposing bio-inspired and biomimetic nanomaterials research through the Smart Material Synthesis lab in collaboration with the Centre for Nanoscience & Nanotechnology, Panjab University.



- ❖ Dr Srikanth Bonta, focusing on the Processing of Intermetallic Materials using Metal Additive Manufacturing and using an Optical microscope in collaboration with CSIR - Central Glass and Ceramic Research Institute (CSIR-CGCRI), Kolkata, ARCI Hyderabad, GTRE Bangalore.
- ❖ Dr P S Suvin is focusing on the study of Hybridnano Lubricants in collaboration with IIT Madras and IISc.
- ❖ Dr Vasudeva M looks forward to developing an AI/ML-based disease detection system using the Liquid Calibration System for PTRTOFMS, BET Analyser, and NASE in collaboration with ICMR/NITTE University.
- ❖ Dr Vasudeva M looks forward to developing a Detection of Emissions from the Combustion of Briquettes made from various types of feedstocks with FID and Gas Sampling Valve for 2D GC in collaboration with CPRI and Industry.
- ❖ Dr Vasudeva M proposes to develop a hydrogen generation and utilisation facility using Micro GC for the Hydrogen Measurement System in collaboration with Petronet.
- ❖ Dr Vasudeva M proposes the design and development of a biogas upgradation system in collaboration with Tecnimont Pvt Limited.

## DEPARTMENT OF MINING ENGINEERING

- ❖ **FUTURE PLANS:-**  
Planning to Develop an interdisciplinary subject on Drone Data capturing and analysis in Mining.

## DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

- ❖ **FUTURE PLANS:-**  
Dr. M. Rizwanur Rahman - I successfully established a new Photoluminescence (PL) laboratory, equipped with advanced instrumentation for material characterization. This setup will facilitate high-quality data collection and contribute to ongoing and future research projects in the department.

## SCHOOL OF HUMANITIES, SOCIAL SCIENCES AND MANAGEMENT

### Prof. Pradyot Ranjan Jena

1. To organize a Management Development Program (MDP) on Greenhouse Gas (GHG) Emissions from Industry and Their Impact on Assets.
2. To investigate the impact of soil health on farmers' well-being.

## DEPARTMENT OF PHYSICS

- ❖ **FUTURE PLANS:-** To start the B. Tech Physics course in the department.

## 7.4 Papers Published in Refereed Journals

### 7.4.1 International Journal

## DEPARTMENT OF CHEMICAL ENGINEERING

- ❖ Sophia, S., & Shetty, K.V. (2024). Extracellular synthesis of heteroatom doped copper oxide nanoparticles from electronic waste—Transforming waste to resource for the remediation of nitrophenol contaminated water. *Journal of Environmental Chemical Engineering*, 12(3), 112966. <https://doi.org/10.1016/j.jece.2024.112966> IF:7.7(Q1)
- ❖ Gorakhe Anupama, Vidya Shetty Kodialbail, Bio-chemo sequential synthesis of AgO@TiO<sub>2</sub> for visible light mediated photocatalytic degradation of dyes in floating bed reactor. Paper ID 1229 :Oral presentation at the Indian Chemical Engineering Congress 77th ANNUAL SESSION OF INDIAN INSTITUTE OF

CHEMICAL ENGINEERS (CHEMCON-2024) International Conference on Role of Chemical Engineering towards Sustainable Development and Atmanirbhar Bharat December 27-30, 2024 Organized by Indian Institute of Chemical Engineers (IICHe) at Dr B R Ambedkar National Institute of Technology Jalandhar-

- ❖ Dr. Vidya Shetty K “Nanomaterials for water and wastewater treatment: Green engineering toward circular economy and sustainability” Invited talk delivered at the International Conference on Water (ICW 2024):From Pollution to Purification organized by School of Environmental Sciences, Mahatma Gandhi University, Kottayam, Kerala held at Kottayam during December 12-15, 2024.
- ❖ Shraddha Pai, Vidya Shetty. K, Green synthesis and optimization of silver nanoparticles in a stirred tank reactor based on their water disinfection activity, Paper ID: 19 (Theme: EARTH):Oral presentation at 1st National Conference on Climate Resilience and Environmentally Sustainable Technologies, (NITK-CREST 2025) held during 27th February - 1st March 2025
- ❖ Mrudul Dhakate, Vidya Shetty. K, Sustainable approach for the synthesis of copper oxide-modified TiO<sub>2</sub> for photocatalytic degradation of Tetracycline Paper ID: 18 (Theme: Water) Oral presentation at 1st National Conference on Climate Resilience and Environmentally Sustainable Technologies, (NITK-CREST 2025) held during 27th February - 1st March 2025
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- ❖ Shanbhag, C.C., Iyyaswami, R., Belur, P.D (2025) Studies on the physical properties of the Three-Liquid-Phase System of n-Hexane-ethanol-NaH<sub>2</sub>PO<sub>4</sub>-water, *Chemical Engineering Research and Design*, 2025, 214, pp. 18–27, DOI: 10.1016/j.cherd.2024.12.020
- ❖ Shanbhag, C.C., Salimuddin, R.M.H., Iyyaswami, R., Belur, P.D. (2025) Simultaneous partitioning of multiple bioactive compounds from *Garcinia indica* rinds in a three-liquid-phase extraction systems, *Preparative Biochemistry and Biotechnology*, DOI: 10.1080/10826068.2025.2483240
- ❖ Hugar, Priyanka; Dutta, Ankita; Srilakshmi S.; Belur, Prasanna Belur D.; Raval, Keyur; Iyyaswami, Regupathi, ‘Phenolic profile of unripe areca nuts cultivated in various districts of Karnataka, India’ *JSFA reports*, 2024, 4(2), pp. 102–113, DOI: 10.1002/jsf2.169
- ❖ Vijayakumar, S., Vishnu, G., Krishnapura, P.R., Iyyaswami, R. (2024) Production of nisin from *Lactococcus lactis* in acid-whey with nutrient supplementation, *Preparative Biochemistry and Biotechnology*, 2024, 54(4), pp. 494–502, DOI: 10.1080/10826068.2023.2249091
- ❖ Sivanesan, M., Krishnapura, P.R., Iyyaswami, R., Parappa, K., Belur, P.D. (2024) ‘Extraction of chrysin from propolis and its selective encapsulation in synthetic/natural surfactant-based micelles’ *Journal of Dispersion Science and Technology*, 2024, 45(14), pp. 2591–2601, DOI: 10.1080/01932691.2023.2273430
- ❖ Chaitra Chandrakant Shanbhag, Regupathi Iyyaswami, Tshering Samdrup, Prajna Rao Krishnapura, Prasanna D Belur, (2024) Encapsulation of Anthocyanins from *Garcinia indica* in the Nano-complexes formed by Sodium Caseinate and Carboxymethyl Cellulose, *AIJR Abstracts*
- ❖ Arun Kumar Subramani, Reshma Ramachandra, Sachin Thote, Vishnupriya Govindaraj, Piyush Vanzara, Ritu Raval, Keyur Raval. Engineering a recombinant chitinase from the marine bacterium *Bacillus aryabhata* with targeted activity on insoluble crystalline chitin for chitin oligomer production, *International Journal of Biological Macromolecules*, 264, 2024,
- ❖ PV Atheena, KM Rajesh, Keyur Raval, Subbalaxmi Selvaraj, Ritu Raval. Identification and characterization of chitinase producing marine microorganism: Unleashing the potential of chitoooligosaccharides for bio-ethanol synthesis. *International Journal of Biological Macromolecules*, 265, 2024
- ❖ Vishnupriya Govindaraj, Se-Kwon Kim, Ritu Raval, Keyur Raval. Marine *Bacillus haynesii* chitinase: purification, characterization and antifungal potential for sustainable chitin bioconversion. *Carbohydrate Research* (541), 2024
- ❖ Rajesh KM, Keyur Raval, Ritu Raval. Marine chitinase AfChi: green defense management against *Colletotrichum gloeosporioides* and anthracnose, *AMB Express* (14), 2024
- ❖ Sammitha D Hebbar, KA Sparsha, Keyur Raval, Darshak R Trivedi. Julolidine-hydrazide-based D-π-A fluorescent chemoprobes for detection of Al<sup>3+</sup> and Differentiation of Arsenic species: Applications in portable test strips, ecological assessment, and DFT studies, *Microchemical Journal* (207), 2024.

- ❖ Alvina Joseph, Keyur Raval, Vishnu Manirethan. Photocatalytic Degradation of Chlorpyrifos and Tetracycline in Aqueous Medium Using Silver Titanate Perovskite Nanoparticles, *Environmental Processes* (11), 2024.
- ❖ Vishnupriya Govindaraj, Dinesh Kumar Anandan, Se-Kwon Kim, Ritu Raval, Keyur Raval. Process optimisation for improved chitinase production from marine isolate *Bacillus haynesii* and bioethanol production with *Saccharomyces cerevisiae*. *Brazilian Journal of Microbiology*, 2024
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- ❖ R Nithya, Sunaina S Patil, Hari Prasad Dasari, Harshini Dasari, S Nethaji. Potential of CoMn<sub>2</sub>O<sub>4</sub> spinel as soot oxidation catalyst and its kinetics thereof. *Scientific Reports*. Nature Publishing Group UK
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- ❖ Ramesh Potnuri, Chinta Sankar Rao, Maheswata Lenka, Veluru Sridevi, Tanmay Basak, Microwave-assisted torrefaction of lignocellulosic biomass: A critical review of its role in sustainable energy, Biomass and Bioenergy, 197, 107777, 2025, <https://doi.org/10.1016/j.biombioe.2025.107777>
- ❖ Nilesh S. Rajpurohit, Parth K. Kamani, Maheswata Lenka, Chinta Sankar Rao, Predictive modeling of product yields in microwave-assisted co-pyrolysis of biomass and plastic with enhanced interpretability using explainable AI approaches, Journal of Analytical and Applied Pyrolysis, 107021 2025, <https://doi.org/10.1016/j.jaap.2025.107021>
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- ❖ Gururaj S Puneekar and Priynak Halu, “Electrical Load Forecasting Using Rithu’s (ऋतु) of Vedic Calendar for Power Management”, IKS Conference in Management 2024, held during July 4th- July 6th 2024, hosted by SJMSOM, IIT Bombay.
- ❖ Priyanka Halu, and Gururaj S. Puneekar, “Electrical Load Forecasting for a Distribution Company Using Python Libraries”, International Conference on Sustainable Power and Energy Research (ICSPER- 2024) held at NIT Warangal.
- ❖ Rohit Jacob Kurian<sup>1</sup>, Shanmukha Reddy Vippala, Gururaj S Puneekar and Krishnan Chemmangat, “Particle Swarm Optimization Applied to Acoustic Emission Partial Discharge Source Localization and its Comparison

with Non-Iterative Method”, 45th International Conference On Advanced Engineering Optimization Through Intelligent Techniques (AEOTIT), Held at SVNIT Surta, 28-30 November 2024.

- ❖ V. R. Chiliveri, R. Kalpana and D. Kishan, “Integrated Speed and Current Control with Adaptive Sliding Mode Based Deadbeat Predictive Strategy Considering Disturbances for In-Wheel PMSMs,” 2024 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES), Mangalore, India, 2024. (Accepted)
- ❖ Abhishek Kumar, R. Kalpana and Phaneendra B, “Design and Analysis of Wide Bandgap device based DAB Converter for EV On-Board Chargers” 2024 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES), Mangalore, India, 2024. (Accepted)
- ❖ Ashish Kumar Naik, R Kalpana and K. Manjunath, “Two Stage Module Based Buck-Boost Converter for Cell Equalization of Series Connected Cells for Electric Vehicle Battery Pack Applications”, 2024 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES), Mangalore, India, 2024 (Accepted)

## DEPARTMENT OF MATHEMATICAL AND COMPUTATIONAL SCIENCES

- ❖ 1. S. George, On the Order of convergence of a Traub-type method, International Conference on Innovative Practices in Management, Engineering & Social Sciences-2024 (IPMESS-2024) (January 3-6, 2024).
- ❖ S. V. Prasad, P. Shetty D. and B. R. Shankar, "Building Voting Systems for a Fairer Future: Exploring Blockchain based E-voting with Ethereum for National Elections," 2024 IEEE International Conference on Blockchain and Distributed Systems Security (ICBDS), Pune, India, 2024, pp. 1-7, doi: 10.1109/ICBDS61829.2024.10837039.
- ❖ M. Rakesh and P. Shetty. D, "Enhanced Medicare Fraud Detection Using Graph Convolutional Networks," 2024 4th International Conference on Artificial Intelligence and Signal Processing (AISP), VIJAYAWADA, India, 2024, pp. 1-5, doi: 10.1109/AISP61711.2024.10870744.
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- ❖ T. Roy and P. S. D., "A Hybrid Approach to Predict Ratings for Book Recommendation System Using Machine Learning Techniques," 2024 IEEE Region 10 Symposium (TENSYP), New Delhi, India, 2024, pp. 1-6, doi: 10.1109/TENSYP61132.2024.10752128.
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- ❖ V. B. Pal and P. Shetty. D, "Integrating Link Prediction and Comment Analysis for Enhanced Cyberbullying Detection in Online Social Interactions," 2024 IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT), Bangalore, India, 2024, pp. 1-6, doi: 10.1109/CONECCT62155.2024.10677127.
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- ❖ Febin I.P. and P. Jidesh, A retinex driven fractional-order regularization model for despeckling and enhancing of Synthetic Aperture Radar images, Int. Conf. On Computer Vision and Image Processing, IIITDM, Kancheepuram, Springer, 2024
- ❖ JM Francis, G Chandhini, Solving a fourth order partial differential equations using deep neural networks, AIP Conference Proceedings 3081 (1) 2024.
- ❖ Sundari K, and A. Senthil Thilak., “Graph-based learning for traffic patterns: A comparative analysis of Graph Neural Networks”, International Conference on Mathematical Modelling, Simulation and Nonlinear Dynamics, 15 - 16 February, 2024, Bharathiar University, Coimbatore, India.
- ❖ Sai Prasanna and A. Senthil Thilak, “Analysis of Graph-based kernel methods for classification of Autism Spectrum Disorder”, International Conference and Workshop on Mathematical Techniques for Machine learning and Quantum computing, 02-07 December, 2024, Jointly organized by Dept. of Mathematics, The Gandhigram Rural Institute (Deemed to be university), Gandhigram & CUSAT, Kochi, India
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- ❖ R. Madhusudhan, Shubham Kumar Thakur, P. Pravisha. "Enhancing Intrusion Detection System Using Machine Learning and Deep Learning". AINA (3) 2024: 326 – 337.
- ❖ R. Madhusudhan, P. Pravisha. "Blockchain Based Artificial Intelligence of Things (AIoT) for Wildlife Monitoring". AINA (5) 2024: 25 – 36.

## SCHOOL OF HUMANITIES, SOCIAL, SCIENCES AND MANAGEMENT

### Prof. Ritanjali Majhi:

- ❖ Gurudatha, S., Majhi, R. Robust Machine Learning Methods for Prediction of Childhood Anemia - A Case of the Empowered Action Group States of India, 2nd IEEE International Conference on Recent Advances in Information Technology for Sustainable Development, ICRAIS 2024 - Proceedings, 2024, pp. 188–193.
- ❖ Sukumaran, L., Majhi, R., Segmenting Indian Alcohol Consumers: Analyzing Sustainable Trends Using K-Means Clustering, 2nd IEEE International Conference on Recent Advances in Information Technology for Sustainable Development, ICRAIS 2024 - Proceedings, 2024.
- ❖ Datta, K and Jena, P.R (2024). Impact of Environmental Policy Stringency and Green Finance on Renewable Energy Development in India at 1st International Conference on Sustainable Finance 2024 (ICSF 2024), December 06-08, 2024, in Indian Institute of Technology Bhubaneswar, Odisha, India.
- ❖ Dr. Rahul Sivarajan- presented "Beyond the Call of Duty: Exploring Early Career Nurses' Resilience and Commitment in the Face of Workplace Challenges" in the BAM (British Academy of Management) 2024 conference (Human Resource Management Track).

## DEPARTMENT OF PHYSICS

- ❖ Vasundhara Raghuvanshi\* and H.D. Shashikala, Density and Refractive Index Variation of  $\text{CaF}_2$  Added Borosilicate Glasses, ICAGGC-2022 Kolkata 23-25 Aug 2022, Page no. 65-78, SPM Vol 46, 2024.
- ❖ Rashmi I and H.D. Shashikala, Influence of  $\text{BaO}$  Addition on Density and Refractive Index of  $50\text{P}_2\text{O}_5\text{-xB}_2\text{O}_3\text{-(50-x)BaO}$  Glasses, ICAGGC-2022 Kolkata 23-25 Aug 2022, Page no. 51-64, SPM Vol 46, 2024.
- ❖ Vasundhara Raghuvanshi and Rashmi I, As attendee (online), 2<sup>nd</sup> International Conference on current trends in physics and photonics, ICCTPP-2024, organized by MIT World peace University, Pune, Maharashtra ( 9 - 11 July, 2024)
- ❖ Vasundhara Raghuvanshi\* H. S. Nagaraja and H.D. Shashikala, Influence of Heat Treatment on the Formation and Optical Behavior of Silver Nanoparticles in Borosilicate Glass, 27<sup>th</sup> international Congress on Glass 2025, Kolkata India January 20-24, 2025.
- ❖ Rashmi I\* H. S. Nagaraja and H.D. Shashikala, Exploring frequency-dependent and thermally sensitive electrical properties of sodium doped borophosphate glasses, 27<sup>th</sup> international Congress on Glass 2025, Kolkata India January 20-24, 2025.
- ❖ Akshay Hegde,, Arvind Kumar, Lakshmi Sagar G, Mukesh P, H S Nagaraja, "An Asymmetric Supercapacitor Employing a Quasi-Eutectic Electrolyte System with Electrochemically Synthesized Graphene and Vanadium Selenide( $\text{VSe}_2$ ) as Electrodes", IECS 2025, IIT Madras Chennai.
- ❖ Arvind Kumar , Mukesh P , Lakshmi Sagar G, Akshay Hegde , H S Nagaraja, Enhanced Li-Ion Battery Performance of  $\text{Fe}_3\text{O}_4$  Anode Through Zn, Cu Double Doping and MWCNT Composite Integration, IECS 2025, IIT Madras Chennai.
- ❖ Anusha T, Nivedya Thathron, Bhimaraya R Biradar, Sushil Kumar Pandey, Sib Sankar Mal, Partha Pratim Das, Nonpolar Resistive Switching Characteristics in Polyoxometalate Based Resistive Random Access Memory Device, Poster presentation at 4th International Conference on Optoelectronic and Nanomaterials for Advanced Technology (iCONMAT 2025), Cochin University of Science and Technology, Kochi, Kerala, India, February 11-14, 2025.
- ❖ Swetha M T, Bhimaraya R Biradar, Nivedya Thathron, Aniket Hanchate, Sib Sankar Mal, Partha Pratim Das, Carbon Nanotube-Supported Vanadium Substituted Phospho-Molybdate Nanohybrid for Supercapacitor Application, Oral presentation at 12th National Conference on Condensed Matter Physics and Applications (CMPA 2024), Manipal Institute of Technology, Manipal, India, December 13-14, 2024.

- ❖ Abhishek S., Lekshmi S.B., Anushka Mishra, Imamhusen Konasagar, Bhimaraya R Biradar, **Partha Pratim Das**, Mohan Lal Meena, Machine learning modeling in nanocomposite synthesis using carbon nanotube embedded with polypyrrole for supercapacitor application, Oral presentation at 1st National Conference on Climate Resilience and Environmentally Sustainable Technologies (NITK-CREST 2025), NIT Karnataka Feb 27- March 1, 2025. (Own best oral presentation award)

### 7.4.3 National Conference

#### DEPARTMENT OF MATHEMATICAL AND COMPUTATIONAL SCIENCES

- ❖ Jothi Ramalingam and Veeresh R Maned. On Cryptographic Approaches for Detecting GNSS Spoofing Attacks, 2024 IEEE Space, Aerospace and Defence Conference (SPACE) DOI: 10.1109/SPACE63117.2024.10667943

#### DEPARTMENT OF PHYSICS

- ❖ Nishita Pawar and Udayashankar N K, Synergistic role of morphology and defects in zinc stannate for room temperature NO<sub>2</sub> sensing, National conference on sensing and technologies (NCST-2024).

#### DEPARTMENT OF WATER RESOURCES AND OCEAN ENGINEERING

- ❖ Sampriiti Soor, Priyanka Kumari, BS Daya Sagar, Amba Shetty, Weighted Sum of Segmented Correlation: an Efficient Method for Spectra Matching in Hyperspectral Images, IGARSS 2024-2024 IEEE International Geoscience and Remote Sensing Symposium, IEEE, <https://doi.org/10.1109/IGARSS53475.2024.10642546>
- ❖ Xaviour S.;Shirlal K.G, Experimental Study of Pipe Artificial Reef on Wave Attenuation, Water and Environment, Volume 2, [https://doi.org/10.1007/978-981-97-7502-6\\_2](https://doi.org/10.1007/978-981-97-7502-6_2)
- ❖ P Prakash, Sowmya Kamath, Shrutilipi Bhattacharjee, U Pruthviraj, KV Gangadharan, Predictive Model for Enhancing Water Quality Monitoring leveraging Satellite Data, 2024 IEEE Space, Aerospace and Defence Conference (SPACE), IEEE, <https://doi.org/10.1109/SPACE63117.2024.10667767>
- ❖ Ahalya Nalluri, H Ramesh, Water Level Monitoring and Mapping Seasonal Changes in the Reservoir Body, Hydrology and Hydrologic Modelling: Proceedings of HYDRO
- ❖ Kunhimammu Paravath, T. Nasar, Shoreline Changes at Kasaragod Fishery Harbour on South West Coast of India, ISOPE Pacific/Asia Offshore Mechanics Symposium, ISBN: 978-1-880653-76-0
- ❖ Shaik Abdul Shareef, Thuvanismail Nasar, CB Punith Gowda, T Ashitha, Numerical Investigation of Off-shore Sea Cage Grid Arrangements Under Irregular Wave Conditions, ISOPE Pacific/Asia Offshore Mechanics Symposium
- ❖ Shaik Abdul Shareef, Nasar Thuvanismail, Sai Kiran Naik E, Manisha Vijaykumar, Dynamic analysis of a porous wall fencing offshore fish cage subjected to regular waves, Proceedings of the Institution of Mechanical Engineers, Part M: Journal of Engineering for the Maritime Environment, 238(1),171-185.

## 7.5 Other Achievements

#### DEPARTMENT OF CHEMICAL ENGINEERING

##### Poster

- Mr. Harmeet Singh under supervision of Dr. P.E Jagadeesh Babu won the best poster presentation award for the paper entitled “Development of Zn-Cu MOF for the controlled delivery of Doxorubicin and generation of ROS for antibacterial application” at NITK-CREST 2025.
- Prapthi S Mally, Vaishakh Nair “Bacteria Immobilized Biochar for the Removal of Organic Pollutant from Wastewater” 1st National Conference on Climate Resilience and Environmentally Sustainable Technology (NITK-CREST 2025), National Institute of Technology Karnataka, Surathkal, Mangalore, 27th February 2025 to 1st March 2025.



### Patents Applied

- Title: SEQUENTIAL BATCH BIOLEACHING PROCESS EMPLOYING ALCALIGENES AQUATILIS AND CHROMO-BACTERIUM VIOLACEUM" Application Number: 202441016635 Applicant: National Institute of Technology Karnataka Inventors : **Minimol M, Vidya Shetty K, M. B. Saidutta** Filed on : 07-03-2024 and Published on 7-6-2024)
- **Vaishakh Nair, Soumya Koippully Manikandan and Keyur Raval**, Method of Developing Pseudomonas Stutzeri Immobilized Rice Husk Biochar (OMS.0065.000917), Patent application No.:202341079318

### Book Chapters

- 📖 Hybrid strategies for the treatment of latex-like wastewater from industries, Raagasweatha, R.K., Ahamed, A., Mahalingam, H., Kalathi, Jagannathan T Kalathi. Adaptive Engineering: a Sustainable Development Endeavor, 2024, pp. 7–35
- 📖 Solar Enhanced Soaring: Tapping into Ambient Solar Energy for Optimized Airfoil Performance, MS Akhtar, DSK Ting, Jagannathan T Kalathi, Reclaiming Eden, pp 145-173, 2024
- 📖 Ramesh Potnuri, Chinta Sankar Rao, Valorization of agricultural waste residual biomass using microwave-assisted pyrolysis: growing technology to assist in energy applications & pollution mitigation, Biotechnology Innovations for a Sustainable Future: Integrating Clean Energy, Life on the Planet, Clean Water, and Climate Action, December, 2024 (Accepted)
- 📖 Vaishakh Nair, Aparna Singh, Nisarga K. Gowda, Bioprocesses for Sustainable Management of Mine Waste in Contaminated Environmental Matrices, Sustainable Management of Mining Waste and Tailings A Circular Economy Approach, 2024, Taylor and Francis CRC Press, 33, doi.org/10.1201/9781003442455

## DEPARTMENT OF CIVIL ENGINEERING

### Poster

- David Clement and **Rajasekaran C** presented a poster titled "Evaluation of Chemical Admixture Effects on Laterised Geopolymer Mortar" at CONSEC 2024 conference held at IIT Madras on 25-27, September 2024.
- The invention on Sustainable Solution for Slope Stability by **Sreevalsa Kolathayar** & Students featured among inventions as part of the InvenTiv Global Innovation Showcase 2025 held at IIT Madras, under the auspices of MoE, Govt. of India.






### Book Chapters

- 📖 Ashitha C., and Chaudhary, B. (2025) Offshore Wind Turbine Foundation Under Action of Wind Loads: Numerical Analyses. Characterization and Behaviour of Natural and Engineered Geomaterials (Eds: T. Thyagaraj, P. T. Ravichandran, G. Janardhanan, S. Bhuvaneshwari, M. Muttharam, V. B. Maji) 8IYGEC 2021, IIT Madras, LNCE, vol 420, Springer, Singapore ISBN 978-981-97-9822-3 (accepted)
- 📖 Akarsh, P.K., Chaudhary, B., Sajan, M.K., Kumar, S. (2024) Seismic Responses of Rubble Mound Breakwater: Numerical Analyses. Geo-Sustainnovation for Resilient Society (Eds: Hazarika, H., Haigh, S.K., Chaudhary, B., Murai, M., Manandhar, S.) CREST 2023, Japan, proceedings. LNCE, vol 446, pg 237-246. Springer, Singapore. [https://doi.org/10.1007/978-981-99-9219-5\\_22](https://doi.org/10.1007/978-981-99-9219-5_22).
- 📖 Sajan, M.K., Chaudhary, B., Akarsh, P.K., Kumar, S. (2024). Stability Analysis of Rubble Mound Breakwaters Under Tsunami Overflow. Geo-Sustainnovation for Resilient Society. (Eds: Hazarika, H., Haigh, S.K., Chaudhary, B., Murai, M., Manandhar, S.) CREST 2023, Japan proceedings. LNCE, vol 446, Pg 247-254. [https://doi.org/10.1007/978-981-99-9219-5\\_23](https://doi.org/10.1007/978-981-99-9219-5_23)
- 📖 Kumar, S., Chaudhary, B., Sajan, M.K., Akarsh, P.K. (2024). Response of Offshore Wind Turbine Foundation Subjected to Earthquakes, Sea Waves and Wind Waves: Numerical Simulations. Geo-Sustainnovation for Resilient Society. (Eds: Hazarika, H., Haigh, S.K., Chaudhary, B., Murai, M., Manandhar, S.) CREST 2023, Japan, proceedings. LNCE, vol 446, pg 217-224. Springer Singapore. [https://doi.org/10.1007/978-981-99-9219-5\\_20](https://doi.org/10.1007/978-981-99-9219-5_20).
- 📖 Nagaraju, T. V., Rao, MV, Sunil, B. M., & Chaudhary, B. (2024). Furfural-Extracted Corncob Ash: A New Geomaterial for Sustainable Construction. Sustainable Construction Resources in Geotechnical Engineer-

- ing ((Eds: H. Hazarika, SK Haigh, B Chaudhary, M Murai, S Manandhar), Select Proceedings of CREST 2023, Japan, LNCE, Vol 448, pp. 155-162. Springer, Singapore. DOI: <https://doi.org/10.1007/978-981-99-9227-0> (Scopus).
- Arathi. A. R., Madhavan, H and Mohan, M. (2024). "Influence of Geometric and Traffic Characteristics on Priority Violations at Uncontrolled Intersections". In: Veeraragavan, A., Mathew, S., Ramakrishnan, P., Madhavan, H. (eds) Cognizant Transportation Systems: Challenges and Opportunities. IMPACTS 2023. Lecture Notes in Civil Engineering, vol 263. Springer, Singapore. [https://doi.org/10.1007/978-981-97-7300-8\\_8](https://doi.org/10.1007/978-981-97-7300-8_8)
- Ajaykrishnan, M.J., Sethulakshmi, G., Mohan, M. (2024). "Factors Influencing Post-encroachment Time of Road Crossing Pedestrians Near Bus Stops Located on Mid-Block Sections". In: Sivakumar Babu, G.L., Mulangi, R.H., Kolathayar, S. (eds) Technologies for Sustainable Transportation Infrastructures. SIIOC 2023. Lecture Notes in Civil Engineering, vol 529. Springer, Singapore. [https://doi.org/10.1007/978-981-97-4852-5\\_16](https://doi.org/10.1007/978-981-97-4852-5_16)
- Sethulakshmi, G. and Mohan, M. (2024). "Identifying the Factors Affecting Users' Safety at Bus Stops: A Step Towards Improving Bus Ridership". In Kolathayar, S., Chandra, V. N. and Sreekeshava, K. S. (eds) Civil Engineering Innovations for Sustainable Communities with Net Zero Targets, CRC Press, Taylor & Francis. <https://doi.org/10.1201/9781032686899>
- Akhtar, N. and Mohan, M. (2024). "Driver Skill Profiling Using Machine Learning". In: Goswami, A.K., Aithal, B.H., Maitra, S., Banerjee, A. (eds) Infrastructure and Built Environment for Sustainable and Resilient Societies. IBSR 2023. Sustainable Civil Infrastructures. Springer, Singapore. [https://doi.org/10.1007/978-981-97-1503-9\\_8](https://doi.org/10.1007/978-981-97-1503-9_8)
- Resmy, V.R., Rajasekaran, C. (2024). Topology Optimization of Concrete Beam Using Higher Order Finite Elements. In: Jayalekshmi, B.R., Rao, K.S.N., Pavan, G.S. (eds) Technologies for Sustainable Buildings and Infrastructure. SIIOC 2023. Lecture Notes in Civil Engineering, vol 528. Springer, Singapore. [https://doi.org/10.1007/978-981-97-4844-0\\_10](https://doi.org/10.1007/978-981-97-4844-0_10)
- Balulmath, A.B., Sridhar, G., Saranya, P. (2024). A Critical Review on Potential Use of Waste Foundry Sand in Geotechnical and Pavement Applications. In: Jose, B.T., Sahoo, D.K., Shukla, S.K., Krishna, A.M., Thomas, J., Veena, V. (eds) Proceedings of the Indian Geotechnical Conference 2022 Volume 8. IGC 2022. Lecture Notes in Civil Engineering, vol 492. Springer, Singapore. [https://doi.org/10.1007/978-981-97-2704-9\\_30](https://doi.org/10.1007/978-981-97-2704-9_30)
- Rao, M.S., Sridhar, G. (2025). Comparative Study of Analytical and Numerical Modelling of Bearing Pressure of Shallow Foundation. In: Jose, B.T., Sahoo, D.K., Vanapalli, S.K., Solanki, C.H., Balan, K., Pillai, A.G. (eds) Proceedings of the Indian Geotechnical Conference 2022 Volume 10. IGC 2022. Lecture Notes in Civil Engineering, vol 538. Springer, Singapore. [https://doi.org/10.1007/978-981-97-6172-2\\_15](https://doi.org/10.1007/978-981-97-6172-2_15)
- Nair, P., Abhiram Naidu, M.N., Sreekumar, M. (2024). A Two-Class Continuum Traffic Flow Model Considering the Disordered Behavior at Nodes. In: Sivakumar Babu, G.L., Mulangi, R.H., Kolathayar, S. (eds) Technologies for Sustainable Transportation Infrastructures. SIIOC 2023. Lecture Notes in Civil Engineering, vol 529. Springer, Singapore. [https://doi.org/10.1007/978-981-97-4852-5\\_8](https://doi.org/10.1007/978-981-97-4852-5_8)
- Nair, P., Sreekumar, M. (2025). Dynamic Traffic Assignment Using a Multi-class Continuum Model for Disordered Traffic. In: Sahu, P.K., Das, S., Manoj, M., Budhkar, A. (eds) Proceedings of the 7th International Conference of Transportation Research Group of India (CTRG 2023), Volume 2. CTRG 2023. Lecture Notes in Civil Engineering, vol 426. Springer, Singapore. [https://doi.org/10.1007/978-981-96-1037-2\\_18](https://doi.org/10.1007/978-981-96-1037-2_18)
- Hameed, H., Minnamreddy, H.K.R., Nair, P., Sreekumar, M. (2025). Applicability of DTA Framework for Traffic Control and Transport Planning Applications on Networks with Significant Share of Two-Wheelers. In: Sahu, P.K., Das, S., Manoj, M., Budhkar, A. (eds) Proceedings of the 7th International Conference of Transportation Research Group of India (CTRG 2023), Volume 2. CTRG 2023. Lecture Notes in Civil Engineering, vol 426. Springer, Singapore. [https://doi.org/10.1007/978-981-96-1037-2\\_24](https://doi.org/10.1007/978-981-96-1037-2_24)

### Books Edited

- Hazarika, H., Stuart Haigh, K., Chaudhary, B., Murai, M., and Manandhar, S (2024) Geo-Sustainnovation for Resilient Society (Eds). Published by Springer Singapore (ISBN 978-981-99-9218-8), pp 1-403, <https://link.springer.com/book/10.1007/978-981-99-9219-5>.






-  Hazarika, H., Stuart Haigh, K., Chaudhary, B., Murai, M., and Manandhar, S (2024) Climate Change Adaptation from Geotechnical Perspectives (Eds). Published by Springer Singapore (ISBN: 978-981-99-9214-0), pp 1-437, <https://link.springer.com/book/10.1007/978-981-99-9215-7>.
-  Hazarika, H., Stuart Haigh, K., Chaudhary, B., Murai, M., and Manandhar, S (2024) Natural Geo-Disasters and Resiliency (Eds). Published by Springer Singapore (ISBN: 978-981-99-9222-5), pp 1-448, <https://link.springer.com/book/10.1007/978-981-99-9223-2>
-  Hazarika, H., Stuart Haigh, K., Chaudhary, B., Murai, M., and Manandhar, S (2024) Sustainable Construction Resources in Geotechnical Engineering (Eds). Published by Springer Singapore (ISBN: 978-981-99-9226-3), pp 1-468, <https://doi.org/10.1007/978-981-99-9227-0>
-  K. V. R. Ravi Shankar, C. S. R. K. Prasad, C. Mallikarjuna, S. N. Suresha (2025), Recent Advances in Transportation Systems Engineering and Management—Volume 1 & Volume 2, Selected Proceedings of CTSEM 2023, Springer Singapore. <https://doi.org/10.1007/978-981-97-6075-6>
-  B R Jayalekshmi, K S Nanjunda Rao, G S Pavan (2024), Technologies for Sustainable Buildings and Infrastructure: Select Proceedings of SIIOC 2023, Springer Nature Singapore. <https://doi.org/10.1007/978-981-97-4844-0>

## Conference


- Shrihari S. (2025) "Implications of Land Use Land Cover Changes on River Health" Proc. International Conference on River Resilience: Environmental Flows to River Health through the Lens of Ecosystem Services" (ICRR 2025), N.I.T. Calicut, 27 February - 01 March 2025.
- Athulya B, Ebin Sam S, and **Suresha S.N.** "Identification of Road Traffic crash blackspots on National and State Highways in Trivandrum, India using Kernel Density Estimation", 10th International Conference on Transportation System Engineering and Management, Nagpur, India - 19th - 20th July 2024.

## DEPARTMENT OF CHEMISTRY

### Patents

-  Process Of Preparing Cocos Nucifera Waste- Derived High-Surface Carbon And Selection Of Electrolyte Concentration For Green Energy Storage Device, Shreeganesh Subraya Hegde, Badekai Ramachandra Bhat. Patent No. 559459. Application No. 202441030043 Dtd. 13.04.2024.
-  The Process Of Detecting The Dengue Virus Using An Ultrasensitive High-Surface Porous Carbonbased Electrochemical Biosensor, Badekai Ramachandra Bhat And Shreeganesh Subraya Hegde. Patent No. 557992 Dtd. 06.06.2024. Application No 202441043802
-  A Non-Enzymatic Biosensor For Cholesterol Measuring, Badekai Ramachandra Bhat And Lavanya Rao V R. Application No. 202441084937 Dtd. 06.11.2024.
-  **Indian Patent Granted:** Title: Process Of Obtaining Mesothienyl/Furyl Substituted Azo-Porphyrins By Chemical Synthesis (Patent No.: 550752)Vijayendra S. Shetti And Sahana Nagesh Shet Date Of Grant: 23.09.2024.
-  Nirmal Mazumder, Rajib Biswas, Chiranjit Ghosh, Sharmila Sajankila Nadumane, Sib Sankar Mal, Shree Hasta, System And Method For A Multi-Modal Fluidic Device To Detect Heavy Metals, Patent Application No.: 202441019548

### Poster:

-  Sreelekha M. K., Beneesh P.B., (2025) "Synthesis Of 1,2,4-Triazole-Based Hybrids And Pyrazole-4-Carboxaldehyde-Hydes And Bipyrazole Carboxaldehyde-Hydes Using Hydrazone As The Key Component" Poster Presentation, International Conference On Advances In Chemical And Physical Sciences (Icacsps) - 2025 Held At Amrita Vishwa Vidyapeetham Mysuru Campus, Mysuru, Karnataka On January 23rd And 24th, 2025.
- Sammitha D. Hebbar, Dr. Darshak R Trivedi (2024) Presented A Poster And Secured Best Poster Award On "Colorimetric Differentiation Of Arsenate And Arsenite Using Acenaphthenequinone Derived Chemo-probe: From Design To Application" Presented In "International Conference On 14<sup>th</sup> India-Japan Science

Technology Conclave: Frontier Areas Of Science And Technology” September 6-7, 2024, IIT Guwahati, Assam.

### Book Chapter:

- 📖 K Nagaraj, An Shetty, Dr Trivedi, Colorimetric Chemosensors For The Detection Of Environment-Polluting Arsenite And Cyanide, *Organic And Inorganic Materials Based Sensors*, 2024, 1, 289-313
- 📖 Shreeganesh Subraya Hegde And Badekai Ramachandra Bhat, “Graphene Nanomaterials For Sensors” In Low-Cost Diagnostics: Fabrication, Materials, and Applications, The Royal Society Of Chemistry 2024; Pp.105-117. Published By The Royal Society Of Chemistry, <https://doi.org/10.1039/9781837673216> (11.12.2024)
- 📖 Dutta, S. (2025). 5-(Halomethyl) Furfurals. [doi:10.1016/B978-0-443-15742-4.00150-2](https://doi.org/10.1016/B978-0-443-15742-4.00150-2) In Book: Reference Module In Chemistry, Molecular Sciences And Chemical Engineering
- 📖 Impact Of Dietary Advanced Glycation End Products (DAGEs) In Processed Foods On Health Steffi Kunnel, Ishita Chakraborty, Indira Govindaraju, Sib Sankar Mal, Nirmal Mazumder\*, Elsevier, 2024, 309. <https://doi.org/10.1016/B978-0-443-14042-6.00013-0>.
- 📖 Physicochemical Characterization Of Microcrystalline Cellulose Extracted By Sequential Dual Acid Hydrolysis Ranjan Dutta Kalita, Ishita Chakraborty, Pinki Singh, Soumyabrata Banik, Sib Sankar Mal, Guan-Yu Zhuo, Nirmal Mazumder\*, Elsevier, 2024, 47. <https://doi.org/10.1016/B978-0-443-14042-6.00002-6>.

### Books Edited

- 📖 Biswas, R., Mal, S. S., Mazumder, N (2024) Novel Materials For Energy Translation And Storage (Eds) Published By Nova Publisher, USA (ISBN: 9798891139787)

## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

### Patent Granted

- Sanjeev Kumar Raghuwanshi, Yadvendra Singh, Purnendu Shekhar Pandey, Mandeep Singh, "An IoT Monitoring System For Underground Mines Using A Fiber Bragg Grating Chemical Sensor", Patent No: 519658, Date of grant: 05/03/2024.
- Sandeep Kumar, Hanjung Song, Prabu K, Shyam Lal, "Reconfigurable Triple-Band On-Chip Nano Antenna for Terahertz Applications", Patent No: 545773, Date of grant: 24/07/2024.
- M. Shankaranarayana Bhat and Jagadish D. N, "SAR ADC with Reduced Capacitor Size" Indian Patent No. 560334, Date of grant: 14/02/2025.

## DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

### Books Edited

- Mohammed Aslam Husain, Md Waseem Ahmad, Farhad Ilahi Bakhsh, Sanjeevikumar Padmanaban, Hasmat Malik, Photovoltaic Systems Technology Published by John Wiley & Sons (ISBN: 978-13941-6642-8), pp 1-268.

### Patent Applied /Granted

- P Krishna Reddy, P Parthiban, J Santhosh Reddy, "Torque Measurement System and Method for Torque-Controlled Motor Drives", Patent Application No. 202341084995, Patent No. 552916.
- Vignesh Kumar V, B. Venkatesaperumal, Ragavendra Rao P, "A method and system for global peak detection under non-uniform insolation conditions" Patent Application No.: 202141016770, Patent No.: 561351.

## DEPARTMENT OF INFORMATION TECHNOLOGY

### Patent Granted

- Prof. G Ram Mohana Reddy, Indian Patent No. 541848 with Application No. 201641034429 titled “System and Apparatus for Customizable Keyboard with Mouse” (C.000364) is Filed at the Indian Patent Office on 07-10-2016; Patent is Published on 13-04-2018 and Patent is Granted on 14-06-2024.
- Bhawana Rudra, Sarvesh Sawant “CONVOY VEHICLE IDENTIFICATION AND AUTHENTICATION SYSTEM AND METHOD THEREOF Patent number: 561129

### Book Chapters

- 📖 Gagandeep, K.N., Belagali, A.R., Rashmi, M., Guddeti, R.M.R. (2024), “Interactive System for Toddlers Using Doodle Recognition”. In: Ghosh, A., King, I., Bhattacharyya, M., Sankar Ray, S., K. Pal, S. (eds) Pattern Recognition and Machine Intelligence. PReMI 2021. Springer Lecture Notes in Computer Science, vol 13102, First Online 24 July 2024, Springer, Cham. [https://doi.org/10.1007/978-3-031-12700-7\\_61](https://doi.org/10.1007/978-3-031-12700-7_61)
- 📖 Niranjana, Natesha, B.V., Rashmi, M., Guddeti, R.M.R. (2024), “An Effective Real-Time Surveillance System for Fire and Smoke Detection Using CNN”. In: Ghosh A., King I., Bhattacharyya M., Sankar Ray S., K. Pal S., (eds) Pattern Recognition and Machine Intelligence. PReMI 2021. Lecture Notes in Computer Science, First Online 24 July 2024, vol 13102. Springer, Cham. [https://doi.org/10.1007/978-3-031-12700-7\\_49](https://doi.org/10.1007/978-3-031-12700-7_49)
- 📖 Reshma Unnikrishnan, Sowmya Kamath S, Ananthanarayana V S., “Leveraging Language Models for Location-specific Disease Mortality Rate Prediction from Large-scale Social Data”, in Decision-making in Computational Intelligence-based Systems, Springer Nature, 2025 (Editors: Pedrycz, Rivera, Rodríguez, and Ibarrá)
- 📖 Kumar, Rahul, K. Karthik, and S. Sowmya Kamath. "GAN-Based Encoder-Decoder Model for Multi-Label Diagnostic Scan Classification and Automated Radiology Report Generation." Handbook of AI-Based Models in Healthcare and Medicine. CRC Press, 2024. 93-109.

### BOOK PUBLISHED

- 📖 Machine Learning – Theory and Practice, Authors: MN Murty and Ananthanarayana V.S, Publisher: Universities Press, Hyderabad, ISBN: 9789393330697, Year of Publications: April 2024.

### DEPARTMENT OF MATHEMATICAL AND COMPUTATIONAL SCIENCES

#### Book Chapters :

- 📖 I. K. Argyros, S. George, M. Argyros, Gauss-newton methods for convex composite optimization under generalized continuity conditions, Mathematical Analysis: Theory and Applications, pp. 367–378
- 📖 N. N. Murulidhar and B. Roopashri Tantri; "Machine Learning Approach for Testing the Efficiency of Software Reliability Estimators of Weibull Class Models" in "Analytics Modeling in Reliability and Machine Learning and Its Applications" ; Editor: Hoang Pham; ISSN 1614-7839 ISSN 2196-999X (electronic) ; Springer Series in Reliability Engineering; ISBN 978-3-031-72635-4 ISBN 978-3-031-72636-1 (eBook); <https://doi.org/10.1007/978-3-031-72636-1>; © The Editor(s) (if applicable) and The Author(s), under exclusive license to Springer Nature; Switzerland AG 2025.

#### Books Published :

- 📖 G. I Argyros, S. Regmi, I. K. Argyros, S. George, Contemporary Algorithms: Theory and Applications. Volume IV, ISBN 979-889113915-2, 979-889113816-2 , DOI 10.52305/SSXS8026.

### Achievements during 1st April 2024 to 31st March 2025

- 📖 P. Gayathri, K. Sreelakshmi, V. Thota: “Equability and strong equability in Banach space”, Communicated.

- 📖 P. Gayathri, V. Thota: “ On stability of restricted center properties and continuity of restricted center map under  $I_p$ -direct sum”, Communicated
- 📖 P. Gayathri Shortlisted to appear for the interview of Inspire Faculty Fellowship 2024.
- 📖 The manuscript, titled “Elements of Functional Analysis and Operator Theory”, by S. Kundu and M. AGGARWAL is submitted to a well-reputed international publishing house for consideration.
- 📖 M. AGGARWAL Submitted two research papers to international journals

## DEPARTMENT OF MECHANICAL ENGINEERING

### Other Achievements

- Prof. G.C. Mohankumar visited Japan to attend the Symposium
- Prof. Ramesh M R and Prof. Sharnappa J visited Belarus as a part of a DST project.
- Dr Mervin Joe Thomas served as a domain expert for the Voice of stakeholders connect in Young Innovators Program 6.0.
- Dr Mervin Joe Thomas received the certificate of excellence in Peer review by the B P International publishers.

### Book Published

- Dr Ranjeet Kumar Sahu and Devendra Laxman Kamble published a book titled “Advanced Manufacturing Processes”, published by AICTE, New Delhi.

### Book Edited

- Prof. G C Mohankumar edited a book titled “Theory of Machines and Mechanisms”, published by AICTE, New Delhi
- Dr Arun Kumar Shettigar edited a book titled Biofuel Production, Performance, and Emission Optimisation, published by Springer.

### Book Chapter

- Peter, J., Thomas M.J., Gokulkrishna, S., Cholappally, K., Mohan, S. (2025). Development of an Intuitive Autonomous Ground Robot for Indoor Delivery Applications. In: Deepak, B.B.V.L., Bahubalendruni, M.R., Parhi, D., Biswal, B.B. (eds) Recent Advancements in Product Design and Manufacturing Systems. IPDIMS 2023. Lecture Notes in Mechanical Engineering. Springer, Singapore., pp. 33-43, [https://doi.org/10.1007/978-981-97-6732-8\\_3](https://doi.org/10.1007/978-981-97-6732-8_3)
- Behera, N., Chandramouli, T.V., Aprameya, C.R., Ramesh, M.R. (2024). Influence of Impact Angle and Temperature on Solid Particle Erosion Behaviour of Titanium-31. In: Vijayan, V., Shetty, R.P., Pai, S.P. (eds) Smart Materials and Manufacturing Technologies for Sustainable Development. SME 2023. Advances in Science, Technology & Innovation. Springer, Cham. [https://doi.org/10.1007/978-3-031-63909-8\\_38](https://doi.org/10.1007/978-3-031-63909-8_38)
- Singh, R.K., Verma, K., Kumar, G.C.M. (2024). Comparison of Stress Distribution of Graphene-Based Bioactive Material for Zirconia and Titanium by Applying Orthotropic Properties: A Finite Element Analysis. In: Venkata Rao, R., Taler, J. (eds) Advanced Engineering Optimisation Through Intelligent Techniques. AEOTIT 2023. Lecture Notes in Electrical Engineering, vol 1226. Springer, Singapore. [https://doi.org/10.1007/978-981-97-4654-5\\_28](https://doi.org/10.1007/978-981-97-4654-5_28)

### Patents

- Dr Khyati Verma, Subodh Kumar Suman got approved an Indian Patent on developing a Sit to Stand and Stand to Sit Assisting Device and Method thereof (Patent Application no.: 551002)
- Dr Abhilash Singh got an Indian patent approved on developing a A helmet with anti-rotational pads (Patent Application no.: 541869)



## Conference Paper

- Asha, S.M.M, Ezaz Ahammed, D. A. Perumal\*, Ajay Kumar Yadav, "Exergy Analysis of Bifurcated Microchannel with CNT Nanofluid for Thermal Management of Microprocessor, 2nd International Conference on Fluid, Thermal and Energy Systems- 2024 (ICFTES'24), NIT Calicut
- Narendran G, Gnanasekaran N, D Arumuga Perumal, "Analyzing the impact of nanofluid flow rate and thermal conductivity on response time in a compact heat spreader-integrated microchannel heat sink", The 18th International Congress on Thermal Analysis and Calorimetry (ICTAC 2024), IIT Madras
- I. H. Sudar, R. Choudhury, S. Nagarajan and Thomas M J., "Novel mechanism to mimic the human knee joint for varied anthropomorphic populations", in 3rd International and 15th National Conference on Industrial Problems on Machine and Mechanisms 2024, NIT Jamshedpur, 19 – 21 December 2024
- S. Vijapur, O. A. Jungade and Thomas M.J., "A Comparative Analysis Between Sliding Mode Control and Super Twisting Sliding Mode Control Applied on a Quadcopter," IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT), IISc Bangalore, July 12-14, 2024, pp. 1-6, doi: 10.1109/CONECCT62155.2024.10677315
- S. Naveen, S. Panigrahi, A. Vinit, I. H. Sudar and Thomas Mj., "Development of Pneumatic Soft Gripper for Effective Material Handling," IEEE Recent Advances in Intelligent Computational Systems (RAICS), Kothamangalam, Kerala, India, 2024, pp. 1-6, doi: 10.1109/RAICS61201.2024.10690075
- Sumanth N Hegde, Arumuga Perumal D, "Aerodynamic Analysis of Rear Spoilers in Automobiles using CFD", 2nd International Conference on Fluid, Thermal and Energy Systems- 2024 (ICFTES'24), NIT Calicut
- Pradeep Kumar Modi, D. Arumuga Perumal, Sasith Anbalagan, "Study of Natural and Forced Convection in Heated Cavity by Lattice Boltzmann Method," 2nd International Conference on Fluid, Thermal and Energy Systems- 2024 (ICFTES'24)
- Arjun M, Arumuga Perumal D, "Numerical analysis of LiFePO4 battery wall temperature with air cooling using copper metal foam", The 18th International Congress on Thermal Analysis and Calorimetry (ICTAC 2024)
- Rupankar Das, Sathya P, Yashaswini Bavandla, KB Pramod, Bhukya Mamatha, D., "MACHINE LEARNING PREDICTIVE ANALYSIS OF FLUID FLOW CHARACTERISTICS ON LID DRIVEN CAVITY FLOW", 4th International Conference on Recent Trends in Engineering, Technology and Business Management (ICRTETBM-2025)
- Soumyabrota Sen, Liz George, Shruthi H, Tarun M, Arumuga Perumal D, Sabari M, " Mesoscopic Lattice Boltzmann Simulation of two-sided lid-driven microcavity flow", International Conference on Mathematics and its Applications in Technology (ICMAT 2025)
- Sathyabhama A, Harshavardhan Sai, Jayapal Reddy C, Ramakrishna N Hegde, "Aerodynamic Performance of Wing with Leading Edge Protuberances under Static and Dynamic Conditions", Symposium on Applied Aerodynamics and Design of Aerospace Vehicle (SAROD 2024)
- V Shanmugaraj, G Shruthi, Arun Kumar Shettigar, Prasad Krishna, "Analysis of Materials Expansion Properties for Computation of Thermal Error Compensation Values for Machine Tool Applications", International Conference on Smart and Sustainable Developments in Materials, Manufacturing and Energy Engineering
- Devendra L Kamble, Ranjeet Kumar Sahu and Narendranath S, "Metallurgical and mechanical characterization of Inconel 625/SS 304 weldments produced using selective microwave hybrid joining technique", International Conference on Materials, Design, and Manufacturing Process (ICMDM-2023)
- V Veeranaath, Ranjeet Kumar Sahu and Infanta Mary Priya, "Effect of Blending Duration on Physical, Mechanical and Tribological Behavior of Aluminum Matrix Composites: An Experimental Analysis", International Conference on Advances in Mechanical Engineering and Material Science (ICAMEMS-23)
- Tejanshu Sekhar Sahu, Ranjeet Kumar Sahu, and Prasad Krishna, "Study on Influence of Suspended Nanoparticles on Micro Electro Discharge Drilling of WC using an In-house fabricated Tool Electrodes", 13th International Conference on Precision, Micro, Meso and Nano Engineering
- Alankrit Gupta, Aditya H R , Jomin George , Ranjeet Kumar Sahu, Hemantha Kumar, Debashisha Jena, Sudhakar C Jambagi, "Synthesis of Nitinol Nanoparticles using plasma-Sourced Digital Micromachining: Optimization and Characterization for Advanced Technological Applications", 13th International Conference on Precision, Micro, Meso and Nano Engineering
- Bhargav V J K, Ranjeet Kumar Sahu, Tejanshu Sekhar Sahu, "Synthesis and characterisation of Borosilicate nanoparticles using ES-μ-ECDM system", 1st National Conference on Climate Resilience and Environmentally Sustainable Technologies (NITK-CREST 2025)



- Singh R. K., Verma K., Kumar G.C.M., “Prediction of elastic properties of PMMA-Hydroxy apatite Composites mixed with graphene oxide: A micromechanics approach”, Conference on Precision, Meso, Micro and Nano Engineering (COPEN) 2024
- Kalghatgi K., Verma K, Das B,” Flat Foot Detection in the Indian Population: Validation of Morphological Indices Using a Diagnostic Device”, 4th International Conference on Future Technologies in Manufacturing, Automation, Design & Energy (ICOFT MADE) 2024
- S. U. Sholapurkar, S. Chanda, K. Verma, S. N. H and B. Das, “Development of a Rack-and-Pinion Mechanism with Arduino-Based PID Control System for a Continuous Passive Motion Device in Knee Rehabilitation”, 4th International Conference on Emerging Frontiers in Electrical and Electronic Technologies (ICEFEET), Patna, India, 2024
- V. Varma, H. Mehta, K. Verma and K. Gangadharan, “Maximising Performance and Efficiency: An Algorithm Approach to Engine Sensor Optimisation using Machine Learning”, 4th International Conference on Emerging Frontiers in Electrical and Electronic Technologies (ICEFEET), Patna, India, 2024
- Kishan A, Ranjith Maniyeri, “Numerical Simulation of Magnetohydrodynamic Flow Past Stationary Object Using Immersed Boundary Method”, 5th Indian Conference on Recent Advances in Mechanical Infrastructure (ICRAM 2025),
- Pramath Bhat, Ranjith Maniyeri,” Finite Difference Method Based Modelling of Heatstroke Using Bioheat Transfer Equations”, 5th Indian Conference on Recent Advances in Mechanical Infrastructure (ICRAM 2025)
- Sumedh Patil, Ranjith Maniyeri, “ Computational Analysis of Sedimentation of Particle in a Channel Using Immersed Boundary Method”, 5th Indian Conference on Recent Advances in Mechanical Infrastructure (ICRAM 2025)
- D K Ravada, Ranjith Maniyeri, “ Numerical Simulation of Active Filament Dynamics in Fluid Flow”, 6th Indian Conference on Applied Mechanics (INCAM 2024)
- Ahammed Kabeer V P, Ranjith Maniyeri, Anish S, “ An Iterative Algorithm for Designing and Scaling of a Parabolic Trough Collector Based Solar Agro-Drying System”, 22nd ISME- International Conference on Recent Advances in Mechanical Engineering for Sustainable Development (ISME 2024)
- Anees Fahim, Anish S, Ranjith Maniyeri, “ Numerical Study on Flow Through Flexible Stenotic Channel Using Immersed Boundary Method”, 2nd International Conference on Recent Advances in Fluid Mechanics and Nanoelectronics (ICRAFMN-2024)
- Nishant Mahamuni, Ranjith Maniyeri, “Computational Modelling of Magnetic Hydrodynamics Oscillatory Flow in a Channel”, 2nd International Conference on Fluid, Thermal and Energy Systems (ICFTES'24)
- Urvesh Parmar, Ranjith Maniyeri, “Computational Modelling of Electroosmotic Flow in a Channel”, 2nd International Conference on Fluid, Thermal and Energy Systems (ICFTES'24)
- Nandish R H, Ranjith Maniyeri, “Numerical Simulation of Biomagnetic Fluid in a Cavity with Parallel and Antiparallel Wall Motions”, 2nd International Conference on Fluid, Thermal and Energy Systems (ICFTES'24)
- Kavin Kabilan, Ranjith Maniyeri, “Computational Modelling of Electrohydraulic Flow in a Channel”, 2nd International Conference on Fluid, Thermal and Energy Systems (ICFTES'24)
- Nihal Hegde, Ranjith Maniyeri,” Numerical Study of Skin Response and Comparative Analysis of Heat Flux Applications During Hyperthermia Therapy”, 2nd International Conference on Fluid, Thermal and Energy Systems (ICFTES'24)
- Ahammed Kabeer V P, Ranjith Maniyeri, Anish S, “ Design, Fabrication and Analysis of a Parabolic Trough Collector Based Indirect Solar Drying System for Agro-Based Items”, 2nd International Conference on Fluid, Thermal and Energy Systems (ICFTES'24)
- Prasad Prabhu Savanur, B S N Abhishek, Nihal Bendre, Adith Prasad, Balaji, Ranjith Maniyeri, “Numerical Modelling of Magnetic Hyperthermia Using Finite Difference Method”, 2nd International Conference on Fluid, Thermal and Energy Systems (ICFTES'24)
- Manish C Poojari, Ranjith Maniyeri, Krishnan C M C, Pushparaj A, “Torque Dynamics for Addressing Crouch Gait in Cerebral Palsy With Active Knee Exoskeleton”, 2nd International Conference on Mechanical Engineering- Research and Evolutionary Challenges- 2024
- Manish C Poojari, Ranjith Maniyeri, Krishnan C M C, Pushparaj A, “Kinematic Study of a Novel Active Knee Exoskeleton for Alleviating Crouch Gait in Individuals with Cerebral Palsy”, First International Conference on Advances in Modern Age Technologies for Health and Engineering Sciences (AMATHE 2024)

## DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

### Poster Presentation

- DR. Naorem Aruna Devi an Institutional Post Doctoral Fellow has been awarded the Best Poster Presentation Award in the theme area of Animal and Medical Biotechnology at the International Conference on Advances in Biotechnology and Bioinformatics(ICABB 2024) held in Dr. D.Y. Patil Vidyapeeth, Pune, on 26-29 November 2024.
- Hisham J Muhammed and K Narayan Prabhu, Wettability and bond strength of TiO<sub>2</sub> doped SAC305 lead-free solder nanocomposites, IIM-ATM, GKV, Bengaluru, 22-24, November 2024
- Presented poster titled “Multi-Axial Forging of Samarium-Modified AA5083 Alloy: Microstructural and Mechanical Improvement” (Aravindh, G, Kumar, G.V.P. & Udaya Bhat at IIM(ATM)- 2024, GKV, Bangalore

### Oral Presentations

- Kamalanathan D and K.N.Prabhu, Fluid flow and heat transfer during injection molding of PolyethyleneTerephthalate, Special PhD Session, IIM-ATM, GKV, Bengaluru, 22-24, November 2024
- Raghavendra Pai, Vijeesh Vijayan and K.N.Prabhu, Effect of WAAM process parameters on heat transfer, crystallographic texture, mechanical properties and surface texture of Al4043 alloy, IIM-ATM, GKV, Bengaluru, 22-24, November 2024

### Patent Applied

- Raghul A, Udaya Bhat K Sridhar Balaram: (TEMP/E1/8768/2019CHE) Method and System for Fabricating a Structure Using Additive Manufacturing Wastes of C300 Maraging Steel: Patent grant: 522374, Grant date: 08/03/2024, Application No: 201941009001, date of filing :08/03/2019
- G. Venugopalan, R. Bhandary, S. Anandhan, H.G. Patil, ‘Bilayer scaffold combining Gelatin, Hyaluronic Acid, and Copper Nanoparticles, created using electrospinning, on Polydopamine-coated Titanium implants’ (Indian Patent, Application number: TEMP/E-1/67908/2024-CHE, date of filing: 2nd August 2024).
- Subray R Hegde, J K Rakshan Kumar, Sudhir Hegde, Sudarshan B, Jayarama Bhat M, Ganesh Bhat, Allen John, Praveen R: Industrial Thermocouples with Superior Creep Resistance. Indian Patent No. 557260 granted jointly to MRPL & NITK on 31/12/2024
- Darshan M L, Ravi Shankar K S, Bio-inspired Helicoidal Structure Basalt/Hemp/Polyurethane Rubber Sandwich Bio-composite, Application Number 202541009378 dated 05/02/2025. (Filed)
- Mahin Saif Nowl, Ambili V, Santhra Krishnan P, Harshitha N Anchan, Saikat Dutta, Saumen Mandal, “A process of preparing an ultraviolet (UV) protective coating from marine food bio-waste materials”, “Indian Patent”, Application Number 202441027163 dated 02/04/2024. (Filed)
- Lakkimsetti Lakshmi Praveen, Juvva Srinithya, Soorya G, Saumen Mandal, “A method of preparing low temperature processed Ni-Ti-TiC eutectic cermet”, “Indian Patent”, Application Number 202441082120 dated 28/10/2024. (Filed)
- Lakkimsetti Lakshmi Praveen, Harsha Satija, Shagun Kumar, Saumen Mandal, “A method of formulating colloidal boron quantum dots dispersion in glycerol for gas-sensing application”, “Indian Patent”, Application Number 202541004383 dated 20/01/2025. (Filed)

### Book Chapters

- 📖 Prashanth Huilgol, Devadas Bhat P, **Udaya Bhat K**, Naveen Bharadishettar, Recent Advances in Aluminizing of mild steel plates, in Reference Module in Materials Science and Materials Engineering, Comprehensive Materials Processing, 2e (Elsevier), <https://doi.org/10.1016/B978-0-323-96020-5.00253-3>, p1-24.
- 📖 R. Singh, M. Khalifa, S. Janakiraman, A. Venimadhav, S. Anandhan, K.Biswas, 'Polymer electrolytes and separators for magnesium ion batteries', Ch. 7, Vol. 1, in 'Advanced Technologies for Rechargeable Batteries', ISBN: 9781003310167, P. Raghavan, A. Das, J. Fatima M. J., Eds, CRC press, USA, August 2024.

- 📖 T. Sathies, G.S.Ekbote, S. Anandhan, 'Piezoelectric and triboelectric nanogenerators based on electrospun PVDF-nanofiller composites', in 'Energy Harvesting Properties of Electrospun Nanofibers', ISBN: 978-0-7503-5487-5, J. Fang and T. Lin, Eds., IOP Science, UK, 2nd Edn, 17 March 2025.

### Conference papers

- Vikas Marakini, P Srinivasa Pai, K Udaya Bhat, Dinesh Singh Thakur, Bhaskar P Achar, Influence of milling parameters on Al-Li alloy surface characteristics, Materials Today Proceedings, 2023, v92, No 1, 399-405; <https://doi.org/10.1016/j.matpr.2023.05.458>
- Naveen Bhardishettar, Kishan Kumar K Udaya Bhat, Compositionally modulated multilayer Cu-Zn alloy coatings fabricated using eco-friendly non-cyanide pulse electrochemical deposition, Materials Today Proceedings, 2023, v92, No1, 32-37, <https://doi.org/10.1016/j.matpr.2023.03.467>
- Rahul Kumar Singh, Kunal Bhalchandra Bhole, Shashi Bhushan Arya, Jagannath Nayak "Enhancing X70 Steel Durability: Tribo-Corrosion Resistance Through Protective Laser Cladding" ICTC-2024, 10-11 December, 2024
- Shilajit Das, Shashi Bhushan Arya "Influence of Temperature on EIS Characteristics of Lithium-ion Battery" GEM, MEET-2024, Bangalore India.

### SCHOOL OF HUMANITIES, SOCIAL SCIENCES AND MANAGEMENT

#### Prof. Pradyot Ranjan Jena

- Editorial Board Member of the Nature journal -Scientific Reports
- Editorial Board Member of the journal Discover Agriculture

#### Lecture Delivered

- Dr. Rajesh Acharya H-delivered an invited lecture titled 'Energy Poverty and Women Empowerment: Implications for Women's Skill Development' in two-day national seminar on 'Pathways to Progress: Enhancing Women's Skill for VIKSIT BHARAT' during 17-18 February 2025 organised by Kukke Sri Subrahmanyeshwara College, Kukke Subrahmnaya
- Dr. Rahul Sivarajan-delivered an invited expert talk at St. Aloysius (Deemed to be University), Mangalore on "Qualitative Data Analysis" on 28th September 2024

#### Books Edited

- 📖 Jena, P.R., Managi, S., Majhi, R, (2024). Natural Capital and Climate Smart Agriculture: Measuring Progress towards Sustainability and Policy Making in India, Taylor & Francis Natural Capital and Climate Smart. Agriculture: Measuring Progress towards Sustainability and Policy Making in India, 2024, pp. 1-190

### DEPARTMENT OF PHYSICS

- Ph. D. student Roshna K participated and presented a paper in the Seventeenth Marcel Grossman meeting on Recent Developments in Theoretical and Experimental General Relativity, Gravitation, and Relativistic Field Theories, held in hybrid mode from 07 - 12 July, 2024 at Aurum, the 'Gabriele d'Annunzio' University and ICRANet, Italy. The paper co-authored by Dr. V. Sreenath is titled "Viability of loop quantum cosmology at the level of bispectrum" (arXiv:2410.00614 [astro-ph.CO]).
- Ph. D. student Roshna K participated and presented a talk titled "LQC: non-Gaussian yet Gaussian", at CosmoGravitas: 1st International Conference in Cosmology and Gravitation held from 10th June to 14th June hosted by the Centre for Theoretical Physics and Natural Philosophy, Mahidol University, Nakhonsawan Campus.

- Ph. D. student Ganga R. Nair participated and presented a poster titled “Generation of primordial magnetic fields in LQC” in the 33rd Meeting of the Indian Association for General Relativity and Gravitation (IAGRG): Ripples in action held at BITS Pilani, Pilani, Rajasthan from 02 - 04 January, 2025.
- Ph. D. student Ganga R. Nair participated and presented a talk titled “Generation of primordial magnetic fields in LQC” in The Regional Astronomy Meeting X: Opportunities and Challenges held at Cochin University of Science and Technology, Ernakulam, from 31 January to 02 February, 2025.
- Dr. Sreenath V participated and presented a talk titled “Machine Learning CMB Cold Spot” in the 33rd Meeting of the Indian Association for General Relativity and Gravitation (IAGRG): Ripples in action held at BITS Pilani, Pilani, Rajasthan from 02 - 04 January, 2025.

#### **DEPARTMENT OF WATER RESOURCES AND OCEAN ENGINEERING**

##### **Patent granted :**

- Mr. Rony J.S & Dr. Debabrata Karmakar, RUSTRUM TENSION-LEG PLATFORM FOR FLOATING WIND TURBINE, Patent No: 540466.

## 8. INDUSTRY INSTITUTE INTERACTION

### 8.1 Centre for Innovation, IPR, and Industrial Consultancy (CIC):

The CIC at NITK, Surathkal, is engaged in building Institute Industry Collaboration for mutual benefit, The CIC is headed by an Associate Dean (Testing and Consulting) and a Faculty-in-charge (Institute Innovation Council), The Associate Dean (T&C) and FIC (IIC) report to the Dean (Research and Consultancy) and The Director. The CIC office is mainly involved in handling Testing Consultancy works and Patent works of all the departments in the Institute:

#### Patents filed, Published, and Granted for the year 2024-2025:-

➤ No. of Patents Filed	38
➤ No. of Patents Published	41
➤ No. of Patents Granted	53

#### Testing and Consultancy works: -

Testing and Consultancy revenue generated for the year 2024-2025

<u>Year</u>	<u>Total Revenue</u>
2024-2025	700 Lakhs

### 8.2 Memorandum of Understanding: -

MOU SIGN DATE	DURATION	ORGANIZATION	DOMAIN
28-03-2025	3	Indian Institute of Technology, Madras	To conduct the joint scientific measurements under contrasting environmental conditions of gas and particle phase measurements by providing the PTR-MS by NITK Surathkal, and other gas and particle phase instrument by IIT Madras.
25-03-2025	5	Hewlett Packed Software Operation Private Ltd, Bengaluru	To collaborate on Research, various academic activities, and Internship
21-01-2025	3	Central Manufacturing Technology Institute, Bangalore	Their mutual intentions to jointly work on R&D in Design and Manufacturing Engineering and also in areas like Micromaching, Green manufacturing, Industrial Ergonomics, and other advanced Manufacturing Technology areas. Both parties agree that they shall harness their complimentary resources, leverage the facilities, and work together to pursue cooperative research activities for the benefit of the manufacturing and machine tool sector at large.
19-12-2024	5	University of Agder, Norway	To provide a mechanism for the development of activities which will lead to the strengthening and growth of mutually educational and scientific activities conducted jointly by NITK and UiA

31-05-2024	5	5C Network Pvt. Ltd Bengaluru	The collaboration between NITK and 5C Network aims to promote research and development in digital radiology and AI-enhanced diagnostics. As part of this collaboration, advanced research for designing intelligent solutions for medical imaging related challenges will be explored. Additionally, the collaboration aims to support training programs, workshops, and seminars, and to provide students with practical experience through internships opportunities and projects in the field of digital radiology.
31-05-2024	5	Moovita Pte. Ltd Singapore	The collaboration between NITK and MooVita aims to promote research and development in data analytics and machine learning applications in the Smart Mobility domain. As part of this collaboration, advanced research in designing big data analytics solutions and machine learning applications for pattern analysis will be explored. Additionally, the collaboration aims to provide students with practical experience through internships opportunities and projects in the field of Smart Mobility.
25-04-2024	5	Oakland University, Rochester, Michigan U.S.A	Faculty exchange /Student exchange Program
08-04-2024	3	Directorate of Futuristic Technology Management and Technology Development Fund, Defence Research Development Organization (DRDO), Ministry of Defence, Government of India, New Delhi	To collaborate on Research and Project
01-04-2024	5	Centre for development of advanced computing (C-DAC), Bangalore	To facilitate a collaborative Program of R&D and Academic Research

### 8.3 Innovations & Technology Transfer

#### 8.3.1 Existing/ Completed Initiatives:

##### DEPARTMENT OF MINING ENGINEERING

- Sandi Kumar Reddy, Anil S Naik, M Aruna, Mandela Govinda Raj Patent Title: An IOT-Enabled Real-Time Early Warning Hazard Monitoring System for Underground Mine Environmental Parameters. Patent No.: 559665; Application No.: 202441042240; Date of Filing: 30/05/2024;

##### DEPARTMENT OF PHYSICS

Details of Innovation	Names of faculty/staff/students involved
METAL CHALCOGENIDE – BASED NANOALLOY COMPOSITIONS FOR SEAWATER SPLITTING AND METHOD THEREOF	John D Rodney, Sindhur Joshi, Subhasmita Ray, Lavanya Rao, S Deepapriya, Karel Carva, Badekai Ramachandra Bhat, NK Udayashankar, Suresh Perumal, Sadhana Katlakunta, C Justin Raj, Byung Chul Kim





## 9. HUMAN RESOURCE DEVELOPMENT

### 9.1 Training Status

#### DEPARTMENT OF CHEMICAL ENGINEERING

- Prof. Vidya Shetty K participated in the Nurturing Future Leadership Programme (NFLP) under the aegis of Malaviya Mission Teacher Training Programme conducted by IIM Indore during July 8-12, 2024
- Prof. Vidya Shetty K participated in the Continuing Education Programme under Short Term Certification Course on “Environmental Nanotechnology: Fundamentals Toward Interactions, Implications, and Applications” conducted by Centre for Outreach and Digital Education Indian Institute of Technology Madras from 24th - 28th June, 2024

#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

- Dr. Laishram Thoibileima Chanu and Dr. Rajshree Rajkumari are participated online refresher course on Atom to Device understanding of Emerging Semiconductor Technology Schedules at ISM Dhanbad from 24 February-7 March 2025.

#### DEPARTMENT OF INFORMATION TECHNOLOGY

- Dr Geetha V participated in the Capacity Building on Design and Entrepreneurship (CBDE) program, an initiative by Ministry of Education, aimed at fostering design thinking and entrepreneurial skills in higher education institutions.
- Prof. G. Ram Mohana Reddy attended 35th IEEE Conference of Open Innovations Association FRUCT, April 24-26, 2024, Tampere, Finland (Online).
- Prof. G. Ram Mohana Reddy attended IEEE SILCON-2024 (Flagship Annual International Conference of IEEE Silchar Subsection, IEEE Kolkata), Nov. 15-17, 2024, NIT Agartala (Online).
- Dr. Sowmya Kamath S. successfully completed the 5-week Faculty Development Program in 5G Technology conducted by the Technical Division, Department of Telecommunications, India, during 27th March 2024 to 25th April 2024.
- Dr. Sowmya Kamath S. participated in the Capacity Building on Design and Entrepreneurship (CBDE) program, an initiative by the Ministry of Education, aimed at fostering design thinking and entrepreneurial skills in higher education institutions.
- Dr. B. R. Purushothama attended Faculty Development Programme on CBDE Pedagogy workshop at IIIT Dharwad from 25-26, March 2025.
- Dr. B. R. Purushothama attended: Third International Conference on Information Security, Privacy and Digital Forensics (ICISPD 2024) at NIT Goa.
- Dr. B. R. Purushothama Technical Program Chair & attended: 6th International Conference on Machine Learning, Image Processing, Network Security and Data Sciences (MIND 2024) at NIT Goa.
- Dr. Janani T attended a 2-Day Faculty Development Program (FDP) on Innovation & Entrepreneurship scheduled on 25th -26th March 2025, at IIIT Dharwad under CBDE Programme.

#### DEPARTMENT OF MECHANICAL ENGINEERING

- Dr Mervin Joe Thomas attended the workshop on unleashing innovations for and from the grass-roots by Prof. Anil K Gupta at NITK.
- Dr Mervin Joe Thomas attended the 2-day Faculty Development Program on Pedagogy to promote design and entrepreneurship during 25 and 26 March at IIIT Dharwad.
- Prof. Sathyabhama attended the Nurturing Future Leadership program at IIM Mumbai during 24-28 June 2024.

- Dr Arunkumar Shettigar attended the Nurturing Future Leadership program at IIT Mumbai during 18-23 Feb 2025.
- Prof. Veershetty Gumtapure attended the Research-based Teaching Excellence in Engineering Education at IIT Madras during 8-13 July 2024.
- Prof. Veershetty Gumtapure attended the Nurturing Future Leadership at IIM Nagpur during 15-19 July 2024.

#### DEPARTMENT OF PHYSICS

- Prof. Ajith K M, Two Day Faculty Development Program (FDP) on Innovation & Entrepreneurship, IIIT Dharwad as part of Malaviya Mission Teacher Training Program (MMTTP) Scheme of Ministry of Education, 25/03/2025 - 26/03/2025.
- Dr. Sreenath V, Two Day Faculty Development Program (FDP) on Innovation & Entrepreneurship, IIIT Dharwad as part of Malaviya Mission Teacher Training Program (MMTTP) Scheme of Ministry of Education, 25/03/2025 - 26/03/2025.

#### SCHOOL OF HUMANITIES, SOCIAL SCIENCES AND MANAGEMENT

- **Dr. Rahul Sivarajan** attended the Faculty Development Program on Teaching Pedagogy (17th-19th May, 2024) organised by School of Management Studies, University of Hyderabad.

### 9.2 Placement of Staff for Academic Excellence

#### DEPARTMENT OF CHEMICAL ENGINEERING

- ❖ Prof. I. Regupathi, Vice-Chairman, Local Organising Committee and Member, Core Committee, Central Seat Allocation Board-2024 (CSAB 2024), MoE, Govt. of India
- ❖ Prof. Vidya Shetty K: Member of the Board of Studies (Chemical Engineering) of the Department of Chemical Engineering, Saintgits College of Engineering, Kottayam, Kerala for three years from 17-10-2024
- ❖ Prof. Vidya Shetty K , Member Departmental Advisory Board, Department of Chemical Engineering, MIT Manipal
- ❖ Prof. Vidya Shetty K , VTU Nominee for BOS for Department of Chemical Engineering, R.V College of Engineering
- ❖ Prof. Vidya Shetty K VTU Nominee for BOS for Department of Chemical Engineering, BMS College of Engineering
- ❖ Prof. Vidya Shetty K , Member of First Year Board of Studies , MIT Manipal
- ❖ Prof. Vidya Shetty K , Member of BOS as VTU Nominee , Department of Chemical Engineering, SIT Tumkur
- ❖ Prof. Vidya Shetty K Member of Board of Studies for Chemical Engineering, Karnataka Polytechnic Mangalore
- ❖ Prof. Vidya Shetty K -Expert Member of Selection committee for Promotions for Chemical Engineering MAHE, Manipal .
- ❖ Prof. Vidya Shetty K -Served as a Member of Doctoral thesis assessment Committee at IIT Kharagpur, CFTRI, Mysore, CUSAT, Cochin
- ❖ Prof. Vidya Shetty K -Member of Selection committee for Faculty Selections at North Eastern Regional Institute of Science and Technology held on 24-25 January 2025, Arunachal Pradesh
- ❖ Dr. Jagadeesh Babu has given an invited talk in Downstream Processing, National Level Workshop on Bioprocess Techniques, SRM Institute of Science and Technology, Chennai, 19<sup>th</sup> December, 2024
- ❖ Prof. Hari Prasad Dasari delivered an insightful expert talk on "Characterization of Nanomaterials" as a resource person in the ATAL Academy-sponsored FDP on "Nanotechnology & Applications" organized by Karnataka (Govt.) Polytechnic, Mangaluru, Karnataka

- ❖ Dr. Jagannathan T K has given an invited talk in “Symposium on Process intensification and Nanotechnology Applications” organized at IIT Madras, June 15, 2024
- ❖ Dr. Jagannathan T K has given a invited talk in 4-day VGST/KSTePS sponsored FDP on “Advances and Recent Trends in Environmental and Energy Applications of Nanomaterials”, organized by MIT Manipal, 04-07 December 2024
- ❖ Dr. Ashraf Ali, B. “CFD modelling of micro reactors” . International conference (ASCENT) on March 20-22<sup>th</sup> March 2025, Department of Chemical Engineering, NIT Warangal (Telangana)
- ❖ Dr. Chinta Sankar Rao Has delivered an expert talk on “Leveraging Explainable AI for Predictive Modeling of Product Yields from Lignocellulosic Biomass Using Machine Learning” at 4th International Symposium on Analytical and Applied Pyrolysis Symposium (PyroAsia 2024), IIT Guwahati, 28-29, November 2024
- ❖ Dr. Chinta Shankar Rao Delivered a session on "Linear Dynamics and Process Control" as part of the AICTE Training and Learning (ATAL) sponsored Six-Day Online Faculty Development Programme (FDP) on "Recent Progress in Process Modelling, Simulation, and Process Control" held from January 6–11, 2025, at National Institute of Technology Tiruchirappalli (NIT Trichy).
- ❖ Dr. Mohan Lal Meena delivered an expert talk on "Nanomaterials for Display Devices" in the ATAL Academy-sponsored FDP on "Nanotechnology & Applications" at Karnataka (Govt.) Polytechnic, Mangaluru, held from January 20-25, 2025.

#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

- ❖ Dr. Sumam David visited Jeppiar Institute of Technology, Kancheepuram, Tamilnadu for NBA accreditation on 7 March 2025.
- ❖ Dr. Shyam Lal delivered a technical talk on "Deep Learning Algorithms for Urban Change Detection from Remote Sensing Images" at NIE Mysore on 18 February 2025.
- ❖ Dr. Sumam David attended 73<sup>rd</sup> meeting of the Board of Governors of the Institute of Management (IMG) at Kerala on 28 January 2025.
- ❖ Dr. Sumam David invited for a NAAC Peer-team visit to as Member Coordinator at Maharashtra on 24 January 2025.
- ❖ Dr. Prabu K invited as a resource person for SERB Seminar titled "AI in Wireless Communication and Sensor Networks: Networking to Application Perspectives at Karpagam Academy of Higher Education, Coimbatore on 24 January 2025.
- ❖ Dr. Prabu K invited as Resource person on ATAL FDP at NIE Mysore on 23 January 2025.
- ❖ Dr. Prabu K Delivered an expert lecture on ATAL Sponsored FDP on "6G Networks" at Sathyabhama Institute of Science and Technology, Chennai on 21 January 2025.
- ❖ Dr. Ashivini Chaturvedi and Shyam Lal participated in the Official Language Inspection by the Parliamentary Committee at Bengaluru on 21 January 2025.
- ❖ Dr. Shyam Lal delivered an Expert talk on "GIAN course on Advanced Remote sensing" at VNIT Nagpur from 16-17 January 2025.
- ❖ Dr. Sumam David delivered an expert talk on "curriculum development" at Indian Naval Academy Ezhimala, Kerala on 15 January 2025.
- ❖ Dr. Sumam David invited for a NAAC Peer-team visit to as Member Coordinator at Jharkhand State from 4-6 December 2024.
- ❖ Dr. Sumam David visited Philippines to serve as Program Evaluator for ABET on behalf of IEEE for ABET accreditation from 13-15 October 2024.
- ❖ Dr. Aparna P. conducted plantation driver program 'Ek Pedh maa ke naam' as per the directive obtained from MOE, Govt. of India, on 17 September 2024.
- ❖ Dr. Shyam Lal delivered Expert talk lectures under Endowment chair activities at CSPIT, Charusat University, Anand, Gujarat from 16-21 September 2024.

#### DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

- ❖ Dr. B Venkatesa Perumal, Associate Editor for the period from 1 January 2025 to December 2027, Sadhana (Electrical Sciences).

- ❖ Dr. B Venkatesa Perumal delivered Lecture on EMI and Noise Mitigation in WBG- Based EV Systems at ATAL Online FDP titled "Revolutionizing Electric Vehicle Powertrains: The Role of Wide-Bandgap Semiconductors in Overcoming Challenges and Shaping Future Trends" on 22-02-2025.
- ❖ Dr. Gururaj S Puneekar delivered an invited talk at "Science, Technology and Society ", Vigyan Jyoti Program – Empowering Girls in STEM December 30th 2024, Monday held at NITK Surathkal.
- ❖ Dr. Gururaj S Puneekar, PhD guidance to Mr Tesfaye Nafo Tefera on the topic "Electric field analysis of 500 kV transmission lines, three core belted and gas-insulated cables using FEMM for optimal design and safety compliance", as Main supervisor along with co-supervisors from Department of Electrical and Computer Engineering College of Engineering, Addis Ababa Science and Technology University, Ethiopia.
- ❖ Dr. Gururaj S Puneekar invited talk at Electrical & Electronics Engineering Department of Siddaganaga Institute of Technology Tumkur on 15th Oct 2024 Topic: Basics of Partial discharge (PD): As fault diagnostic tool in HV equipment.
- ❖ Dr. Gururaj S Puneekar talk on the topic, "Introduction to switchgears and protection", Master trainers training programme on advanced electrical systems", held from 11th Feb 2025 to 21st Feb 2025 at National Institute of Technology Karnataka (NITK) Surathkal, Mangaluru.
- ❖ Dr. Gururaj S Puneekar, Expert committee invited member for the syllabus review at MVJ college of engineering, Bangalore in July-August 2024.
- ❖ Dr. Gururaj S Puneekar, Session Chair at the IEEE International conference IEEE-PEDES 2024, 18th 21st December 2024.

## DEPARTMENT OF INFORMATION TECHNOLOGY

- ❖ Prof. G. Ram Mohana Reddy delivered Keynote Talk on "Fundamentals of AIML and Analytics: Some Real-Life Use Cases", 4-Day Executive Certificate Program on AI and Analytics, NITK Surathkal in collaboration with SetCONNECT, Nov. 19-22, 2024.
- ❖ Prof. G. Ram Mohana Reddy delivered Expert Talk on "Reliability analysis using Bayesian Belief Network on Drone System: A Case Study", IEEE SILCON-2024 (Annual Int. Conf. of IEEE Silchar Subsection, IEEE Kolkata), Nov. 15-17, 2024, NIT Agartala (Online)
- ❖ Prof. G. Ram Mohana Reddy delivered Keynote Talk on "AI and Engineering: Best Friends or Worst Enemies", Teacher's Day Function/Program, NITK Surathkal, Mangalore, Karnataka, India, September 5, 2024.
- ❖ Prof. G. Ram Mohana Reddy delivered Keynote Talk on "How AI will change the future employment", UG Orientation Program 2004-2028 Batch, NITK Surathkal, Mangalore, Karnataka, India, August 30, 2024.
- ❖ Prof. G. Ram Mohana Reddy delivered Keynote Talk on "How AI is changing education and employment", PG & PhD Orientation Program 2004-25 Academic Year, NITK Surathkal, Mangalore, Karnataka, India, August 16, 2024.
- ❖ Prof. G. Ram Mohana Reddy delivered Conference Talk on "A Meta-Heuristic Approach for Optimizing Neural Network Model for Heart Disease Prediction", 35th IEEE Conf. of Open Innovations Association FRUCT, Apr. 24-26, 2024, Tampere, Finland (Online).
- ❖ Dr. Janani T delivered a Guest lecture on "Food Safety and Labelling process" under Empowering Women in Business with Practical Skills workshop at NIT Trichy on 17/02/2025.
- ❖ Dr. B. R. Purushothama keynote Speaker in the Third International Conference on Information Security, Privacy and Digital Forensics (ICISPD 2024) [Organized by NIT Goa, SVNIT Surat, NFSU Gandhinagar] - Title of the Talk: "Are We Safe in the Digital World?"
- ❖ Dr. B. R. Purushothama, two Invited Talks on "Machine Learning for Cryptanalysis" in Faculty Development Programme held at IIIT Kottayam.
- ❖ Dr. B. R. Purushothama two Invited Talks on "Cybersecurity attacks and measures" in ATAL Online 6 Day Faculty Development Programme held at IIIT Sri City.
- ❖ Dr. B. R. Purushothama invited Talk on "Cryptolocker/Cryptanalysis" in Two Weeks Hands-on Workshop on Ethical Hacking and Cyber Security-Phase-I.
- ❖ Dr. B. R. Purushothama invited Talk on "Wireless Attacks and Countermeasures" In Two Weeks Hands-on Workshop on Ethical Hacking and Cyber Security-Phase-II.

- ❖ Dr. B. R. Purushothama technical Talk on “Guardians of the Grid: Navigating Cyber Attacks and Effective Countermeasures” in the Five Days Faculty Development Programme on Software and System Security at NITK Surathkal.
- ❖ Dr. B. R. Purushothama technical Talk on “Digital Sentinels: Addressing Cyber Attacks and Crafting Effective Responses in the Five Days Faculty Development Programme on Software and System Security at NITK Surathkal.

#### **DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING**

- ❖ Prof. S. Anandhan has been invited to the positions of the Editorial board member (Feb 2025) and Editor (Since March 2025) of the Journal of Research on Engineering Structures & Materials, MIM Research Group, Turkey (*Indexed by Scopus; SCImago SJR: 0.26, Q3*).

#### **SCHOOL OF HUMANITIES, SOCIAL SCIENCES AND MANAGEMENT**

- Prof. Pradyot Ranjan Jena- has attended UBP on "Nurturing Future Leadership Development Program" under the aegis of Malaviya Mission Teacher Training Program (MMTTP) Five-Day Programme which was held at IIM Mumbai from 11th-15th March 2024.



## 10. STUDENTS

### 10.1 Admissions and On Roll

#### 10.1.1 Admission Procedure

##### I. B. Tech.:-

The Government of India, Department of Ministry of Education (erstwhile 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 NTA. 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 on the basis of the performance in JEE (Main), seats will be allotted in the centralized on-line campus counseling through Central Seat Allocation Board (CSAB). The seat allocation done on the basis of 50% Home State Quota (HS) and 50% Other State Quota (OS). These seats are filled on All India ranking Merit Basis (JEE Main). Seats are reserved for candidates belonging to Scheduled Caste, Scheduled Tribes, Persons with Disabilities (PWD,) Other Backward Classes and Economically Weaker Section (EWS) as per the guidelines issued by the Ministry of Education (erstwhile MHRD). Female supernumerary seats are also created by CSAB to accommodate 20% seats for female candidates. 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 and ICCR.

##### 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 SVNIT Surat.

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

Selection of candidates for admission were made on the basis of GATE score or in some of the programmes, selection was based on GATE score and on academic performance in qualifying examination 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 done through a common entrance test NIMCET. Admissions were made through a centralized counseling (NIMCET).

##### M.B.A:-

Selection was based on CAT/MAT /GATE score and performance in the qualifying examination and written aptitude test or/ and interview etc as decided by the DPGC of the School of Humanities, Social Sciences and Management.

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

Selection of candidates for admissions was made on the basis of JAM Score. Admissions were made through a centralized counseling. (CCMN)

##### 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.

### 10.1.2 Admissions for 2024-25

The number of candidates admitted is as follows:

#### I. B.Tech.

				OP	EWS	OBC	SC	ST	PwD
1	Admission through JEE (Main) Rank	934		357	90	240	138	65	20 (OP), 4(EWS) 12 (OBC), 5 (SC), 3 (ST)
2	G.O.I. Nominee- through Ministry of External Affairs (Education & Welfare)	01							
3	DASA Scheme	103							
	<b>Total</b>	<b>1038</b>							

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

##### i) M.Tech Programme

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

				OP	EWS	OBC	SC	ST	PwD
1	With GATE qualifications for scholarship seats	607		245	50	167	102	37	5 (OP), 1 (EWS)
2	Sponsored candidates	03							
		01							
3	L&T Sponsored Candidates	30							
4	ICCR Sponsored	02							
5	Self-Financed	68							
6	BGSW Sponsored	10							
7	QIP	04							
	<b>Total</b>	<b>724</b>							

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

				OP	EWS	OBC	SC	ST	PwD
1	GATE qualified with Scholarship	25		13	3	4	5	0	0
2	Non-Scholarship	18							
	<b>Total</b>	<b>43</b>							

**IV 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 NIT Jamshedpur. A Total 64 candidates admitted were as follows:-

1	OP	22
2	OBC	15
3	EWS	06
4	SC	09
5	ST	04
6	PWD (1 OP, 1 OBC)	02
7	Self-Financed	6
	<b>Total</b>	<b>64</b>

**IV M.B.A.:**

Selection of candidates were made on the basis of CAT/MAT/GATE among candidates applied to NITK, Surathkal, Group Discussion and interview. A total 77 candidates were admitted as follows:-

1	OP	32
2	OBC	22
3	EWS	06
4	SC	04
5	ST	03
6	Self-Financed	10
	<b>Total</b>	<b>77</b>

**V. M.Sc (Chemistry & Physics)**

Selection were made on the basis of score obtained JAM 2024. Admissions were made through CCMN conducted by SVNIT Surat. Following are the admission details:

**i. M.Sc ( Chemistry)**

1	OP	13
2	OBC	09
3	EWS	03
4	SC	04
5	ST	01
6	Self-Financed	05
	<b>Total</b>	<b>35</b>

**ii M.Sc (Physics)**

1	OP	12
2	OBC	09
3	EWS	04
4	SC	05
5	ST	01
6	Self-Financed	03
	<b>Total</b>	<b>34</b>

**VI. Ph.D. Programme:****Fellowship Holders**

1	OP	51
2	OBC	28
3	EWS	08
4	SC	12
5	ST	06
6	PWD	00
	<b>Total</b>	<b>105</b>

**Others**

1	Full Time Sponsored -Non Scholarship	01
2	Full Time Non-Sponsored - Non Scholarship	08
3	QIP	07
4	ICCR	02
5	External Registrants	31
6	Internal Registrants	04
	<b>Total</b>	<b>53</b>

A total number of 1038 of candidates have been admitted to the First Year B.Tech. Programme according to the guidelines, instructions issued by the Ministry of Education (erstwhile 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 2024-25**

<b>B.Tech I Year</b>	<b>SC</b>			<b>ST</b>			<b>OBC</b>			<b>DASA</b>			<b>ICCR</b>			<b>EWS</b>			<b>GENERAL</b>			<b>TOTAL</b>		
	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>
Civil Engg	14	3	17	7	2	9	23	7	30	1	6	7	0	0	0	9	2	11	38	9	47	92	29	121
Mechanical Engg.	21	5	26	9	3	12	38	8	46	19	4	23	0	0	0	12	4	16	56	14	70	155	38	193
Electrical & Electronics Engg.	13	4	17	7	1	8	24	7	31	8	6	14	0	0	0	10	2	12	37	9	46	99	29	128
Electronics & Communication Engg.	13	3	16	7	2	9	25	6	31	12	5	17	0	0	0	10	2	12	36	10	46	103	28	131
Chemical Engg.	7	2	9	3	1	4	12	3	15	3	5	8	0	0	0	5	1	6	16	2	18	46	14	60
Metallurgical & Materials Engg.	7	2	9	3	1	4	12	4	16	0	2	2	0	0	0	5	1	6	16	5	21	43	15	58
Mining Engg.	7	2	9	2	1	3	12	2	14	0	0	0	0	0	0	5	1	6	16	5	21	42	11	53
Computer Engg.	13	3	16	7	2	9	22	8	30	14	2	16	1	0	1	8	2	10	36	9	45	101	26	127
Information Technology	9	2	11	3	1	4	15	5	20	8	0	8	0	0	0	6	2	8	26	5	31	67	15	82
Artificial Intelligence	5	1	6	2	1	3	9	2	11	4	0	4	0	0	0	3	1	4	13	3	16	36	8	44
Computational & Data Science	4	1	5	2	0	2	6	2	8	4	0	4	0	0	0	2	1	3	10	2	12	28	6	34
<b>Total</b>	<b>113</b>	<b>28</b>	<b>141</b>	<b>52</b>	<b>15</b>	<b>67</b>	<b>198</b>	<b>54</b>	<b>252</b>	<b>73</b>	<b>30</b>	<b>103</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>75</b>	<b>19</b>	<b>94</b>	<b>300</b>	<b>73</b>	<b>373</b>	<b>812</b>	<b>219</b>	<b>1031</b>

<b>B.Tech II Year</b>	<b>SC</b>			<b>ST</b>			<b>OBC</b>			<b>DASA</b>			<b>ICCR</b>			<b>EWS</b>			<b>GENERAL</b>			<b>TOTAL</b>		
	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>
Civil Engg	13	3	16	6	3	9	24	7	31	3	2	5	0	0	0	8	2	10	35	9	44	89	26	115
Mechanical Engg.	21	5	26	10	3	13	38	9	47	12	3	15	0	0	0	13	4	17	53	14	67	147	38	185
Electrical & Electronics Engg.	12	2	14	6	3	9	25	6	31	8	6	14	1	0	1	10	2	12	37	10	47	99	29	128
Electronics & Communication Engg.	12	4	16	7	2	9	25	6	31	11	6	17	0	0	0	10	2	12	36	10	46	101	30	131
Chemical Engg.	7	2	9	3	1	4	13	3	16	2	1	3	0	1	1	5	1	6	16	5	21	46	14	60

Metallurgical & Materials Engg.	7	2	9	3	1	4	13	2	15	0	0	0	0	0	0	5	1	6	18	4	22	46	10	56
Mining Engg.	7	2	9	3	1	4	13	3	16	0	0	0	0	0	0	3	1	4	18	4	22	44	11	55
Computer Engg.	13	4	17	7	2	9	23	7	30	10	6	16	1	0	1	9	2	11	38	9	47	101	30	131
Information Technology	9	2	11	4	1	5	15	5	20	6	2	8	0	0	0	6	2	8	24	7	31	64	19	83
Artificial Intelligence	4	2	6	2	1	3	9	2	11	3	1	4	0	0	0	3	1	4	13	3	16	34	10	44
Computational & Data Science	4	1	5	2	0	2	6	2	8	4	1	5	0	0	0	2	1	3	9	2	11	27	8	35
<b>Total</b>	<b>109</b>	<b>29</b>	<b>138</b>	<b>53</b>	<b>18</b>	<b>71</b>	<b>204</b>	<b>52</b>	<b>256</b>	<b>59</b>	<b>28</b>	<b>87</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>74</b>	<b>19</b>	<b>93</b>	<b>297</b>	<b>68</b>	<b>374</b>	<b>798</b>	<b>225</b>	<b>1023</b>

B.Tech III Year	SC			ST			OBC			DASA			ICCR			EWS			GENERAL			TOTAL		
	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To
Civil Engg	15	2	17	7	2	9	23	6	29	0	1	1	0	0	0	8	3	11	33	9	42	86	23	109
Mechanical Engg.	21	4	25	10	3	13	40	8	48	9	0	9	1	0	1	13	4	17	53	16	69	147	35	182
Electrical & Electronics Engg.	15	3	18	7	2	9	25	6	31	6	1	7	2	0	2	11	2	13	35	11	46	101	25	126
Electronics & Communication Engg.	13	3	16	6	3	9	25	6	31	12	5	17	2	0	2	10	2	12	36	11	47	104	30	134
Chemical Engg.	5	1	6	1	1	2	12	1	13	2	1	3	0	0	0	5	1	6	17	5	22	42	10	52
Metallurgical & Materials Engg.	4	3	7	3	1	4	10	3	13	0	0	0	0	0	0	5	1	6	17	5	22	39	13	52
Mining Engg.	6	1	7	3	2	5	8	3	11	0	0	0	0	0	0	4	1	5	14	2	16	35	9	44
Computer Engg.	12	5	17	6	3	9	24	7	31	14	2	16	0	0	0	9	2	11	37	9	46	102	28	130
Information Technology	8	3	11	4	1	5	15	5	20	6	2	8	0	0	0	6	2	8	27	5	32	66	18	84
Artificial Intelligence	5	1	6	2	1	3	9	2	11	3	1	4	0	0	0	3	1	4	13	3	16	36	8	44
<b>Total</b>	<b>104</b>	<b>61</b>	<b>165</b>	<b>42</b>	<b>19</b>	<b>68</b>	<b>191</b>	<b>47</b>	<b>238</b>	<b>52</b>	<b>12</b>	<b>64</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>74</b>	<b>19</b>	<b>93</b>	<b>282</b>	<b>76</b>	<b>358</b>	<b>758</b>	<b>199</b>	<b>957</b>

B.Tech IV Year	SC			ST			OBC			DASA			ICCR			EWS			GENERAL			TOTAL		
	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To
Civil Engg	12	3	<b>15</b>	4	5	<b>9</b>	25	7	<b>32</b>	0	0	<b>0</b>	0	0	<b>0</b>	6	2	<b>8</b>	35	8	43	82	25	107
Mechanical Engg.	21	5	<b>26</b>	9	3	<b>12</b>	36	9	<b>45</b>	9	1	<b>10</b>	0	0	<b>0</b>	13	4	<b>17</b>	57	12	<b>69</b>	145	34	179
Electrical & Elec- tronics Engg.	12	3	15	5	2	<b>7</b>	25	6	31	5	2	<b>7</b>	1	0	<b>1</b>	11	2	<b>14</b>	35	10	45	94	25	<b>119</b>
Electronics & Communication Engg.	13	3	<b>16</b>	5	2	<b>7</b>	25	6	<b>31</b>	15	2	<b>17</b>	0	0	0	9	2	11	37	9	46	104	24	128
Chemical Engg.	7	3	<b>10</b>	2	2	<b>4</b>	13	3	<b>16</b>	2	1	<b>3</b>	0	0	0	5	1	<b>6</b>	17	5	22	46	15	61
Metallurgical & Materials Engg.	5	2	<b>7</b>	2	2	<b>4</b>	9	3	<b>12</b>	0	0	0	0	0	0	5	1	<b>6</b>	15	5	20	36	13	49
Mining Engg.	6	1	<b>7</b>	3	<b>1</b>	<b>4</b>	10	3	<b>13</b>	0	0	0	0	0	0	5	1	6	12	2	<b>14</b>	36	8	44
Computer Science & Engg.	14	3	<b>17</b>	6	3	<b>9</b>	23	7	<b>30</b>	13	3	<b>16</b>	0	0	<b>0</b>	9	2	<b>11</b>	38	9	<b>47</b>	103	27	130
Information Tech- nology	9	2	<b>11</b>	4	1	<b>5</b>	15	5	<b>20</b>	6	2	<b>8</b>	0	0	<b>0</b>	6	2	<b>8</b>	27	5	<b>32</b>	67	17	84
Artificial Intelli- gence	5	1	<b>6</b>	2	1	<b>3</b>	9	2	<b>11</b>	4	0	<b>4</b>	0	0	<b>0</b>	3	1	<b>4</b>	13	3	<b>16</b>	36	8	44
<b>Total</b>	<b>104</b>	<b>26</b>	<b>130</b>	<b>42</b>	<b>22</b>	<b>64</b>	<b>190</b>	<b>51</b>	<b>241</b>	<b>54</b>	<b>11</b>	<b>65</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>72</b>	<b>18</b>	<b>91</b>	<b>286</b>	<b>68</b>	<b>354</b>	<b>749</b>	<b>196</b>	<b>945</b>

## M.Tech. Student Strength for the year 2024-25

M.Tech (I Year)	SC			ST			OBC			QIP			EWS			ICCR			Sponsored /L&T			QIP			GENERAL			Self Finance			TOTAL		
	M	F	To	M	F	To	M	F	To	M	F	To	M	F	T	M	F	T	M	F	To	M	F	T	M	F	To	M	F	To	M	F	To
Structural Engg.	3	1	4	1	1	2	5	3	8	0	0	0	3	0	3	0	0	0	1	0	1	0	0	0	11	2	13	4	1	5	28	8	36
Geotechnical Engg.	0	2	2	0	0	0	1	4	5	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	5	2	7	2	1	3	9	10	19
Environmental Engg.	2	2	4	2	0	2	6	3	9	0	0	0	3	0	3	0	0	0	0	0	0	0	0	0	7	5	12	3	1	4	23	11	34
Transportation Systems Engg.	4	1	5	3	0	3	4	5	9	0	0	0	2	1	3	0	0	0	0	0	0	1	0	1	7	6	13	0	2	2	21	15	36
Construction Technology & Mgt.	5	0	5	2	1	3	6	3	9	1	0	0	2	1	3	0	0	0	17	13	30	0	0	0	10	3	13	0	0	0	43	21	64
Marine Structures	4	1	5	1	1	2	5	4	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	4	14	0	0	0	20	10	30
Water Resources Engg. & Management	1	2	3	0	1	1	1	4	5	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	3	4	7	0	0	0	6	12	18
Geoinformatics	4	0	4	0	0	0	4	1	5	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	6	1	7	0	0	0	15	2	17
Thermal Engg.	2	1	3	1	0	1	4	0	4	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	6	0	6	1	1	2	15	2	17
Mechatronics Engg.	3	0	4	0	1	1	7	2	9	0	0	0	0	1	1	0	0	0	2	0	2	0	0	0	12	2	14	3	0	3	27	6	33
Manufacturing Engg.	3	0	3	1	0	1	4	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	7	2	0	2	17	1	18
Mechanical Design	3	0	3	0	0	0	3	1	4	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	7	0	7	2	1	3	17	2	19
Power & Energy Systems	2	0	2	1	0	1	5	0	5	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	7	0	7	2	0	2	14	0	19



Electrical & Electronics Engg:-	2	0	2	1	0	1	4	0	4	0	0	0	1	0	1	0	0	0	0	0	0	0	0	3	2	5	2	1	3	13	3	16	
Power Electronics & Control for Electric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	4	10	0	0	0	0	0	0	0	6	4	10		
VLSI Design	4	0	4	2	0	2	8	1	9	0	0	0	1	0	1	0	1	1	0	0	0	0	0	10	4	14	4	5	9	29	11	40	
Signal Processing & Machine Learning	3	1	4	2	0	2	8	0	8	0	0	0	2	1	3	0	0	0	0	0	0	0	0	10	0	10	6	1	7	31	3	34	
Communication Engg. & Networks	4	1	5	1	2	3	5	4	9	0	0	0	2	1	3	0	0	0	0	0	0	0	0	9	3	12	3	3	6	24	14	38	
Chemical Engg:-																																	
Environmental Science & Technology	3	1	4	1	0	1	1	2	3	0	0	0	1	1	2	0	0	0	0	0	0	0	0	4	3	7	0	0	0	10	7	17	
Chemical Engg.	1	1	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	0	2	4	2	6	
Industrial Biotechnology	1	4	5	0	0	0	4	5	9	0	0	0	0	1	1	0	0	0	0	0	0	0	0	6	6	12	0	1	1	11	18	29	
Process Metallurgy	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	0	3	
Materials Engg.	3	0	3	0	0	0	2	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	8	1	9	9	
Nanotechnology	2	1	3	0	1	1	4	0	4	0	0	0	1	0	1	0	0	0	0	0	0	0	0	4	1	5	0	0	0	11	3	14	
Computer Science & Engg	4	1	5	2	1	3	6	1	7	0	0	0	3	1	4	0	0	0	0	0	0	0	9	2	11	2	2	4	26	8	34		
Computer Science & Engg. - Information Security	3	1	4	2	0	2	8	1	9	0	0	0	3	0	3	0	0	0	0	0	0	0	0	11	3	14	2	2	4	29	7	36	
Computational & Data Science	3	0	4	2	0	2	7	1	8	0	0	0	2	0	2	0	0	0	0	0	0	1	0	1	12	1	13	1	0	1	27	2	29
Information Technology	4	0	4	3	0	3	8	0	8	0	0	0	3	0	3	0	0	0	0	0	0	0	12	1	13	4	1	5	34	2	36		
TOTAL	76	21	99	28	9	37	120	48	168	1	0	0	38	10	45	1	0	1	26	17	43	1	0	1	189	55	246	45	28	76	514	193	711

M.Tech (II Year)	M.Tech. Student Strength for the year 2024-25																										
	SC			ST			OBC			EWS			Sponsored /L&T			ICCR			GENERAL			Self Fi-nance			TOTAL		
	M	F	To	M	F	To	M	F	To	M	F	T	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To
Structural Engg.	3	2	5	2	0	2	6	3	9	3	0	3	0	0	0	0	1	1	9	4	13	3	3	6	26	13	39
Geotechnical Engg.	3	0	3	0	1	1	5	0	5	2	0	2	0	0	0	0	0	0	4	3	7	2	0	2	16	4	20
Environmental Engg.	1	2	3	1	1	2	1	7	8	1	0	1	0	0	0	0	0	0	10	4	14	0	0	0	14	14	28
Transportation Engg.	2	3	5	3	0	3	8	1	9	3	0	3	0	0	0	0	0	0	9	4	13	2	2	4	27	10	37
Construction Technology & Mgt.	4	0	4	2	0	2	8	1	9	2	0	3	23	5	28	0	0	0	12	3	15	0	0	0	51	8	59
Marine Structures	3	1	4	1	0	1	4	1	5	0	0	0	0	0	0	0	0	0	8	6	11	1	1	1	17	9	26
Water Resources Engg. & Management	3	0	3	1	0	1	2	1	3	0	0	0	0	0	0	0	0	0	4	3	7	0	0	0	10	4	14
Remote Sensing & GIS	2	2	4	2	0	2	1	1	2	0	0	0	0	0	0	0	0	0	7	2	9	0	1	1	12	6	18
Thermal Engg.	3	0	3	1	0	0	5	0	5	1	0	1	0	0	0	0	0	0	6	1	7	0	1	1	16	2	18
Mechatronics Engg.	3	1	4	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	10	4	14	2	1	3	17	6	23
Manufacturing Engg.	3	0	3	0	0	0	3	0	2	1	0	1	0	0	0	0	0	0	7	0	7	1	0	1	15	0	15
Mechanical Design	3	0	3	1	0	1	5	0	5	1	1	2	0	0	0	0	0	0	6	1	7	0	1	1	16	3	19
Power & Energy Systems	3	0	0	0	0	0	3	2	5	2	0	2	0	0	0	0	0	0	13	0	13	3	2	5	24	4	28
Power Electronics & Control for Electric vehicle	0	0	0	0	0	0	0	0	0	3	0	0	17	7	24	0	0	0	0	0	0	0	0	0	17	7	24
Signal Processing & Machine Learning	3	0	3	1	0	1	5	0	5	3	0	3	0	0	0	0	0	0	7	2	9	4	2	6	23	4	27
Communication Engg. & Network	2	3	5	0	0	0	6	2	8	3	0	3	0	0	0	0	0	0	7	5	12	4	2	6	22	12	34
<b>CHEMICAL ENGG:-</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	0	0	0	0	3	3
Environmental Science & Technology	0	0	0	2	0	2	1	1	2	1	0	1	0	0	0	0	0	0	3	2	5	0	0	0	7	3	10
Industrial Biotechnology	2	3	5	1	0	1	4	5	9	0	1	1	0	0	0	0	0	0	4	8	12	0	2	2	11	19	30
Process Metallurgy	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	2	0	2
Materials Engg.	1	0	1	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	4	0	4	0	4

Nanotechnology	1	0	1	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	3	2	5	0	0	0	5	2	7
Computer Science & Engg	4	1	5	2	1	3	7	1	8	3	1	4	0	0	0	0	1	1	11	1	12	3	1	4	30	7	37
Computer Science & Engg. - Information Security	4	0	4	2	0	2	8	1	9	2	1	3	0	0	0	1	0	1	9	5	14	3	1	4	29	8	37
Computational & data sci- ence.	4	0	4	2	0	2	9	0	9	3	0	3	0	0	0	0	0	0	14	0	14	0	2	2	32	2	34
Information Technology	4	1	5	3	0	3	6	2	8	2	1	3	0	0	0	0	0	0	10	1	11	3	0	3	28	5	33
<b>TOTAL</b>	<b>61</b>	<b>19</b>	<b>77</b>	<b>28</b>	<b>3</b>	<b>30</b>	<b>101</b>	<b>29</b>	<b>129</b>	<b>44</b>	<b>10</b>	<b>40</b>	<b>40</b>	<b>12</b>	<b>52</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>175</b>	<b>64</b>	<b>236</b>	<b>31</b>	<b>26</b>	<b>52</b>	599	148	626

MCA Students Strength for the year 2024-25																					
Year	SC			ST			OBC			EWS			GENERAL			Self Finance			TOTAL		
	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To
<b>I YEAR</b>	9	1	<b>10</b>	3	1	<b>4</b>	12	3	<b>15</b>	6	0	<b>6</b>	16	7	<b>23</b>	6	0	<b>6</b>	52	12	<b>64</b>
<b>II Year</b>	7	2	<b>9</b>	3	1	<b>4</b>	14	3	<b>17</b>	3	3	<b>6</b>	19	4	<b>23</b>	4	4	<b>8</b>	50	17	<b>67</b>
<b>III YEAR</b>	7	2	<b>9</b>	3	1	<b>4</b>	15	1	<b>16</b>	6	0	<b>6</b>	18	5	<b>23</b>	8	2	<b>10</b>	57	11	<b>68</b>
<b>TOTAL</b>	<b>23</b>	<b>5</b>	<b>28</b>	<b>9</b>	<b>3</b>	<b>12</b>	<b>41</b>	<b>7</b>	<b>48</b>	<b>15</b>	<b>5</b>	<b>18</b>	<b>53</b>	<b>16</b>	<b>69</b>	<b>18</b>	<b>6</b>	<b>24</b>	<b>159</b>	<b>40</b>	<b>199</b>

M.B.A- 2024-25																					
YEAR	SC			ST			OBC			EWS			GENERAL			Self Finance			TOTAL		
	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To
<b>I YEAR</b>	1	3	<b>4</b>	1	2	<b>3</b>	8	14	<b>22</b>	1	5	<b>6</b>	12	18	<b>30</b>	6	5	<b>11</b>	29	47	<b>76</b>
<b>II YEAR</b>	1	1	<b>2</b>	1	1	<b>2</b>	10	12	<b>22</b>	3	1	<b>4</b>	15	17	<b>32</b>	3	4	<b>7</b>	33	36	<b>69</b>
<b>TOTAL</b>	<b>2</b>	<b>4</b>	<b>6</b>	<b>2</b>	<b>3</b>	<b>5</b>	<b>12</b>	<b>9</b>	<b>21</b>	<b>3</b>	<b>6</b>	<b>10</b>	<b>31</b>	<b>32</b>	<b>62</b>	<b>3</b>	<b>5</b>	<b>8</b>	<b>54</b>	<b>47</b>	<b>145</b>

M.Sc(Chemistry) Students Strength for the year 2024-25																					
YEAR	SC			ST			OBC			EWS			GENERAL			Self Finance			TOTAL		
	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To
<b>I YEAR</b>	1	3	<b>4</b>	0	1	<b>1</b>	2	7	<b>9</b>	2	1	<b>3</b>	6	7	<b>13</b>	0	5	<b>5</b>	11	24	<b>35</b>
<b>II YEAR</b>	2	2	<b>4</b>	0	1	<b>1</b>	5	4	<b>9</b>	1	2	<b>3</b>	7	5	<b>12</b>	0	5	<b>5</b>	15	19	<b>34</b>
<b>TOTAL</b>	<b>3</b>	<b>3</b>	<b>9</b>	<b>3</b>	<b>2</b>	<b>5</b>	<b>13</b>	<b>6</b>	<b>17</b>	<b>3</b>	<b>3</b>	<b>6</b>	<b>15</b>	<b>11</b>	<b>16</b>	<b>1</b>	<b>6</b>	<b>8</b>	<b>26</b>	<b>43</b>	<b>69</b>

M.Sc(Physics) Students Strength for the year 2024-25																					
YEAR	SC			ST			OBC			EWS			GENERAL			Self Finance			TOTAL		
	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To	M	F	To
<b>I YEAR</b>	3	2	<b>5</b>	1	0	<b>1</b>	5	4	<b>9</b>	4	0	<b>4</b>	8	4	<b>12</b>	2	1	<b>3</b>	25	9	<b>34</b>
<b>II YEAR</b>	2	2	<b>4</b>	0	0	<b>0</b>	5	4	<b>9</b>	4	0	<b>4</b>	8	4	<b>12</b>	6	1	<b>7</b>	25	11	<b>36</b>
<b>TOTAL</b>	<b>8</b>	<b>4</b>	<b>9</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>14</b>	<b>3</b>	<b>18</b>	<b>8</b>	<b>0</b>	<b>8</b>	<b>17</b>	<b>4</b>	<b>24</b>	<b>0</b>	<b>7</b>	<b>11</b>	<b>50</b>	<b>20</b>	<b>70</b>

<b>M.Tech Research(2024-25)</b>	<b>SC</b>			<b>ST</b>			<b>OBC</b>			<b>EWS</b>			<b>GENERAL</b>			<b>TOTAL</b>		
	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>	<b>M</b>	<b>F</b>	<b>To</b>
_Marine Structure	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1
Remote Sensing & GIS	0	0	0	0	0	0	1	0	1	0	0	0	0	1	1	1	1	2
Water Resources Engg. & Management	0	0	0	0	0	0	0	0	0	0	0	0	2	2	4	2	2	4
Structural Engg.	0	1	0	0	0	0	0	0	0	0	0	0	1	4	5	1	5	6
Geotechnical Engg.	0	0	0	0	0	0	1	0	1	0	0	0	1	0	1	2	0	2
Environmental Engg.	1	1	2	0	0	0	0	0	0	0	0	0	2	0	2	3	1	4
Construction Tech.and Man- agement	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Transportation Engg.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mechatronics Engg.	0	0	0	0	0	0	1	0	1	0	0	0	5	1	6	6	1	7
Manufacturing Engg.	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2	0	2
Mechanical Design	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1
Thermal Engg.	1	0	1	0	0	0	1	0	1	1	0	1	2	0	2	5	0	5
Power & Energy Systems	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1
VLSI Design	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2	0	2
Communication Engg. and Network	0	0	0	0	0	0	1	0	1	0	0	0	0	1	1	1	1	2
Signal Processing and Ma- chine Learning	1	0	1	0	0	0	1	0	1	0	0	0	0	1	1	2	1	3
Materials Engg.	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2	0	2
Nanotechnology	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Industrial Pollution Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chemical Engg	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1
Industrial Biotechnology	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1
Environmental Science & Technology	1	0	1	0	0	0	0	0	0	0	0	0	2	0	2	3	0	3
Computer Science & Engg	3	0	3	0	0	0	0	2	2	1	0	1	4	1	5	8	3	11
Computer Science & Engg. - Information Security	0	0	0	0	0	0	0	1	1	0	0	0	2	2	4	2	3	5
Rock Excavation Technology & Mgt	3	0	3	0	0	0	3	0	3	0	0	0	6	0	6	12	0	12
Information Technology	0	0	0	0	0	0	0	0	0	1	0	1	3	0	3	4	0	4
Computational and Data Sci- ence	0	0	0	0	0	0	2	0	2	0	0	0	3	2	5	5	2	7
<b>TOTAL</b>	<b>10</b>	<b>2</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>3</b>	<b>14</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>43</b>	<b>16</b>	<b>59</b>	<b>67</b>	<b>21</b>	<b>88</b>

**Ph.D. Students Strength for the year 2024-25**  
**Part Time**

Branch	SC			ST			OBC			EWS			GENERAL			TOTAL		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
Civil	1	0	1	0	0	0	2	4	6	0	0	0	15	9	24	18	13	31
Water Resources and Ocean Engg.	1	0	1	1	0	1	1	1	2	0	0	0	10	8	18	13	9	22
Mechanical	3	1	4	3	1	4	7	0	7	1	0	1	32	3	35	46	5	51
E&E	1	1	2	0	0	0	4	1	5	0	0	0	10	9	19	15	11	26
E&C	2	0	2	0	1	1	2	1	3	0	0	0	8	6	14	12	8	20
Chemical	0	0	0	0	0	0	0	1	1	0	0	0	0	2	2	0	3	3
Metallurgy	0	0	0	0	0	0	1	0	1	0	0	0	7	0	8	0	0	8
Mining	2	0	2	0	0	0	3	2	5	0	0	0	14	1	15	19	3	22
Computer	0	1	1	0	1	1	2	2	4	0	0	0	6	6	12	8	10	18
Information Technology	2	1	3	0	0	0	0	14	4	0	0	0	3	9	12	5	14	19
Physics	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chemistry	2	0	2	0	0	0	3	1	4	0	0	0	3	2	5	8	3	11
MACS	0	0	0	0	0	0	1	0	1	2	0	0	0	3	3	1	3	4
School of Mgt.	0	0	0	0	0	0	0	1	1	0	0	0	11	6	17	11	7	18
<b>Total</b>	<b>14</b>	<b>4</b>	<b>18</b>	<b>4</b>	<b>3</b>	<b>7</b>	<b>26</b>	<b>28</b>	<b>44</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>119</b>	<b>64</b>	<b>184</b>	<b>156</b>	<b>89</b>	<b>253</b>

Ph.D. Students Strength for the year 2024-25																											
Branch	SC			ST			OBC			EWS			QIP			ICCR			Ethiopi-an			GENERAL			TOTAL		
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T
Civil	9	4	13	1	1	2	11	8	20	1	0	1	4	5	9	1	0	1	1	0	1	23	20	43	50	38	88
Water Resources and Ocean Engg.	3	0	3	3	0	3	5	0	5	2	1	3	1	1	2	1	0	1	0	0	0	13	14	27	28	16	44
Mechanical	15	0	15	3	0	3	15	0	15	1	0	1	6	0	6	1	0	1	0	0	0	43	4	47	84	4	88
E&E	5	1	6	4	0	4	10	2	12	2	1	3	6	0	6	0	0	0	0	0	0	15	3	18	42	7	49
E&C	2	1	3	1	1	2	6	3	9	0	0	0	6	3	8	0	0	0	0	0	0	18	10	28	33	18	51
Chemical	3	2	5	0	1	1	1	2	3	0	0	0	1	0	1	0	0	0	0	0	0	3	9	12	8	14	22
Metallurgy	3	0	3	0	0	0	5	0	5	1	0	1	0	0	0	0	0	0	0	0	0	15	1	16	24	1	25
Mining	2	0	2	0	0	0	3	1	4	0	0	0	0	0	0	0	0	0	0	0	0	4	2	6	9	3	12
Computer	0	2	2	0	3	3	3	2	5	0	0	0	5	2	7	0	1	1	0	0	0	8	9	17	16	19	35
Information Tech-nology	1	0	1	1	0	1	1	1	2	1	0	1	0	0	0	0	0	0	0	0	0	6	6	12	10	7	17
Physics	4	1	5	2	1	3	1	1	2	1	0	1	0	0	0	0	0	0	1	0	1	9	9	18	18	12	30
Chemistry	3	1	4	1	0	1	7	7	14	1	2	3	0	0	0	0	0	0	0	0	0	12	15	25	24	25	49
MACS	1	1	2	2	1	3	6	7	13	2	2	4	0	0	0	0	0	0	0	0	0	17	9	26	28	20	48
School of Mgt.	3	1	4	0	0	0	9	5	14	0	1	1	0	0	0	0	0	0	0	0	0	10	13	23	22	20	42
Total	54	14	68	18	8	26	83	39	123	12	7	19	29	11	39	3	0	3	2	0	2	196	124	318	396	204	600



**ADMISSION STATISTICS Undergraduate Programmes – B. Tech.****Particulars of sanctioned intake and admissions made during 2024-25**

Sl. No.	Courses offered	Sanctioned intake				Admissions made to Undergraduate Programmes									
		Normal Intake	ICCR	DASA	Total	Normal Intake							ICCR	DASA	Total Admission
						OC	EWS	OBC	SC	ST	PWD	Total			
1	Artificial Intelligence	40	0	4	44	15	4	10	6	3	1 OPEN, 1OBC	40	0	4	44
2	Chemical Engineering	58	2	9	69	16	6	14	9	4	2 OPEN, 1OBC	52	0	8	60
3	Civil Engineering	115	3	16	134	44	10	29	17	9	3 OPEN, 1 EWS, 1OBC	114	0	7	121
4	Computational and Data Science	30	0	5	35	11	3	8	5	2	1 OPEN	30	0	4	34
5	Computer Science & Engineering	115	2	16	133	44	9	28	16	9	2 OPEN, 1 EWS, 2 OBC, 1 SC	112	1	16	129
6	Electrical & Electronics Engineering	116	4	14	134	45	12	29	16	8	2 OPEN, 2 OBC, 1 SC, 1 ST	116	0	14	130
7	Electronics & Communication Engineering	116	3	17	136	44	11	30	15	8	2 OPEN, 1 EWS, 1 OBC, 1 SC, 1 ST	114	0	17	131
8	Information Technology	76	0	8	84	30	8	19	10	3	2 OPEN, 1 OBC, 1 SC, 1 ST	75	0	8	83
9	Mechanical Engineering	174	3	24	201	66	15	44	26	12	4 OPEN, 1 EWS, 2 OBC, 1 SC	171	0	23	194
10	Metallurgical & Materials Engineering	59	0	2	61	20	6	15	9	4	1 OPEN, 1 OBC	56	0	2	58
11	Mining Engineering	59	0	1	60	22	6	14	9	3	-	54	0	0	54
<b>Total</b>		<b>958</b>	<b>17</b>	<b>116</b>	<b>1091</b>	<b>357</b>	<b>90</b>	<b>240</b>	<b>138</b>	<b>65</b>	<b>20 OPEN, 4 EWS, 12 OBC, 5 SC, 3 ST</b>	<b>934</b>	<b>1</b>	<b>103</b>	<b>1038</b>

**ADMISSION STATISTICS – B.TECH 2024-25**  
**Details of Male & Female admissions – course wise and category wise**

Sl. No.	Programme	OC		EWS		OBC		SC		ST		ICCR		DASA		Total Admission		
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Total
1	Artificial Intelligence	12 + 1PH	3	3	1	8 + 1PH	2	5	1	2	1	0	0	4	0	36	8	44
2	Chemical Engineering	15 + 1PH	1 + 1PH	5	1	11 + 1PH	3	7	2	3	1	0	0	3	5	46	14	60
3	Civil Engineering	35 + 3PH	9	8 + 1PH	2	22 + 1PH	7	14	3	7	2	0	0	1	6	92	29	121
4	Computational and Data Science	9+ 1PH	2	2	1	6	2	4	1	2	0	0	0	4	0	28	6	34
5	Computer Science & Engineering	36 + 1PH	8 + 1PH	7 + 1PH	2	21 + 1PH	7 + 1PH	13 + 1PH	3	7	2	1	0	14	2	103	26	129
6	Electrical & Electronics Engineering	36 + 1PH	9 + 1PH	10	2	22 + 2PH	7	13	3+ 1PH	6 + 1PH	2	0	0	8	6	99	31	130
7	Electronics & Communication Engineering	36	8 + 2PH	9 + 1PH	2	24 + 1PH	6	12 + 1PH	3	6 + 1PH	2	0	0	12	5	103	28	131
8	Information Technology	25 + 2PH	5	6	2	15	4 + 1PH	8 + 1PH	2	2 + 1PH	1	0	0	8	0	68	15	83
9	Mechanical Engineering	53 + 3PH	13 + 1PH	11 + 1PH	4	36 + 2PH	8	21 + 1PH	5	9	3	0	0	19	4	156	38	194
10	Metallurgical & Materials Engineering	15 + 1PH	5	5	1	11 + 1PH	4	7	2	3	1	0	0	0	2	43	15	58
11	Mining Engineering	17	5	5	1	12	2	7	2	2	1	0	0	0	0	43	11	54
	<b>Total</b>	<b>289 + 14PH</b>	<b>68 + 6PH</b>	<b>71 + 4PH</b>	<b>19</b>	<b>188 + 10PH</b>	<b>52 + 2PH</b>	<b>111+ 4PH</b>	<b>27+ 1PH</b>	<b>49+ 3PH</b>	<b>16</b>	<b>1</b>	<b>0</b>	<b>73</b>	<b>30</b>	<b>817</b>	<b>221</b>	<b>1038</b>

*PH= Persons with Disabilities*

**M. Tech. Programme - Particulars of Intake during 2024-25**

Sl. No.	Name of the Programmes	Normal Intake (through GATE)	Sponsored /L&T	DASA	ICCR	Self-Financed Scheme	Total
1	Structural Engg.	33	1	0	1	5	40
2	Geotechnical Engg.	18	1	1	1	5	26
3	Environmental Engg.	33	1	0	1	5	40
4	Transportation Engg.	33	1	0	1	5	40
5	Construction Technology & Management	33	1 + 30 L&T	0	1	0	65
6	Marine Structures	33	1	1	1	5	41
7	Water Resources Engineering & Mgt.	18	1	0	1	5	25
8	Geoinformatics	33	1	1	1	5	41
9	Mechanical Design	18	1	0	1	10	30
10	Manufacturing Engg.	18	1	0	1	10	30
11	Mechatronics Engg.	33	1	0	1	5	40
12	Thermal Engineering	18	1	1	1	10	31
13	Power & Energy Systems	18	1	0	1	10	30
14	Power Electronics and Control	15	1	0	1	10	27
15	VLSI Design	33	1	1	1	8	44
16	Communication Engineering and Networks	33	1	1	1	8	44
17	Signal Processing and machine learning	29	1	1	1	8	40
18	Chemical Engineering	18	1	0	1	5	25
19	Environmental Science and Technology	33	1	0	1	5	40
20	Industrial Biotechnology	33	1	0	1	5	40
21	Materials Engg.	33	1	0	1	5	40
22	Materials Process Technology	18	1	1	1	5	26
23	Nanotechnology	18	1	0	1	5	25
24	Computer Science & Engg.	33	1	1	1	5	41
25	Computer Science & Engg. – Information Se- curity	33	1	0	1	5	40
26	Information Technology	33	1	0	1	5	40
27	Computational and Data Science	33	1	0	1	5	40
	<b>Total</b>	<b>734 (CCMT)</b>	<b>27 + 30 L&amp;T</b>	<b>9</b>	<b>27</b>	<b>164</b>	<b>991</b>

**M. Tech. Programme - Particulars of Admissions during 2024-25**

Sl. No.	Name of the Programmes	Admitted					Out of the total admissions-No. of candidates admitted under category																	
		GATE (Scholarship seats)	Other	Total			SC			ST			OBC			EWS			OC			PWD		
				M	F	TO	M	F	TO	M	F	TO	M	F	TO	M	F	TO	M	F	TO	M	F	TO
1	Structural Engg.	31	5 SF 1 FT- SPON- NSCH	29	8	37	4	1	5	1	1	2	5	3	8	3	0	3	10+ 4 SF+ 1 FT- SPON- NSCH	2+ 1 SF	18	1 (OC)	0	1
2	Geotechnical Engg.	16	3 SF	9	10	19	0	2	2	0	0	0	1	4	5	1	1	2	5+2 SF	1+1SF	9	0	1 (OC)	1
3	Environmental Engg.	31	4 SF	24	11	35	2	2	4	2	0	2	6	3	9	3	0	3	8 + 3SF	5+1SF	17	-	-	-
4	Transportation Engg.	33	2 SF 2 QIP	21	16	37	4	1	5	3	0	3	4	5	9	2	1	3	7+ 1QIP	6+2SF+ 1QIP	17	-	-	-
5	Construction Technology & Management	33	30 L&T 1QIP	43	21	64	5	0	5	2	1	3	6	3	9	2	1	3	10+17 L&T SPON+1Q IP	3+ 13L&T SPON	44	-	-	-
6	Marine Structures	30	-	20	10	30	4	1	5	1	1	2	5	4	9	0	0	0	10	4	14	-	-	-

Sl. No.	Name of the Programmes	Admitted					Out of the total admissions-No. of candidates admitted under category																	
		GATE (Scholarship seats)	Other	Total			SC			ST			OBC			EWS			OC			PWD		
				M	F	TO	M	F	TO	M	F	TO	M	F	TO	M	F	TO	M	F	TO	M	F	TO
7	Water Resources Engineering & Management	18	-	6	12	18	1	2	3	0	1	1	1	4	5	1	1	2	3	4	7	-	-	-
8	Geoinformatics	17	-	15	2	17	4	0	4	0	0	0	3	1	4	2	0	2	6	1	7	-	-	-
9	Mechanical Design	16	3 SF	17	2	19	3	0	3	0	0	0	3	1	4	2	0	2	7+2SF	1SF	10	-	-	-
10	Manufacturing Engg.	16	2 SF	17	1	18	3	0	3	1	0	1	4	1	5	0	0	0	7+2SF	0	9	-	-	-
11	Mechatronics Engg.	29	3 SF 2 FT- SPON- NSCH	27	7	34	3	1	4	0	1	1	7	2	9	0	1	1	12 + 3 SF+ 2 SPON- NSCH	2	19	-	-	-
12	Thermal Engineering	15	2 SF	15	2	17	2	1	3	1	0	1	4	0	4	1	0	1	6+1SF	1SF	8	-	-	-
13	Power Electronics and Control for Electric Vehicle	-	10 BGSW Sponsored	6	4	10	-	-	-	-	-	-	-	-	-	-	-	-	6 BGSW Sponsored	4 BGSW Sponsored	10	-	-	-
14	Power & Energy Systems	17	2 SF	19	0	19	2	0	2	1	0	1	5	0	5	2	0	2	7+ 2 SF	0	9	-	-	-
15	Power Electronics and Control	15	3 SF	14	4	18	2	0	2	1	0	1	4	0	4	2	0	2	3+2SF	3+1SF	9	-	-	-

Sl. No.	Name of the Programmes	Admitted					Out of the total admissions-No. of candidates admitted under category																	
		GATE (Scholarship seats)	Other	Total			SC			ST			OBC			EWS			OC			PWD		
				M	F	TO	M	F	TO	M	F	TO	M	F	TO	M	F	TO	M	F	TO	M	F	TO
16	VLSI Design	33	9 SF 1 ICCR	32	11	43	5	0	5	2	0	2	8	1	9	2	0	2	9+ 4SF	4+ 5SF+ 1ICCR	23	1 (OC) 1 (EWS)	0	2
17	Communication Engineering and Networks	32	6 SF	24	14	38	4	1	5	1	2	3	5	4	9	2	1	3	9+3 SF	3+3SF	18	-	-	-
18	Signal Processing and machine learning	27	7 SF	31	3	34	3	1	4	2	0	2	8	0	8	2	1	3	10+6SF	1SF	17	-	-	-
19	Chemical Engineering	4	2 SF	4	2	6	1	1	2	0	0	0	0	1	1	0	0	0	1+2 SF	0	3	-	-	-
20	Environmental Science and Technology	17	-	10	7	17	3	1	4	1	0	1	1	2	3	1	1	2	4	3	7	-	-	-
21	Industrial Bio-technology	27	1SF 1 ICCR	11	18	29	1	4	5	0	0	0	4	5	9	0	1	1	6	6+1 SF+ 1 ICCR	14	-	-	-
22	Materials Engg.	9	-	8	1	9	4	0	4	0	0	0	2	1	3	0	0	0	2	0	2	-	-	-
23	Materials Process Technology	4	-	4	0	4	3	0	3	0	0	0	0	0	0	0	0	0	1	0	1	-	-	-
24	Nanotechnology	14	1 QIP	12	3	15	2	1	3	0	1	1	4	0	4	1	0	1	4+1QIP	1	6	-	-	-
25	Computer Science & Engg.	31	4 SF	27	8	35	4	1	5	2	1	3	6	1	7	3	1	4	9 +2SF	2+2SF	14	1 (OC)	0	1
26	Computer Science & Engg. – Information Security	32	4 SF	29	7	36	3	1	4	2	0	2	8	1	9	3	0	3	11+2SF	3 +2SF	18	-	-	-

Sl. No.	Name of the Programmes	Admitted					Out of the total admissions-No. of candidates admitted under category																	
		GATE (Scholarship seats)	Other	Total			SC			ST			OBC			EWS			OC			PWD		
				M	F	TO	M	F	TO	M	F	TO	M	F	TO	M	F	TO	M	F	TO	M	F	TO
27	Information Technology	31	5 SF	34	2	36	4	0	4	3	0	3	8	0	8	3	0	3	11+4SF	1+1SF	17	1 (OC)	0	1
28	Computational and Data Science	29	1 SF	28	2	30	4	0	4	2	0	2	7	1	8	2	0	2	12+1SF	1	14	-	-	-
	<b>Total</b>	<b>607</b>	<b>68 SF</b> <b>30 L&amp;T</b> <b>2 ICCR</b> <b>10 BGSW Spon-sored</b> <b>3 FT-SPON-NSCH</b> <b>4 QIP</b>	<b>536</b>	<b>188</b>	<b>724</b>	<b>80</b>	<b>22</b>	<b>102</b>	<b>28</b>	<b>9</b>	<b>37</b>	<b>119</b>	<b>48</b>	<b>167</b>	<b>40</b>	<b>10</b>	<b>50</b>	<b>190</b> <b>45 SF</b> <b>17 L&amp;T</b> <b>6 BGSW Spon-sored -</b> <b>3FT-SPON-NSCH</b> <b>3 QIP</b>	<b>55</b> <b>23 SF</b> <b>13 L&amp;T</b> <b>4 BGSW Spon-sored</b> <b>2 ICCR</b> <b>-</b> <b>1 QIP</b>	<b>245</b> <b>68 SF</b> <b>30 L&amp;T</b> <b>10 BGSW Spon-sored</b> <b>2 ICCR</b> <b>2 ICCR</b> <b>3 FT-SPOT - NSCH</b> <b>4 QIP</b>	<b>4 (OC)</b> <b>1 (EWS)</b>	<b>1 (OC)</b>	<b>6</b>

SF – Self Financed

**M.TECH. PROGRAMME (BY RESEARCH) 2024-25**

OC	OC PwD	EWS	EWS PwD	OBC	OBC PwD	SC	SC PwD	ST	ST PwD	Total
25	1	6	0	16	1	9	0	5	0	63

Sl. No.	Name of the Programme	No. of candidates admitted		Total number of candidates admitted		
		Gate Scholarship Seat	Non-Scholarship Seat	M	F	Total Admission
DEPARTMENT OF CHEMICAL ENGINEERING						
1	Chemical Engineering	-	1 ER (OC)	1	0	1
DEPARTMENT OF CIVIL ENGINEERING						
1	Environmental Engineering	1 SC	1 IR (OC)	1	1	2
2	Geotechnical Engineering	-	1 IR (OBC)	1	0	1
3	Structural Engineering	1 SC		0	1	1
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING						
1	Communication Engineering and Networks		1 IR (OC)	0	1	1
2	Signal Processing and machine learning	1 OC, 1 OBC	-	2	0	2
3	VLSI Design	1 OC, 2 EWS, 1SC,	-	4	0	4
DEPARTMENT OF MECHANICAL ENGINEERING						
1	Mechanical Design	1 OBC, 1 SC	1 IR (OC)	3	0	3
2	Mechatronics Engineering	-	1 IR (OBC)	1	0	1
3	Manufacturing Engineering	-	1 IR (OC)	1	0	1
4	Thermal Engineering	1 OC, 1 OBC	1 ER(OC)	3	0	3
DEPARTMENT OF MINING ENGINEERING						
1	Rock Excavation Technology and Management	-	4 ER (2 OC, 2 SC) 1 IR (OBC)	5	0	5
DEPARTMENT OF WATER RESOURCES AND OCEAN ENGG.						
1	Marine Structures	1 OC	-	1	0	1
DEPARTMENT OF INFORMATION TECHNOLOGY						
1	Information Technology	1 OC, 1 EWS	1 IR (OC)	3	0	3
<u>COMPUTER SCIENCE &amp; ENGINEERING</u>						
1	Computer Science and Engineering	2 OC, 1 OBC, 1SC,	1 IR (OBC)	3	2	5
2	Computer Science and Engineering - Information Security	2 OC	-	0	2	2
DEPARTMENT OF MACS						
1	Computational and Data Science	4 OC	3 ER (1 OC, 2 OBC)	6	1	7
	Total	13 OC 3 EWS 4 OBC 5 SC Total - 25	5 IR (OC) 4 IR (OBC) 5 ER (OC) 2 ER (OBC) 2 ER (SC) Total - 18	35	8	43



**M.C.A., M.B.A. AND M.Sc. PROGRAMMES****Particulars of Admissions during 2024-25**

Sl. No.	Programme	Intake	Total Admission			SC		ST		OBC		OC		EWS		PwD		Self - Financed	
			M	F	Total	M	F	M	F	M	F	M	F	M	F	M	F	M	F
1	Master of Computer Applications (MCA)	58+ 1**+10***	52	12	64	8	1	3	1	13	2	15	7	6	0	1 (OC)	1(OBC)	6	0
2	Master of Business Administration (MBA)	80+5*+1**+ 10***	30	47	77	1	3	1	2	8	14	13	19	1	5	0	0	6	4
3	M.Sc. (Chemistry)	33+ 1**+5***	11	24	35	1	3	0	1	2	7	6	7	2	1	0	0	0	5
4	M.Sc. (Physics)	33+ 1**+7***	25	9	34	3	2	1	0	5	4	11	1	3	1	0	0	2	1
	Total	204+ 5*+ 4** +32***= 245	118	92	210	13	9	5	4	28	27	45	34	12	7	1 (OC)	1 (OBC)	14	10

\* Seats reserved for DASA candidates

\*\* Additional seats for the international students under ICCR Scheme

\*\*\* Self-Financed Scheme

PwD – Persons with Disabilities

**Ph.D. PROGRAMME****Particulars of Intake & Admissions made during 2024-25  
Intake for the year 2024-25**

OC	OC PWD	EWS	EWS PWD	OBC	OBC PWD	SC	SC PWD	ST	ST PWD	Total
72	4	18	1	48	2	27	1	14	1	188

**Details of Admissions made during 2024-25**

Sl No.	Name of the Department	Admitted Full time Programme				Admitted Under External Registrants (Part Time)		Out of the total Full time scholars, Number of Candidates belonging to the category of									
		Fellowship Holder		Other category-Non Fellowship+ QIP+ Sponsored + Ethiopian				OC		EWS		OBC		SC		ST	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
1	Civil Engg.	6	10	1 QIP (R) (OC)	1 QIP (R) (OC)	2 ER (OC) 1 IR (SC)	1 ER (OC) 1 IR (OBC)	3	3	0	0	2	5	1	2	0	0
2	Water Resources and Ocean Engg.	1	2	-	-	1 ER (OBC)	-	1	2	0	0	0	0	0	0	0	0
3	Mechanical Engg.	11	1	1 ICCR	-	6 ER (OC)	-	4	1	0	0	6	0	0	0	1	0
4	Electrical & Electronics Engg.	4	2	-	-	1ER (OC) 1ER (SC)	2 ER (OC) 1 ER (OBC)	0	2	1	0	1	0	1	0	1	0

SI No.	Name of the De- partment	Admitted Full time Programme				Admitted Under External Regis- trants (Part Time)		Out of the total Full time scholars, Number of Candidates belonging to the category of									
		Fellowship Holder		Other category-Non Fellowship+ QIP+ Sponsored + Ethiopian				OC		EWS		OBC		SC		ST	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
5	Electronics & Communication Engg.	5	2	1 QIP (R) (OC)	1 QIP (R) (OBC)  1 FT-SPON- NSCH (OC)	-	1 ER (SC)	4	1	0	0	0	1	1	0	0	0
6	Chemical Engg	3	6	-	-	-	-	1	4	0	0	0	2	2	0	0	0
7	Metallurgical & Materials Engg	5	1	-	1 FT-NSPON- NSCH (OC)	1 ER (OC)  1 ER (ST)	-	3	0	0	1	1	0	1	0	0	0
8	Mining Engg	2	2	-	-	2 ER (OC)	-	0	1	1	0	0	1	1	0	0	0
9	Computer Science & Engg	1	4	1 QIP (R) (ST)	1 QIP (R) (OC) 1 QIP (R) (ST) 1 ICCR	2 ER (OC) 1 ER (OBC) 1 IR (OC)	-	1	2	0	0	0	1	0	0	0	1
10	Information Tech- nology	4	4	-	-	1 ER (OC)	1 ER (OC) 1 ER (OBC) 1 ER (SC)	1	1	0	0	1	2	1	1	1	0
11	Physics	4	0	1 FT-NSPON- NSCH (OBC)	-	-	-	2	0	0	0	1	0	1	0	0	0

SI No.	Name of the Department	Admitted Full time Programme				Admitted Under External Registrants (Part Time)		Out of the total Full time scholars, Number of Candidates belonging to the category of									
		Fellowship Holder		Other category-Non Fellowship+ QIP+ Sponsored + Ethiopian				OC		EWS		OBC		SC		ST	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
12	Chemistry	2	6	-	4 FT- NSPON- NSCH (OC)	1 IR (OBC)	-	1	3	1	2	0	1	0	0	0	0
13	Mathematical & Computational Sciences	4	5	-	-	1 ER (OC)	-	3	1	0	1	1	2	0	0	0	1
14	School of Humanities, Social Sciences and Management	4	4	1 FT-NSPON- NSCH (SC)	1 FT-NSPON- NSCH (OC)	1 ER (OC)	1 ER (OC) 1ER (OBC)	4	2	0	1	0	0	0	0	0	1
		56	49	3 QIP 1 ICCR 2 FT-NSPON- NSCH	4 QIP 1 ICCR 6 NSPON- NSCH 1 SPON-NSCH	3 IR 21 ER	1 IR 10 ER	28	23	3	5	13	15	9	3	3	3

Spon= Sponsored. QIP = Admitted Under AICTE QIP Scheme, PwD – Persons with Disabilities

### Total Student Strength

<u>Program</u>	<u>Strength</u>
1. Undergraduate	3956
2. Post Graduate (Including MCA /M.Tech./M.Tech (Research)/MBA/M.Sc.)	1908
3. Ph.D. Programme	<u>853</u>
<b>Total</b>	<b><u>6717</u></b>

## 10.3 SC/ST Students

All SC/ST, PWD candidates are eligible for exemption of Tuition Fees for B.Tech./M.Tech. students as per the order of M.H.R.D., GOI, New Delhi.

### 10.3.1 SC/ST Cell

#### Introduction

The SC-ST Cell was established in 2006 by an act of Parliament, Government of India. The primary responsibilities of the SC-ST Cell include monitoring the implementation of the reservation roster, addressing grievances of SC/ST students and employees, coordinating scholarship schemes for SC/ST students, organizing special coaching classes for first-year B.Tech SC/ST students, and conducting training programs for SC/ST students and employees. In addition to these responsibilities, the SC/ST Cell has initiated new programs aimed at improving academic standards and communication skills to enhance placement opportunities.

#### Key Activities for the Financial Year 2024-25

##### 1. Coordination of Central Sector Scholarship Schemes

###### SC Students:

In 2023-24, the Ministry of Social Justice and Empowerment, Government of India, awarded the Top Class Education Scheme (TCES) scholarship to eligible B.Tech SC students. Scholarships were awarded to:

- **50 students** from the fourth year
- **10 students** each from the second and third years
- **13 students** from the first year
- Eligibility: Family income below INR 8 Lakhs

###### ST Students:

In 2024-25, the Ministry of Tribal Affairs, Government of India, awarded the National Fellowship and Scholarship for Higher Education of ST Students (NFSHES) to eligible B.Tech ST students. Scholarships were awarded to **144 ST students** across all four years of B.Tech, with eligibility set for family incomes below INR 6 Lakhs.

#### Financial Assistance

To support SC/ST students pursuing quality education in Engineering, financial assistance was provided under the following scheme:

- **Eligibility:** SC/ST UG/PG students who do not receive other scholarships and have a family income below INR 4.5 Lakhs per annum.
- **Benefits:**
  - Book allowance: INR 6,000 per year (Except M.Tech and Ph.D. students)
  - Hostel fee waiver (Except MCA, MBA, M.Sc. and Ph.D. students)
  - One-time laptop purchase assistance: Up to INR 45,000 per student
  - Academic Performance Incentives:
    - INR 12,000 for CGPA > 6.5 in the previous year
    - INR 18,000 for CGPA > 8.0 in the previous year

### 3. Special Events and Programs

#### Jan Jatiya Gaurav Divas (15th - 26th November 2024)

Venue: NITK & Maharshi Valmiki Adivasi Budakattu Vasati Shale, Madhya, Surathkal

- Participants: **150+ Students**
- **Key Celebrations:**
  - Seminar: "Why Do We Celebrate Jan Jatiya Diwas?"
  - Essay Writing Competition: "The Significance of JJD in India"
  - Painting Competition: "Living in Harmony with Nature"
  - Games and Cultural Program
  - Stage Function

#### Ambedkar Jayanthi Celebration (14th April 2024)

Venue: LHC-C, NITK

- **Chief Guest:** Dr. Preethi Lolaksha Nagaveni, Lecturer in Law (Lincoln Law School), University of Lincoln, UK
- **Key Celebrations:**
  - Felicitations of faculty, staff, and student achievers
  - Welcoming new faculty members
  - Competitions for faculty, staff, and students:
    - Essay Writing
    - Ministry of Tribal Drawing

### 4. Training and Development Programs

#### Pre-Placement Training Program (30th August - 1st September 2024)

- **Trainer:** 10seconds, Bangalore
- **Participants:** 500+ out of 1219 students
- **Event Structure:** 3 Sessions/Day, 6 Batches, 3 Days

#### Skill Development Program (30th October - 3rd November 2024)

- **Trainer:** EduFlourish, Mangalore
- **Participants:** 105 students
- **Event Structure:** 4 Sessions/Day, 5 Days

#### Memorandum of Understanding (MoU) Signed

- **Organization:** IFCI VCF Ltd.
- **Objective:** Providing a supportive ecosystem for SC/ST entrepreneurs

#### Conclusion

The SC-ST Cell at NITK, Surathkal, remains committed to the empowerment and academic excellence of SC/ST students through various initiatives, including scholarships, financial assistance, special events, and training programs. The efforts undertaken during the financial year 2024-25 have significantly contributed to the holistic development of SC/ST students, ensuring better academic and career prospects.

## 10.4 Scholarships and Fellowships

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 the +2 exam and the same will be continued based on their performance in II, III & IV B. Tech Examinations. In addition, based on performances during the semester examination scholarships have been awarded to the students of II, III and IV year B.Tech. Several other scholarships awarded by Central and State Govts., Endowments, Institution of Engineers, etc., are enjoyed by the students. SC/ST students are paid post-matric scholarships and facilities of Fee Concessions.

The postgraduate students who have qualified with GATE are paid a sum of Rs.12,400/- as a monthly PG stipend. 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 the institute scholarship @ Rs.37,000/-p.m for I and II years and Rs. 42,000/- per month

for the III, IV and V years. Ph.D. QIP(R) students are paid a Fellowship of Rs.15,000/- per month and a contingent grant of Rs.15,000/- per year.

#### **10.4.1 OBC Cell**

Important activities undertaken by the OBC cell for the financial year 2024-25 are given below.

##### Coordination of PM YASASVI Central Sector Scholarship Schemes:

The OBC Cell at NITK, Surathkal facilitated the implementation of the PM YASASVI Central Sector Scheme for the academic year 2024-25. This scholarship, offered by the Ministry of Social Justice and Empowerment, Government of India, aims to support meritorious students from OBC, EBC, and DNT categories pursuing higher education.

- The scheme provides financial assistance for B.Tech. students based on their JEE (Main) ranking and family income eligibility.
- A total of 156 applications were processed through the OBC Cell, NITK, Surathkal for the PM YASASVI Scholarship in the academic year 2024-25.

The OBC Cell ensured a smooth coordination process, assisting students with application procedures, eligibility verification, and timely submission to maximize scholarship opportunities.

### **10.5 Evaluation and Examination**

#### **10.5.1 Education System**

The normal duration of programs leading to a 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 the Master of Science program, 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 a 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.

#### **10.5.2 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 are submitted to the Examination/Evaluation Section for processing their Grade Cards as per the regulations of the Institute. The results are declared and published on the website of the Institute in time and Grade Cards were issued to all eligible students.

## 10.6 Examination Results for 2024

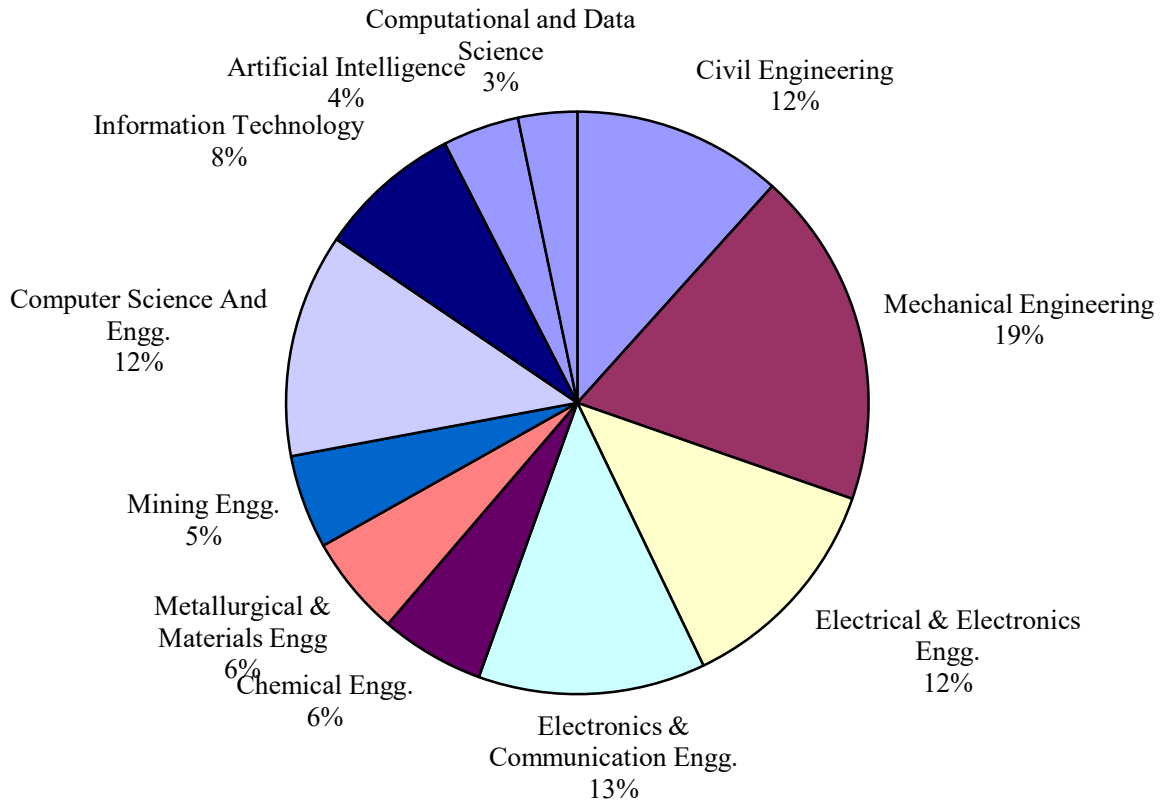
### 10.6.1 Undergraduate

Sl.No.	Branch	Total No. Appeared	No. of students passed in				Total Pass	Percentage of passes	No. of SC/ST candidates passed
			CGPA above 7 & below 10	CGPA above 6 & below 7	CGPA above 5 & below 6	CGPA below 5			
1	Civil Engineering	121+1*	90	26	3+1*	0	120	98%	23+1*
2	Mechanical Engineering	192+1*	144	36	6+1*	0	187	97%	37
3	Electrical And Electronics Engineering	133	113	14	6	0	133	100%	27
4	Electronics And Communication Engineering	136	112	17	4	0	133	98%	25
5	Chemical Engineering	61+1*	45	12+1*	4	0	62	100%	11+1*
6	Metallurgical And Materials Engineering	52	39	11	2	0	52	100%	10
7	Mining Engineering	46	38	6	0	0	44	96%	11
8	Computer Science and Engineering	132+4*	110	18	3+3*	1*	135	99%	24+2*
9	Information Technology	137+4*	107	22	4+3*	0	136	96%	28+3*
		1010+11*					1002	98%	
	*- Repeaters								

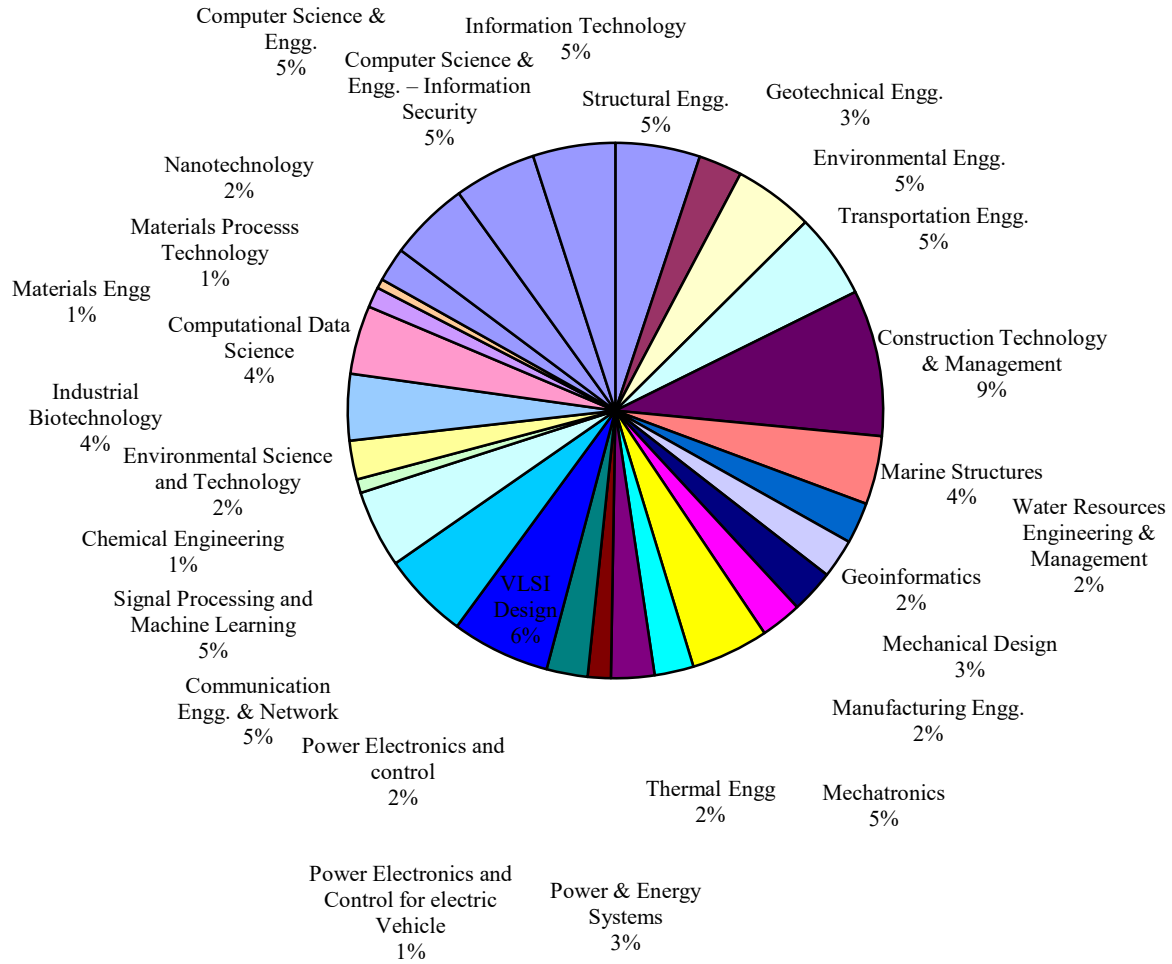


## 10.6.2 Postgraduate

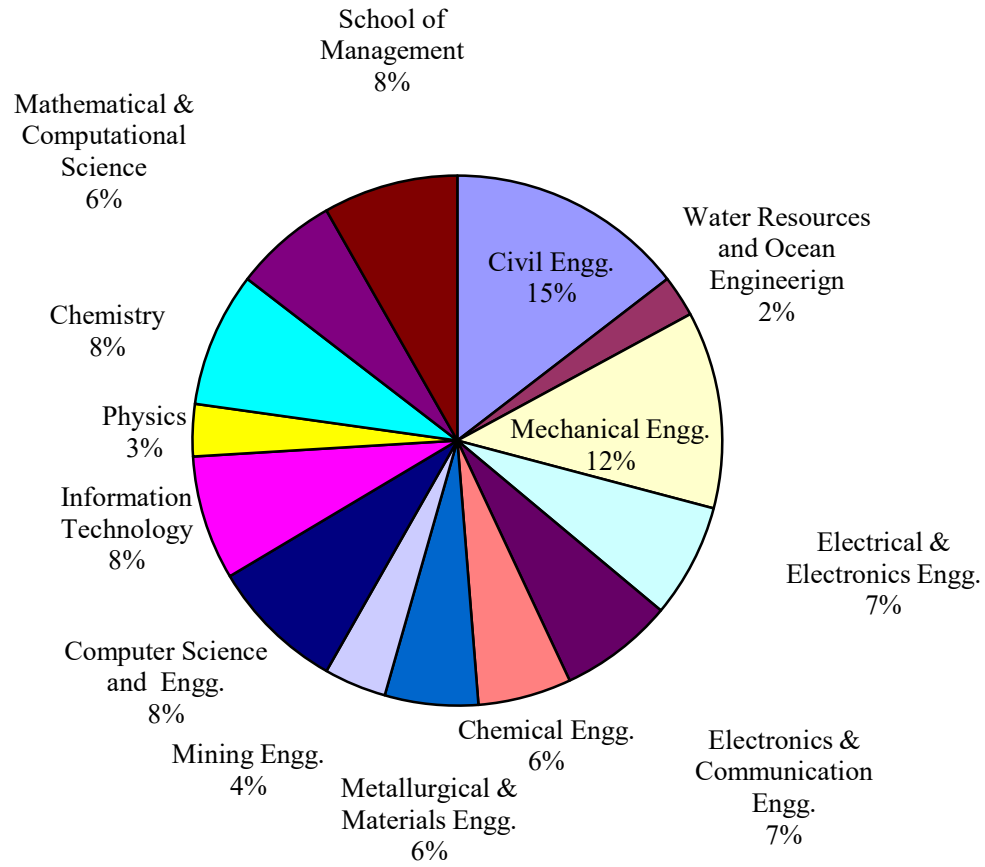
Sl.No.	Branch	Total No. Appeared	No. of students passed in			Total Pass	Percentage of passes	No. of SC/ST candidates passed
			CGPA above 7 & below 10	CGPA above 6 & below 7	CGPA above 5.50 & below 6			
1	Construction Technology & Management	58	57	1	0	58	100%	8
2	Structural Engineering	36	34	2	0	36	100%	8
3	Geotechnical Engineering	21	21	0	0	21	100%	4
4	Environmental Engineering	34	32	2	0	34	100%	7
5	Transportation Engineering	35	32	3	0	35	100%	7
6	Marine Structures	24	23	1	0	24	100%	5
7	Geoinformatics	23	23	0	0	23	100%	3
8	Water Resources Engineering & Management	20+1*	19	1	0	20	95%	3
9	Mechanical Design	21	21	0	0	21	100%	3
10	Manufacturing Engineering	21	21	0	0	21	100%	1
11	Mechatronics Engineering	34	29	3	1	33	97%	5
12	Thermal Engineering	19	19	0	0	19	100%	2
13	Power & Energy Systems	34	29	4	1	34	100%	6
14	Power Electronics And Control For Electric Vehicle	21	20	1	0	21	100%	0
15	VLSI Design	27	26	1	0	27	100%	5
16	Communication Engineering and Networks	37+1*	35+1*	2	0	38	100%	5
17	Signal Processing and Machine Learning	31	24	7	0	31	100%	4
18	Chemical Engineering	14	8	6	0	14	100%	2
19	Industrial Biotechnology	28	22	6	0	28	100%	4
20	Environmental Science and Technology	23	20	2	1	23	100%	1
21	Process Metallurgy	8	6	1	1	8	100%	0
22	Materials Engineering	19	18	1	0	19	100%	2
23	Nanotechnology	8	6	1	1	8	100%	2
24	Computational Data Science	27	24	2	0	26	96%	5
25	Computer Science and Engineering	34	32	2	0	34	100%	7
26	Computer Science and Engineering - Information Security	36	34	1	1	36	100%	7
27	Information Technology	31	29	2	0	31	100%	7
28	Master of Computer Applications	62	58	3	1	62	100%	13
29	Master of Business Administration	54	42	11	1	54	100%	0
30	Master of Science (Chemistry)	34	30	4	0	34	100%	7
31	Master of Science (Physics)	29	20	6	3	29	100%	4



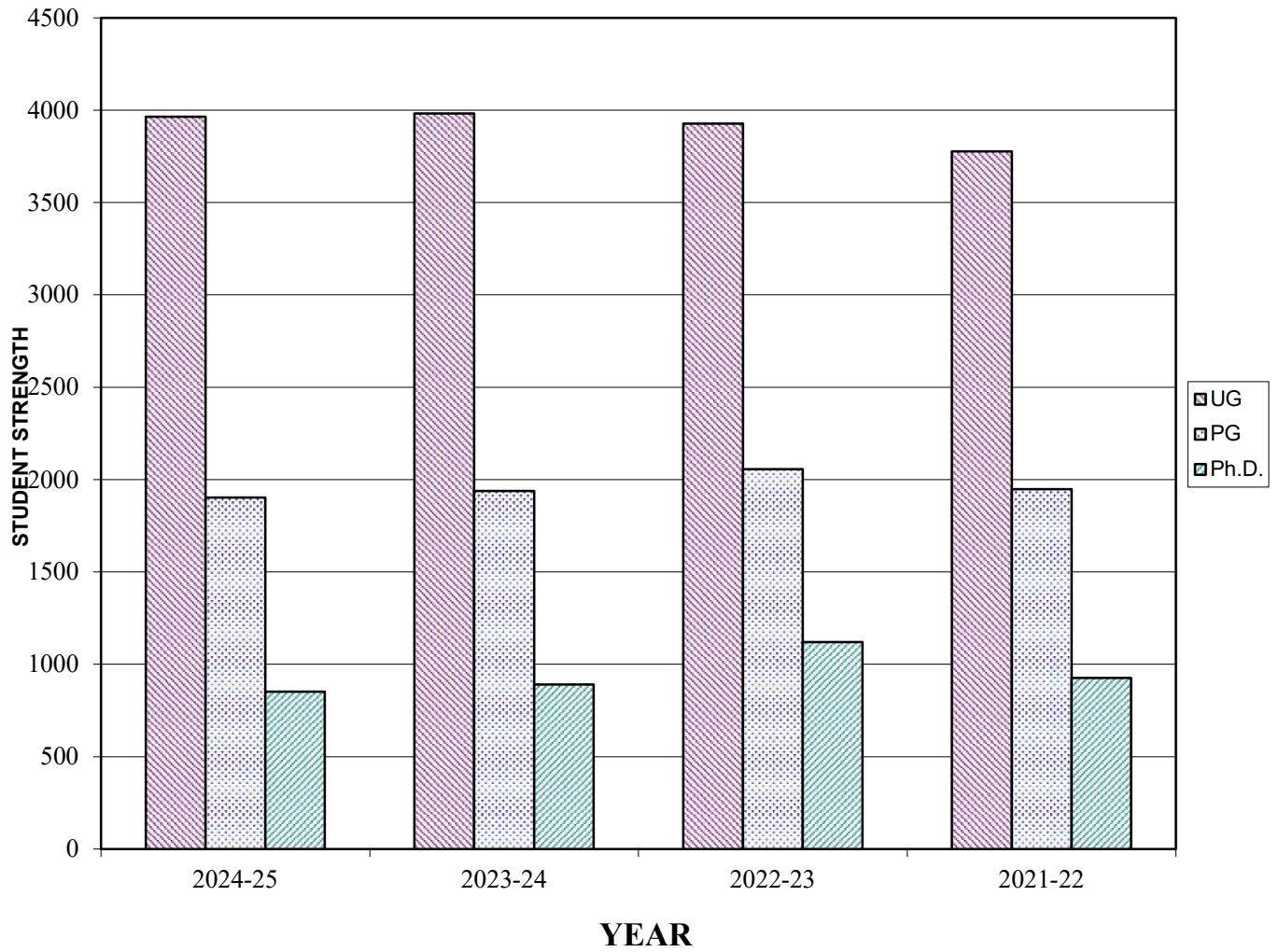
**Pie chart showing discipline-wise B.Tech. admissions for the year 2024-25**



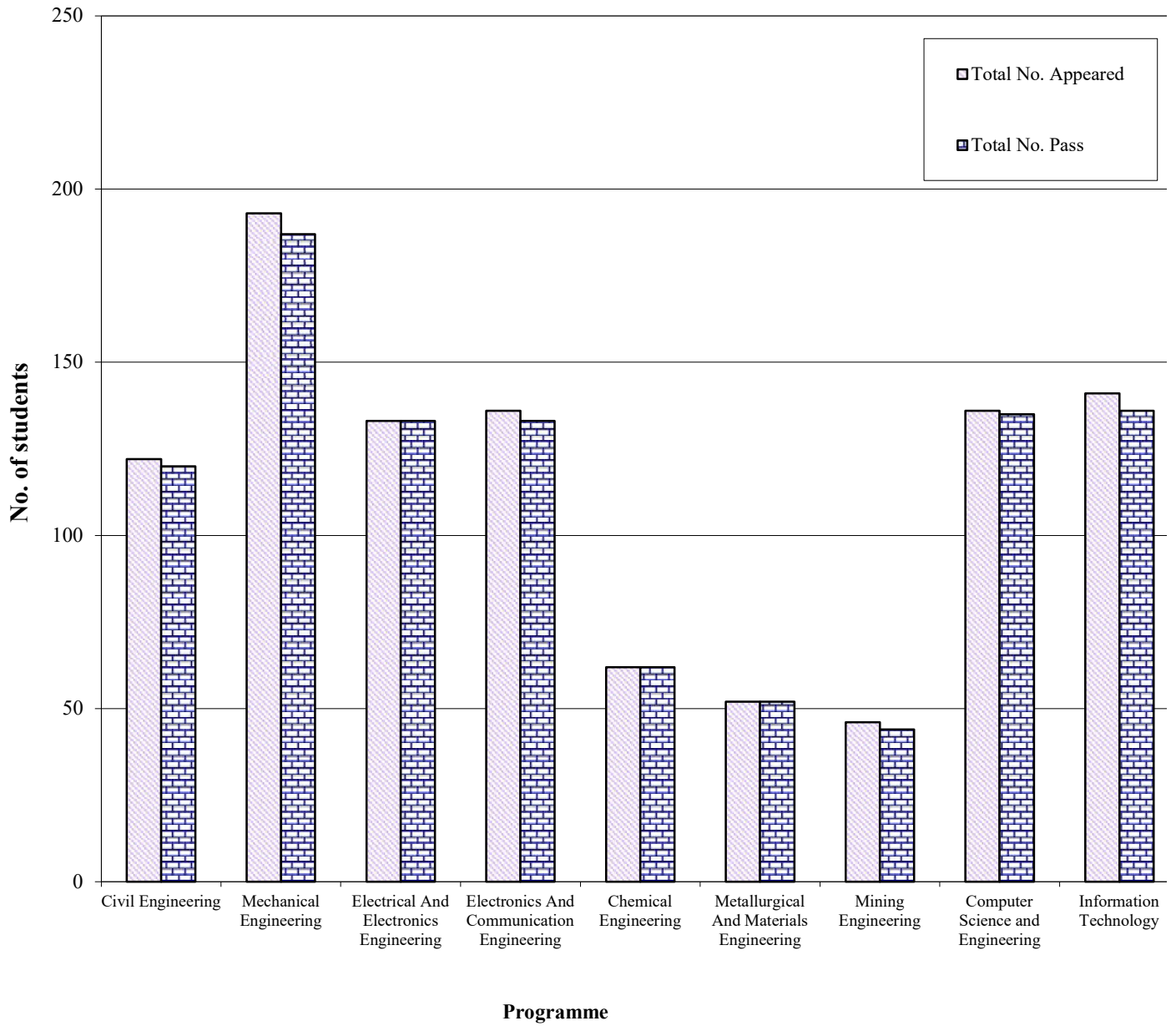
**Pie chart showing discipline-wise M.Tech. admissions for the year 2024-25**



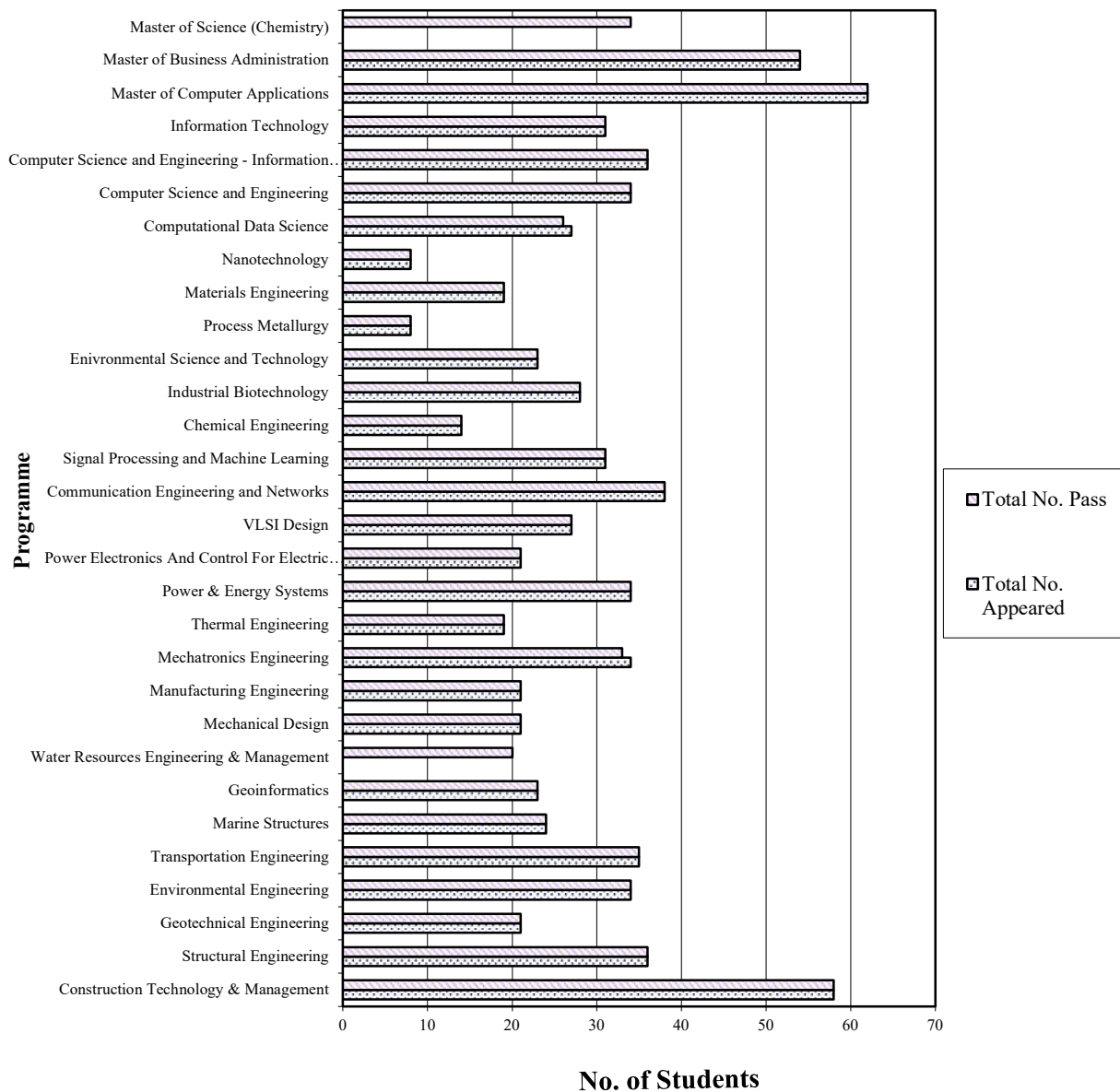
**Pie chart showing discipline-wise Ph.D. admissions for the year 2024-25**

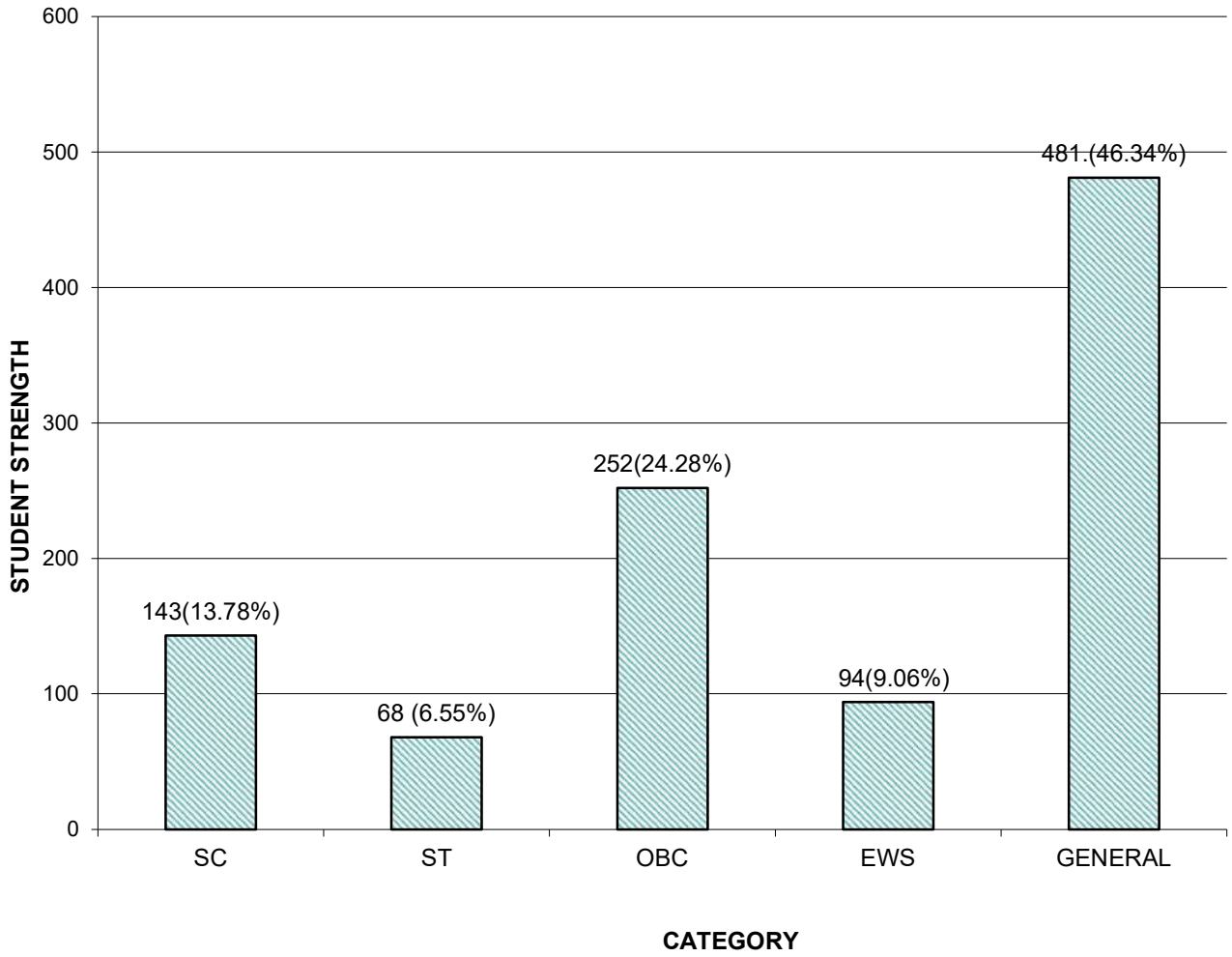


Comparison of student enrolment to UG/PG/Ph.D programs during the last 4 years



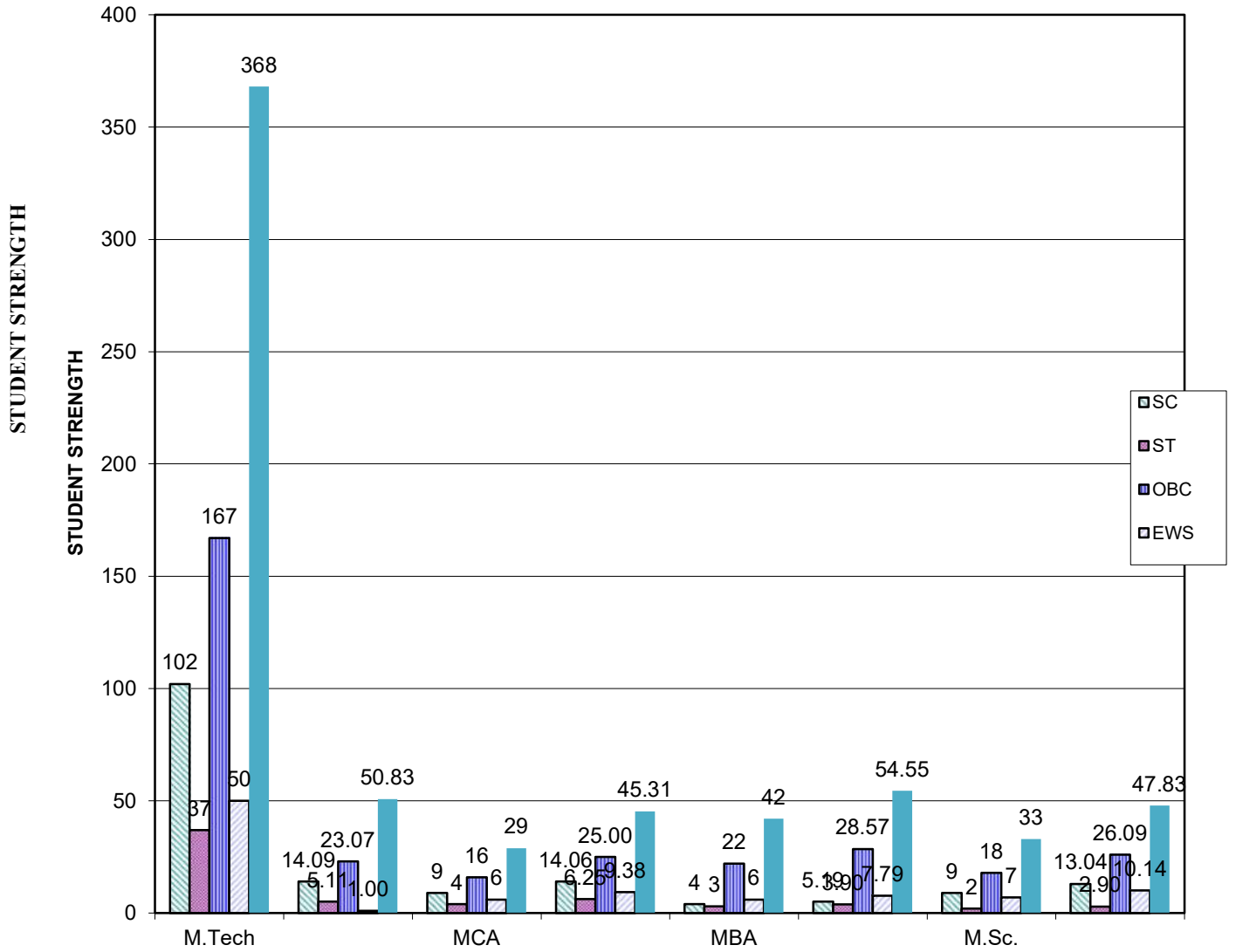
**UG Program Exam Results (2024)**





Category-wise data for UG Admissions (2024-25)





**Ranks secured by the B.Tech./M.Tech./MCA/MBA/M.Sc. (Physics & Chemistry)**

**Examination held in April/May, 2024**

**Student Awardees**

Sl. No.	Branch	Reg. No.	Name of the Student
1	CHEMICAL ENGINEERING	2010028CH052	SHREESHA N A 1) Institute Medal 2) Mohan V Hosur Gold Medal 3) 1986 Batch Gold Medal
2	CIVIL ENGINEERING	2010255CV152	SUDHANVA R 1) Institute Medal 2) Prof. M. N. Shivshankar Gold Medal 3) Dr. R.K. Yaji Gold Medal 4) 1986 Batch Gold Medal
3	COMPUTER SCIENCE AND ENGINEERING	2010212CS266	VIKAS KESHAVAMURTHY BHAT 1) Institute Medal
4	ELECTRONICS & COMMUNICATION ENGINEERING	2010661EC170	BHIMARADDY B YARABANDI 1) Institute Medal 2) 1986 Batch Gold Medal
5	ELECTRICAL & ELECTRONICS ENGINEERING	2010980EE167	VARUN S 1) Institute Medal 2) Prof. M.R. Shenoy Memorial Prize 3) Prof. K. M. Hebbar Gold Medal 4) 1986 Batch Gold Medal
6	INFORMATION TECHNOLOGY	2010113IT262	<u>SWETHA MARY THOMAS</u> 1) Institute Medal
7	MECHANICAL ENGINEERING	2010232ME164	VARUN TIWARI 1) Institute Medal 2) 1986 Batch Gold Medal 3) Prof. Shuichi Torii Gold Medal
8	METALLURGICAL & MATERIALS ENGINEERING	2010330MT049	SATVIK R KASHYAP 1) Institute Medal 2) Karthik Alloys Gold Medal 3) Prof. H. V. Sudhaker Nayak Gold Medal 4) SMIORE Gold Medal 5) 1986 Batch Gold Medal
9	MINING ENGINEERING	2010262MN048	SAMPATHKUMAR TARUN 1) Institute Medal 2) Hutti Gold Mines Medal

**POSTGRADUATES**

Sl. No.	Branch	Reg. No.	Name of the Student
1	Marine Structures	2220257MS013	KOMMINENI SURYA 1) Institute Medal
2	Geoinformatics	2220276GF017	<u>SAGARIKA V SHAMBLON</u> 1) Institute Medal
3	Water Resources Engineering & Management	2220270WR017	<u>SINDAM SNIKITHA</u> 1) Institute Medal
4	Chemical Engineering	2220501CG012	SUJAY S S 1) Institute Medal
5	Industrial Biotechnology	2220529IB015	<u>KALA N G</u> 1) Institute Medal
6	Environmental Science and Technology	2220709ES015	NAVANEETHA K 1) Institute Medal
7	Construction Technology & Management	2220726CM051	SHAFIQ AHAMED S 1) Institute Medal
8	Environmental Engineering	2220107EN036	YADAV PRANIT PRAKASH 1) Institute Medal
9	Geotechnical Engineering	2220139GT010	K R SRIKRISHNA SETTY 1) Institute Medal
10	Structural Engineering	2220152ST010	<u>JENNIFER JAMES</u> 1) Institute Medal
11	Transportation Engineering	2220159TS018	<u>KRISHNAVENI S</u> 1) Institute Medal
12	Computer Science & Engineering	2220610CS010	ATANU CHATTERJEE 1) Institute Medal
13	Computer Science & Engineering – Information Security	2220557IS008	KALASH 1) Institute Medal
14	Power & Energy Systems	2220559PS001	A M PRAHLADA 1) Institute Medal
15	Power Electronics and Control for Electric Vehicle	2220767EV506	DIBYENDU MANDAL 1) Institute Medal
16	Communication Engineering and Networks	2220496CN022	MUSUKU VINAY KUMAR 1) Institute Medal
17	VLSI Design	2220492VL024	PISATI RAGHAVENDRA REDDY 1) Institute Medal
18	Signal Processing and Machine Learning	2220019SP030	<u>U PAVITHRA</u> 1) Institute Medal
19	Information Technology	2220088IT018	MAGAR PANKAJ KUMAR DADA 1) Institute Medal
20	Computational and Data Science	2220664CD027	SUBHAM KUMAR SINGH 1) Institute Medal
21	Mechanical Design	2220297MD006	AYUSH SHARMA 1) Institute Medal
22	Manufacturing Engineering	2220246MF003	AROMAL S S 1) Institute Medal
23	Mechatronics Engineering	2220042MC014	GAJULA RAJ KUMAR 1) Institute Medal

24	Thermal Engineering	2220287TH013	PRERIT SHARMA ( <b>CGPA: 10.00</b> ) 1) Institute Medal 2) Dr. B. S. Samaga Award 3) Prof. K. L. Bhat & Prof. P. Prasad Rao Gold Medal 4) Department of Mechanical Engineering Gold Medal 5) Board Chairperson's Medal
25	Materials Engineering	2220613ML006	BHUVANESWARAN R 1) Institute Medal 2) Prof. K R Hebbar Gold Medal
26	Nanotechnology	2220596NT009	ZABI UR RAHMAN 1) Institute Medal
27	Process Metallurgy	2220629PM008	VIVEK DWIVEDI 1) Institute Medal 2) Smt. Sarojini Pillay Gold Medal
28	Master of Computer Applications	2140026CA039	PRAFFUL GUPTA 1) Institute Medal 2) Dr. Saroja R Hebbar Gold Medal
29	Master of Business Administration	2250003SM039	<u>R LAKSHMI</u> 1) Institute Medal
30	Chemistry	2260035CY001	<u>AHELI CHOWDHARY</u> 1) Institute Medal 2) Prof. G. H. Kulkarni Gold Medal
31	Physics	2260015PH028	SAGAR JC ( <b>CGPA: 10.00</b> ) 1) Institute Medal 2) K. Subbarayappa Gold Medal 3) Board Chairperson's Medal

## 10.7 Ph.D. Programmes & Doctorates Awarded

### 10.7.1 Ph.D. Programs – Existing & Proposed

#### DEPARTMENT OF CHEMICAL ENGINEERING

##### EXISTING SPECIALIZATION:

Process Development, Particulate Systems, Environmental Engineering, Transfer Operations, Energy, Process Modelling and Simulation, Computational Fluid Dynamics, Nanoscience / Nanotechnology, Polymer nanocomposites, Process dynamics and control, and Molecular Simulations, Material Science, Machine Learning and Artificial Intelligence, Biotechnology, Biochemical Engineering, Bioprocess engineering, Computational biology, Food technology/processing, Bio-nanotechnology, Biochemistry, Microbiology, Molecular biology.

#### DEPARTMENT OF CIVIL ENGINEERING

##### EXISTING SPECIALIZATION:

Construction Technology and Management, Environmental Engineering, Geotechnical Engineering, Structural Engineering, Transportation Engineering, Earth Sciences.

#### DEPARTMENT OF CHEMISTRY

##### EXISTING SPECIALIZATION

Photocatalysis, Thermoelectrics, Supercapacitors, Nanofluids, Materials for energy and environmental applications.

#### DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

##### EXISTING SPECIALIZATION:

Algorithms, Computer Networks, Software Engineering, Distributed Computing, Data Management, Information Security, High Performance Computing, Computer Vision, Cloud Computing, Image Processing, Speech Processing, Mobile computing Graph Theory, Graph Algorithms, Big Data Analytics, Internet of Things (IoT), Network-on-Chip(NoC)–2D, 3D, Wireless and Photonic., Testing and Fault-Tolerance, Hardware Security, Formal Verification, and Cyber-Physical Systems, Computer Systems and Architecture, Machine Learning and Distributed Systems, Cloud Computing, FOG Computing, Internet of Things (IoT) Security, Blockchain, Server less Computing, Computational Geometry

#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

##### EXISTING SPECIALIZATION:

Digital VLSI Design, Analog and Mixed Signal Design, Digital Signal Processing, Speech, Audio, Image and Video Processing, Digital Communication, Error Control Coding, Free Space Optics, RF MEMS, Microwave and RF Circuits, Wireless Sensor Networks, High Frequency Electronics, Semiconductor Devices, Embedded Systems, Reconfigurable Computing.

#### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

##### EXISTING SPECIALIZATION:

Power and Energy Systems, Power Electronics and Electric Drives, Control Systems, New and Renewable Energy Systems, Insulation and High Voltage Engineering, Application of Signal Processing, Artificial Intelligence (AI)/Machine Learning (ML), Algorithms in Electrical Engineering.

## DEPARTMENT OF INFORMATION TECHNOLOGY

### EXISTING SPECIALIZATION:

Affective Computing, Artificial Intelligence, Big Data Analytics, Bioinformatics, Biomedical Imaging , Blockchain Technologies, Cloud/Edge/Fog Computing, Cloud Security, Computer Networks, Cryptography, Computer Vision, Cyber Security, Databases, Data Mining, Deep Learning Applications, Distributed Computing, Evolutionary Deep Intelligence; Future Internet Architecture, Healthcare Informatics, High Performance Computing, Information Retrieval, Information Security, Internet of Things, Mobile Software Engineering, Natural Language Processing, Network Security, Quantum Computing, Quantum Cryptography, Scientific Imaging, Semantic Web Technology, Security Analytics, Social Multimedia/Social Network Analysis, Software Engineering, Spatial Data Analytics, Web Services, Wireless Networks, 5G and Beyond

## DEPARTMENT OF MATHEMATICAL AND COMPUTATIONAL SCIENCES

- Computational Fluid Dynamics
- Rheology
- Tribology
- Bio-Informatics
- Wireless Sensor Networks, Wireless Ad hoc networks
- Graph Theory and Network Analysis
- Systems Optimization
- Functional Analysis, Number Theory, Finite Fields, Cryptography
- Real Analysis
- Reliability Engineering, Stochastic Process
- Numerical methods for Differential and Integral equations - RBF based methods
- Complementarity problems
- Nonlinear Analysis
- Mathematical Modelling of Physical Phenomena
- Graph Theory, Combinatorics, Coloring of Graphs
- Operator Theory, Ill-Posed Operator Equations, Learning Theory
- Partial Differential Equations
- Database Management and Data Mining
- Image Processing, Mathematical imaging, variational & regularization methods in imaging, image compression
- Computer Network Security, Remote User Authentication, Mobile computing
- Optimization Techniques, Optimization, Computational Systems Science and Engineering, Computations in Decision Making
- Genetic Algorithms
- Computational Techniques

## DEPARTMENT OF MINING ENGINEERING

### EXISTING SPECIALIZATION:

Rock Mechanics and Ground Control, Drilling and Blasting, Mine Planning, Environmental Management, Waste Management, Reliability and Safety Engineering, Occupational Ergonomics.

## DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING

### EXISTING SPECIALIZATION:

Process, Metallurgy, Physical Metallurgy, Mechanical Metallurgy, Materials Engineering, Nanotechnology, Biomaterials, Application of quantum dots in energy storage and biomedical fields. This includes exploring their role in enhancing the performance of supercapacitors and other energy storage devices, as well as their potential in bioimaging, drug delivery, and diagnostic applications.

## DEPARTMENT OF PHYSICS

### EXISTING SPECIALIZATION:

Solid State Physics, Materials Science, Theoretical Physics, Electromagnetics, Photonics, Compound Semiconductor thin films, Organic Electronics (OLED, Photovoltaics), Cosmology and Early Universe Theoretical investigation of strongly correlated systems and solar cells.

### PROPOSED:

Plasmonics, Nanomaterials and Nanostructures, Organic Spintronics, Theoretical studies of Quantum materials & topological insulators, Nonlinear dynamics, Active Matter, Electrode Materials.

## SCHOOL OF HUMANITIES, SOCIAL SCIENCES AND MANAGEMENT

### EXISTING SPECIALIZATION:

Research Methodology, Quantitative Methods for Managerial Decisions, Marketing Research, Marketing Management, Managerial Accounting, Management of Human Resource in Organization, Organizational Behavioural and Implications for Management, Research Methodology- Methods and Techniques, Management Information System, Strategic Management, Mathematical Economics, Research Methods in Economics, Financial Institutions and Market, Technology Industry and Trade, Economic Environment and Policy, Aesthetics and Criticism, Comparative Literature Research Methodology in Literature, Literary Theory

### ADDITIONAL PROPOSED

Socio Linguistics, Psycho Linguistics, Critical Discourse Analysis, Language Documentation, Forensic Linguistics, Positive psychology, Social Psychology, Organizational Behaviour and Counselling Psychology, Indigenous Studies, Postcolonial Ecocriticism, Environmental Humanities, Comics Studies, Graphic Narratives.

## DEPARTMENT OF MINING ENGINEERING

Rock Mechanics and Ground Control, Drilling and Blasting, Mine Planning, Environmental Management, Waste Management, Reliability and Safety Engineering, Occupational Ergonomics.

## DEPARTMENT OF WATER RESOURCES AND OCEAN ENGINEERING

### EXISTING SPECIALIZATION

- (i) Coastal Engineering
- (ii) Water Resources Engineering
- (iii) Geoinformatics

## 10.7.2 Doctorates Awarded

### DEPARTMENT OF CHEMICAL ENGINEERING

- ❖ Ms. Deekshitha, "MICROBIAL MEDIATED SYNTHESIS OF VISIBLE LIGHT ACTIVE SILVER-BASED TITANIA NANOCOMPOSITES AND THEIR PHOTOCATALYTIC APPLICATIONS IN DEGRADATION OF AZO DYE", Guide: Prof. Vidya Shetty K.
- ❖ Atmuri shourya, "CERIA-MANGANESE MIXED OXIDES AS CATALYST FOR SOOT AND CO OXIDATION ACTIVITY" Guide: Prof. Hari Prasad Dasari
- ❖ Mr. Sai Teja M V, "EXPERIMENTAL AND NUMERICAL INVESTIGATION OF MULTIPHASE FLOW CHARACTERISTICS IN T-SHAPED MICROCHANNELS." Guide : Dr. Ashraf Ali. B
- ❖ Mr. Ramesh Potnuri, "MICROWAVE ASSISTED PYROLYSIS OF BIOMASS AND WASTE PLASTICS: EXPERIMENTS AND MODELLING USING MACHINE LEARNING", Guide: Dr. Chinta Sankar Rao
- ❖ Ms. Soumya KM "MICROBIAL CELL IMMOBILIZED BIOCHAR FOR BIOREMEDIATION OF METAL IONS AND PESTICIDE FROM WATER AND SOIL". Guide: Dr. Vaishakh Nair
- ❖ Mr. Arunkumar subramani, "CLONING, EXPRESSION, PURIFICATION AND PRODUCT CHARACTERIZATION OF A NOVEL CHITINASE FROM *Bacillus aryabhathi*"
- ❖ Ms. Priyanka N Hugar, "STUDIES ON FERMENTATIVE EXTRACTION OF ANTIOXIDANTS FROM UNRIPE ARECA NUT", Guide: Prof. Prasanna B D
- ❖ Ms. I. Indumathi, "NICKEL FERRITE NANOCOMPOSITE FOR THE REMOVAL OF NSAIDs, ANTIBIOTICS AND CAFFEINE", Guide: Prof. Raj Mohan B
- ❖ Ms. G. Vishnupriya, "PRODUCTION, PURIFICATION AND CHARACTERIZATION OF CHITINASE FROM *BACILLUS HAYNESH* & ITS PRODUCT CHARACTERIZATION AND APPLICATION", Guide: Prof. Keyur Raval
- ❖ Ms. Deepti Susanna, "ULTRASONICATION-ASSISTED PHYTOCHEMICAL SYNTHESIS OF GOLD NANOPARTICLES FROM *Nothapodytes foetida* AND THEIR BIOFUNCTIONALIZATION FOR THE DETECTION OF FOODBORNE PATHOGENS" Guide: Dr. Raj Mohan B. Co Guide: Dr. Jagadeesh Babu P.E.
- ❖ Ms. A. Selva Sudha, "STUDIES ON THE LIPOPHILISATION OF 3,4-DIHYDROXYPHENYLACETIC ACID AND ITS APPLICATION IN ENHANCING THE OXIDATIVE STABILITY OF FISH OIL", Guide : Dr. Prasanna B.D.
- ❖ Mr. Rahul Kumar Shirasangi, "A STUDY ON ELECTROLYTE-SUPPORTED(NiO-YSZ/NiO-SDC/ScSZ/LSCF-GDC/LSCF) SOLID OXIDE ELECTROLYSIS BUTTON CELL FOR CO<sub>2</sub>/H<sub>2</sub>O CO-ELECTROLYSIS", Guide: Prof. Hari Prasad Dasari Co Guide: Prof . M. B. Saidutta

### DEPARTMENT OF CIVIL ENGINEERING

- ❖ Manu K Sajan, "Modelling of resilient rubble mound breakwater against tsunami" Supervisor: Dr Babloo Chaudhary
- ❖ Sumayya Naznin P. H, "Analysis and prediction of road accident cost". Supervisors: Dr. A. U. Ravi Shankar, and Dr. Mithun Mohan
- ❖ Doma Hemanth Kumar, "Effect of warm mix asphalt additives and marginal aggregates on mechanical properties of semi-flexible asphalt mixtures", Supervisors: Dr. A. U. Ravi Shankar, and Dr. Mithun Mohan
- ❖ Resmy, V. R. "Application of Topology Optimization In The Design Of Concrete Structures", Supervisor: Dr. Rajasekaran, C.
- ❖ Poorani M. "Development and Performance Analysis of a Ferrous Slag-Soil Reactive Barrier for use in Engineered Landfill". Supervisors: S. Shrihari and Sunil B.M..
- ❖ Arun V. "Development of Pavement Management System for Rural Roads at Network Level", Supervisor: Dr. Suresha S.N.
- ❖ Amrita, "Soil-structure interaction effects in integrated soil-nailed retaining wall-building systems under dynamic loading", Supervisors: B.R. Jayalekshmi and Prof. R. Shivashankar
- ❖ Srinivas F. Chitrakar, "Studies on Performance Evaluation of Black Cotton Soil Stabilized with Conventional and Non-Conventional Additives for Pavements ", Supervisors: Prof. C. B. Shivayogimath and Dr. Raviraj H. M
- ❖ Nithin K. S, "Design of Operational Strategies for Public Bus Transit System considering variations in Passenger Mobility Pattern", Supervisor: Dr. Raviraj H. M
- ❖ Praveen Kumar P, "Efficiency and Effectiveness Studies for Performance Evaluation in Public Transport Systems", Supervisors Prof. Varghese George AND Dr. Raviraj H.M



- ❖ Kondeti Chiranjeevi, "Laboratory Investigation on Cement and Alkali Treated Base Courses Using Marginal Materials", Supervisors: Prof. A. U. Ravi Shankar and Dr. Raviraj H. M
- ❖ Theres Charly, "Assessment of Environmental Pollution at a Typical Toll Plaza", Supervisors: Prof. B. Manu and Dr. Raviraj H. M

#### DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

##### Doctorates Awarded (01-04-2024 to 31-03-2025) : 09

- ❖ Spoorthy V(Reg.No:187126CO007), Guide: Dr. Shashidhar G. Koolagudi, Title "Speech Processing and Machine Learning", Viva-voce :16.08.2024
- ❖ Niyas (Reg.No: 187530CO504) , Guide: Dr. Jeny Rajan, Title:"3D CNN Architectures for Medical Image Segmentation" , Viva-voce on : 18.10.2024
- ❖ Saraswati Koppad (Reg.No: 177007CO005), Guide: Prof. Annappa, Title: " Big Data Analytics" , Viva-voce on :30.10.2024
- ❖ Kallinatha H.D. (Reg.No: 187083CO002), Guide: Dr. Basavaraj Talawar, Title: "Design of Non-Volatile Memory Based Network on Chips", Viva-voce on :30.10.2024
- ❖ Sachin D N (Reg.No: 207098CS004), Guide: Prof. Annappa B., Title: " Edge Computing", Viva voce on :08.11.2024
- ❖ Zubair (Reg.No: 197003CS003), Guide: Dr. Alwyn R. Pais, Title: "Object detection in Hyperspectral Images" , Viva-voce on :19.11.2024
- ❖ Sadhana (Reg.No: 197021CS002), Guide: Dr. Basavaraj Talawar, Title: "Page Replacement and Migration implementations in Hybrid Memory System for Improved Emergency Efficiency" , Viva-voce on : 25.02.2025
- ❖ Sandeep M. (Reg.No: 207144CS006), Guide: Dr. B. R. Chandavarkar, Title: "Data Interoperability in IoT" , Viva-voce on :27.02.2025
- ❖ Keerthan Kumar T. G, (Reg.No: 2170004CS004), Guide(s): Dr. Sourav Kanti Addya and Dr. Shashidhar G. Koolagudi, Title: "Cloud Computing and Virtual Network",Viva-voce on : 12.03.2025

#### DEPARTMENT OF CHEMISTRY

- ❖ Vishrutha K.S. (Reg.No: 187032CY007), Guide: Prof. B.Ramachandra Bhat, Title: Molecular design and synthesis of new cyanopyridone- based small molecules for OLED applications , Viva-voce on : 28.03.2024.
- ❖ Shreeganesh Subraya Hegde, (Reg. No. 207543CY501), Guide:(Prof B.Ramachandra Bhat), biomass-derived high surface porous carbon for energy and sensing applications, Viva-voce: 28.06.2024.
- ❖ Lavanya Rao V.R. (Reg. No. 197CY004) Guide: Prof. B.Ramachandra Bhat, Title: Synthesis of Nanomaterials and their Applications in Biosensor, Viva-voce 24.10.2024.
- ❖ Fiona Joyline Mascarenhas, (Reg. No. 197CY001), Guide: Prof. B.Ramachandra Bhat, Synthesis and characterization of transition metal chalcogenides for high performance supercapacitors Viva-voce 30.10.2024.
- ❖ Ms. Sahana Nagesh Shet, (Reg. No. 2275035CY502), Guide: Dr. Vijayendra S. Shetti, Title: "Synthesis and studies of porphyrin-ferrocene 'click' conjugates, azo-linked porphyrin hybrids, and azulene-bridged porphyrin dimers", Viva-voce 24.01.2025.
- ❖ Mr. Nagaraj K, (Reg. No. 187013CY003), Guide: Prof. Darshak R Trivedi, Title: "Development Of Colorimetric Chemosensors For Selective Sensing Of Arsenic Anions And Their Applications" Viva-voce 22.07.2024.
  - ❖ Pavan Kumar S, (Reg. No. 197042CY006), Guide: Prof. D Krishna Bhat, Title: Studies on copper and copper(I) oxide nanofluids', 2025, Viva-voce 08.01.2025.
  - ❖ Dr.Harshitha N. Anchan, (Reg. No. ), Guide: Dr. Saikat Dutta
  - ❖ Ms. Madhusree JE, (Reg. No. 197116CY011), Guide: Dr. Sib Sankar Mal, Title: "Biomass-derived Activated carbon Substituted Polyoxometalates for Energy Applications", Viva-voce: 19.09.2024.
  - ❖ Yathish Rai T, (Reg. No. 197024CY009), Guide: Prof. A Chitharanjan Hegde, Title: "Electrochemical development of Nickel based Alloy coating and their characterization", Viva-voce 03.03.2025.
  - ❖ Sathyanarayana D S, (Reg. No. 177040CY501), Guide: Prof. Arun M Isloor, Title: "Synthesis structural elucidation and biological evaluation of some new nitrogen- containing heterocycles", Viva-voce 26.02.2025.
  - ❖ Shivakumar, (Reg. No. 207114CY010), Guide: Prof. Udaya Kumar D, "Design and development of new pyrazine based molecules as potent antitubercular agents", Viva-voce 20.08.2024.

- ❖ Omkar Singh, (Reg. No. 187081CY005), Guide: 187081CY005, Title: "Effect of ions and temperature on the structural and dynamic aspects of biomolecules", Viva-voce 02.05.2024.

#### **DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

- ❖ Kumuda D. K., "Application of Machine Learning Algorithms for Detection and Tracking of Multiple Targets based on Experimental data acquired using Radar Sensor operating in the 77 GHz Band" 10th June 2024, Dr. P. Srihari.
- ❖ Ramachandra G., "Optimized Compressed Sensing for IoT: Advanced Algorithms for Efficient Sparse Signal Reconstruction in Edge Devices", 12th July 2024, Dr. M. S. Bhat.
- ❖ D. Suryachand Gopa Vajhula, "Design and Development of Bio-Compatible Miniaturized Antenna for Wireless Neural Monitoring", 14th August 2024, Dr. Sandeep Kumar and Dr. A. V. Narasimhadhan.
- ❖ Manishankar Prasad Gupta "Robust Design Approach towards GaN HEMT RF Front-End Amplifier for High Power Transceivers", 16th August 2024, Dr. Sandeep Kumar.
- ❖ Lad Kirankumar Hasmukhbhai, "Energy efficient, Inductor-less high-speed Phase Locked Loop", 25th October 2024, Dr. Rekha S. and Dr. Laxminidhi T.
- ❖ Shara Mathew "Design and Mathematical Modeling of Dual Material Gate Junctionless FinFET", 25th October 2024, Dr. Rathnamala Rao.
- ❖ Abhishek Kumar "Performance analysis and enhancement of RoFSO communication system", 28th October 2024, Dr. Prabu K.
- ❖ Santosh Kumar Sahu, "Design & optimization of nanophotonic devices for IR band applications", 28th October 2024, Dr. Mandeep Singh.
- ❖ Basavaraju K. S., "Deep Learning Architectures for Urban Change Detection from Satellite Images", 7th November 2024, Dr. Shyam Lal.
- ❖ Asha, "Efficient and Dynamic Scheduling Strategies in Time Sensitive Networking for Real Time Applications", 6th January 2025, Dr. N. S. V. Shet.
- ❖ Kunal Kumar, "Design and Performance Analysis of Robust CMOS Power Amplifier towards Transceiver IC for Wireless Bio-medical Monitoring", 13th January 2025, Dr. Sandeep Kumar.

#### **DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

- ❖ Mr. Khare Anvit, "Investigation of Power Converter Topologies for Standalone DC System", Dr. A Kartikeyan.
- ❖ Ms. A O L Tripura Sundari, "Design and Development of High STEP-UP and STEP-DOWN Voltage Ratio Converters for Electric Vehicle Application", Dr. P Parthiban.
- ❖ Ms. Nisha K S, "Performance Investigation of Electric Vehicle Charging in a Bipolar DC Microgrid", Dr. Dattatraya Narayan Gaonkar.
- ❖ Ms. Sheeja V, "Design and Development of Solar Photovoltaic and Battery based Power Supply System for Grid Integrated Telecom Load", Dr. Kalpana R.
- ❖ Mr. Murupuru Vinod, "Design and Development of Wireless Power Transfer System for Wide Range Electric Vehicle Battery Charging Applications", Dr. Dharavath Kishan.
- ❖ Mr. Dongara Ramesh, "Investigations on Fault Diagnosis in DC Side of Solar Photovoltaic(PV) Systems", Dr. A Karthikeyan.
- ❖ Mr. Faheemali T, "Investigations into Control Strategies and Integrated Charging Solutions for Switched Reluctance Motor-Driven Electric Vehicles", Dr. Arun Dominic D and Dr. Prajof P.
- ❖ Ms. Batchu Veena Vani, "Investigation into Heuristic Optimization for Enhanced Electric Vehicle Routing and Battery Swapping Strategy", Dr. Dharavath Kishan and Dr. Md Waseem Ahmad.
- ❖ Mr. Pratap Kumar Koppolu, "Design and Development of Pattern Recognition System Using Machine Learning Techniques for the Control of Myoelectric Prosthesis", Dr. Kishnan C M C.
- ❖ Mr. Ajeya K, "Forecasting of Source Parameters and Controller Design in a DC Microgrid", Dr. Vinatha U.
- ❖ Mr. Megavath Diwakar Naik, "Investigation on High-Gain DC-DC Converters for Solar PV and Fuel Cell based Energy Systems", Dr. Vinatha U.

## DEPARTMENT OF INFORMATION TECHNOLOGY

- ❖ Ms. Sujatha M, "Soil Fertility Classification Using Machine Learning-Based Approach", Dr. Jaidhar C D.
- ❖ Mr. Raghu T V, "Novel Frameworks for Prioritizing Resource Allocation in Application Based D2D Communication in 5G Cellular Network", Dr. Kiran M.
- ❖ Mr. Praveen M Naik, "Investigation of Arecanut Images for Grading Through Non-Destructive Methods Using Deep Learning Techniques", Dr. Bhawana Rudra

## DEPARTMENT OF MATHEMATICAL AND COMPUTATIONAL SCIENCES

- ❖ Krishnendu R, NITK, On numerical realization of regularization methods for ill – posed equations, Defended on 9th January 2024(with P. Jidesh).
- ❖ Architha Shastry P, Restoration and Enhancement of Aerial and Satellite images using Deep Learning Models, Defended on 3rd December 2024 (with P. Jidesh)
- ❖ Ramya S, Modified convergence analysis of iterative methods for non- linear equations, Defended on 8th November 2024 (withP. Jidesh)
- ❖ Rashid A, "A Study on Certain Positivity Classes of Operators in Hilbert Spaces" 2024, Prof. P. Sam Johnson
- ❖ Amala M. Vincent, A STUDY ON THE ROLE OF HYPER-PARAMETER OPTIMIZATION IN IMAGE CLASSIFICATION PROBLEMS USING AUTO-ML MODELS, 2024, Guide: Jidesh P.
- ❖ Jishnu Sen, "Broadcast Domination in Graphs and Its Critical Aspects", 2024
- ❖ Megha. P, "A STUDY ON MOLLIFIERS FOR FOURIER SPECTRAL APPROXIMATION TO OVERCOME GIBBS PHENOMENON", November 2024.
- ❖ Mr Satyabrat Rath, "Secure Offloading of Scientific and Cryptographic Computations", 2025.
- ❖ Susil Kumar Bishoi: Design and Analysis of Cryptographic Primitives, December 2023, Dr Kedarnath Senapati and Dr B R Shankar.

## DEPARTMENT OF MECHANICAL ENGINEERING

- ❖ A V V R PRASAD Y, (Reg. No. 187027ME001), **Guide:** Prof. Sathyabhama A, **Viva-voce:** 28-Oct-24
- ❖ CHITTEPU JAYAPAL REDDY, (Reg. No. 168005ME16P04), **Guide:** Prof. Sathyabhama A, **Viva-voce:** 30-May-24
- ❖ DEEP SHANKAR, (Reg. No. 187128ME019), **Guide:** Dr. Sudhakar C Jambagi, **Viva-voce** 12-Aug-24.
  - ❖ GONUGUNTLA VENKATAPATHY, (Reg. No. 197022ME006), **Guide:** Dr. N Gnanasekaran, **Viva-voce:** 23-Oct-24.
  - ❖ JAGADEESH C, (Reg. No. 187064ME005), **Guide:** Prof. Shivananda Nayaka H, **Viva-voce** 12-Jul-24.
  - ❖ MADAN K, (Reg. No. 197080ME011), **Guide:** Prof. Sathyabhama A, **Viva-voce** 18-Oct-24.
  - ❖ MANU J, (Reg. No. 177055ME007), **Guide:** Dr. Vasudeva M, **Viva-voce** 18-Oct-24
  - ❖ MOHANKUMAR T S, (Reg. No. 2170002ME014), **Guide:** Prof. Sharnappa, **Viva-voce:** Prof. Sharnappa.
  - ❖ MUTHAMIL SELVAN N, (Reg. No. 187037ME009), **Guide:** Dr. N Gnanasekaran, **Viva-voce** 9-Dec-24.
  - ❖ NAIDU BALIREDDY S, (Reg. No. 177098ME502), **Guide:** Prof. Jeyaraj P, **Viva-voce** 9-Mar-24.
  - ❖ NEERAJ M P, (Reg. No. 187102ME010), **Guide:** Dr. Ranjith M, **Viva-voce** 9-Jan-24
  - ❖ PRAKASH KUMAR, (Reg. No. 207149ME023), **Guide:** Prof. Ramesh M R and Dr. Mrityunjay R Doddamani, **Viva-voce** 23-Oct-24.
  - ❖ RAWAL DIGANJIT SHASHIKANT, (Reg. No. 207162ME027), **Guide:** Dr. N Gnanasekaran, **Viva-voce** 6-May-24.
  - ❖ SANDESH BHAKTHA B, (Reg. No. 187532ME503), **Guide:** Prof. Gangadharan K V and Prof. Jeyaraj P, **Viva-voce** 28-Oct-24.
  - ❖ SANGAPPA R DASAR, (Reg. No. 177022ME015), **Guide:** Dr. Anish S and Dr. Ajay Kumar Yadav, **Viva-voce** 16-Feb-24.
  - ❖ SANTOSH M B, (Reg. No. 207066ME017), **Guide:** Prof. Jeyaraj P and Prof. G C Mohan Kumar, **Viva-voce** 14-Aug-24.
  - ❖ SRINIVASARAO BOMMISETTY, (Reg. No. 155134ME15P04), **Guide:** Prof. Shivananda Nayaka H and Dr. Ch Kanna Babu, **Viva-voce** 6-Apr-24.
  - ❖ SRIVATHSA T, (Reg. No. 165100ME16P03), **Guide:** Prof. Arun M, **Viva-voce** 4-Apr-24.

- ❖ SUBRAMANYA R PRABHU B, (Reg. No. 165128ME16F20), Guide: Dr. Mervin A Herbert and Prof. Shrikantha S Rao, Viva-voce 22-Jan-24.
- ❖ M L J SUMAN, (Reg. No. 155104ME15F13), Guide: Prof. S M Murigendrappa and Prof. Subhaschandra Kattimani, Viva-voce 28-Jun-24.
- ❖ SUMODH KUMAR, (Reg. No. 197142ME026), Guide: Prof. Ramesh M R and Dr. Mrityunjay R Doddamani, Viva-voce 16-Oct-24.
- ❖ SYAM NARAYANA ADDEPALLI, (Reg. No. 187012ME014), Guide: Prof. Sharnappa Joladarashi and Prof. Ramesh M R, Viva-voce 11-Jun-24.
- ❖ TRILOK G, (Reg. No. 197511ME028), Guide: Dr. N Gnanasekaran, Viva-voce 28-Oct-24.
- ❖ VIKAS KUMAR, (Reg. No. 187130ME023), Guide: Dr. Poornesh Kumar K, Viva-voce 23-Oct-24.
- ❖ VINOD KUMAR S, (Reg. No. 207546ME513), Guide: Prof. Subhaschandra Kattimani, Viva-voce 22-Oct-24.
- ❖ NATRANANDA BEHERA, (Reg. No. 197ME013), Guide: Dr Ramesh M R, Viva-voce 24 Jan 2025.
- ❖ MOHSIN IQBAL ABDUL RAHEMAN SHEIKH, (Reg. No. 207ME014), Guide: Dr. Veershetty Gumtapure, Viva-voce 19-11-2024.
- ❖ CHANDRAMOULI T V, (Reg. No. 217ME024), Guide: Dr Sharnappa Joladarashi, Dr Ramesh M R, Viva-voce 17 Jan 2025

#### **DEPARTMENT OF MINING ENGINEERING**

- ❖ Mr. Mohith Bekal Kar, “ Predictive Assessment of Postural Risk and Biochemical Analysis of Musculo-skeletal Disorder Related Problems of Dump Truck Operations in Indian Surface Metal Mines” ,Prof. M.Aruna and Dr. B.M.Kunar, 17-09-2024.
- ❖ Mr. Podichetti Ravikiran, “ Influence of Enhanced Production and Pit Dimensions of Opencast Coal Mines on Dust Concentration”, Prof. Karra Ram Chandar
- ❖ Mr. M.Sathish,” Advanced Slope Monitoring System to Develop Trigger Action Response Plan (TARP) in Opencast Coal Mines using Internet of Things (IOT), Prof. Karra Ram Chandar
- ❖ Mr. Eshwarayya, B L “ Utilization of Gold Ore Tailings as a partial replacement to the Fine Aggregates in the production of Geopolymer Concrete with Recycled Coarse Aggregates”, Prof. M.Aruna and Dr. Sandi Kumar Reddy
- ❖ Anil S Naik, “ Development of IOT Enabled Lorawan Based Real Time Early Warning Monitoring System for Underground Mine Environmental Parameters”, Dr. Sandi Kumar Reddy and Prof. M. Govinda Raj

#### **DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING**

- ❖ Mr. Preetish Crimson D’Silva (Reg. No. MT13F05), “Thermomechanical Processing of IN 601 and SS 304”, Research Guide: Dr. Subray R. Hegde
- ❖ Mr. Perabathula Satish (Reg. No.207158MT005), “Prawn exoskeleton derived calcium phosphates and their composites for bone regeneration”, Research Guide: Dr. Saumen Mandal
- ❖ Mr. Syamkumar K. (Reg. No.187022MT004), “Performance and degradation behaviour of thermal spray coatings for internal combustion engines”, Research Guide: Dr. Sumanth Govindarajan and Dr. Shashi Bhushan Arya
- ❖ Mr. Ramakrishna Devanand P (Reg. No. 165122MT16P01), “Thermal Conformance between Metal-Metal Contacts under Transient Conditions- A Study (The Effect of Tims, Metal Thermophysical Properties, and the Interfacial Pressure)”, Research Guide: Dr. K. Narayan Prabhu
- ❖ Mr. Basavaraj (Reg. No. 187072MT003), “Thermomechanical Processing of Inconel 718”, Research Guide: Dr. Subray R. Hegde

#### **DEPARTMENT OF PHYSICS**

- ❖ Mr. Sibeesh P P, “Excitation Wave Dynamics and Control in Chemical Excitable Medium”, Dr. T K Shajahan, 2024.

- ❖ Mrs. Sherin Thomas , “Investigation on plasmonic devices and resonators in the terahertz frequency range for refractive index sensing applications” Prof. M N Satyanarayan, 2025.
- ❖ Mr. Sindhur Umamaheshwar Joshi , “STUDIES ON THE SYNTHESIS AND ELECTRICAL SWITCHING OF TIN (Sn), INDIUM (In), AND BISMUTH (Bi) DOPED SELENIUM – TELLURIUM (Se–Te) CHALCOGENIDE GLASSES”, Prof. N K Udayashankar, 2025
- ❖ Mrs. Anupriya James , “Synthesis and characterization of lanthanum ortho-ferrite based perovskite nanomaterials for photo-Fenton catalysis”, Prof. N K Udayashankar, 2025.

#### **DEPARTMENT OF WATER RESOURCES AND OCEAN ENGINEERING**

Upto 31<sup>st</sup> March 2024 – 133

During period 1<sup>st</sup> April 2024 to 31<sup>st</sup> March 2025 – 12

- ❖ Ms. Anjali Vijay, “Effect of Urbanization on Extreme Climate Indices and Compound Events in Kerala”, Dr. K. Varija.
- ❖ Mr. Ramesh N, “Statistical Evaluation of Computational Intelligence Techniques for The Prediction of Hydrodynamic Performance of Quarter Circle Breakwater”, Dr. Subba Rao, Dr. Arkal Vittal Hegde.
- ❖ Ms. Priyanka Kumari, “Mineral Identification on Martian Surface Using Supervised Learning Approach from Crism Hyperspectral Data”, Dr. Amba Shetty & Dr. Shashidhar G Koolagudi.
- ❖ Mr. Rony J. S., “Dynamic Analysis of Offshore Floating Wind Turbine Combined with Wave Energy Converter”, Dr. Debabrata Karmakar.
- ❖ Arya Sajeev, “Assessment of Meteorological and Hydrological Droughts Using Stationary and Non-Stationary Indices for Two Contrasting Climate Regions in India”, Dr. Subrahmanya Kundapura.
- ❖ Alka Abraham, “Response Evaluation of Environmental Flow Indicators to Land Use Land Cover and Climate Change Over Three Humid Tropical River Basins”, Dr. Subrahmanya Kundapura.
- ❖ Chandrashekarayya G. Hiremath, “Regionalization of Parameters of Hydrological Models in South Indian River Basins”, Dr. Lakshman Nandagiri.
- ❖ Prajwal M, “Assessment of Uncertainties in Estimation of Soil Organic Carbon from Remote Sensing Imagery”, Dr. Pruthviraj. U.
- ❖ Shaik Abdul Shareef, “Experimental and Numerical Investigations on Sea Cage System Under Wave Excitations”, Dr. T. Nasar.
- ❖ Biruk Tagesse Lambe, “Exploring the Changes in Land Use and Hydrometeorological Variables in Bilate River Basin, Ethiopia”, Dr. Subrahmanya Kundapura.
- ❖ Kunhimammu Paravath, “Geomorphologic Impact of Harbour Constructions on Kerala Coast in India”, Dr. T. Nasar.
- ❖ Shaik Salma, “Surface Soil Moisture Retrieval in Croplands Using Dual-Polarized Sar Data. Dr. B. M. Dodamani.

#### **SCHOOL OF HUMANITIES, SOCIAL SCIENCES AND MANAGEMENT**

- ❖ Mr. Shailesh Prabhu N., “Towards Sustainable Future: Understanding Mobile Phone Disposal, Behaviour in Karnataka” guided by Prof. Ritanjali Majhi
- ❖ Mr. Kiran Raveendran, “Cultural Construction of Queerness: A Study of Select Indian Queer Films” guided by Dr. Dhishna P.
- ❖ Mr. Sarin Raju, “Game-theoretic studies of disruptions in decentralised dual-channel supply chain”, guided by Prof. S. Pavan Kumar.
- ❖ Ms. Poonam Sahoo, “Examining the Readiness of Banking Sector in Implementing Industry 4.0 Technologies” guided by Prof. S. Pavan Kumar & Dr. Rashmi Uchil.
- ❖ Ms. Sreekha P, “Effects of market reforms on market quality: A market microstructure analysis of the Indian agricultural commodity market.” guided by Dr. Rajesh Acharya H.
- ❖ Ms. Soma Amol Dhaigude, “Logistics Service Quality (LSQ) and Customer Satisfaction in Social Commerce: An Empirical Investigation ” guided by Dr. Bijuna C. Mohan.

- ❖ Ms. Komal Anand, "Examining User Adoption of Augmented Reality Technology- An Empirical Study" guided by Dr. Sheena

## 10.8 Students Council

An election to the Students' Council was held on 21.3.2024. The following students were elected as Office Bearers for the Institute Students Council for the Academic Year 2023-2024.

President	: Mr. Karthik Karanth (211CH036)
Vice President	: Ms. Naseeha Salam K (211MT034)
General Secretary	: Mr. Gopal Bohare (221ME218) Ms. Niharika Rathore (221ME237)
Joint Secretary	: Mr. Satwik Tripathi (231ME144) Ms. Somya Agarwal (231ME253)

## 10.9 Student Activities

### ORGANIZED SPORTS DURING THE ACADEMIC YEAR 2024-25

Sl. No	All India Inter NIT Sports organized	Other events organized
01.	<p><b><u>All India Inter NIT Athletics (M&amp;W), Swimming (M &amp; W) and Power Sports (M) -</u></b></p> <p>All India Inter NIT Tournament in Athletics (Men &amp; Women), Swimming (Men &amp; Women) and Power Sports (Men) was organized from 10<sup>th</sup> January to 12<sup>th</sup> January 2025 in our Institute. More than 650 students from other NITs participated in this tournament. Participating teams were provided with free Boarding and Lodging facilities.</p>	<p>Phoenix, Freshers cup, PG Cup, RPL, Slam Dunk Basketball championship, NITK Football Cup,....</p> <p><b><u>Phoenix</u></b> – Phoenix is a sports activities and indoor game facilities for the residents of the hostel. It is managed by a group of elected students from the hostel representatives.</p> <p><b><u>Freshers Cup</u></b> - Freshers Cup Tournament was organized from 25<sup>th</sup> to 27<sup>th</sup> October 2024 by Phoenix Committee.</p> <p><b><u>PG Cup</u></b> – PG Cup 2024 is hosts by PG Students from 20<sup>th</sup> to 23<sup>rd</sup> March 2024. Various sports event such as cricket, football, basketball, volleyball, throwball, badminton, table tennis, kho-kho, carrom, box cricket, chess was organized by the students.</p> <p><b><u>RPL</u></b> – NITK RPL is host by the Research Students of NITK from 14th February to 25th February 2025.. Various sports event such as cricket, football, volleyball, badminton, throwball table tennis, chess, carrom, shot put, basketball was organized by the students.</p> <p><b><u>SLAMDUNK Basketball Championship</u></b> – The</p>



		<p>NITK Basketball Team hosts the flagship sports event SLAM DUNK during the cultural fest every year. SLAM DUNK is the invitational inter-collegiate basketball tournament for men and women featuring participation from some of South India's best college/university teams. The tournament has gained great prestige and reputation over the years.</p> <p><b><u>NITK Football Cup 2024</u></b> – NITK football team successfully conducted the tournament from 14<sup>th</sup> March to 16<sup>th</sup> March 2025. There were 8 college teams participating with a total of 150 players.</p> <p><b><u>Hostel Sports day</u></b> – Hostel Sports day was hosts by Hostel Committee from 21<sup>st</sup> March to 22<sup>nd</sup> March 2025. It is a Hostel staff sports competition. Various sports activities such as chess, carroms and other games was conducted.</p> <p><b><u>NCC Sports day</u></b> – NCC Sports day hosts by NCC Cadets from 30<sup>th</sup> March to 31<sup>st</sup> March 2025. Various sports activities such as throwball, volleyball, Athletics, badminton, table tennis, Kho Kho and basketball was conducted.</p> <p><b><u>NITK Staff day 2025</u></b>- The SRC Executive Committee organized a Sports Day for all NITK staff, including both faculty and non-teaching, as well as employees from outsourcing agencies in the month of January and February 2025.</p>
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### NITK and Warrier Foundation Unite for Sustainability Projects and Launch of HEART Hub

NITK Surathkal and the Warrier Foundation formalised their partnership through an MoU to support two sustainability initiatives: AquaWise for Water Management, led by Dr. Pruthviraj, and Waste Management, led by Dr. Vasudeva Madav. During the event, Shri Padmanand Warrier, a distinguished alumnus of the 1981 batch, dedicated the HEART Hub—focusing on Human-centric, Entrepreneurial, Asset development, Recycling & regeneration, and Technology enablement—to the memory of his parents. He highlighted the Hub's mission to leverage AI and allied technologies for sustainable, human-centred solutions on campus. The event, pre-



sided over by Prof. B. Ravi, Director of NITK, also featured the launch of “*Once Upon a Time in KREC*”, a nostalgic book authored by Shri Warriar, celebrating the Institute’s legacy and alumni connections.

### **Once Upon a Time in KREC’ – 1981 Batch Alumni Reunite to Celebrate 43 Years of Memories**



#### **1981 Batch Alumni Reunite to Celebrate 43 Years of Memories**

1981 batch alumni of the National Institute of Technology Karnataka, Surathkal (the then KREC), who are now settled in different parts of the world, gathered in the Institute campus for a memorable reunion on 27th July, 2024. Prof. Saidutta, a prominent '81 batch alumnus, who held several senior administrative positions in NITK, highlighted the collective accomplishments of the batch and dedication to their alma mater. Their support has enabled Biogas plant for kitchen waste processing, E-Mobility and Solar projects, Hydrogen production research, SEARCH facility for disaster management, and many other projects. The batch also donated funds to Kannada Medium Primary School and High School in NITK campus. The event was well attended by the faculty and functionaries of the Institute. They profusely thanked Shri R. Krishnamurthy, a key 1981 alumnus who was instrumental in organizing the alumni meet and gathering their support for the various development projects.

### **NITK Celebrates the Golden Jubilee Reunion of the 1974 Batch**

From 15th to 17th November 2024, NITK Surathkal proudly hosted the Golden Jubilee Celebrations of its 1974 batch, marking 50 years of cherished memories, lifelong friendships, and an enduring bond with the alma mater. The three-day event brought together alumni from across the globe, transforming the occasion into a vibrant celebration of nostalgia, camaraderie, and reflection. On 17th November, a formal stage programme was held at the LHC-C Auditorium on NITK’s West Campus. The Chief Guest for the occasion was Prof. Subhash Yaragal, Deputy Director, NITK, while Prof. Shrikantha Rao, Dean (Alumni & Corporate Relations), graced the event as the Guest of Honour. The gathering also included special invitees Dr. Sudhakar Nayak, Former Director, Dr. K.R. Kamath, Former HoD, and Prof. Uday Bhat, Dean (Research & Consultancy).

In their addresses, the distinguished guests spoke about NITK’s legacy, ongoing developments, and the invaluable contributions of its alumni. A special tribute was paid to the 42 departed batchmates through a touching video compilation by Mr. Muralidhar Shenoy, evoking heartfelt memories as close friends and room-mates shared recollections. After the event, the alumni embarked on a nostalgic campus tour, revisiting the



**A group of 1974 Batch**



campus tour, revisiting the Main Building, Samudra Darshan, LB Hostel Block, and other landmarks, marvelling at the remarkable transformation of their alma mater. In a significant gesture of gratitude and commitment to their alma mater, the 1974 batch pledged their support for the NITK Water+ Mission and the NITK Lake Project, reinforcing their dedication to sustainability and campus development.

### **NITK Celebrates MCA 1999 Batch Silver Jubilee Reunion**

The NITK campus hosted the MCA 1999 batch alumni for their Silver Jubilee Mega Reunion on November 30, 2024. Marking the occasion, the alumni demonstrated their enduring connection to the Institute by donating a Digital Standee to the Department of Mathematical and Computational Sciences (MACS). This contribution reflects their commitment to supporting technological advancements and enriching the academic resources at NITK.

### **NITK Celebrates B.Tech 1999 Batch Silver Jubilee Reunion with support to Campus Infrastructure and Sustainability**

The Silver Jubilee Reunion of the B.Tech 1999 batch was marked by a generous gesture towards enhancing the campus environment and supporting a sustainable future. The alumni donated two elegant swing benches, which now adorn the serene campus spaces, offering students and faculty a perfect spot to unwind and connect. In addition, the batch pledged their support to the *NITK Water Mission*, demonstrating their commitment to addressing critical sustainability challenges. Their contributions underscore the enduring bond between NITK and its alumni, whose efforts continue to inspire and elevate the institution.



*Group of 1999 Batch*

### **1989 Batch commemorates their 35th Reunion with thoughtful contributions to Campus**

The 1989 batch alumni gathered on campus from November 22–24, 2024, to celebrate their 35th year reunion, rekindling cherished memories and their enduring bond with NITK. As a heartfelt tribute to their departed batchmates, the alumni generously donated and installed two sets of stone benches and tables near the Mining Block. Additionally, four more stone benches and a table were



*1989 batch of 35th Reunion with thoughtful contributions to Campus*

benches and a table were placed in the same area, honouring the memory of four batchmates who sadly passed away over the last five years since their previous reunion. This thoughtful gesture stands as a testament to the deep camaraderie and lasting connections fostered at NITK. The

institute extends its gratitude to the 1989 batch for their meaningful contributions, which will serve as a place of reflection and connection for generations to come.

#### **NITK Celebrates 40th Anniversary Reunion of the First Four-Year BE Batch of 1984**

On 30th December 2024, NITK Surathkal proudly hosted the 40th Anniversary Alumni Reunion of its pioneering four-year BE batch of 1984. The event brought together alumni from around the globe, transforming the campus into a vibrant hub of nostalgia, camaraderie, and reflection. The day-long celebration was held on the college premises, which have undergone remarkable transformation over the decades. Prof. Shrikantha S Rao, Dean (Alumni & Corporate Relations), NITK, who played a pivotal role in organising the event, graced the occasion as



*Group photograph of 1984 Batch*

as the Guest of Honour. Prof. B Ravi, Director, NITK, presided over the function as the Chief Guest, joined by other Deans and retired professors who had taught the 1984 batch.

In his address, Prof. Shrikantha S Rao expressed heartfelt gratitude to the alumni for their unwavering support and contributions, highlighting the integral role of alumni in NITK's journey. Prof. B Ravi, in his keynote speech, outlined the institution's recent advancements, including state-of-the-art infrastructure, modern laboratories, an expanded library with digital resources, new academic programmes, dedicated research centres, and a focus on interdisciplinary studies. He also noted NITK's exceptional placement record, with over 90% of students securing high-paying positions, reflecting the institute's growing reputation.

As a special gesture, the alumni felicitated eight professors who had taught the 1984 batch, honouring their enduring impact on the alumni's professional and personal lives. The event also included a nostalgic campus tour, where alumni revisited classrooms, hostels, departments, and recreational areas while marvelling at the new facilities and advancements. The day concluded with a gala dinner, offering a joyous opportunity for alumni to reminisce about their college days and renew old friendships.

### NITK Celebrates 25th Anniversary Reunion of the 2000 Batch

On 4<sup>th</sup> January 2025, NITK Surathkal proudly hosted the Silver Jubilee Reunion of its 2000 batch. The event



brought together approximately 80 alumni from across the globe, transforming the campus into a vibrant hub of nostalgia, camaraderie, and celebration. The day-long event was held on the college premises, which have witnessed remarkable growth and transformation over the years. In his address, Prof. B Ravi, Director, NITK, shared insights into the institution's progress and highlighted several significant initiatives like Mission Water+ project, Student Activity Center etc, that reflect NITK's

commitment

#### *Group of 2000 Batch*

to sustainability and growth. He emphasised the importance of alumni expertise and connections in realising these initiatives, underscoring the vital role of the alumni community in the institute's continued growth and excellence. The alumni also had a special visit to the NITK Central Research Facility (CRF), where they were introduced to cutting-edge equipment and research capabilities that exemplify advanced research and innovation. The day also featured a nostalgic campus tour, where alumni revisited classrooms, hostels, and departments.

### NITK Celebrates the Golden Jubilee Reunion of the 1975 Batch

On 17th and 18th January 2025, NITK Surathkal proudly hosted the Golden Jubilee Reunion of its 1975 batch, marking 50 years since their graduation from the erstwhile Karnataka Regional Engineering College (KREC). The reunion brought together around 60 alumni, accompanied by their spouses, some traveling from overseas, to relive cherished memories and reconnect with their alma mater. The 1975 batch boasts an impressive array of alumni who have excelled across diverse fields, serving as Professors, Defence Officers, Scientists at premier institutions like DRDO and ISRO, Directors in engineering institutions, Entrepreneurs, Chief Engineers, and Consultants in various disciplines. Gripped by nostalgia, the alumni spent quality time exploring the transformed campus, exchanging stories, and reminiscing about their student days. Walking through familiar corridors and revisiting iconic landmarks, they embraced the joy of being students once again.



#### *Group of 1984 Batch with NITK dignitaries*

A formal gathering was held, graced by Prof. B. Ravi, Director, NITK, and Prof. Shrikantha S. Rao, Dean (Alumni & Corporate Relations), NITK, who addressed the distinguished gathering. In his address, Prof. B. Ravi highlighted the significant transformations that have taken place on campus, outlining his vision for the institution's future. He spoke about NITK's commitment to social inclusiveness, environmental relevance, and strengthening its national and global standing, reflecting the institute's ambition for the years ahead. A heartfelt tribute was paid to departed batchmates, honouring their memory and contributions. The reunion was an emotional yet joyous occasion, reinforcing the deep bond between the alumni and their beloved institution. With this, the Golden Jubilee Reunion of the 1975 batch came to a memorable



close, leaving behind a legacy of enduring friendships, shared memories, and a renewed connection with NITK.

**1974 batch pledges valuable support for 'NITK Kere Project' :-**



NITK Surathkal marked a significant milestone in its sustainability efforts with the ceremonial *Bhoomi Pooja* for the *NITK Kere Project* this week. This initiative stems from the generous pledge made by the 1974 batch alumni during their Golden Jubilee Celebrations, held during November 15 to 17, 2024, commemorating 50 years of cherished memories, lifelong friendships, and an enduring connection with their alma mater.

As a testament to their gratitude and commitment to environmental

**Bhoomi Pooja for the NITK Kere Project**

stewardship, the 1974 batch pledged their support for the NITK Water+ Mission via the NITK Lake Project, reinforcing their dedication to sustainability and campus development. The inaugural ceremony was attended by the Director and Deputy Director of NITK Surathkal, along with senior academic administrators, including several Deans and Associate Deans. Distinguished alumni, including Shri Padmanabha Pai, Shri Ganesh Kudva, Shri Appanna Kotari, Shri Vittal Das Prabhu, Shri Prakash Alva, Shri Santhosh Kumar Hegde, Shri Dayananda Surathkal, and Shri Vijay Kumar, graced the occasion. Also present was Shri Niranjana M, President-Elect and Global President of NITKSAA, who reaffirmed the strong ties between the institution and its alumni community.

The *NITK Kere Project* represents a significant step towards creating a sustainable and eco-friendly campus, ensuring responsible water management and environmental conservation. The initiative highlights NITK Surathkal's unwavering commitment to excellence, innovation, and community engagement, further strengthening the lasting bond between the institution and its alumni. Through this collaborative effort, the 1974 batch has set a remarkable precedent for future generations, inspiring continued contributions toward the growth and sustainability of NITK.

### Diamond Jubilee Celebration of the 1965 Batch at KREC (NITK) Surathkal

NITK marked a historic milestone with the Diamond Jubilee celebration of its first graduating batch, the Batch of 1965. Eighteen distinguished alumni from various disciplines gathered at the NITK campus to commemorate the occasion, reconnect with their alma mater, and honour its legacy. The event featured a formal ceremony with Shri K.M. Nirmal Kumar, a distinguished alumnus of the 1965 BE batch, was the chief guest. Prof. B Ravi, Director of NITK, presided over the function, which was graced by esteemed dignitaries, including Shri N.R.



Shetty, Former Principal of KREC, who unveiled the Diamond Jubilee souvenir. Other notable attendees included Prof. Shrikantha S. Rao, Dean of Alumni and Corporate Relations; Shri A.S. Karanth (1970 alumnus); Shri R. Krishnamurthy (1981 alumnus); and Shri Niranjana Mahabalappa, Global President elect of the NITK Alumni Association, along with Deans, HoDs, faculty, staff, and students.

In his address, Prof. B Ravi expressed his deep appreciation for the alumni's presence, underscoring their enduring bond with the institution. He highlighted NITK's recent advancements, including faculty and infrastructure expansion, global outreach, and its commitment to excellence under the "Good to Great" initiative. A nostalgic audiovisual foray on "Journey from KREC to NITK" was presented by Dr. Sowmya Kamath, Associate Dean (Alumni Network). A significant highlight was the distribution of Alumni ID cards to the 1965 batch, a practice now being extended to all alumni to strengthen connectivity. Shri M. Narasinga Rai delivered the vote of thanks, expressing gratitude to KREC/NITK, its founders, faculty, and organizers for shaping their lives and careers. The celebration concluded with a nostalgic campus tour, where alumni and their families revisited hostels, lecture halls, research centers, and the beach, reminiscing about their transformative journey at KREC/NITK.

### NITKconnect 2025.

NITKconnect '25, a flagship event organized by the Bangalore Chapter of the NITK Alumni Association, took place on February 21-22, 2025, in Bangalore. This premier networking event, one of the largest of its kind, drew a distinguished gathering of over 800 participants, including numerous NITK alumni, entrepreneurs, and corporate leaders.

The event featured a stellar lineup of 60+ visionary speakers, who shared their expertise and insights on the theme "Engineer for the World." The program featured CXO Roundtables, Startup Pitching, Sector Huddles and Founder's talk by Sahil Barua (Co-founder & CEO, Delhivery) and Madhusudan E (Co-founder & CEO, KreditBee). The CXO Panel showcased distinguished leaders from Kotak Mahindra AMC, Shell India, The Times of India, and JNK India, discussing India's role in global technology





and business. The event also included sessions on Generative AI, Global Capability Centres (GCCs), Manufacturing Innovations, Deep Tech, and Career Acceleration.

NITK Director Prof. Ravi delivered a keynote address, outlining his transformative vision for making NITK a globally renowned institution. A delegation comprising Prof. Prasanna Belur D, Dean (ACR), Prof. Udaya Bhat, Dean (R&C) and Prof. K. V. Gangadharana, Dean (P&D) from NITK attended the program and had a fruitful interaction with the prominent Alumni.

NITKconnect '25 was a resounding success, solidifying its position as a pivotal platform for the NITK community to converge, innovate, and thrive.

### **Student Upskilling Projects**



Marelli, a global leader in automotive technology, has supported student upskilling projects as part of its CSR initiative to foster innovation in electronic design and emerging technologies. Through hands-on training, undergraduate and PhD students have gained expertise in Log analysis, IMU Algorithms, AI-driven failure analysis, EMC compliance evaluation, AR interface design, etc, during 2023 and 2024. These initiatives not only equip stu-

dents with industry-relevant skills but also facilitate collaboration with industry experts, ensuring alignment with evolving technological demands. The research outcomes contribute to advancements in the field while preparing the next generation of engineers for real-world challenges.

### **Solmelu - Explore Dakshina Kannada Project**

Solmelu has been jointly developed by NITK and Robosoft Technologies Pvt. Ltd. As part of its CSR initiatives. One of the most notable aspects of Solmelu's development is that it was primarily built by students, who brought fresh creativity, coding expertise, and innovative problem-solving skills to the project. They were guided by a team of design and technical experts from Robosoft Technologies, whose mentorship was invaluable in refining the app's architecture and user experience.

Solmelu, a digital platform dedicated to empowering local businesses, is enhancing economic opportunities in the Dakshina Kannada and Udupi regions by providing a space to promote their unique arts, crafts, festivals, and cuisines. The platform not only showcases local businesses but also serves as a valuable data aggregation tool for economically challenged entrepreneurs. Launched at Mangaluru Technovanza, a premier event under KDEM's 'Beyond Bengaluru' initiative on 24th October 2024, Solmelu is driving visibility, accessibility, and growth for local enterprises.



### Hydrogen Fuel Cell and Electrolysis Technology Development project

Petronet LNG Ltd. Generously supported a ground-breaking initiative of Dr. Poornesh Kumar Koorata under their CSR scheme. The project aims to develop a novel Hydrogen Fuel Cell and Electrolysis Technology. Dr. Poornesh has successfully installed the necessary equipment and integrated it to achieve the milestone with the grant of Rs. 40,00,000.00 from Petronet LNG Ltd.

### Upgradation of AEC Lab-Electronics & Communication Engineering Department

The 'Upgradation of AEC Lab' project, supported by AVNET India Ltd, marks a significant milestone in the Electronics & Communication Engineering Department endeavour to provide state-of-the-art research facilities to its students and faculty. The AVNET India Ltd. Supported this initiative by providing a CSR grant of Rs. 10,85,802.00.

### YOGA CENTRE



On June 21, 2024, the 10th International Day of Yoga was celebrated with great enthusiasm and a spirit of well-being at the Yoga Hall of the New Sports Complex. A mass demonstration of the Common Yoga Protocol witnessed the active participation of approximately 350 individuals, including faculty members, staff, students, and research scholars.

The event was coordinated by the office of the Dean (Student Welfare), and all participants were provided with specially designed T-shirts to commemorate the occasion. Prof. A. C. Hegde, Dean (SW), delivered the welcome address, while Prof. T. Laxminidhi, Director (i/c), presented the introductory speech, highlighting the numerous benefits of yoga and its positive impact on overall well-being.



Yoga Guru Shri Radhesh Mohandas led the session, demonstrating various yogic postures as per the Common Yoga Protocol recommended by the Ministry of Education, Government of India. He not only guided the participants through different asanas but also explained their benefits, along with the significance of pranayama techniques. The session began with Suryanamaskar, followed by a comprehensive demonstration of standing, sitting, supine, and prone position asanas. He also elaborated on the holistic approach of yoga and its effectiveness in managing hypokinetic diseases prevalent in modern society.

The two-hour session left participants feeling relaxed and rejuvenated. It concluded with the chanting of the Shanti Mantra and a brief meditation, fostering a sense of peace and mindfulness among all attendees. Prior to the International Day of Yoga (IDY) 2024, NITK organized a Yoga practice camp from May 31 to June 14, 2024, under the guidance of Yoga Guru Shri Radhesh Mohandas. The camp witnessed regular participation from around 50 faculty members, staff, their family members, and students, who actively engaged in the sessions held daily from 5:30 p.m. to 6:30 p.m..

As part of the celebrations for IDY 2024, a Surya Namaskar competition was held on June 18, 2024, at the Yoga Hall of the New Sports Complex. Participants were challenged to complete 30 rounds of Surya Namaskar within 30 minutes during the event, which took place from 4:00 p.m. to 5:00 p.m. The winners of the competition were honored during the IDY 2024 celebrations by Prof. T. Laxminidhi, Director (i/c), and Prof. A. C. Hegde, Dean (Student Welfare), in recognition of their dedication and exceptional performance.

#### **International Day against Drug Abuse and illicit Trafficking on 26-6-2024**



As per the guidelines of the Ministry of Education, Government of India, the International Day Against Drug Abuse and Illicit Trafficking program was conducted by NITK Surathkal on June 26, 2024, to achieve the vision of a Drug-Free India. The program took place at the NITK Main Seminar Hall at 11:00 AM, with the participation of more than 100 students, along with faculty and staff members

Prof. A. C. Hegde (Dean, SW) highlighted the significance of the program and urged the student community to join hands in the mission of creating a Drug-Free India. He also administered the pledge to students in English, while Prof. T. Laxminidhi (Dean, FW) led the pledge in Hindi, and Shri K. Ravindranath (Registrar) in Kannada. The program concluded with a vote of thanks.



#### **Partition Horrors Remembrance Day 2024**



In accordance with directives from the Ministry of Culture, Government of India, NITK Surathkal observed Partition Horrors Remembrance Day on August 14, 2024, at the Main Seminar Hall at 10:00 AM. The event aimed to honor the victims and acknowledge the profound suffering caused by the Partition of India. As part of the observance, NITK Surathkal organized a special lecture and various activities to reflect on the tragic events and pay tribute to the resilience of those affected.



The chief guest for the event was Dr. Vijayalaxmi Neralakodi, Head of the Department of History at Govinda Dasa College, Surathkal. The function was presided over by Prof. Subhash C. Yaragal, Deputy Director of NITK Surathkal.

#### **Orientation Programme 2024**

The National Institute of Technology Karnataka (NITK), Surathkal, commenced its Orientation Programme for newly admitted students at the Silver Jubilee Auditorium (SJA). The programme for undergraduate (UG) students is scheduled from August 19 to 31, 2024, while the orientation for postgraduate (PG) students took place on August 16-17, 2024.



The event began with a formal welcome address by the Director, Prof. B. Ravi, who extended a warm welcome to the students and their parents. This was followed by insightful presentations from the Director, Deans, Head of the Departments and other key functionaries, providing an overview of the institute's academic framework, administrative processes, and campus culture.

In his address, Prof. B. Ravi congratulated the students on their achievements and encouraged them to strive for excellence in their academic and professional pursuits. Prof. A.C. Hegde, Student Welfare Dean, introduced students to the institute's vision, mission, and various student-led clubs, societies, and extracurricular activities that promote skill development and personal growth. The primary objective of the Orientation Programme is to familiarize students with NITK's academic and administrative systems while introducing them to campus life and available facilities.



The orientation programme includes sessions covering the academic curriculum, extracurricular and co-curricular activities, examination policies, library resources, hostel facilities, health and wellness support, sports and cultural engagements, anti-ragging measures, and the student grievance redressal system. Additionally, students will have opportunities to interact with their seniors, mentors, and faculty members, fostering a sense of community and belonging at NITK.

Designed to ensure a smooth transition into higher education, the Orientation Programme equips students with the knowledge and resources needed to thrive in NITK's dynamic academic and research environment.

## Engineer 2024



The annual technical symposium of the National Institute of Technology Karnataka (NITK) Surathkal, **Engineer 2024**, was celebrated from **October 18th to October 20th, 2024**. The event commenced with the traditional lighting of the lamp. The Inauguration Ceremony was graced by esteemed dignitaries, including Deputy Director Prof. Subhash C. Yaragal, Dean of Students' Welfare Prof. A. C. Hegde, the distinguished Chief Guest Shilpa R., Guest of Honour Prakash, Convenor of Engineer 2024 Dhanush Billar R., Professor-in-Charge of Engineer and the Technical Committee S. B. Arya, along with members of the Student Council.

## Events and Competitions



Engineer 2024 featured a diverse range of events, workshops, and gaming competitions, offering participants opportunities to explore and showcase their technical and creative skills. Some of the key events included **Model United Nations (MUN)**, **TECHNITES 2024**, **Ring Spinner Battle Bot**, **Laser Shooting Game**, **Wright Flight Competition**, **TRONIX Events**, **Interactive Dance Game**, **Memory Game**, **Infinite Cube**, **Voice Modulator**, **Bridge the Gap Competition**, **Robo Soccer**, **ENGI Talks**, etc.,



The highly anticipated **Proshow**, the final event of **Engineer 2024**, delivered a spectacular conclusion to the fest. For the first time at **ENGINEER NITK**, a unique dome-structured stage was erected, equipped with **top-of-the-line JBL speakers**, creating an immersive audio experience. The event was further enhanced by **impressive fireworks**, **confetti showers**, and **well-coordinated special effects (SFX)**.

The **Proshow** featured two main acts **Thamarassery Churam**, a popular band known for their captivating performances and **Carnivore**, a dynamic DJ artist who kept the energy high.

## ENGI CARE: A Community Outreach Initiative

**Engi Care** was a commendable **community outreach initiative** undertaken by the **ENGINEER 2024** team, demonstrating their commitment to social responsibility. This program involved several impactful activities:

- **Knowledge Sharing at Schools:** The team visited schools such as **JNV and KV** to share insights in **computer science** with students.
- **Donation Drive for Beach School:** A donation drive was organized to support a local **beach school**, promoting education and welfare.
- **NITK Lab Visit for Students:** Students from various colleges were invited to visit **NITK's advanced labs**, providing them with valuable exposure to cutting-edge research and technology.

**Engineer 2024** successfully brought together innovation, creativity, and community engagement, leaving a lasting impact on all participants and attendees.

## INCIDENT 2025



The inauguration of Incident '25, the 44th annual cultural festival of NITK Surathkal, commenced with great enthusiasm under the theme "Udbhav: The Rhythm of Timeless Essence." This three-day celebration of student talent and cultural diversity was graced by esteemed dignitaries, including Chief Guest Dakshina Kannada MP Captain Brijesh Chowta, Guest of Honor and former MLC Captain Ganesh Karnik, Director Prof. B Ravi, Dean (SW) Prof. A.C. Hedge, and PIC Bijuna C. Mohan.

Attended by faculty, students, and non-teaching staff, the ceremony underscored the festival's significance in fostering both technical and creative excellence. With over 50 events spanning music, dance, literature, sports, and more, the grand inauguration set the stage for an exhilarating and immersive festival experience.

The Town Hall session featuring Alok Ohrie, CEO of Dell India, was one of the most anticipated events at Incident '25, offering NITK students a rare opportunity to interact with a distinguished leader in the technology industry. Designed to bridge the gap between academia and the professional world, the session provided valuable insights into the evolving tech sector, career growth, and leadership, inspiring students to navigate their future with confidence.







A plethora of competitions took place throughout the three-day festival, spanning diverse domains such as music, dance, sports, literature, business, fashion, drama, and more. These events provided participants with a platform to showcase their talents, creativity, and competitive spirit, making Incident '25 a truly dynamic and immersive experience.



#### Club Events: Kannada Vedike

##### HUDUGATA HUDUKATA - TREASURE HUNT

On September 29, 2024, Kannada Vedike organized an exciting treasure hunt event, Hudugata Hudukata, designed for B.Tech, PG, and Ph.D. 1st-year students. The event had 500+ participants who showcased teamwork, campus exploration, and cultural learning. It also provided an opportunity for students from other states to learn basic Kannada, making it easier for them to navigate daily interactions inside & outside the campus.





#### KANNADA KALARAVA - SCHOOL VISIT PROGRAM

On October 28, 2024, Kannada Vedike volunteers visited NITK Kannada Medium School and Government School, Surathkal, engaging students through interactive sessions and fun activities. The initiative aimed to educate, inspire, and strengthen their connection with Kannada language and culture.

#### PARVA 2024

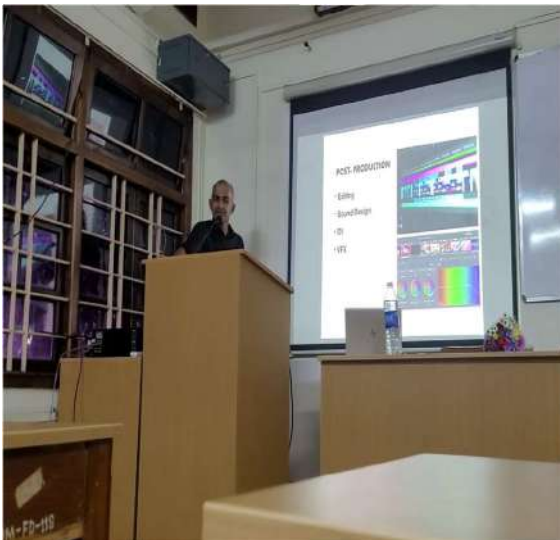
The Kannada Rajyothsava celebrations began on November 8, 2024, with a grand inauguration featuring a lively flash mob. A procession of Goddess Bhuvaneshwari Devi followed, drawing over 500 students and showcasing Karnataka's rich traditions. On November 9, an electrifying music concert featuring Savaari Band and the NITK Music Club energized over a thousand students and staff, making for an unforgettable evening.



November 10 saw a traditional Karnataka-style lunch, where ₹30 from each food coupon was donated to the Shri Sharada Blind Association, Mangalore, fostering social responsibility. Later, NITK's Ethnic Day brought students together in traditional attire, leading to the Main Event, graced by actors Shri Naveen Shankar and Shri Kiran Raj. The evening ended on a high note with stand-up comedy by Shri Shravan and cultural performances by NITK students.

## Film Club

The NITK FilmFest, is club's flagship event, was grander than ever this year. With the theme "The Colors of Cinema," the four-day extravaganza featured exciting events, competitions, workshops, and screenings, captivating the entire NITK student community. This year, the movie-watching experience was enhanced with high-quality 20×10 ft LED screens and JBL speakers, providing immersive sound and visuals. The lineup featured films from various languages, including Kannada, Hindi, Telugu, and English, making it a truly diverse cinematic experience



Renowned filmmaker Shishir Rajmohan, known for his work in *Ulidavaru Kandante* and the upcoming film *Abracadabra* starring Ananth Nag, conducted an insightful workshop on filmmaking. He shared his expertise through real-world examples, making it a one-of-a-kind learning experience for the filmmakers.

A major highlight of FilmFest was the panel discussion with the creators of *Ekam*, featuring industry professionals who shared their insights on filmmaking. The panel included: **Sandeep PS** – Writer, Showrunner, **Sumanth Bhat** – Writer & Director, **Bhuvanesh Manivannan** – Editor, **Ashwin Anand** – Director of Photography (DOP), **Sankar Gangadharan** – Director



### **Genesis Club**

Geniss Club organized flash mobs at various technical and cultural events of our Institute, bringing together enthusiastic participants to deliver energetic and engaging performances. These flash mobs not only showcased creativity and teamwork but also captivated large audiences, adding vibrancy to the events. The Genesis team, consisting of 17 dancers, represented NITK in the group dance competition organized by the Institute of Technology, Karkala. Their impressive performance earned them 3rd place in the competition



The Genesis team, consisting of 17 dancers, represented NITK in the group dance competition organized by the Institute of Technology, Karkala. Their impressive performance earned them 3rd place in the competition." The Genesis team, consisting of 12 dancers, represented NITK in the group dance competition organized by the Canara Engineering College team Aakrit, Mangalore. Their outstanding performance secured them 2nd place in the competition.



## SMILE Club

Smile Club team organized a pantomime show on the theme "**Peace of Mind vs. Pieces of Mind**" and hosted **Dr. Vishal Kaushal** as a speaker at the **Silver Jubilee Auditorium (SJA)**.

On **1st March 2025**, Smile Club hosted **Aadiparampara**, a flagship event celebrating Indian heritage through traditional games, ancient arts, and engaging competitions.



The event fostered a deep connection with our epics and customs, bringing students closer to the richness of our culture. It commenced with an **Inauguration Ceremony** on **28th February**, featuring **Lamp Lighting** and a **Leadership Sutras Talk**. Various activities followed, including **Kridotsav**, showcasing traditional Indian games; **Vastra Mahotsav**, an ethnic fashion showcase; **Aakriti**, a painting competition; **Kurukshetra 2.0**, a quiz competition; **Chakravyuh**, an exciting treasure hunt; and **Rasamaya Manjari**, a delightful culinary experience with food stalls and challenges.

## IE Club



IE NITK hosted a series of dynamic events covering data visualization, robotics, AI, structural engineering, cybersecurity, and problem-solving challenges. The Back to School Series featured RoboRise: Evolution Game (July 13-14, 2024), where participants designed robotic lifeforms for Mars, and Structurovate 2024, a civil engineering challenge. Clash of T-AI-Tans (August 3-10, 2024) brought AI enthusiasts together for a Computer Vision hackathon with a ₹2 Crore prize pool. Bot Soccer (October 18-20, 2024) tested participants' robotics and strategic gameplay skills.

Bridge-The-Gap (October 20, 2024) challenged teams to construct load-bearing bridges using ice cream sticks. The ENGI 24-Hour Hackathon (October 18-19, 2024) focused on Generative AI and Quantum Computing for banking and finance. An Introduction to Cloud and AWS (October 25, 2024) provided hands-on cloud computing experience. King of the Hill (KOTH) 2024 (November 10, 2024) engaged participants in an escape room-style puzzle challenge.



SeaTF 2025 (March 10-12, 2025) was a 36-hour cybersecurity competition with 140 teams tackling ethical hacking and cryptography. Enigma 2025 (March 3-5, 2025) tested the Batch of 2028's problem-solving and teamwork through strategic challenges. These events fostered technical skills, innovation, and collaboration, providing hands-on learning experiences in cutting-edge fields.



### **Utkrishta Bharath**

Flagship Event of Utkrishta Bharat on 03-03-2025 to 05-03-2025

Day 1: Kalaripayattu Show (3rd March) – The Ancient Martial Art Comes Alive. The event kicked off with a spectacular Kalaripayattu performance, showcasing one of the world's oldest martial arts, deeply rooted in Indian tradition and self-discipline.

Day 2: Movie Screening (4th March) - Tanhaji – Reconnecting with Our Cultural Roots. The second day featured a special movie screening, carefully selected to highlight themes of Indian history, civilization, and nationalism.

Day 3: Itihasa, What If, and Pick & Speak Competitions (5th March) – A Battle of Ideas. The competitions witnessed enthusiastic participation, fostering critical thinking, public speaking skills, and a deeper understanding of India's historical and cultural landscape.



Artists' Forum



On January 18th, Artists' Forum's flagship event, UDAAN, was celebrated at NITK Beach, marking Makar Sankranti with vibrant festivities. The event featured kite flying, sand art competitions, and various stalls for tattoos, mehendi, hair braiding, and camel rides, drawing over 5000 attendees. The sky came alive with colorful kites, while games like Tug of War and Twister added to the excitement. Artists' Forum members showcased their talents through creative stalls, and the highlight of the event was the life-size UDAAN letters and themed photo booths, enhancing the festive spirit against the scenic beach backdrop.

Every year, the Artists' Forum transforms the walls of NITK with creative murals, and this year's theme, **Sports**, is being brought to life on the swimming pool walls opposite the basketball court. The project, inspired by NITK's talented athletes, features seven panels, with four nearing completion. The artwork highlights various sports, starting with swimming, followed by chess, and volleyball—paying



homage to the anime *Haikyuu*. Future panels will showcase popular sports like basketball and badminton, celebrating the passion and excellence of NITK's sporting community.



### Music Club:

The NITK Music Club had an eventful 2024-25 academic year, organizing three flagship Music Nights—Overture, Unplugged, and Reminiscence—along with performances at major events such as Engineer 2024, Kannada Vedike's Parva, Incident 2025, and other collaborations with campus clubs. The club performed at the Pro Show Stage during Incident and hosted music competitions like Bandish and Raaga Rhapsody.

Additionally, MC performed at NITK STEP's 30th anniversary and Udaan by Artist's Forum. Members also participated in Battle of Bands competitions across South India, securing top positions at Adrenaline (Father Muller Medical College), Ragam (NIT Calicut), and Incridea (NMAMIT NITTE), achieving a complete sweep at the latter. With nearly 80 members covering a diverse range of musical styles, the club remains a vibrant part of NITK's cultural landscape and looks forward to continued collaborations and performances.



### Hindi and Sanskrit Club



Hindi and Sanskrit Club at NITK has organized events like: Chakravyuh Quiz – Conducted during Hindi Pakhwada 2024, this quiz focused on topics related to Hindi literature, culture, and general knowledge.

Story Narration Competition – A platform for participants to showcase their storytelling skills in Hindi or Sanskrit

Open Mic – Held on Independence Day (15th August 2024), this event allowed students to express themselves through poetry, speeches, and music.

### BAJA NITK Racing

Team BAJA NITK Racing had a remarkable journey in 2025, beginning with a successful presentation of its design and business plan at the preliminary round of BAJA SAEINDIA in July. From June to October, the team focused on iterative improvements using advanced simulation tools and submitted its refined design for Phase 2. In October, the team showcased its past and new vehicle models at NITK's Technical Fest Car Expo, engaging with faculty and industry professionals.



The transition from design to manufacturing took place from October to February, involving precision fabrication and rigorous testing of subsystems. March saw the team hosting a Buggy Expo at INCIDENT, attracting motorsport enthusiasts, and competing at ATVC 2025 at IES University, Bhopal. A major highlight was successfully clearing the Technical Inspection for the first time post-COVID and securing 2nd place in the Business Presentation, demonstrating strong market analysis and sponsorship strategy. The achievement was celebrated with faculty members, including Dr. AC Hege (Dean SW), Dr. SB Arya (Professor-in-charge Technical Clubs), and Dr. Sumanth G (Faculty Advisor), marking a proud moment for Team BAJA NITK Racing.



## TEDx

TEDxNITK Surathkal's flagship event, *Alchemy*, was held on February 15, 2025, at the SJA Auditorium, NITK Surathkal, starting at 5:30 PM. Months of meticulous planning culminated in an evening of thought-provoking talks and dynamic discussions, featuring distinguished speakers from diverse fields.



The lineup included Lt Gen Neeraj Varshney, Anil Chhikara, Asha Bhat, Lakshmi R Iyer, Radhika Rajpal, Raghav, and Thaj, each sharing unique insights that resonated with an engaged audience of students, faculty, and participants.

Leading up to *Alchemy*, TEDxNITK Surathkal hosted two TEDxSalon events, fostering dialogue on contemporary issues and sustaining engagement within the TEDx community. The seamless execution of *Alchemy* highlighted the dedication and collaborative spirit of the organizing team, partners, and volunteers.

## DRAMATICS DESIGN AND FASHION CLUB

First event was the 14th August Partition Day Play, a poignant theatrical portrayal of the Partition of 1947, capturing the emotions, struggles, and resilience of those affected. This was followed by Rangmanch'25, an inter-branch street play competition on 21st September at ADKE Circle, aimed at raising awareness about social issues through drama. To foster creativity and bonding among first- and second-year students, we introduced the NITK Fashion Competition on 2nd October at the Silver Jubilee Auditorium, providing a platform for self-expression through fashion. Continuing the festive spirit, we hosted Dandiya Nights on 4th October at the Old Sports Complex, celebrating Gujarati culture and encouraging student interaction beyond academics



Representing NITK at an intercollegiate level, the DDFC dramatics team participated in a prestigious drama event at NIT Calicut's cultural fest, Ragham, on 21st February 2025, strengthening our ties with the broader theatre community. Finally, as part of Incident, one of India's grandest cultural fests, we hosted four major events, including Haute Couture, an intercollege fashion show on 9th March at the Student's Activity Centre, and Nukkad Natak, a street play competition promoting social awareness on 8th March in front of the

Chemical Department, further showcasing artistic and dramatic excellence at NITK.

### **Bharat Darshan:**

Bharat Darshan is a platform that celebrates unity in diversity, embracing India's rich cultural heritage, dance forms, dialects, folktales, cuisines, and geographical landscapes. Despite our differences, we stand as one nation, striving for a more peaceful and compassionate world.

This event serves as a stage to embark on a journey toward cultural greatness, where teams from various states come together to showcase their unique traditions, history, and artistic expressions. To commemorate Republic Day and honor the spirit of our land, Bharat Darshan will be organized as a grand competition, allowing teams representing different Indian states to present their traditional dance forms, folktales, and attire. This vibrant celebration of India's cultural richness was on the 26th of January 2025 at the Silver Jubilee Auditorium.



### **Finance and Business Studies Club**

Reverse Shark Tank brought a hilarious twist to the classic pitch competition, where teams presented absurd, impractical product ideas with humor and creativity, aiming to convince “investors” of their billion-dollar potential. Marketing Chronicle tested participants' quick thinking as they crafted compelling pitches for random products on the spot, relying solely on wit and persuasive skills. IPL Auction 2025 combined cricket knowledge and strategic planning, challenging teams to excel in an IPL-themed quiz and an intense player auction with a virtual budget of 100 Crores. Business Quiz was a fast-paced competition assessing participants' expertise in marketing, finance, and corporate affairs through rigorous rounds, rewarding sharp analytical thinking and business acumen. Each event celebrated creativity, strategy, and spontaneity, making them standout experiences filled with excitement and engagement.





## **SPICMACAY**

SPICMACAY, a voluntary youth movement promoting India's intangible cultural heritage, has a rich history of over 20 years at NITK, organizing prestigious events such as the SPICMACAY 27th National Convention and multiple Virasat and Yatra programs. Among its diverse artistic expressions, Dasavatharam a Bharatanatyam recital on September 24, 2024, captivated audiences with a mesmerizing portrayal of Lord Vishnu's ten incarnations. Seetapaharana, a Yakshagana performance on October 23, 2024, directed by Shri Keremane Shivananda Hegde, enthralled over 800 attendees with its dramatic retelling of Sita's abduction from the Ramayana.



A Mridangam Workshop on March 3, 2025, led by Sandheep R., introduced participants to the rhythmic intricacies of this classical percussion instrument. Aradhana 2025, the annual flagship event from February 5-7, 2025, brought together over 800 students from 15 schools, featuring competitions like Poster Making, Patriotic Singing, Face Painting, and Rangoli, alongside classical dance and music performances. Naadamrita, a social media campaign, honored legendary classical musicians such as Lalgudi Jayaraman, M.S. Subbulakshmi, and Palghat Mani Iyer, spreading awareness about their contributions. Looking ahead, SPICMACAY NITK will host a Carnatic Concert by Vid. Vivek Sadasivam on March 25, 2025, celebrating the legacy of Muthuswamy Dikshitar's Shishya parampara, and in April, a Kathakali recital, showcasing the vibrant storytelling traditions of Kerala's classical dance-drama. Through these initiatives, SPICMACAY continues to preserve and promote India's rich artistic heritage, fostering cultural appreciation among students and art enthusiasts alike.

### The Amateur Astronomy Club



A guest talk by Dr. P. G. Diwakar offered insights into ISRO's timeline and future. Outreach initiatives included Sci Tutor Sessions at NITK Kannada Medium School. Future plans include a Starry Night session during Incident Fest and Astrofest, the club's flagship event in March 2025.

The Amateur Astronomy Club (AAC) at NITK organized various events in 2024-25, including an ISRO Internship Talk, Physics Forums on extraterrestrial intelligence, a Summer Mentorship Program, and National Space Day celebrations. AAC recruitments onboarded 30 new members through a structured selection process. Events like World Space Week, ENGINEER Fest activities—including the Antariksh Exhibition, Stargazing Sessions, Astrophotography Competition, and Sci-Fi Writathon—provided interactive experiences.



### Yoga Club

The Yoga Club of NITK Surathkal successfully organized a range of events in 2024-25, promoting physical and mental well-being, mindfulness, and community engagement. Key initiatives included a Treasure Hunt for first-year students, a Yoga Competition, the transformative Inner Engineering Program, and the Swabhav 11-day yoga challenge. Beach Games and Coastal Calming sessions provided a blend of relaxation and fitness, while the Beach Cleaning initiative, in collaboration with NSS, reinforced environmental responsibility. With expert-led sessions, collaborative programs, and outreach activities, the club fostered a culture of holistic wellness on campus. Looking ahead, the club remains committed to organizing impactful events that enhance self-discipline, mindfulness, and community spirit.



### NITK Racing



Ignis, the flagship event of NITKRacing Electric, introduced first-year students to Formula Student engineering through a 24-hour Design-a-thon, where teams designed a race-ready endurance electric vehicle. The event began with a Knowledge Exchange Program (KEP), featuring interactive sessions on EV technology and race car design, followed by a Quiz Round to shortlist top teams. During the Design-a-thon, participants focused on powertrain selection, engineering analysis, and optimization strategies under time constraints. The top teams presented their concepts to a panel of judges, justifying their design choices and tackling real-world engineering challenges, culminating in the selection of the winning team.

### ROTARACT Club:



From August 2024 to February 2025, Rotaract club organized several impactful events promoting community service and engagement. Club renewed collaboration with Rotaract Manipal through an online Letter Head Exchange (05/08/2024) and celebrated Rakshabandhan (19/08/2024) by tying handmade rakhis to our campus security guards. An NGO visit with Rotaract Manipal (01/09/2024) brought joy to orphaned children in Udupi, while Charter's Day and Teachers' Day (05/09/2024) allowed us to connect with Rotary Surathkal members. Project Pragathi (11/09/2024) was launched to provide English-speaking classes for underprivileged students.

Environmental efforts included Beach Clean-up Drives (22/09/2024 and 02/10/2024) under Coast-to-Coast 3.0. Verdict (29/09/2024 and 01/10/2024) engaged freshers in an interactive mystery game, and our visit to Jeevan Asha Trust (13/10/2024) brought warmth to elderly residents. The Installation Ceremony (28/10/2024) welcomed new office bearers, and a Blood Donation Camp (25/01/2025) encouraged community-driven health initiatives. Club also hosted a Club Games Night (30/01/2025) for freshers and collaborated with SIGHT, IEEE NITK for a visit to Krishnanugraha NGO (08/02/2025), spreading joy among orphaned children.





## 10.10 Hostels

National Institute of Technology Karnataka, Surathkal (NITKS) is an autonomous Institute of the Government of India under the Ministry of Education imparting technical education. National Institute of Technology Karnataka, Surathkal is one of the “**Institutes of National Importance**” declared under the NIT Act – 2007 (Act No.29 of 2007). The NITK Hostel Trust looks after NITK Hostel activities.

All students including foreign students are accommodated in hostels as per the following details:

Total number of boys’ hostel = 13

Total number of girls’ hostel = 06

Total capacity for boys = 4436

Total capacity for girls = 1335

Sl. No.	Block	No. of Students	No. of Rooms
1	Karavali (Block-1)	213	77
2	Aravali (Block-2)	226	80
3	Vindhya (Block-3)	252	130
4	Satpura (Block-4)	155	129
5	Nilgiri (Block-5)	164	247
6	Pushpagiri (Block-PG)	293	149
7	Brahmagiri (Block-PG New)	492	464
8	Sahyadri (Block-7)	315	158
9	Trishul (Block-8)	235	157
10	Everest (Mega Tower- 1)	487	507
11	Himalaya (Mega Tower- 2)	501	510
12	Kailash (Mega Tower- 3)	503	504
13	Shivalik (Block-11)	600	200
14	Ganga (GH -1)	60	39
15	Kaveri (GH-2)	98	49
16	Yamuna (GH-3)	276	153
17	Sharavathi (GH-4)	262	331
18	Netravathi (GH-5)	244	253
19	Godavari (GH-6)	395	212
<b>Total</b>		<b>5771 (B- 4436, G- 1335)</b>	

Eighteen rooms in Brahmagiri (PG New) have been furnished with basic necessities and have attached washrooms. These are allotted to guests and workshop/conference participants.

### 1. Hostel Mess:

There are 11 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 the girl's hostel and four vegetarian messes and five non-vegetarian messes are running in the 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

S.No.	Name of the Mess
1	Karavali ( Block-1 Non Veg)
2	Aravali (Block-2 Non-Veg))
3	Vindhya (Block-3 Non-Veg-Outsource)

4	Satpura (Block-4 Non-Veg-Outsource)
5	Nilgiri (Block-5 Non-Veg-Outsource)
6	Pushpagiri (Block –PG Veg -Outsource)
7	Sahyadri (Block-7 Veg )
8	Thrishul (Block-8 Veg-Outsource)
9	Mega Block Mess (Veg-Outsource)
10	GH I Mess , Ground Floor (Veg-Outsource)
11	GH II Mess , First Floor (Non Veg-Outsource)

All messes are managed by Hostel Administrative, with active participation of the Quality and maintenance Wardens and Student Mess councillors for preparation of the menu and other issues. Monthly mess bill accounts are audited by verifying the mess cards, stock sheets, 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 is adopted to avoid the rate difference problem of various messes.

Total mess membership varies every month. Out of the 11 messes Vindhya (Block-3), Satpura (Block-4) mess, Nilgiri (Block-5) mess, Trishul (Block-8) mess, Pushpagiri (Block-PG) mess, Mega Mess (Chaitanya) and Girl's hostel messes are outsourced to private mess contractors.

#### **Hostel Amenities:**

During this academic year the cable TV facility has been extended to all the hostels. All the Hostel Rooms (Boys and Girls) have continuous high speed uninterrupted internet facilities to carry out their studies and research.

#### **Hostel Activities:**

##### **Crescendo Committee**

Crescendo, a committee which organizes co-curricular activities for the students, is managed by a group of elected students from the hostel representatives. Crescendo Committee is organized "AURORA '24" cultural event in Silver Jubilee Auditorium (SJA) on 2<sup>nd</sup> October 2024, which attracted many students from various branches for the competitions. The winners were awarded with attractive prizes and certificates.



Aurora 2024

### Phoenix committee



The Phoenix Committee is another student's committee which looks after the sports activities for the residents of the hostels and provides indoor game facilities to them. Phoenix is managed by a group of elected students from the hostel representatives. The phoenix recreation committee organized the Fresher' Cup on October 25<sup>th</sup> to 27<sup>th</sup> 2024, Inter Block Tournament February 27<sup>th</sup> to March 2<sup>nd</sup> , 2025. All the events attracted many students from various branches for the competitions. The winners were awarded with attractive prizes and

certificates.

Freshers' Cup

### **Hostel Day Celebrations – 2025**

The Hostel Day was celebrated with great enthusiasm and active participation on the **27th and 28th of March 2025**. This two-day celebration brought together hostel residents, faculty, staff, and their families in a joyful and vibrant atmosphere filled with cultural expression and community bonding.

Day 1: Cultural Evening

**Date:** 27th March 2025 (Thursday)

**Time:** 4:00 PM – 9:00 PM

**Venue:** Student Activity Centre (SJA)

The first day of celebrations began with a formal function, followed by a variety of cultural performances by hostel students and staff. The event was graced by **Sri Mahesh Prasad, Inspector of Police**, who attended as the **Chief Guest**. The function was **presided over by the Director, NITK Surathkal**.

Also present on the occasion were:

**Prof. A.C. Hegde**, Dean (Student Welfare)

**Prof. Pushparaj Shetty D**, Professor In-charge of Hostels

**Mr. Koushik H. Nayak** and **Ms. Gayatri Reddy**, Hostel Advisors

The dignitaries addressed the gathering and appreciated the efforts of the hostel community in organizing Hostel Day. Interbranch Dance competition was held after the formal function, which was attended by a large number of students, faculty, staff and their family members.

### **Day 2: Musical Night & Community Dinner**

**Date:** 28th March 2025 (Friday)

**Time:** 6:00 PM – 10:00 PM

**Venue:** Old Sports Ground

The second day featured a lively **Musical Night**, followed by a **Community Dinner**. The event was open to all hostel residents, NITK faculty, staff members, and their families. The performances created a festive mood among the NITK community.





#### Hostel Day Programme

##### Task Force

Task Force is a platform for students to showcase their talent in administrative work at NITK Surathkal. It has been instituted in NITK Hostel Administration to serve the well-being of all students. The members of the task force are elected by the hostel representatives. At the time

of new admissions, the Task Force team will organize a Help Desk to guide newly admitted students regarding the room allotment and mess allotment procedures. The Task Force team conducted a Passport Mela for the students. One of the projects of the Task Force is RRR (Reuse, Recycle, Reduce), which involves refurbishing abandoned bicycles on campus. These bicycles are then made available for use by the students.

#### **Mess Concession Scholarship:**

Mess Concession scholarship is offered to residents, who need financial assistance to continue their studies in the Institute. This financial assistance will be managed by the fund raised by the contribution from the hostellers i.e 20/- per semester along with hostel mess fees. The concessions are granted based on the information furnished by the individual applicants in the prescribed applications. The mess concession grantee must be regular in attendance and would have shown good performance in academics. The amount granted above will be credited to the mess bill account of the respective student, and will not be paid in cash.

#### **Celebrations:**

Several festivals like Holi, Diwali and Ganesh Chaturthi are celebrated by hostellers. The expenses were managed by the fund raised by contribution i.e `70/- from the hostellers.



Ganesh Chaturthi Celebration



Diwali celebration



Holi Celebration

#### **Medical Emergency:**

During the year under report, Medical Relief to the tune of ₹8,43,283/- 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 outpatient treatment. Each student is eligible for medical reimbursement up to `25,000/- per annum.

#### **Hostel Automation:**



To improve the accounting process, computerization of accounts in the hostel has already been initiated. A new website and hostel model has been developed for the room booking and mess selection for the students. Using this new hostel portal students can book the room and mess of their choice online. Students are not required to be physically present in the hostel office to get the rooms and mess as it was done previously.

To receive feedback related to messes and maintenance issues, online complaint registration system is also initiated.

**Auditing:**

All the accounts of the hostels are duly audited by a Chartered Accountant every year.

**Laundry Facility:**

A Laundry Facility was established in Mega Tower II (Himalaya) of the NITK Hostels for the benefit of the students. The laundry facility was a total of 24 Lakh project which was funded by Karnataka State Minerals Corporation Limited, Bengaluru under the Project entitled "Laundry Facility in the Hostels of NITK Surathkal".

**Seven bicycles left by the passed-out students were handed over to the students of NITK Kannada Medium High School.**

**Hostel Office Bearers:**

Prof. Pushparaj Shetty D, is the Professor in-charge, Hostels, NITK Surathkal. Presently, the following faculty members are rendering their services as wardens in different Hostel Blocks as mentioned against their names:

- |                                     |                                       |
|-------------------------------------|---------------------------------------|
| 1. Dr. Pushparaj Shetty D           | : Professor In charge Hostels         |
| 2. Dr. Ramesh M. R.                 | : Finance Warden                      |
| 3. Dr. Dr. Sridhar G                | : Karavali (Block-1)                  |
| 4. Dr. Dr. J Vijaya Vengadesh Kumar | : Aravali (Block-2)                   |
| 5. Dr. Mandeep Singh                | : Vindhya (Block-3)                   |
| 6. Dr. Ravi Raushan                 | : Satpura (Block-4)                   |
| 7. Dr. Preetham Kumar G V           | : Nilgiri (Block-5)                   |
| 8. Dr. Dr. A. S. S. Balan           | : Sahyadri (Block-7)                  |
| 9. Dr. Prajof P                     | : Trishul (Block-8)                   |
| 10. Dr. Bijay Mihir Kunar           | : Everest (MT-1)                      |
| 11. Dr. Jothi Ramalingam            | : Everest (MT-1)                      |
| 12. Dr. Mruthyunjaya Swamy K B      | : Himalaya (MT-2)                     |
| 13. Dr. Dharavath Kishan            | : Himalaya (MT-2)                     |
| 14. Dr. Gopalakrishna B.V           | : Kailash (MT-3)                      |
| 15. Dr. Dr. Nikhil K.S              | : Kailash (MT-3)                      |
| 16. Dr. P. Parthiban                | : Pushpagiri (Block-PG)               |
| 17. Dr. Sushil Kumar Pandey         | : Brahmagiri (Block- New PG)          |
| 18. Dr. Selvakumar Murugesan        | : Brahmagiri (Block- New PG)          |
| 19. Dr. Dr. Md Waseem Ahmad         | : Shiwalik (Block-11)                 |
| 20. Dr. S Jitendra Pal              | : Shiwalik (Block-11)                 |
| 21. Dr. Shwetha H R                 | : Ganga (GH-1) & Yamuna (GH-3)        |
| 22. Dr. Nagamma Patil               | : Kaveri (GH -2) & Nethravathi (GH-5) |
| 23. Dr. Rathnamala Rao              | : Sharavathi (GH-4)                   |
| 24. Dr. Dr. Janani T                | : Godavari (GH-6)                     |

25. Dr. Dr. Ranjith M : Quality And Maintenance Block-1 Karavali, Block-2 Aravali, Block-3 Vindhya, Block-4 Satpura, Block 7 Sahyadri
26. Dr. Krishnamoorthy K : Quality and Maintenance, Block 5 Nilgiri, PG block Pushpagiri, Block 8 Trishul, Brahmagiri PG NewBlock
27. Dr. Parthasarathy P : Quality and Maintenance Block-11 Shivalik , MT-1 Everest, MT-2 Himalaya, MT-3 Kailash , Mega Mess (Chaitanya)
28. Dr. Ms. Vani M : Quality and Maintenance Ganga (GH-1), Kaveri(GH-2), Yamuna (GH -3), Sharavathi (GH-4), Nethravathi(GH-5), Godavari (GH-6), GH Veg Mess, GH Non-Veg Mess.

Prof. B Ravi, Director, NITK Surathkal, is Ex-Officio President of NITKS Hostels. He being the President for hostels will be giving guidance to the Council of Wardens from time to time for the smooth administration and functioning of the hostel activities.

## 10.11 Medals

### SPORTS PERFORMANCE DURING THE ACADEMIC YEAR 2024-25

Sl. No	Name of the Game/ sports	Level Tournament and result			Remark
		National level and Inter NIT Tournament	Inter Collegiate Tournament	Local Tournament	
1.	<b>Athletics</b>				
	100 mtrs. (Women)	Jyotsana Achal First place in AIINIT held at NITK			Crowned as Best Athlete Women
	200 mtrs. (Women)	Jyotsana Achal First place in AIINIT held at NITK			
	400 mtrs (Men)	-	Revels MIT-1 <sup>st</sup>		
	400 mtrs (Women)	Aditi Gupta Second place in AIINIT held at NITK			
	4x400 relay (Men)	Lakshitha Sheshan, Naman Jayaram, Mahesh Kumar B, Nahid Muneer Third place in AIINIT held at NITK			
	4x400 relay (Women)	Jeeva K.V, Prathyanga S, Aditi Gupta, Jyotsana Achal First place in AIINIT held at NITK			
	4x100 relay (Women)	Jeeva K.V, Prathyanga S, Aditi Gupta, Jyotsana Achal First place in AIINIT held at NITK			
	400 mtrs. Hurdles (Men)	Naman Jayaram First place in AIINIT held at NITK			
	Hammer throw (Men)	Rohith V First place in AIINIT held at NITK			
	Discus Throw (Men)	Shreekanth Gouda Second place in AIINIT held at NITK			
	Javelin throw (Men)	Yad Ram Meena Second place in AIINIT held at NITK	Revels MIT-2 <sup>nd</sup>		
	Javelin throw (Women)	Swathi M First place and Gunashree V Second place in AIINIT held at NITK			
2.	Basketball Men	First Place at AIINIT held at NIT Jalandhar	Revels MIT- Semi Finalist		Rishit Prakash crowned as the best player of the

					tournament at AIINIT 24-25
	Basketball Wom- en	Third Place at AIINIT held at NIT Jalandhar	Revels MIT- Semis	James Nai- smith Cup – Second Place	
3.	Badminton Men	Participated in AIINIT held at NIT Trichy	Revels MIT- Semi finalist		
	Badminton Wom- en	Third Place at AIINIT held at NIT Trichy			
4.	Table Tennis Women	Participated in AIINIT held at NIT Jalandhar	Adrenaline 2024 (FMMC)- 4 <sup>th</sup>		
	Table Tennis Men	First Place at AIINIT held at NIT Jalandhar	Ragam (NITC) - First Place Adrenaline 2024 (FMMC) -First Place Revels MIT-Third Place	Dasara Cup - Second Place	Viren Kundnani was awarded as the best player of the tournament at AIINIT 2024-25
5.	Chess Men	Participated in AIINIT held at NIT Silchar			Jay Silva Crowned as Individual Champion in AI- INIT at NIT Silchar
	Chess Women	First Place AIINIT held at NIT Silchar			
6.	Hockey (Men)	Second Place at AIINIT held at NIT Calicut			
7.	Volleyball (Men)	Participated at AIINIT held at NIT Warangal			
	Volleyball (Wom- en)	First Place at AIINIT held at NIT Warangal	Revels MIT-First Place		Swathi M was awarded as the best player of the tournament at AIINIT 2024-25
8.	Yoga (Men)	Participated at AIINIT held at NIT Warangal			
	Yoga (Women)				
9.	Kho-Kho Men	Second Place at AIINIT held at NIT Calicut			Mr. S Dharshan Raam crowned as the best defender of the tourna- ment at AIINIT 2024-25
	Kho-Kho (Wom- en)	Second Place at AIINIT held at NIT Calicut			Miss. N Thanma- ya Shri crowned as the best de- fender of the tournament at AIINIT 2024-25
10.	Cricket	Participated in AIINIT held at NIT Silchar		KSCA Division 3(50 overs)- quarter finals	
11.	Power Sports				
	Weight Lifting	Overall Champion			

		3 – Gold 2- Silver 1 - Bronze			
	Power Lifting	Overall Champion 4- Gold			Wangjam Deepak was crowned as best lifter at AI- INIT 2024-25
	Body Building	Overall Champion 3 – Gold 2 - Bronze			Junaid Jameel was crowned as Mr NIT-2024-25 at AIINIT 2024-25 at AIINIT 2024-25
12.	Handball (Men)	Second Place at AIINIT held at NIT Warangal			
13.	Football	Participated in AIINIT held at NIT Rourkela		Football Cup 2025 at NITK – Third Place	
14.	Lawn Tennis (Men)	Participated in AIINIT held at NIT Rourkela			
15.	Kabaddi (Men)	Participated in AIINIT held at NIT Trichy	Revels MIT- 1 <sup>st</sup>		
	Kabaddi (Women)	Participated in AIINIT held at NIT Trichy			
16.	Swimming				
	50m Backstroke (Men)	Siddh Shetty First place in AIINIT held at NITK			
	100m Backstroke (Men)	Siddh Shetty Second place in AI- INIT held at NITK			
	800m freestyle (Men)	Siddh Shetty First place in AIINIT held at NITK			
	400m freestyle (Men)	Soham Jain Second place in AIINIT held at NITK			
	200m freestyle (Men)	Soham Jain Third place in AIINIT held at NITK			
	100m freestyle (Men)	Sanjith R Third place in AIINIT held at NITK			1. Best Swimmer (women) – Akriti Singh
	50m freestyle (Men)	Sanjith R Third place in AIINIT held at NITK			
	Relay Freestyle (Men)	First place in AIINIT held at NITK			2. Team Champi- onship Runner Up (Men & Women)
	100m butterfly (Men)	Soham Jain Third place in AIINIT held at NITK			
	50m butterfly (Women)	Nithyaprita Bhushi Third place in AIINIT held at NITK			
	200m Individual Medley (Women)	Nithyaprita Bhushi Third place in AIINIT held at NITK			
	50m freestyle (Women)	Nithyaprita Bhushi Third place in AIINIT held at NITK			
	100m freestyle (Women)	Akrithi Singh First place in AIINIT held at NITK			
	50m breaststroke	Akrithi Singh First place in AIINIT	Revels MIT – 1 <sup>st</sup> - 2 medals 2 <sup>nd</sup> -1 medal 3 <sup>rd</sup> -11 medals Mens freestyle relay- 3 <sup>rd</sup>		

(Women)	held at NITK			
100m breast-stroke (Women)	Akrithi Singh First place in AIINIT held at NITK			
100m backstroke (Women)	Rashmi Murthy Third place in AIINIT held at NITK			
4 X 50m Relay Medley (Women)	Second place in AIINIT held at NITK			
Relay Freestyle (Women)	Second place in AIINIT held at NITK			

- Staff and Faculty Members Participated in All India Inter NIT Staff and Faculty Cricket tournament from 14<sup>th</sup> to 17<sup>th</sup> December 2024 at NIT Silchar. The main objective of this tournament is to promote cohesive atmosphere for social interaction, develop sportsmanship and also to allow the Staff & faculty members to exhibit their sporting talents.

## 10.12 Awards and Distinctions

## 10.13 Students Placements

### Highlights

The year 2024-25 has been a tough year for Career Development Centre. We had reasonably good Placements and Training slots. Most of the companies including PSU's like GAIL, BEL, BEL-CRL Bangalore, C-DOT, C-DAC, UIDAI, HPCL, HRRIL, MNGL and BPCL conducted placement / Internship drives in virtual, physical and hybrid modes. The CDC also participated in the NBA exercise, with the chairmen of the visiting team at the CDC. Chairmen appreciated the facilities, placement and gave valuable advice. As Chairman of CDC, on behalf of the Institute, I thank all who enabled the entire process very successfully.

### 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 5<sup>th</sup>, 6<sup>th</sup> and 7<sup>th</sup> Semester vacations.
- 3. Provide Counseling and facilitate development of Soft Skills and Personal Effectiveness to help students build a successful career.

### Vision & Mission statements of CDC

#### Vision

To empower students to discover and pursue a path to a fulfilling career, so they can make their own unique marks on the world, achieving career contentedness and success.

#### Mission

The mission of Career Development Centre is to support and facilitate students as they explore the career options, gain valuable experience, develop as professionals, become leaders of the country and launch their career plans with all round employability, entrepreneurship, and life skills.

### Performance Overview: (as on 01.04.2025)

- ❖ A total of 411 Companies visited NITK Surathkal for Campus Recruitment/Internship. (increase of 40 companies compared to last year)
- ❖ 128 Companies visited NITK for Placement process for the first time.

- ❖ 1057 students are placed – 581 B.Techs, 375 M.Techs, 48 MCAs, 24 MBAs, 29MSc.
- ❖ 07 PhD students also placed through campus placements.

**PLACEMENT RECORD FOR 2024-25**

Program	% placed
B.Tech	76.95
M.Tech	63.78
MCA	72.73
MBA	35.29
MSc (PHY+CHEM)	43.93

**BRANCHWISE UG PLACEMENTS 2024-2025 (as on 01-04-2025)**

Branch	Total Eligible Students	Placed
CIVIL ENGINEERING	82	56
CHEMICAL ENGINEERING	48	32
COMPUTER SCIENCE & ENGG	95	86
E & C ENGINEERING	102	78
E & E ENGINEERING	106	76
INFORMATION TECHNOLOGY	75	60
MECHANICAL ENGINEERING	142	109
METALLURGY & MATERIALS ENGG	40	34
MINING ENGINEERING	23	15
ARTIFICIAL INTELLIGENCE	42	35
<b>Total</b>	<b>755</b>	<b>581</b>

(The data given is as on 01-04-2025 and placements are expected to continue till 30-06-2025)

**Internship for the Academic Year 2024-25**

Sl. No.	Branch	No. of Slots
01	Chemical Engineering	17
02	Civil Engineering	14
03	Computer Engineering	80
04	Electronics & Communication Engineering	78
05	Electrical & Electronics Engineering	43
06	Information Technology	71
07	Mechanical Engineering	50
08	Metallurgical & Material Engineering	6
09	Mining Engineering	0
10	Artificial Intelligence	21
11	Mathematical & Computational Sciences	19
12	MCA	10
13	MBA	9
	<b>Total Number of Students</b>	<b>418</b>

<b>Number of Companies : 88</b>	<b>Number of Internship: 418</b>
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## 11. HUMAN RESOURCE

### Teaching Staff Number

Professors	114
Associate Professors	77
Assistant Professors	104
System Manager	01
	<b><u>296</u></b>

### Non-Teaching Staff

Administrative Officers	20
Technical staff	61
Non-technical Staff (Ministerial and Supporting)	85
	<b><u>166</u></b>

### 11.1 The Staff

#### A. Administrative Staff

##### Director: (Head of the Institution)

- B Ravi, (from 15.06.2023)  
Ph.D. (IISc, Bengaluru)

##### Dy. Director

- Prof. Subhash C. Yaragal, from 1.8.2024  
Ph.D. (IISc. Bangalore),

##### Dean (Academic)

- Vidya Shetty K, (from 1.10.2021 till 6.11.2023)  
Ph.D. (NITK, Surathkal)
- Dwarakish G S, (from 7.11.2023)  
Ph.D. Anna University, Chennai,

##### Dean (Planning and Development)

Gangadharan K V, (from 5.10.2023)  
Ph.D. (IIT, Madras)

##### Dean (Faculty Welfare)

- G C Mohan Kumar, (till 15.03.2024)  
Ph.D. (IIT Madras)
- Laxminidhi T, (from 16.03.2024)  
Ph.D. (IIT Madras)

##### Dean (Alumni and Corporate Relations)

- Shrikantha S Rao, (from 1.2.2023 till 16-02-2025)  
Ph.D. (NITK, Surathkal)
- Prasanna B. D. (from 17-02-2025)  
Ph.D. (NITK, Surathkal)

**Dean (Student Welfare)**

- Narendranath S, (till 31.7.2023)  
Ph.D. (IIT Kharagpur)
- A Chitharanjan Hegde, (from 1.8.2023)  
Ph.D. (Mangalore University)

**Dean (Research & Consultancy)**

- S M Kulkarni, (till 31.12.2023)  
Ph.D. (IISc, Bangalore)
- Udaya Bhat K, (from 1.1.2024)  
Ph.D. (Indian Institute of Science, Bangalore)

**B. ACADEMIC STAFF (TEACHING)**

**Department of Water Resources and Ocean Engineering**

**Professors:**

- N. Lakshman, Ph.D., (I.I.Sc., Bangalore)
- G.S. Dwarakish, Ph.D. (Anna University)
- Mahesh A, Ph.D. (IIT Bombay)
- Kiran G. Shirlal, Ph.D. (NITK),
- Amba Shetty, Ph.D. (NITK)
- B.M. Dodamani, Ph.D. (NITK)
- K Varija, Ph.D. (IISc. Bangalore), till 6.4.2025
- H. Ramesh, Ph.D. (NITK) HOD from 7.4.2025
- Manu, (Ph.D. NITK)
- Nasar T, Ph.D. (IIT, Madras)

**Associate Professors:**

- K. Subrahmanya, Ph.D. NITK
- Pruthviraj U., Ph.D. (NITK)
- K. Vadivuchezhian, Ph.D. (IIT Madras)
- Debabrata Karmakar, Ph.D., (IIT Kharagpur)

**Assistant Professor Grade – 1:**

- Shwetha Hassan Rangaswamy, Ph.D. (IISc, Bangalore)

**Assistant Professor (on contract)/ (Grade – II):**

- Chandan Pradhan, Ph.D. (IIT, Guwahati)
- Chandan M.C., Ph.D. (IIT, Kharagpur)

**Department of Chemical Engineering**

**Professors:**

- M.B. Saidutta, Ph.D. (I.I.T. Bombay) – Retired on 31-07-2024
- Raj Mohan., Ph.D. (I.I.T., Kharagpur)
- K. Vidya Shetty, Ph.D. (NITK)
- Prasanna B.D., M.E. (Ph.D. NITK)
- P.E. Jagadeeshbabu, Ph.D. (Anna Univ. Chennai) HOD till 22.11.2023
- I Regupathi, Ph.D., (Anna University, Chennai) HOD from 23.11.2023
- Keyur Raval, Ph.D. (RWTH Aachen Technical University, Germany)
- Hari Prasad Dasari, Ph.D. (Korea Institute of Science and Technology, Korea)

- Hari Mahalingam, Ph.D. (Singapore)

**Associate Professors:**

- S. Gangamma, Ph.D. (IIT, Bombay)
- Ashraf Ali, Ph.D. (IIT Madras)
- Jagannathan T K, Ph.D. (IIT Madras)

**Assistant Professors Grade - 1:**

- Jitendra Pal S., Ph.D. (IIT Delhi)
- Chinta Sarkar Rao, Ph.D. (IIT, Madras)
- Vaishakh Nair, Ph.D. (IIT, Madras)

**Assistant Professor (on contract)/Grade – II:**

- Maneesh Kumar Poddar, Ph.D., (IIT Guwahati) (Contractual)
- Mohan Lal Meena, Ph.D. (National Taiwan University of Science and Technology, Taiwan)
- M. Rajasekaran, Ph.D. (IISC, Bangalore)

**Department of Civil Engineering**

**Professors:**

- M.C. Narasimhan, Ph.D. (IIT Madras)
- Katta Venkataramana, (Kyoto University, Japan) – Retired on 30-04-2024.
- Varghese George, Ph.D. (I.I.T. Bombay)
- S. Shrihari, Ph.D. (Univ. of Roorkee)
- Sitaram Nayak, Ph.D. (IISc. Bangalore)
- Subhas C. Yaragal, Ph.D. (IISc. Bangalore) H.O.D. till 31-07-2024
- B.R. Jayalekshmi, Ph.D. (NITK)
- Sunil B. Malegole, Ph.D. (NITK)
- Basavaraj Manu, Ph.D. (IIT, Bombay) – H.O.D from 01-08-2024
- Suresha S N, Ph.D. (NITK)
- Arun Kumar Thalla (IIT Roorkee), Ph.D.
- Bibuti Bhushan Das, Ph.D., (IIT Bombay)
- Gangadhar Mahesh, Ph.D. (University of Hongkong)
- C.P. Devatha, Ph.D. (IIT Roorkee)
- A.S Balu, Ph.D. (IIT Madras)

**Associate Professors:**

- T Palanisamy, Ph.D.
- Raviraj H. Mulangi, Ph.D., (IISc, Bangalore)
- Lohitkumar Nainegali, Ph.D. (IIT, Kanpur)
- Sreevalsa Kolathayar, Ph.D. (IISc, Bangalore)
- C. Rajasekaran, Ph.D. (IIT, Madras)
- Prashanth M.H., Ph.D. (IISc, Bangalore)

**Assistant Professors Grade – 1:**

- Babloo Chaudhary, Ph.D., (Kyoto, Japan)
- Anupama Surenjan, Ph.D., (IIT, Madras)
- J Vijaya Vengadesh Kumar, Ph.D. (IIT, Madras)
- Sreekumar M, Ph.D. (IIT, Bombay)
- Vinoth S, Ph.D. (Anna University, Chennai)

- Mithun Mohan, Ph.D. (IIT Roorkee)
- Pavan G S, Ph.D. (IISc, Bangalore)
- Sridhar G, Ph.D. (IIT, Madras, & NUS. Singapore (Joint Degree)

**Assistant Professors Grade – 1 (on Lien):**

- Adani Azhoni, Ph.D. (IIT, Delhi) on Lien ended on 17.1.2025

**Assistant Professor (on contract)/Grade – II):**

- Saranya P, Ph.D. (IIT, Madras)
- Jacklin Jeke Nilling, Ph.D. (IIT, Kanpur)
- Chippagiri Ravijanya, Ph.D. (VNIT, Nagpur)
- Kalyanbrata Hatui, Ph.D. (University of Delhi)
- Anupam B. R., Ph.D. (IIT Bhubaneswar)
- T. Manjari, Ph.D. (IIT Madras)

**Department of Computer Science & Engineering**

**Professors:**

- K. Chandrasekaran, Ph.D. (J.N.T.U.)
- P Santhi Thilagam, Ph.D. (NITK)
- Annappa, Ph.D (NITK, Surathkal)
- Alwyn Roshan Pais, Ph.D. (NITK)
- Shashidhar G Koolagudi, Ph.D. (IIT Kharagpur)

**Associate Professors:**

- Vani M., M.Tech. (NITK, Surathkal)
- Manu Basavaraju, Ph.D. (IISC, Bangalore) HOD from 15.02.2023 till 13.2.2025
- Beerappa Rama C, Ph.D. (NITK), HOD from 14.2.2025
- Jeny Rajan, Ph.D. (University of Antwerpen, Belgium)
- Mohit P. Tahiliani, Ph.D. (NITK)
- Basavaraj Talawar, Ph.D. (IISC Bangalore)

**Assistant Professors Grade - 1:**

- Saumya Hegde, Ph.D. (NITK)
- Mahendra Patap Singh, Ph.D. (I.I.T. Kharagpur)
- Biswajit Bhowmik, Ph.D. (IIT Guwahati)
- Sourav Kanti Addya, Ph.D.
- Manjanna B, Ph.D. (IIT, Guwahati)

**Assistant Professor (On contract)/ (Grade – II):**

- Shridhar Sanshi, Ph.D. (NITK, Surathkal)
- Radhika B. S., Ph.D. (IIT, Bombay)
- Abhilash M. H., Ph.D. (NIT Warangal)

**Department of Chemistry**

**Professors:**

- Nityananda Shetty, Ph.D. (Mangalore University)
- Chitharanjan Hegde, Ph.D. (Mangalore University)
- Ramachandra Bhat, Ph.D. (Mangalore University)

- Krishna Bhat, Ph.D. (Mangalore Univ.)
- Arun Mohan Isloor, Ph.D. (Mangalore University)
- Udaya Kumar D., Ph.D. (NITK, Surathkal)
- Darshak Rameshbhai Trivedi, Ph.D. (Bhavnagar University) HOD from 23.11.2023

**Associate Professors:**

- Sib Sankar Mal, Ph.D. (JUB Germany)
- Beneesh P. B., Ph.D. (University of Kerala)
- Debashree Chakraborty, Ph.D. (IIT Kanpur)
- Saikat Dutta, Ph.D. (University of Iowa, USA)

**Assistant Professor Grade -1:**

- Vijayendra S Shetti, Ph.D. (IIT, Bombay)
- Lakshmi Vellanki, Ph.D. (IIT, Bombay)

**Department of Electronics and Communication Engineering**

**Professors:**

- S. Sumam David, Ph.D. (I.I.T. Madras)
- M. Shankarnarayan Bhat, Ph.D. (I.I.Sc., Bangalore)
- John D'Souza, Ph.D. (I.I.T. Kharagpur) – Retired on 30-04-2024.
- U. Shripathi Acharya, Ph.D., (I.I.Sc., Bangalore)
- Laxminidhi T., Ph.D. (IIT, Madras)
- Ashvini Chathurvedi, Ph.D. (Multimedia University, Malaysia)
- Neelavar Shekar Shet, Ph.D. (NITK), HOD from 19.4.2023 till 20.4.2020
- M. Ramesh Kini, Ph.D. (NITK), H.O.D. from 21.4.2025
- Deepu Vijayasen, Ph.D. (EPFL, Switzerland)

**Associate Professors:**

- Raghavendra B S, Ph.D. (IISC, Bangalore)
- Ratnamala Rao, Ph.D. (IIT Madras)
- Rekha S., Ph.D. (NITK)
- Aparna P., Ph.D. (NITK)
- Prashantha Kumar H, Ph.D. (NITK)
- A V Narasimhadhan, Ph.D. (IISc), Bangalore
- Shyam Lal, Ph.D. (BIT Ranchi)
- Krishna Moorthy K., Ph.D. (IIT, Bombay)
- Pathipati Srihari, Ph.D. (Andhra University)
- Prabu K, Ph.D. (NIT, Tiruchirapalli)

**Assistant Professors Grade - 1:**

- Kalpana G. Bhat, Ph.D. (NITK)
- Sushil Kumar Pandey, Ph.D. (IIT, Indore)
- Sandeep Kumar, Ph.D. (Indian School of Mines Institute, Dhanbad) (relieved on 25-04-2024)
- Mandeep Singh, Ph.D. (IIT, Roorkee)
- Nikhil K S, Ph.D. (IIT, Madras)
- Bini A A, Ph.D. (NITK, Surathkal)
- Nagavel, M.E. (Jadavpur University, Kolkata)
- Gopal Rawat,

**Assistant Professors (on contract/Grade - II):**

- Shikha Baghel, Ph.D. (IIT, Guwahati) – (Relieved on 22-11-2024)

**Department of Electrical and Electronics Engineering**

**Professors:**

- Udayakumar R.Y., Ph.D. (IIT Bombay)
- K. Panduranga Vittal, Ph.D. (Mangalore Univ.)
- Shubhanga K.N., Ph.D. (IIT, Bombay)
- Gururaj S. Puneekar, Ph.D. (IIT, Kharagpur)
- Venkatesa Perumal, Ph.D. (IIT Delhi)
- Vinatha U., Ph.D. (NITK, Surathkal)
- Dattatraya N. Goankar, Ph.D. (IIT, Roorkee) HOD till 16.5.2024
- Debashisha Jena, Ph.D. (NIT Rourkela) HOD from 17-05-2024.
- K. Manjunatha Sharma, Ph.D. (NITK)

**Associate Processors:**

- Jora M. Gonda, Ph.D. (NITK)
- K. Rajagopal, M.Tech. (I.I.T. Kharagpur)
- Parthiban, Ph.D. (IIT, Roorkee)
- R Kalpana, Ph.D. (IIT, New Delhi)
- Nagendrappa H., Ph.D. (University of Victoria, BC, Canada)
- Tukaram Moger, Ph.D. (IISC, Bangalore)
- Krishnan C M C, Ph.D. (Ghent University, Ghent, Belgium)
- Karthikeyan A, Ph.D. (NIT, Thiruchirapalli)
- Y Suresh, Ph.D. (NIT Rourkela)

**Assistant Professor Grade - I:**

- Shashidhara Mecha Kotian, Ph.D. (NITK, Surathkal)
- Yashawanth Kashyap, Ph.D. (IIT, Mandi)
- B Dastagiri Reddy, Ph.D. (NIT, Tiruchirapalli)
- Arun Dominic D, Ph.D. (IIT Roorkee)
- Vignesh Kumar V, Ph.D. (NIT, Tiruchirapalli) – (Relieved on 24-04-2024)
- Ravi Raushan, Ph.D. (IIT (ISM), Dhanbad)
- Dharavath Kishan, Ph.D. ((NIT, Tiruchirapalli)
- Md Waseem Ahmad, Ph.D. (IIT, Kanpur)
- Prajof P, Ph.D. (IIT, Bambay)
- Girisha Navada, M.Tech. (University of Calicut)
- Iddya Raghavendra Rao M.Tech. (Mangalore Univ.)

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

**Professors**

- K.B. Kiran, Ph.D. (Mangalore Univ.)
- Shashikantha K., Ph.D. (University of Hyderabad)
- S. Pavan Kumar, Ph.D., (IIT Kharagpur)
- Ritanjali Majhi, Ph.D. (BIT, Mesra) HOD from 27-01-2025
- Pradyot Ranjan Jena, Ph.D. (IIT Kanpur)

**Associate Professors:**

- Sheena, Ph.D., (University of Calicut) HOD till 26.1.2025
- Rajesh Acharya H, Ph.D., (University of Hyderabad)
- Dhishna P, Ph.D., (University of Pondicherry)
- Bijuna C. Mohan, Ph.D. (NITK, Surathkal)
- Gopalakrishna B V, Ph.D., (University of Mysore)
- Savita Bhat, Ph.D. (IIT, Bombay)
- Rashmi Uchil, Ph.D. (NITK, Surathkal)
- Suprabha K. R, Ph.D., (VTU)

**Assistant Professors Grade - 1:**

- Sabiha A. Choudhury, P.hD. (Gauhati University)

**Assistant Professor (On contract)/ (Grade-II):**

- Rahul Sivarajan, Ph.D. (TISS, Mumbai)
- Abhilasha Gusain, P.hD. (IIT Roorkee)
- Chaitra Nagammanavar, P.hD. (Karnataka University, Dharwad)
- Anupriya, P.hD (JNU)

**Department of Information Technology**

**Professors:**

- Ananthanarayana V.S., Ph.D. (I.I.Sc. Bangalore)
- G. Ram Mohan Reddy, Ph.D. (Edinburgh, U.K.)
- Jaidhar C D, Ph.D. (NIT, Tiruchirappalli), HOD till 22.11.2023

**Associate Professors:**

- Geetha V., Ph.D. (NITK) (HOD from 23.11.2023)
- Biju R. Mohan, Ph.D. (NITK)
- Sowmya Kamath S., Ph.D. (NITK)
- Nagamma Patil, Ph.D. (IIT, Roorkee)
- Anand Kumar M, Ph.D.
- Purushothama B. R., Ph.D. (NIT, Warangal)

**Assistant Professors Grade – I:**

- Dinesh Naik, M.Tech. (VTU, Belgaum)
- Kiran M, Ph.D. (NITK, Surathkal)
- Bhawana Rudra, Ph.D. (IIT Allahabad)
- Shrutilipi Bhattacharjee, Ph.D. (IIT, Kharagpur)

**Assistant Professors (On contract)/ (Grade – II):**

- Janani T, Ph.D. (NIT, Tiruchirappalli)
- Adouthu Vamshi Naik , P.hD. (NIT, Tiruchy)

**Department of Mathematical and Computational Sciences**

**Professors:**

- Kandasamy, Ph.D. (I.I.T. Bombay)
- Santhosh George, Ph.D. (Goa University)
- Murulidhar N.N., Ph.D. (I.I.T. Bombay)



- Shyam Srinivas Kamath, Ph.D. (Karnataka Univ.)
- B.R. Shankar, Ph.D. (I.I.Sc., Bangalore)
- R. Madhusudhan., Ph.D. (IIT, Roorkee), HOD till 22.11.2023
- P. Sam Johnson, Ph.D. (Alagappa University) HOD from 23.11.2023
- Pushparaj Shetty, Ph.D. (IIT Delhi)
- V. Murugan, Ph.D. (IIT, Madras)

**Associate Professors:**

- Chandhini G, Ph.D. (IIT, Madras)
- Srinivasa Rao Kola, Ph.D. (IIT, Kharagpur)
- Jidesh P., Ph.D. (NITK)
- A Senthil Thilak, Ph.D. (NIT, Tiruchirappalli)
- Kedarnath Senapati, Ph.D.
- Jothi Ramalingam, Ph.D. (Queensland University of Technology, Brisbane, Australia)

**Assistant Professors Grade 1:**

- Vivek Sinha, Ph.D (IIT, Bombay)
- Vishwanath Kadaba Puttanna, Ph.D., (NITK)
- Falguni Roy, Ph.D. (IIT, Kharagpur)

**Assistant Professor (On contract)/ (Grade-II)**

- Vidyadhar Upadhyay, Ph.D. (IISc, Bengaluru)
- Samadrita Bera, Ph.D. [IIT (ISM), Dhanbad]
- Pushpajit Khaire, Ph.D. (VNIT, Nagpur)
- Mahima, P.hD. (IIT Roorkee)
- Jisna V. A., Ph.D. (NIT Calicut)
- Gayathri P., Ph.D. (NIT, Tiruchy)
- Manisha Aggarwal, P.hD. (IIT Delhi)
- Amit Kumar, Post Doc (IIT, Bhubaneshwar)
- Jerry Wattre Sangma, Ph.D. (NIT Meghalaya)

**Department of Mechanical Engineering**

**Professors:**

- G.C. Mohan Kumar, Ph.D. (IIT, Chennai)
- Prasad Krishna, Ph.D., (Univ. of Michigan, Ann Arbor, USA) on lien to (Director) at NIT Calicut from 18.10.2021
- 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)
- Narendranath S., Ph.D. (IIT, Kharagpur) on lien to (Director) at NERIST, Arunachal Pradesh from 21.8.2023
- Shrikantha S Rao, Ph.D. (NITK)
- S.M. Murigendrappa, Ph.D. (I.I.T., Bombay) HOD from 9.1.2024
- Kumar G.N., Ph.D. (IIT, Delhi)
- Jeyaraj P, Ph.D., (IIT Madras)
- Hemantha Kumar, Ph.D., (IIT, Madras)
- Ramesh M.R, Ph.D., (IIT, Roorkee)
- Shrikanth Bontha, Ph.D. (Wright State)

- Arun M, Ph.D. (University of Greenwich, London, UK)
- Subhaschandra Kattimani, Ph.D. (IIT, Kharagpur)
- Sathyabhama A., Ph.D., (NITK)
- Shivananda Nayak H., Ph.D. (IIT Roorkee)
- Veershetty Gumtapure, Ph.D. (IIT, Madras)
- Anish S, Ph.D. (IIT, Madras)
- Sharnappa Joladarashi, Ph.D. (IIT, Madras)

#### **Associate Professors**

- Mervin A. Herbert, Ph.D. (I.I.T., Kharagpur)
- Navin Karanth P., Ph.D. (NITK)
- Vasudeva M., Ph.D. (I.I.T. Bombay)
- Sudhakar Jambagi, Ph.D. (IIT Kharagpur)
- N. Gnanasekaran, Ph.D. (IIT, Madras) on lien to IIT, Tirupati
- Ranjith M., Ph.D., Dong-A University, Busan, South Korea
- Poornesh Kumar Koorata, Ph.D. (Inha), University of Korea

#### **Assistant Professors Grade – I**

- Arumuga Perumal D, Ph.D. (IIT Guwahati)
- Saurabh Chandraker, Ph.D. (NIT, Rourkela)
- Somasekhara Rao Todeti, Ph.D., (IISc Bangalore)
- Parthasarathy P, Ph.D. (Karlsruhe Institute of Technology, Germany)
- Arun Kumar Shettigar, Ph.D. (NITK)
- Mruthyunjaya Swamy K B, Ph.D. (IIT, Kharagpur)
- Ranjeet Kumar Sahu, Ph.D. (IIT, Madras)
- A S S Balan, Ph.D. (IIT, Madras)
- P S Suvin, Ph.D. (IISc., Bangalore)
- Khyati Verma, Ph.D. (IIT, Delhi)

#### **Assistant Professors Grade – I (On lien)**

- Ajay Kumar Yadav, Ph.D. (I.I.T. Kharagpur) on lien from 22.11.2022

#### **Assistant Professors (On contract)/ (Grade – II)**

- Mervin Joe Thomas, Ph.D. (NIT, Calicut)
- Deepak Kumar, Ph.D. (IIT, Madras)
- Abhilash Singh, Ph.D. (IIT, Roorkee)
- Atul Singh Rajput, Ph.D. (IIT Guwahati)
- Neha Choudhary, Ph.D. (IIT, Roorkee)
- Raghuram Srinivasan, Ph.D. (IISc, Bengaluru)
- Pavan Girish Pandit, Post Doc (IIT Madras)

### **Department of Mining Engineering**

#### **Professors:**

- M. Govinda Raj, Ph.D. (Mangalore University)
- Harsha Vardhan, Ph.D. (Indian School of Mines Dhanbad) H.O.D. from 21.4.2023
- M. Aruna, Ph.D. (University of Dhanbad)
- Karra Rama chandar, Ph.D. (NITK)

**Associate Professor:**

- Anup Kumar Tripathi, Ph.D. (IIT, Madras)
- Bijay Mihir Kunar, Ph.D. (IIT, Kharagpur)
- Sandi Kumar Reddy, Ph.D. (NITK)

**Assistant Professor Grade-1:**

- Akhil Avchar, Ph.D. (IIT [ISM], Dhanbad)

**Assistant Professors (On contract)/ (Grade – II)**

- Amrites Senapati, Ph.D. (IIT Kharagpur)

**Department of Metallurgical & Materials Engineering**

**Professors:**

- K. Narayan Prabhu, Ph.D. (Mangalore Univ.), HAG
- Jagannatha Nayak, Ph.D. (NITK)
- Udaya Bhat, Ph.D. (I.I.Sc., Bangalore), HAG
- Anandan Srinivasan, Ph.D. (I.I.T., Kharagpur)
- Subray R. Hegde, Ph.D. (University of Canada)
- Kumkum Banerjee, Ph.D. (IIT Kharagpur) HOD from 15.1.2024
- Ravishankar K.S., Ph.D. (NITK) HOD till 14.1.2024
- Mohammad Rizwanur Rahman, Ph.D., (Keio University, Japan)

**Associate Professor:**

- Preetham Kumar G V, Ph.D. (IIT, Madras)
- Shashi Bhushan Arya, Ph.D. (IIT, Bombay)
- Saumen Mandal, Ph.D. (IIT, Kanpur)
- Rajasekaran B, Ph.D. (IIT, Madras)

**Assistant Professor Grade - 1:**

- Sumanth Govindarajan, Ph.D. (IISc, Bangalore)
- Selvakumar Murugesan, Ph.D. (IIT, Kharagpur)

**Assistant Professors (On contract)/(Grade – II)**

- Lipak Kumar Sahoo, Ph.D. (IIT, Madras)

**Department of Physics**

**Professors:**

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

**Associate Professors**

- Kartick Tarafder, Ph.D. (Jadavpur University) HOD from 23.11.2023
- Partha Pratim Das, Ph.D. (University of Cincinnati [Elec Engg.])

**Assistant Professors Grade - I:**

- T. K. Shajahan, Ph.D. (IISC, Bangalore)
- Sreenath V, Ph.D. (IIT, Madras)

**Assistant Professors (On contract)/(Grade – II)**

- Pritha Dolai , Ph.D. (IIT, Madras)
- Nidhi Adlakha, Ph.D. (IIT, Roorkee)

**C. NON-ACADEMIC STAFF (NON-TEACHING) as on 31.3.2025**

Sl. No	Name of posts	In position
1	Registrar	1
2	Deputy Registrar	2
3	Assistant Registrar	3
4	Librarian	1
5	Deputy Librarian	0
6	Assistant Librarian	1
7	Principal SAS Officer	0
8	Senior SAS Officer	1
9	SAS Officer	1
10	Principal Scientific Officer / Principal Technical Officer	0
11	Senior Scientific Officer/ Senior Technical Officer	1
12	Scientific Officer / Technical Officer	7
13	Superintending Engineer	0
14	Senior Executive Engineer	0
15	Executive Engineer	1
16	Senior Medical Officer	0
17	Medical Officer	1
18	Superintendent (SG-I) / Private Secretary (Higher)	1
19	Superintendent (SG-II) / Private Secretary	2
20	Senior Superintendent	1
21	Superintendent	4
22	Stenographer (SG-I)	3
23	Assistant (SG-I)	2
24	Assistant (SG-II)	13
25	Senior Assistant	9
26	Junior Assistant	23
27	SAS Assistant (SG-I)	0
28	Assistant Engineer (SG-I)	6
29	Technical Assistant (SG-I)	3
30	SAS Assistant (SG-II)	0
31	Assistant Engineer (SG-II)	5
32	Technical Assistant (SG-II)	1
33	Senior SAS Assistant	0
34	Assistant Engineer	0
35	Senior Technical Assistant	4
36	SAS Assistant	0
37	Junior Engineer	0
38	Technical Assistant	0
39	Technician (SG-I)	0
40	Technician (SG-II)	2
41	Senior Technician	14
42	Technician	26
43	Office Attendant (SG-I) / Lab Attendant (SG-I)	4
44	Office Attendant (SG-II) / Lab Attendant (SG-II)	3
45	Senior Office Attendant / Senior Lab Attendant	1
46	Office Attendant / Lab Attendant	19
Total		166

**List of non-teaching employees' data for Annual Report as on 31-03-2025**

Sl. No.	Name of the Employees	Designation
<b>Group-A</b>		
1	K. Ravindranath	Registrar
2	Dr. Mallikarjun Angadi	Librarian
3	Ram Mohan Y	Joint Registrar
4	Vijaya Kumar Ghode	Senior Scientific Officer
5	Bansod Pritam Ramesh	Deputy Registrar
6	Dr. Hem Prasad Nath	Senior SAS Officer
7	Anasuya C. Chakari	Assistant Librarian
8	Sandhya	Assistant Registrar
9	Priyanka Dattanand Amadalli	Assistant Registrar
10	Gaurav Chowdhury	Assistant Registrar on lien
11	Dr. Manoj	SAS Officer
12	Gangadhara B	Technical Officer
13	Aruna Kumar Shetty B	Technical Officer
14	C. Vairavanathan	Technical Officer
15	Shantha Kumar M. N.	Technical Officer
16	Pradeep D	Technical Officer
17	Aravind Kolor	Technical Officer
18	K Gayathri Rao	Technical Officer
19	Mohamod Fioze Khaza	Executive Engineer
20	Dr. M. L. Balabhaskar	Medical Officer
<b>Group-B</b>		
21	Laxminarayana H	Stenographer (SG-I)
22	Octavia Zeena D'souza	Stenographer (SG-I)
23	Dorin Snehalatha	Stenographer (SG-I)
24	Murugavelu D	Superintendent (SG-I)
25	Pathitha	Superintendent (SG-II)
26	Babu	Superintendent (SG-II)
27	Wilma Irene Pinto	Senior Superintendent
28	Gujre Amey	Superintendent
29	Vaibhav Santosh Lonkar	Superintendent
30	Sayyad Fayaz	Superintendent
31	Jayesh Kumar Verma	Superintendent
32	Champavathi	Assistant (SG-I)
33	Udaya Kumar	Assistant (SG-I)
34	Jayantha A	Technical Assistant (SG-I)
35	Shashikantha	Technical Assistant (SG-I)
36	Shrikant Fakira B	Technical Assistant (SG-I)
37	Malinga Naik	Assistant Engineer (SG-I)
38	Nagaraja Bhat K	Assistant Engineer (SG-I)
39	B. K. Mahesh	Assistant Engineer (SG-I)
40	Dr. Sreekanth R. Lamani	Assistant Engineer (SG-I)
41	Vishwanatha Poojary	Assistant Engineer (SG-I)
42	D.C. Virupaksha	Assistant Engineer (SG-I)
43	Suguna Kumar B.	Assistant Engineer (SG-II)
44	Rangappa B. Gowdar	Assistant Engineer (SG-II)
45	Subramanya	Assistant Engineer (SG-II)
46	Chandrashekara M. K	Assistant Engineer (SG-II)
47	Umesha P	Assistant Engineer (SG-II)

48	Vishwanath Pratap Singh	Technical Assistant (SG-II)
49	Gurudatha Shenoy	Senior Technical Assistant
50	Jagadish Hegde	Senior Technical Assistant
51	Santhosh Kumar S Anchan	Senior Technical Assistant
52	Shivashankar	Senior Technical Assistant
<b>Group-C</b>		
53	Ashoka	Assistant (SG-II)
54	Surekha Shetty	Assistant (SG-II)
55	Karunakara	Assistant (SG-II)
56	Anni	Assistant (SG-II)
57	Harish M Shetty	Assistant (SG-II)
58	Dayananda	Assistant (SG-II)
59	Ashok Kumar Shettigar	Assistant (SG-II)
60	Shubha L Kotian	Assistant (SG-II)
61	Vasantha Naik	Assistant (SG-II)
62	Vijaya K	Assistant (SG-II)
63	Ashalatha Y	Assistant (SG-II)
64	Subrahamanya P. N.	Assistant (SG-II)
65	Sunitha A	Assistant (SG-II)
66	Arun M.	Senior Assistant
67	Selvamuthukumaran R.	Senior Assistant
68	Abhishek Nair	Senior Assistant
69	Hari Vishnu	Senior Assistant
70	Aditi Tripathi	Senior Assistant
71	Srinidhi B. N.	Senior Assistant
72	Krishna Raj	Senior Assistant
73	Vignesh M.	Senior Assistant
74	Narva Nagaraju	Senior Assistant
75	K. P. Charan	Junior Assistant
76	Prathik N. S.	Junior Assistant
77	Krishna Kumari	Junior Assistant
78	Neema I. K.	Junior Assistant
79	Chandrika	Junior Assistant
80	Raveendra K.	Junior Assistant
81	Aravinda Pandu Karnad	Junior Assistant
82	Lavanya P. Acharya	Junior Assistant
83	Arulazhagan K.	Junior Assistant
84	Kuruva Eeranna	Junior Assistant
85	Rakesh Kumar	Junior Assistant
86	Ashraf Khan	Junior Assistant
87	Gorla Venu Babu	Junior Assistant
88	Naveen Kumar S.	Junior Assistant
89	Vagdevi S.	Junior Assistant
90	Apeksha A. Shetty	Junior Assistant
91	Rekha S. Devadiga	Junior Assistant
92	Akella Surya Narayana	Junior Assistant
93	Shashirekha	Junior Assistant
94	Ramesha	Junior Assistant
95	Vasudeva	Junior Assistant
96	Chandra Kumar	Junior Assistant
97	Basavarajaiah Sangam	Junior Assistant
98	Madhava A. A.	Technician (SG-II)

99	Hanumanth D Pujar	Technician (SG-II)
100	Jnaneshwara G. K.	Senior Technician
101	Ashwija S. Naik	Senior Technician
102	Shivaprasad K.	Senior Technician
103	Rohit Kumar Yadav	Senior Technician
104	Seema Kundar	Senior Technician
105	Nishanth Kumar	Senior Technician
106	Kiran	Senior Technician
107	Vagdevi Prabha	Senior Technician
108	Harshitha Shetty	Senior Technician
109	Shah Niyas P. K.	Senior Technician
110	Karunya G.	Senior Technician
111	Akshay Kumar P. P.	Senior Technician
112	Shailendra	Senior Technician
113	Basavarajaiah A. G	Senior Technician
114	Sushma	Technician
115	Subhas	Technician
116	Chitrashree S.	Technician
117	Geetesh Kumar	Technician
118	Sumedha	Technician
119	Vikram Suvarna	Technician
120	Swathi R.	Technician
121	Abhishek Maruti Pawar	Technician
122	Abey Ealiyas	Technician
123	Muhammad Shahil K. K.	Technician
124	Pradeepa	Technician
125	Vinayaraj Mahabaladakka Krishnappa Naik	Technician
126	Avinash	Technician
127	Raghurama	Technician
128	Vamana	Technician
129	Chethan	Technician
130	Mohini	Technician
131	Prasad G. Salian	Technician
132	Anshu Kumar	Technician
133	Akash Kumar	Technician
134	Yogeesha	Technician
135	Satisha	Technician
136	Sundara Shettigar	Technician
137	Lokesh Naik	Technician
138	Krushna Behera	Technician
139	Ramu	Technician
140	Chandravathi K	Office Attendant (SG-I)
141	Ramesh	Office Attendant (SG-I)
142	Karunakara	Office Attendant (SG-I)
143	Devadas	Office Attendant (SG-I)
144	Shashikala S.	Lab Attendant (SG-II)
145	Malathesh	Office Attendant (SG-II)
146	Sumana G.S	Office Attendant (SG-II)
147	Jyothi Raviprakash	Senior Office Attendant
148	Thushar	Office Attendant
149	Jyoti Chandras Anchan	Office Attendant
150	Bhavyashree	Office Attendant



151	Suprita A. Devadiga	Office Attendant
152	Ramesh R.	Office Attendant
153	Shobha S.	Office Attendant
154	Saritha Murial D'Souza	Office Attendant
155	Adarsh Kumar	Office Attendant
156	Rakshitha	Office Attendant
157	Govind Gopan	Office Attendant
158	Prathibha	Office Attendant
159	Rahul Sedam	Office Attendant
160	Akarapu Ramesh	Office Attendant
161	Suneetha	Office Attendant
162	Sanjay Shinnu Ambig	Office Attendant
163	Ravichandra C. Naik	Office Attendant
164	Jithesh	Office Attendant
165	Banoth Pavan Kumar	Office Attendant
166	S. Akash	Office Attendant

## 12 EVENTS

### 12.1 Convocation



Surathkal, 25.11.2024: NIT Karnataka Surathkal celebrated its 22nd annual convocation on 23rd November 2024 in the Silver Jubilee Auditorium. The Undergraduate (UG) convocation ceremony held in the afternoon was graced by Shri. A.S. Kiran Kumar, Member, Space Commission and Former Chairman, ISRO and Prof. Avinash Kumar Agarwal, Director, IIT Jodhpur. A large number of graduating students and their parents attended the ceremonies, in addition to Senators, faculty and staff members of the Institute, media persons and invited guests.

The PG and PhD ceremony held in the forenoon was graced by Prof. Govindan Rangarajan, Director of IISc Bengaluru and Dr. Bhujanga Rao Vepakomma, Chairman of KIMS Foundation & Research Centre, Hyderabad.

Both sessions were presided over by Prof. B. Ravi, Director and Chairperson of NITK's BoG.

In his Convocation Address, Shri A.S. Kiran Kumar stressed that the process of learning has become more important than the learning itself. There is a need to challenge existing knowledge to bring new innovation for sustainable growth, without overexploitation of natural resources just for the sake of financial benefits. Prof. Avinash Kumar Agarwal highlighted the MoU for collaboration between the two institutes, which will allow bright students of NITK (who are among the top 10 in their class and have a CGPA of 8.0 or above) direct admission to the Ph.D. program at IIT Jodhpur. He stressed the importance of nurturing integrity, resilience and collaboration.

In his Convocation Address, Prof. Govindan Rangarajan told the students to embrace AI for advancing the innovations but alerted them about its unethical use. He exhorted the students to cherish family values and improve human relationships to avoid being lonely and isolated.

Dr. Bhujanga Rao commented that engineers should be proud of their profession since their innovations run the society, and proud of their heritage since India stands out in terms of its rich cultural heritage from most countries in the world.

A total of 2078 students received their degrees in person or in absentia. It includes 1002 B.Tech (195 with Minor, and five with Honours), 758 MTech and MTech(R), 179 other Master's (MBA, MCA, M.Sc.) and 139 Ph.D. Nine B.Tech students and 31 PG students were awarded Gold Medals and prizes sponsored by various agencies for securing the highest CGPA.

On 24th November, the Skytrack Foot Over Bridge connecting the Eastern and Western campuses of NITK over NH-66 was inaugurated by Prof. Govindan Rangarajan, in the presence of Prof. Avinash Kumar Agarwal, Director of IIT Jodhpur, and Prof. B. Ravi, Director of NITK. It has been designed with a lift to benefit physically disabled individuals and a gentle sloping path for cyclists, in addition to the staircase. The Skytrack has become a local landmark, offering good views of the highway, both sides of the campus, and the statue of Shri U. Srinivas Mallya. Earlier the same week, an Olympics-standard swimming pool had been inaugurated by Shri P. Radhakrishnan Nair, Chief Coach of Indian Athletics Team.

## 12.2 Technical Events

### DEPARTMENT OF CHEMICAL ENGINEERING

#### Conferences

1<sup>st</sup> National Conference on Climate Resilience and Environmentally Sustainable Technologies (NITK-CREST 2025) 27 February- 01 March, 2025.

#### Foreign Visitors to the Department

- Hosted Prof. Juan Carlos Colmenares Quintero from the Institute of Physical Chemistry, Polish Academy of Sciences, Poland. Professor delivered a talk titled: *"Light and sound energy combined with flow heterogeneous catalysis: a breakthrough method for sustainable valorization of lignocellulosic biomass and protection of the natural environment."*. 30-31 December, 2024

#### Indian Visitors to Department

- Dr. Anirudha Lakshminarasimhan, who was Director of (R&D) division of Laurus Bio and currently started his own venture visited Chemical department of the NITK along with Professor (Retd) P. Jayadeva Bhat of IIT Bombay on 8th January 2025 and interacted with Industrial Biotechnology students.
- Shri Gautam Chakraborty (KREC/NITK 1992 batch), Global Head - Plant Engg. service, L&T Engg. Services Vadodara visited the Department of Chemical Engineering in the NITK campus on 27.09.2024 to interact with the students and deliver a lecture on the topic "Engineering Procurement and Construction of Process Plants – from Concept to Commissioning".
- Dr. Shwetha Karanth, a former research scholar from our department and currently a distinguished professional at Biocon Biologics Ltd. visited the department

#### Expert Talks

- "Engineering Procurement and Construction of Process Plants – from Concept to Commissioning" – Lecture by Shri Gautam Chakraborty, Global Head – Plant Engineering Business Unit, L&T Technology Services, 27 September 2024
- Prof S. Vengadesan, Dept of Applied Mechanics and Biomedical Engineering department, IIT Madras on "CFD:

Fundamental Research to Recent Industrial Applications” . 3<sup>rd</sup> March 2025 at Department of Chemical Engineering, NITK Surathkal.

- Shri Sanjay Venugopal, Senior Technologist at Yokogawa Technology India Limited, delivered an insightful lecture titled “Career Opportunities for Chemies – A Conversation”
- As part of Prof. M.G Subba Rau Lecture Series Shri Muralidhar Rao, CEO of SetCONNECT India, delivered the lecture on the topic "Beyond Chemical Engineering: Five Lessons that Changed My Life"
- As part of Prof. M.G Subba Rau Lecture Series Dr. Shreekumar, Co-founder, Sangatya Trust, and former Faculty of the National Institute of Technology Karnataka, delivered the lecture on the topic "Why considering Ecological Limits is Indispensable in Applying Science and Technology in Everyday Life"

## DEPARTMENT OF CIVIL ENGINEERING

### CONFERENCES

- **Dr Babloo Chaudhary**, Secretary General, International Conference on Geo-Disaster and Construction Engineering (**ICGCE2024**), University of Waterloo, Ontario, **Canada**, 07- 08 June, 2024,
- 3rd Indian Symposium on Offshore Geotechnics (ISOG 2024) - An International Convention" 08-09 November 2024, Sponsored by ANRF, GoI, and Industry. Conference Chair: Dr. CR Parthasarathy; Vice Chairs: **Prof. Sunil B. M**, Prof. Madhavi Latha G; Organizing Secretary: **Dr. Sreevalsa Kolathayar**, **Dr. Lohitkumar Nainegali**, and Dr Sharanappagouda Kadabinakatti
- Two days international conference on, “Sustainable Infrastructure: Innovations, opportunities and Challenges (SIIOC-2024)”, held at NITK Surathkal, India on 30<sup>th</sup> April 2024 and 1<sup>st</sup> of May 2024.Organising Secretary: **Dr. Pavan G. S**, **Dr. Sreevalsa Kolathayar** and **Dr. Raviraj H.M**
- Three days International Symposium on Collaborative Informatics (ISCI 2025) held at Kagoshima University, **Japan**, from 05-07 March, 2025. Organising Secretary: **Prof. Katta Venkataraman** and **Dr. Raviraj H. M**

## DEPARTMENT OF CHEMISTRY

- **Expert talk** on “Clustroluminescence materials for light emitting applications” by Prof. G. Prabusankar, Dept. of Chemistry, IIT Hyderabad on 24th January 2025.Brief description about the speaker and the talk: Prof. G Prabusankar’s lab is at the forefront of research that unlocks answers to complex questions involving energy, health care, and the environment. They work on materials and biological aspects of organometallic chemistry with a particular focus on biocompatible molecules, light-emitting materials, catalysis, and light-weight composite materials. To accomplish this goal, they systematically develop the hitherto unknown N-heterocyclic molecular scaffold and N-heterocyclic carbene ligand-supported late transition metal and main group metal derivatives. The above talk unveiled the recent progress of their ongoing research on the Clustroluminescence materials for light emitting applications. This talk was well received by the diverse audience across the departments and specially benefitted the P.G. and Ph.D. students.
- National Science Day was celebrated on 28th February 2025

### Workshops in the department

- Title of the Event: Scientific Writing Workshop,Convener: Dr. Saikat Dutta,Held During: 11:00 AM to 01:30 PM IST on 14/06/2024 Name of the Chief Guests: Dr. Ajay Jha (Associate Publisher, Global Editorial Strategy ACS Publications) Dr. Krishna Raghav Chaturvedi (Outreach Manager American Chemical Society)

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### WORKSHOPS:

- Faculty Development Programme on “ Software and System security” held during 9th December 2024- 13th December 2024.
- One day workshop on “Safer Internet day celebration” held on 11-02-2025
- Boot Camp on “Software & Systems Security” held during 17th February 2025 to 21st February 2025.
- National workshop on “Information Systems security” held during 14th March 2025 to 15th March 2025.

### INDIAN VISITORS TO DEPARTMENT:

- 27-March-2025. Shri. Dipanikar Sarma, Software Architect, Agrani Labs, Former Distinguished Engineer at Linux Technology Center, IBM. Distinguished Alumnus - CSE, NITK, Surathkal. Talk title: Heterogeneous Memory Systems.
- 28-Feb-2025. Shri. Sudharshan Veeravalli S, Staff Engineer, Compilers Team, Qualcomm Inc., Hyderabad. Talk title: Optimizing the Future – Qualcomm’s Work in Compiler Optimization for New Hardware.

### EXPERT TALKS:

- Dr. B. R. Chandavarkar: Faculty Development Program (FDP) on “Cyber Security Awareness and Emerging Technologies for Secure Social Media and Banking Applications”, organized by Department of Electronics and Communication Engineering, ATME College of Engineering, Mysore. On 12-03-2025.

### FACULTY DEVELOPMENT PROGRAMME

- Faculty Development Programme on “ Software and System security” held during 9th December 2024- 13th December 2024.

## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

### Workshops Organized

- ❖ One day Workshop on " Recent Algorithms for Remote Sensing Applications (RARSA 2024)", 13th September 2024 in association with NITK IEEE GRSS at Department of ECE, NITK Surathkal
- ❖ Two Days Offline Workshop on " PCB Design and VLSI Design Fabrication", 06th – 07th, February 2025, at Department of ECE, NITK Surathkal.
- ❖ A Two-week GIAN Course on "Medical Informatics, Radiomics, and Image Analysis for Computer-aided Diagnosis", 17th – 28th February 2025, at Department of ECE, NITK Surathkal

### Foreign Visitors to the Department

- ❖ To deliver expert lecture in A Two-week GIAN Course on "Medical Informatics, Radiomics, and Image Analysis for Computer-aided Diagnosis", Prof. Rangaraj M. Rangayyan, PhD, PEng, FIEEE, FEIC, FAIMBE, FSPiE, FSIIM, FCMBES, FCAE, FRSC, Professor Emeritus of Electrical and Computer Engineering, Schulich School of Engineering, University of Calgary, Calgary, Alberta, CANADA., 17th – 28th February 2024.

### Expert Talks

- ❖ Guest Lecture by Dr. Preetam Kumar, Professor, Dept. of EE, IIT Patna, on "5G: Challenges and Enabling Technologies", 16th August, 2024.
- ❖ Guest Lecture by Dr. Pramod Kumar Tiwari, IIT, Patna, on "Characterization, simulation and modelling of NW GAA MOSFETs", 25th October 2024.

- ❖ Guest Lecture by Prof. Sandeep Pradhan, Professor, Electrical and Computer Engg., University of Michigan Ann Arbor, USA, on " Exploring Quantum Machine Learning: from Algorithms to Applications", 3rd January 2025.
- ❖ Guest Lecture by Dr. Vipul Arora Associate Professor IIT Kanpur, on " Uncertainty Estimation for Speech and Music Applications", 24th January 2025

## **DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

### **Workshops Organized**

- One Week High-End Workshop on “SUITEV: Smart Universal Infrastructure for Efficient Electric Vehicle Charging– Simulations and Validations”, 24<sup>th</sup> to 30<sup>th</sup> June 2024, Sponsored by SERB CRG Project.

### **Conferences**

- 11<sup>th</sup> IEEE International Conference on Power electronics, Drives and Energy Systems (IEEE PEDES 2024), NITK Surathkal by Dr. R. Kalpana (General Chair), 18<sup>th</sup>-21<sup>st</sup> December 2024.

### **MTTP (Master Trainers Training Programme)**

- 11-Day Master Trainers Training Programme on “Advanced Electrical Systems”, 11<sup>th</sup> -21<sup>st</sup> February 2025 in association with Mokshgundam Visvesvaraya Centre for Training Master Trainers in Skill Development (MVCTMTSD) Chikkaballapura.

### **Expert Talks**

- Expert talk on “Selection of motors for Electric Vehicles, Operation and Control of BLDC motor and PMSM for EV Applications”, by Prof. Ragavan, IIT Gandhinagar on 10<sup>th</sup> March 2025.
- Expert talk on “Graph Neural Network and Its Application for EEG Data Analysis”, by Prof. Deepak Mishra, IIST Thiruvananthapuram on 17<sup>th</sup> February 2025.
- Expert talk on “Inventing and Innovating in Technology of Humanity(IITH)”, by, Prof. C Krishna Mohan, IIT Hyderabad on 14<sup>th</sup> February 2025.

## **DEPARTMENT OF INFORMATION TECHNOLOGY**

### **Workshops Organized**

- Two-day workshop on "Clinical NLP and Responsible AI", Dr. Gokul S Krishnan, Research Scientist, Centre for Responsible AI, IIT Madras (October 24-25, 2024) by Dr. Sowmya Kamath S
  - Coordinator- Five Days Faculty Development Programme on Software and Systems Security at NITK Surathkal, 09-13<sup>th</sup> December 2024 Dr. Purushothama B R
  - Coordinator- Bootcamp on Software and Systems Security, 17-21 Feb, 2025. Dr. Purushothama B R
  - Coordinator: National Workshop on Information Systems Security, 14-15, March 2025 Dr. Purushothama B R
  - Fourth Workshop on Speech, Vision, and Language Technologies for Dravidian Languages (DravidianLangTech-2024) at 18th Conference of the European Chapter of the Association for Computational Linguistics (EACL 2024), Malta. EACL 2024
  - Jointly organized THIRD INTERNATIONAL CONFERENCE ON SPEECH AND LANGUAGE TECHNOLOGIES FOR LOW-RESOURCE LANGUAGES, December 04-06, 2024 at VIT, Chennai, INDIA



### Foreign Visitors to the Department

- To deliver the expert talk on the title “Data Management and Analytics for Wearable Technologies in Healthcare,” Prof. Vijayan Sugumaran, Co-director, Center for Big Data Analytics, Oakland University, Michigan, USA, 07.08.2024.

### Indian Visitors to Department

- Dr. Gokul S Krishnan, Research Scientist, Centre for Responsible AI, IIT Madras, Two-day workshop on "Clinical NLP and Responsible AI", (October 24-25, 2024)
- Dr. Manali Hazarika, KMC Manipal, Expert talk on "Generative AI for Digital Health", (August 23, 2024)
- Prof. (Dr.) Uma Kulkarni, Yenepoya University, Expert talk on "Opportunities for AI Applications in Ophthalmology Domain" (August 21, 2024)

### Expert Talks

- Expert talk on "AI in Biomedical Imaging and Precision Medicine", Dr. Veena Mayya, University of Central Florida, USA (September 27, 2024) (online mode)
- Expert talk on "Generative AI for Digital Health", Dr. Manali Hazarika, KMC Manipal (August 23, 2024)
- Expert talk on "Opportunities for AI Applications in Ophthalmology Domain", Prof. (Dr.) Uma Kulkarni, Yenepoya University (August 21, 2024)
- Expert talk on "Data Management and Analytics for Wearable Technologies in Healthcare" by Prof. Vijayan Sugumaran, Distinguished Professor and Co-director, Center for Big Data Analytics, Oakland University, Michigan, USA (August 7, 2024)-Dr. Anand Kumar M
- An Expert talk on “Deep RL for Adaptive Learning: Function Approximation, Difficulty Problems, and Beyond” by Manikandan Ravikiran, Research Scientist at the Artificial Intelligence Research Group, R&D Centre, Hitachi India on 11/03/2025 Dr. Anand Kumar M

### Stress Management Training and Other Programs

**Prof. G. Ram Mohana Reddy**

- ❖ 4-Day Executive Certificate Program in AI and Analytics (ECPAIA), NITK Surathkal in Collaboration with SetCONNECT Global, November 19-22, 2024.

## DEPARTMENT OF MATHEMATICAL AND COMPUTATIONAL SCIENCES

### Seminars (National)

- Expert Talk by Prof. Sandeep Juneja on “The opportunities at TIFR, Mumbai”, 3rd November 2023
- Expert Talk by Prof. Sandeep Juneja on “Some popular algorithms for foundational stochastic multi-armed bandit problems in sequential learning”, 3rd November 2023
- Expert Talk by M.S. Raghunathan on “THE CONGRUENCE SUBGROUP PROBLEM”, December 1st, 2023
- Expert Talk by M.S. Raghunathan on “MATHEMATICS Art that would be rather Science”, December 1st, 2023
- National Mathematics Day, 22nd December 2023, (Commemorating the 136th birth anniversary of one of the greatest Indian mathematicians, Srinivasa Ramanujan).



## DEPARTMENT OF MINING ENGINEERING

### Workshops Organized

Ø 1-day workshop on “Health and Safety in Mines”, 21st March 2025.

#### About the Workshop

The mining industry faces unique health and safety challenges, requiring robust safety protocols. This one-day workshop was organized to equip participants with the knowledge and tools to manage risks effectively, ensuring compliance with safety standards.

Ø 2-day workshop on “Rock Blasting Innovations for Safety & Efficiency”, 14-15 March 2025.

#### About the Workshop

This workshop is designed to equip mining industry professionals and academicians with the latest advancements in blasting technology especially on applications of electronic detonators. It emphasizes the critical role of advanced technologies and innovative practices in rock blasting to enhance both safety and efficiency. Distinguished chief guests, honored guests and expert speakers have shared insights on the safe and effective application of electronic detonators in rock blasting operations. During the Inaugural Function- Sri. M. Nanjundaswamy IPS- Additional DGP- Govt. of Karnataka was Chief Guest and Sri. Sharath Kumar Pallerla- Advisor - Ministry of Environment, Forest & Climate Change was Guest of Honour. During Valedictory function- Dr. Sripad R. Naik- Director- National Institute of Rock Mechanics- Bangalore was Chief Guest and Sri. Satheesh Kumar Dasyapu- Director- AMD- Hyderabad was the Guest of Honour. More than 125 delegates have attended from 53 organizations from 14 states of India and 3 other countries. The workshop is jointly organized by NITK, Surathkal, CSIR-CMIFR Nagpur & Anna University represented by the organizing Convenors Prof. Karra Ram Chandar, Dr. A.K. Raina and Dr. P. Balamadeswaran.

## DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

### Workshop Organized

- 21 day workshop on Master Trainer Training Program (MTTP) on Advanced Welding Systems, sponsored by Bharat Ratna M Visvesvaraya National Training Facility for Skill for All (BMVNTFSA), Ministry of Skill Development, Govt of Karnataka, dates: 22/01/2024 to 10/01/2024, Coordinators: Dr Udaya Bhat K, Dr. Devadas Bhat, Dr. Vijay Desai, Dr. Vijesh V, Dr. Muralidhar
- 3<sup>rd</sup> Five-day National Workshop on Advanced Materials and Characterisation Techniques , 27<sup>th</sup>-31<sup>st</sup> January at NIT-Surathkal, Coordinators: Dr. Mohammad Rizwanur Rahman, Dr. Saumen Mandal and Dr. Keyur Raval

### Foreign Visitors to the Department

- To deliver the talk on the title “Bio-inspired Surface Engineering of Biomedical Implants for Prevention of MDR Infection”, Dr. Gnanasekar Sathishkumar, School of Materials and Energy, Southwest University, Chongqing, China, 20.01.2025
- Dr. Shishira Bhagavath, Post-Doctoral Research Fellow at MSM@H group College, London delivered a talk on “Revealing melt pool dynamics and spatter formation in Laser powder bed fusion using synchrotron imaging on 19-09-2024

### Indian Visitors to Department

- Dr. Kishora Shetty, Associate Technical Fellow and Global Technology Leader, Materials & Manufacturing, Boeing Research & Technology, Boeing India Pvt. Ltd., Bengaluru visited the department to addressing the students.

### STTPS (Short Term Training Programmes)/Schools:

- “Workshop on UV protective coatings” for high schools and PU colleges on 27th January 2025 as a part of SERB Scientific Social Responsibility (SERB SSR) activity. Dr. Saumen Mandal

### Expert Talks:

- Mr. George de Souza, Airbus India Private Limited, Bengaluru, delivered a talk on “Overview of Aircraft Materials and Process” on 27-11-2024

### Lecture Series:

#### Prof. T. Ramchandran Lecture Series:

The Department of MME organized the 33<sup>rd</sup> and 34<sup>th</sup> lectures in Prof. T. Ramchandran Lecture Series on 4<sup>th</sup> November 2024. Prof. Raghavan Jayaraman, an alumnus of NITK and Director of the Composite Materials and Structures Research Group at the University of Manitoba, Canada, delivered the 33<sup>rd</sup> lecture in the series. His lecture, titled “Development of Natural Fiber Composites for Transportation Applications,” provided insights into sustainable materials for the transportation sector. Dr. T.P.D. Rajan, Senior Principal Scientist at CSIR-NIIST, Thiruvananthapuram, and also an alumnus of NITK, delivered the 34<sup>th</sup> lecture, presenting on “Aluminium Alloys and Composites: Transforming the Transport and Energy Landscape.”

## DEPARTMENT OF MECHANICAL ENGINEERING

### CONFERENCE ORGANISED –

- 13th International Conference on Precision, Meso, Micro and Nano Engineering (COPEN-13), Prof. Srikanth Bontha, Dr. Sudhakar Jambagi, Dr. Suvin P S and Dr. Ranjeet Kumar Sahu, Co-hosted by Department of Mechanical Engineering, NITK Surathkal in collaboration with NIT Calicut (Host Institute), IIT Palakkad and IIST Thiruvananthapuram, 13/12/2024 to 15/12/2024.
- 1st National Conference on Climate Resilience and Environmentally Sustainable Technology (NITK-CREST 2025), Dr. Ranjeet Kumar Sahu, Co-organized by Department of Mechanical Engineering, NITK Surathkal in association with Department of Chemical Engg-NITK, Department of Civil Engg- NITK, Department of E&C Engg-NITK, Department of Computer Science Engg-NITK and Department of M&M Engg-NITK, 27/02/2025 to 01/03/2025

### WORKSHOP ORGANISED –

- Safe and Sustainable aviation and UAVs, P S Suvin, Sharanappa J, Abhilash S, Deepak K, Nikhil K S, 03-03-2025 to 07-03-2025
- Aeromedelling Workshop, Dr Sharanappa J, Dr Arunkumar Shettigar, Dr Navin Karanth, and Dr Mervin Joe Thomas, 21/03/2025 to 23/03/2025.

#### INVITED TALKS BY DEPARTMENT FACULTIES –

- Dr. Atul Singh Rajput, Post Processing of Additively Manufactured Parts, IITB.
- Sathyabhama A, Absorption refrigeration system, JNTUH (online mode)
- Dr. Ranjeet Kumar Sahu, Advances in Materials and Manufacturing, NIT Rourkela
- Dr. Saurabh Chandraker, Challenges in Green Energy Solutions, GEC Plamu.
- Dr. Saurabh Chandraker, Advanced processing route and characterization of HEA's, NMDC, polytecnic.
- Dr. Deepak Kumar, Introduction to Morphy Wings: Design and Development, GEC, Siwan (online)
- Dr. Deepak Kumar, Seope of higher education in Engineering, SEC, Supaul (online)
- Dr. Abhilash Singh, Brain Injury and Helmets: A Mechanical Perspective on Investigation, SRMU, Lucknow (online)
- Dr. Abhilash Singh, Advancements in Materials and Manufacturing Processes, Short Term Training Program (STTP), bhopal
- Khyati Verma, Enhancing Survivability in High-Risk Environments, Through Wearable Technology, Scientific Summit, Hanyang University, Survivability Signal Intelligence Research Center, South Korea (Online).
- Dr Mervin Joe Thomas, How Robots are Shaping Our World?, Department of Mechatronics Engineering, KCG College of Technology, Chennai
- Dr Mervin Joe Thomas, Theoretical Design, Computation & Modelling' from the perspective of RoboticsMechanics, National Institute of Technology Calicut, Kerala, India.
- Dr Mervin Joe Thomas, Artificial Intelligence for Modeling and Control of RoboticSystems, Department of Electrical Engineering & Mechanical Engineering, NIT Calicut.
- Dr Mervin Joe Thomas, Low cost Automation Technologies and Smart Manufacturing, Department of Mechanical Engineering, NIT Calicut
- Dr Mervin Joe Thomas, Modelling of Robotics System, Lendi Institute of Engineering and Technology, Andhra Pradesh

#### DEPARTMENT OF PHYSICS

- National Science Day was celebrated in a grant manner with participation from sixteen schools from around NITK. Prof. N. Suryaprakash, IISc., Bengaluru and Dr. Dileep Mampallil delivered public lectures at the event. It also featured Science exhibition, inter school quiz competition etc.

#### Indian Visitors to Department

- Prof. Raghunath Chelakkot, Professor, Indian Institute of Technology, Bombay, Expert Lecture, 04/11/2024
- Dr. Dileep Mampallil, Associate Professor, Indian Institute of Science Education and Research, Tirupati, Public Lecture, 28/02/2025

#### Expert Talks

- Expert Talk on “**Active Matter: Physicists Attempt to Understand Life**” by Prof. Raghunath Chelakkot from Physics Department, Indian Institute of Technology Bombay on 4<sup>th</sup> November 2024.

#### Faculty Development Programme

- Prof. Ajith K M and Dr. Sreenath V attended two-day Faculty Development Program (FDP) on Innovation & Entrepreneurship at IIIT Dharwad from 25 - 26 March, 2025 as part of Capacity Building in Design and Entrepreneurship (CBDE) a key component of the Malaviya Mission Teacher Training Program (MMTTP) Scheme of Ministry of Education.

## SCHOOL OF HUMANITIES, SOCIAL SCIENCES AND MANAGEMENT

### STTPS (Short Term Training Programmes)/SCHOOLS

#### Dr. Sheena

- A short-term training programme of five-day duration titled, “Relationship Selling and Technical Sales” was conducted for the MBA students of NITK from 05-01-2024 – 09-01-2024.
- A short-term training programme of five-day duration titled, “Contemporary Skill Development in Effective Leadership, Team-Building and Communication” was conducted for the MBA students of NITK from 20-03-2023 – 24-03-2023.

#### Dr. Bijuna C. Mohan

- Two awareness programs on design for MSMEs were conducted on 15<sup>th</sup> March 2024 and 27<sup>th</sup> March 2024. The programs were sponsored by the Ministry of MSME.

### Conferences

- Dhishna P convened the Two-Day International Conference on Gender Studies from 21 to 22 September 2023, hosted by the School of Humanities, Social Sciences & Management, National Institute of Technology Karnataka.

### Workshops

#### Prof. Shashikantha Koudur

- Workshops organised (as PiC, SRC): Mind Your Money (on Financial Literacy for Teaching and non-teaching staff) on 15 February 2024

#### Dr. Sheena

- 20 one-day workshops conducted for various engineering colleges in the states of Karnataka, Kerala and Tamil Nadu on Virtual labs as the Outreach Coordinator, Centre for System Design, NITK from April 1<sup>st</sup>, 2023 – March 31<sup>st</sup>, 2024.

#### Dr. Savita Bhat

- School of HSSM, NITK, hosted a one-day workshop on “Strategies to Increase Millet Consumption among Youth in Dakshina Kannada: The ICSSR-sponsored workshop under Short-Term Empirical Research Projects 2023–24”, on March 7, 2024. The workshop was attended by 50 participants. The workshop was organized by Dr. Savita Bhat.

#### Dr. Bijuna C. Mohan

- School of Humanities Social Sciences and Management hosted a Five-day MDP on Relationship selling and technical sales” from 5<sup>th</sup> to 9<sup>th</sup> January 2024 at NITK Surathkal. The workshop was attended by 40 participants which included the MBA students, research scholars, and faculty of the School of Management The workshop was organised by Dr. Bijuna C Mohan and Dr Sheena. The resource person was Prof. Jay P Mulki, D” Amore-Mc Kim School of Business, Northeastern University, Boston.

### Faculty Development Programme

#### Dr. Sheena

- Three Management Development Programmes of five-day duration were conducted for the newly joined recruits of MRPL from October 2023 till December 2023.

### **Stress Management Training and Other Programs**

#### **Prof. Shashikantha Koudur**

- Campus Bird Count (As PiC, SRC): a Campus-wide event for staff (open to the interested public) on bird watching and bird count on campus and its vicinity, organised on 18 February 2024. This was part of a global event titled Global Backyard Bird Count. Around 70 people participated with the number of species observed being 103 in 3 hrs.

### **DEPARTMENT OF WATER RESOURCES AND OCEAN ENGINEERING**

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

- Title of the Event: One day Workshop on “INNOVATIVE CONCEPTS IN OCEAN ENGINEERING”. Coordinator/Co-Coordinator (as in the Event brochure): Dr. Manu  
Held during: 28<sup>th</sup> July 2023  
Name of the Chief Guest/s, Keynote Speaker, etc. with affiliation (not from NITK): Prof. S.A Sannasiraj, Professor, IIT, Madras,  
Retd. Prof. Arkal Vittal Hegde, NITK, Surathkal,  
Dr. Kumaran Vishwanathan., Scientist,  
Dr. Sandesh Upadhyay  
Dr. Ramesh N., Scientist E, CWPRS, Pune
- Title of the Event: GIAN Course on "Ocean Wave Energy Conversion Technology and Modelling Techniques". Coordinator/Co-Coordinator (as in the Event brochure): Dr. Debabrata Karmakar Held during 27<sup>th</sup> November - 1<sup>st</sup> December 2023 Name of the Chief Guest/s, Keynote Speaker, etc. with affiliation (not from NITK): Dr. Matt Folley, Director, Applied Renewables Research Limited, United Kingdom.
- Title of the Event: One day Workshop on “INNOVATIVE CONCEPTS IN OCEAN ENGINEERING”. Coordinator/Co-Coordinator (as in the Event brochure): Dr. Manu Held on 28<sup>th</sup> July 2023. Name of the Chief Guest/s, Keynote Speaker, etc. with affiliation (not from NITK): Prof. S.A Sannasiraj, Professor, IIT, Madras, Retd. Prof. Arkal Vittal Hegde, NITK, Surathkal, Dr. Kumaran Vishwanathan., Scientist, Dr. Sandesh Upadhyay, Dr. Ramesh N., Scientist E, CWPRS, Pune.

### **Foreign Visitors to the Department**

- Dr Matt Folley, Director of Applied Renewables Research Limited Northern Ireland, United Kingdom visited on 27<sup>th</sup> November.



## 13 ASSOCIATED CENTERS/UNITS

### 13.1 NCC

#### Kargil Diwas Celebration, Date: 26 July 2024



#### National Cadets Corps (NCC)'s 10 days CATC/TSC-III training program, Date : 01 August to 10 August 2024



#### Swachhata Hi Sewa campaign (Beach cleaning activity), Date: 22.9.2024

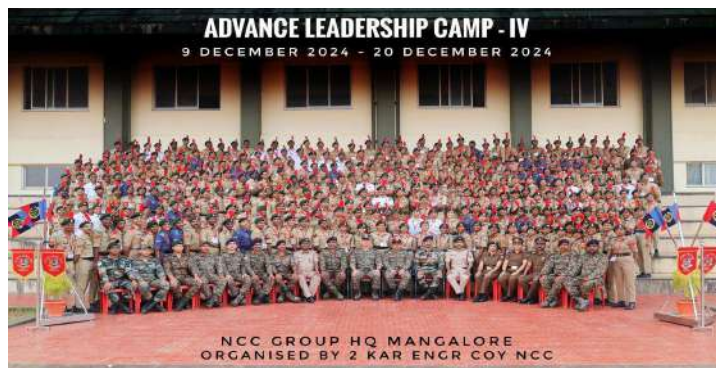
#### World Water Day Date: 25 September 2024



**NCC BLOOD DONATION DRIVE 24, Date 24.11.2024**



**ADVANCE LEADERSHIP CAMP –IV, Date : 09 December to 20 December 2024**



**Republic Day, Date: 26 January 2025**



## 13.2 NSS (NATIONAL SERVICE SCHEME)



### Viveka Jagruthi Session

**Motto** – “How meditation enhances focus”

**DESCRIPTION:** This session is enlightened by the presence of the famous speaker from RIMSE Swami Mahamedhanandaji. We at NSS NITK organised this event in collaboration with the other club i.e; Utkrishta Bharath . In this event Mahamedhananda ji delivered his sayings in a motivational way which helps individuals to deepen their understanding of self-awareness, spiritual growth, and mental clarity. This session mainly focuses on individuals who are dealing with emotional and mental health issues. And this session mainly focuses on the importance of meditation and it's importance in real life.



### MCC event – NSS human chain

**Motto** – “Together for a stronger unity, progress and prosperity”.



**DESCRIPTION:** This event is a transformative program designed to guide individuals through a journey of self-discovery, growth, and personal empowerment. We at NSS NITK organised this event by forming a human chain. This event offers a structured path to help participants unlock their full potential, cultivate inner strength, and embrace their true selves. Through a blend of experiential learning, reflection, and actionable tools, this journey empowers individuals to overcome obstacles, challenge limiting beliefs, and step into their power. Gain a deep understanding of your strengths,

value, and potential. By participating in this event one can break through limitations, uncover hidden talents, and evolve into a more empowered version of yourself. Achieve a clear vision for your life and make decisions that align with your true purpose and values.

### Plantation event

**Motto** – “Plant a tree, grow a legacy”

**DESCRIPTION:** We at NSS NITK organized a saplings plantation at NITK, Mangalore. This drive was a great way to improve the environment, raise awareness about the importance of trees, and get people involved in their communities. Sapling plantation drives can be a valuable educational experience, they can teach people about the importance of trees, the benefits of tree planting, and how to care for trees properly. Participating in a sapling plantation drive is a great way to get some exercise and fresh air, while also making a positive impact on the environment.



### **NITK Beach cleanup**

**Motto** – “NSS: Nurturing a Sustainable Shore”



**DESCRIPTION:** We at NSS NITK organised the beach cleanup event. This event enhances individuals towards maintaining a clean environment and motivates people to step towards keeping our surroundings clean and green. Our motive in conducting this event is making people to know that shoreline is first for maintaining cleanliness and there by which leads to spend a peaceful and pollution free time leaving footprints and not the dirt.

### **Swachhatha pakwada college cleanup**

**Motto** – “Sawchhata hi Sewa Hai”

**DESCRIPTION:** As part of the Swachhata Pakhwada initiative, the NSS Unit of NITK Surathkal have organised a college clean-up drive. We NSS volunteers has come together to clean the campus, remove waste and debris, and promote greenery and motivated people towards a step towards swachhatha. The event aims to foster a culture of cleanliness and environmental awareness among students, faculty, and staff. We contributed in making our campus a cleaner, greener, and more beautiful place.



**Motto** – “Swabhav swachhatha sanskaar swachhatha”



**DESCRIPTION:** We at NSS NITK conducted this event with a motive to maintain green and to create some awareness in public. This is a part of the whole swachhatha campaign. We NSS volunteers and staff of NITK has been part of this event by doing a rally holding pluck cards having slogans written on them. Continued the rally to surathkal city by raising our voices out in the form of one line slogans.

### **Career Awareness programme for 10<sup>th</sup> standard students**

**Motto** – “Empowering Choices, Enriching Futures”

**DESCRIPTION:** Career awareness is one of the major thing to know in ones individual life, especially for students. The NSS unit of NITK has organised a Career Awareness Program for 10th class students. The program aims to guide and inspire young minds to make informed career choices. NSS volunteers will conduct interactive sessions, workshops, and one-on-one counseling to provide insights into various career options, educational pathways, and skill development. The program will cover topics such as career assessment, goal setting, and planning for higher education. By empowering students with knowledge and guidance, we hope to help them navigate their future career paths with confidence.



### **Concluding ceremony of special campaign 4.0**

**Motto** – “concluding swachhatha campaign by hoping it’s continuation further”



**DESCRIPTION:** We at NSS NITK conducted a concluding ceremony for all the events conducted as part of the swachhatha campaign 4.0. On this day all the staff of NITK who participated in swachhatha events and the whole NSS unit has come to the event. dignitaries Spoke the importance of maintaining swachhatha and had a vote of thanks programme for making it a great success and concluded the event by singing national anthem.

### **Inner Engineering programme**

**Motto** – “Empowering Inner Strength, Enriching Lives”

**DESCRIPTION:** The NSS Unit of NITK Surathkal is proud to present the Inner Engineering program, this programme is designed by sadhguru this is an unique initiative aimed at fostering holistic well-being and self-awareness among students. Conducted by NSS volunteers in collaboration with other 3 clubs, this program is designed to help participants explore their inner potential, manage stress, and cultivate a sense of purpose and fulfillment. Through a series of interactive sessions, meditation, and yoga, participants will embark on a transformative journey of self-discovery and growth. Inner engineering is neither a religion nor a philosophy. One do not have to believe or disbelieve, just have to learn to use. Technology will produce results irrespective of who you are.

### **ANNUAL CAMP 2025 - Ascend to greatness - ‘Building Character, Community Service – At a time’**

#### **Day 1- Inauguration:**

The NSS camp commenced with a sense of anticipation and trepidation among the participants, as we gathered for the inaugural ceremony in the seminar hall at the Mechanical Department at 11:30 am on 27th January, 2025 with a lamp lighting by respected Dr. Arun Shettiger Sir, Chittaranjan Hegde Sir and along with the other guests. Eager faces filled the venue, buzzing with excitement and a hint of apprehension about the days ahead. As they awaited the commencement of activities, thoughts swirled about the upcoming experiences, painting a picture of what was to come.



#### **DAY 2 – COMMUNITY SERVICE AND BONDING**

The day began with a 5:30 AM roll call, followed by morning exercises and running to keep us active and energized. After a refreshing breakfast, we conducted a road-cleaning drive in Pilikula, successfully collecting and disposing of garbage to contribute to a cleaner environment. Post-cleaning, we visited the Muthu House, a cultural heritage site reflecting the traditions and customs of Pilikula. Later in the day, we explored the Pilikula Biological Park, where we observed various life forms. This visit was both educational and exciting, allowing us to learn about biodiversity and conservation efforts. The day ended with fun activities, soothing music during dinner, and a well-deserved rest.

#### **DAY 3 – CLEANING**

On Day 3, continuing our commitment to cleanliness, we cleaned the roads near Pilikula Lake Park. The activity was followed by a boat ride, which was an enjoyable and refreshing experience. Later, we embarked on a trekking expedition, where we immersed ourselves in the beauty of nature, making it one of the most captivating experiences of the camp. The day concluded with a discussion and planning session for the upcoming activities.



#### DAY 4 – SCHOOL ACTIVITIES

Day 4 was one of the most fulfilling experiences of the camp, marked by our visit to a local school. We interacted with students and conducted quizzes, a mathematical test, and co-curricular activities such as dancing, singing, and origami. We distributed prizes to the winners, encouraging their enthusiasm and participation. After returning to the camp, we visited the Pilikula Science Park, where we witnessed a stunning 3D visualization of the universe, leaving us mesmerized.



#### DAY 5 – Valedictory



The fifth and final day of our NSS annual camp began with the valedictory function, graced by honorable guests—Prof. A. C. Hegde (Dean, Student Welfare, NITK), Dr. Aruna Kumar Shetty, and Manoj Sir from Mangalore—at 10 o'clock. The program featured inspiring speeches from volunteers who shared their experiences, followed by a motivational address from the Dean of Student Welfare. The day concluded with a sense of fulfillment, marking the successful

culmination of the camp.

#### WATERWELL DIGGING :-

##### Event date - 11<sup>TH</sup> MARCH , 2025

On 11th March 2025, a Water Well Digging initiative was successfully conducted at NITK Surathkal. The event was inaugurated by the Dean of Students' Welfare (DSW) and the Advisor of NSS. This project aims to address the recurring water scarcity issue faced by the campus during the summer months.

The well is currently under construction, with the primary purpose of storing water for future usage. Given the seasonal water shortage, this well will serve as an essential resource to ensure a steady water supply for the campus during times of increased demand.



#### BLOOD DONATION CAMP :-

##### Event date :- 22<sup>ND</sup> march , 2025

On 22nd March 2025, a Blood Donation Camp was organized on campus at mega mess, and it proved to be a great success. The event saw participation from several hospitals, including KMC and AJ, who joined the campus to support the initiative.

The camp witnessed a tremendous response from students, with over 200 students volunteering to donate blood. This collective effort not only helped raise awareness about the importance of blood donation but also contributed significantly to meeting the demand for blood in local hospitals. Their professional teams ensured the process ran smoothly, ensuring the safety and well-being of all donors.



#### CONCLUSION:-

The Overall events organized and the Annual NSS Camp 2024–2025 was a memorable journey of service, learning, and cultural exchange. It instilled in us a deep sense of responsibility, teamwork, and leadership, leaving a lasting impact on every participant.

### 13.3 CRF Central Research Facility

Number of internal sample testing done	11,070
Number of external academia/research/industry samples testing done	2750
<b>Total number of samples tested to date</b>	<b>13,820</b>

#### .Visitors during April 2024 to March 2025 : 747

Si no	Date	Name of the Institute/Industry	No of Students/Facultys/Industrialist
1	03-05-2024	Prof K Dharun Singh from IIT Guwahati	1
2	07-06-2024	Honeywell Team	1
3	20-06-2024	DRDO visit	1
4	09-07-2024	Prof Keshav Mahajan, Hiroshima University, Japan	1
5	29-07-2024	Kannur Unviersity, Kerala	20
6	05-08-2024	Yenepoya Institute of Technology	23
7	06-08-2024	Srinivas College , Mukka	2
8	07-08-2024	Prof Vijayan Sugumaran, Chairman of Decision & Information Science from Oakland University	1
9	12-08-2024	Srinivas College , Mukka	1
10	17-08-2024	Dr. Shridhara Narayanan, Scientist	1
11	14-08-2024	Dr. Kishore Shetty. Boeing Scientist	62
12	05-09-2024	Bearys Institute of Technology , Mangalore	36
13	17-09-2024	Karnataka Government Polytechnic, Mangalore	5
14	19-09-2024	SRM Institute of Science & Technology, Chennai	1
15	25-09-2024	Innovation design and Entrepreneurship (IDE) Boot camp sponsored by Ministry of Innovation Council and AICTE visited	42
16	30-09-2024	Structural Engineering, MTech 1 <sup>st</sup> year, NITK	18

17	08-10-2024	Sri Ramakrishna Engineering College, Coimbatore	2
18	08-10-2024	GCGCMS Service engineer	1
19	08-10-2024	Prof Nageshawara Rao , IIT Guwahati	1
20	09-10-2024	Mr. Vijay Sai Chemical department BOS member from L&T	1
21	14-10-2024	Professor J N Moorthy, Director of IISER Thiruvananthapuram, Professor Dilip Kumar Chand of IIT Madras, Professor R Karvembu NIT Trichy	1
22	16-10-2024	Ms. Chikako Hiura from Tech Japan Inc. Visited CRF on 16th	1
23	18-10-2024	Mr Mukesh Bhat ,Vice President, Nissan Product Engineering	1
24	22-10-2024	Professor Omid Ansary at Penn State University, Executive Director of International affairs	1
25	28-10-2024	Prof Vidya Bhushan Maji, Geotechnical department, IIT madras	1
26	28-10-2024	Principal of Navodaya Institute of Technology Raichur, Karnataka	94
27	30-10-2024	Shri Kendriya Vidyalaya No 1, Panambur, Mangalore	64
28	18-11-2024	Civil Engineering Department, NITK Surathkal	54
29	22-11-2024	Srinivas University Institute of Engineering & Technology (SUIET), Mukka	56
30	22-11-2024	AJ Institute of engineering and technology conducting five days of Faculty Development Program on Additive Manufacturing (Mechanical Engineering)	45
31	22-11-2024	Prof. Suraya Abdul Rashid, Department of Chemical and Environmental Engineering, University Putra Malaysia	1
32	23-11-2024	Shri A S Kiran Kumar Member, Space Commission Ex ISRO Chief.	16
33	26-11-2024	Christ College (Autonomous), Irinjalakuda, Kerala	15
34	28-11-2024	Dr. Pavan and Dr. Thamilselvan from Nitte University Deralakatte	2
35	29-11-2024	Nitte, Bangalore, Civil Department	3
36	18-12-2024	Mr. Benakappa Doddamane Gowda , Mr. Suguru Rudrappa Maheshwarappa , Mr. Lokesh Jayadevappa, Mr Chetan Chenna, Mr. Mahaveer Jain & Mr. Ilangoan Industrialist from Shivamogga Visited Crf on 20th December 2024	6
37	05-01-2025	Prof. Juan Carlos from Polish Academy of Sciences	1
38	06-01-2025	Government Polytechnic For Women's Bondel Mangalore	12
39	07-01-2025	Shri Narayana Guru Educational Institutions, Mulki	27

40	07-01-2025	IDE Bootcamp sponsored by Ministry of Innovation Council and AICTE	35
41	09-01-2025	Sree Gokulam Arts and Science College, Balussery, Kerala	23
42	09-01-2025	Adjunct Professor B.V.R. Chowdari, Senior Executive Director & President Emeritus Materials Research Society of Singapore (MRS-S)	1
43	14-01-2025	Pocker Sahib Memorial Orphanage College , Kerala	29
44	28-01-2025	Professor N Siva Shanmugam from NIT Trichy	1
45	28-01-2025	Dr. C D Madhusoodana, GM of BHEL Hyderabad	1
46	28-01-2025	Prof G Prabusankar Department of Chemistry, IIT Hyderabad	1
47	04-02-2025	Safe and Sustainable Aviation and UAVs 2.0” students (B.Tech) of local engineering colleges and NITK	34
48	06-02-25025	Shri. M S Venkatesh, Retd Executive Director HAL	1

### **13.4 Yoga Centre**

A full-fledged centre is running as per the guidelines of NEP -2020. 1<sup>st</sup> year B.Tech. students can opt for a yoga certificate course under the guidelines of a certified yoga practitioner. The course is for 1 credit upon successful completion.

### **13.5 SCIENCE AND TECHNOLOGY ENTREPRENEURS'S PARK (STEP)**

#### **ACTIVITIES**

On May 16th, 2024, the AIC-ADT Baramati Foundation successfully hosted an online seminar focused on driving innovation and bolstering support for early-stage startups. The STEP staff actively participated, showcasing their commitment to fostering entrepreneurial growth.

NaaViC - NIVEDI's Agri-Business Incubation Centre in Bangalore held a heartfelt Incubators Conclave on May 17th, 2024. This meaningful event took place at the renowned Karnataka Science and Technology Academy (KSTA) in Yelahanka, Bengaluru. It was encouraging to see the active participation from the STEP staffs.

On June 13, 2024, the Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR) in Bengaluru organized ACS Ignite 2024. This forum provided a platform for academics and DeepTech startups to showcase their innovations and seek funding from venture capitalists and industries. Two startups of STEP, AIRAT Systems LLP and Sri Shasha Prayathi Technologies Pvt. Ltd., participated in the above event.

Following a period of 30 years, the initial phase of renovations at NITK-STEP Administration has been successfully completed. In conjunction with this accomplishment, a Ganahoma ceremony was scheduled at the place on Monday, August 19, 2024.



On August 22, 2024, Professor Subray R. Hegde, the Professor in Charge at NITK-STEP, conducted an orientation for new undergraduate students. The presentation offered a detailed overview of the various activities organized within STEP.

The IDE Bootcamp, sponsored by the Ministry of Innovation Council and the All India Council for Technical Education (AICTE), was conducted from September 23 to September 27, 2024, at the National Institute of Technology Karnataka (NITK). Professor Subray R. Hegde, serving as the Faculty Co-Convenor at NITK-STEP, played a pivotal role in the organization of this program. Dr. Suprabha K. R. acted as the Nodal Center Single Point of Contact (SPOC) and Faculty Convenor for the Bootcamp. The collaboration between STEP and the Entrepreneurship Cell significantly contributed to the success of this event.

On September 21, 2024, Mr. Abhishek Ranjan, Innovation Officer of the MoE's Innovation Council, confidently visited NITK-STEP. He was warmly welcomed by Professor Subray R. Hegde, the Professor in Charge at NITK-STEP. During the visit, Mr. Abhishek Ranjan provided a comprehensive update on the various centrally funded innovation and entrepreneurship programs and competitions.

On 28th September 2024, Mr. Sam Jayakumar, the Innovation Manager at AICTE, visited STEP. He was welcomed by Professor Subray R. Hegde, the Professor in Charge at NITK-STEP, Sam provided an overview of various AICTE schemes for collaborations with technical institutes in the state.

On September 30, 2024, Master of Computer Applications (MCA) students from Srinivas University, along with Professor Dr. Navin N. Bappalige, who is a Professor of Physics and the Director of the Incubation Centre, visited the Science and Technology Entrepreneur's Park (STEP). Professor Subray R. Hegde, the Professor in Charge at NITK-STEP, warmly welcomed the students and faculty members. He provided a detailed overview of the various activities conducted at STEP. Additionally, Dr. Suprabha K. R., Associate Professor of HSSM, gave a talk on startups.

During the Navaratri festival, STEP hosted the Ayudha Pooja on October 10, 2024. This event provided a valuable opportunity for all incubate participants and guests to visit the STEP campus along with their families, thereby enhancing community engagement and participation in this significant occasion.

The 4th edition of Mangaluru Technovanza - 2024 was on October 24, 2024, at the Dr. TMA Pai International Convention Centre in Mangaluru. This event is a significant platform designed to highlight the emerging technology clusters and innovations that are shaping the IT, Animation, Visual Effects, Gaming, and Comics (AVGC), Fintech, and Science and Technology sectors in Karnataka. Professor Subray R. Hegde, who serves as the Professor in Charge at NITK-STEP, along with the STEP staff, had participated in this event.

On October 29, 2024, Sahyadri College organized an Idea Hackathon sponsored by the Ministry of Micro, Small, and Medium Enterprises (MSME). This event provided an opportunity for students from various colleges and local startups to present and showcase their innovative ideas. Additionally, staff members from the NITK STEP served as jury members for this event.

On 13 December 2024, Professor Subray R. Hegde, who serves as the Professor in Charge at NITK-STEP, visited Mangalore Refinery and Petrochemicals Limited (MRPL). During this visit, he met with Mr. Nandakumar V, the Director of Refinery at MRPL, to discuss the current status of STEP. Professor Hegde also extended an invitation for Mr. Nandakumar to visit STEP in the near future.

A Short-Term Training Programme on Entrepreneurship (STTP@STEP) was organized from January 6 to January 10, 2025, in collaboration with the Institution's Innovation Council (IIC) and the Entrepreneurship Cell (E-Cell). NIT Sikkim, which is in the early stages of developing its business incubation program, requested NIT Karnataka (NITK) to train and provide exposure to the entrepreneurship and startup ecosystem for a select group of third-year BTech students and faculty. As NIT Sikkim and NITK are sister organizations, NITK accepted their request and agreed to host the training at NITK-STEP. Since there were only 12 students from NIT Sikkim, it was decided to

invite a few students from Subramanya College, Mangalore University, and Puttur Vivekananda Engineering College to participate and benefit from the program.

On January 24, 2025, Dr. Kishor Shetty, an Associate Technical Fellow at Boeing India, paid a visit to STEP. He was warmly welcomed by Professor Subray R. Hegde, the head of STEP.

On January 27, 2025, Professor Subray R. Hegde, Professor in Charge at NITK-STEP, and Dr. Suprabha K. R., Associate Professor of Humanities and Social Sciences Management, visited MCF. During the visit, they met with Mr. S. Girish, Chief Manufacturing Officer; Mr. Raghavendra, General Manager of Operations; and Mr. Nagaprasana, Head of Inspection. This meeting facilitated a sponsorship by MCF for the NITK Symposium on Sustainable Farming, an exchange of work culture that will benefit STEP in the coming days.

On January 31, 2025, Mr. Nandakumar V, the Director of Refinery at MRPL, and Mr. Prashanth Shenoy, Co-Founder of UniCourt, visited STEP. They were received by Professor Subray R. Hegde, the head of STEP, who provided information on the ongoing projects at STEP.

On February 1st, 2025, Dr. Surya Kanth, the Programme Director of the Ministry of Electronics and Information Technology and the IT-Startup Hub, Government of India, visited Professor Subray R. Hegde, the head of STEP.

During this meeting, Dr. Kanth provided updates on various programs launched for incubation in IT and electronics technologies.

The INCUB8 program, organized by the Entrepreneurship Cell from 31<sup>st</sup> January to 2<sup>nd</sup> February 2025, aimed to cultivate essential venture-building skills among participants while refining their business ideas. Participants received valuable guidance from industry experts, equipping them with practical tools and mentorship to foster entrepreneurial growth. Professor Subray R. Hegde, Professor in Charge at NITK-STEP, played a crucial role in the organization of this initiative, alongside Dr. Suprabha K. R., Associate Professor of Humanities and Social Sciences Management and Faculty Adviser to the Entrepreneurship Cell.

On February 7, 2025, a Memorandum of Understanding (MOU) was established between the Entrepreneurship Cell (E-cell) and the Science and Technology Entrepreneurship Park (STEP). As part of this agreement, a designated space has been allocated for student use at no cost. Professor B. Ravi, Director of the National Institute of Technology Karnataka (NITK) Surathkal, formally exchanged signed copies of the MOU with the representatives. In attendance at this event were Professor Subray R. Hegde, Professor in Charge at NITK-STEP, and Dr. Suprabha K. R., Associate Professor of Humanities and Social Sciences Management and Faculty Adviser to the Entrepreneurship Cell.

On February 14, 2025, Ms. Camilla Thoma, a venture capitalist from Tavis Capital in Switzerland, visited the Science and Technology Entrepreneurship Park (STEP). During this visit, Professor Subray R. Hegde, who serves as the Professor in Charge at NITK-STEP, and Dr. Dastagiri Reddy, Assistant Professor in the Department of Electrical and Electronics Engineering and Faculty Adviser to the Entrepreneurship Cell, extended their warm welcome to her. Throughout her visit, Ms. Thoma engaged with NITK students who presented their startup pitches and interacted with her on various entrepreneurial topics.

On February 20, 2025, Professor Subray R. Hegde, the Professor in Charge at NITK-STEP, held an informative orientation for new faculty members. This session focused on startup initiatives and funding opportunities available. The presentation provided a comprehensive overview of the various activities organized within STEP as well.

On February 22, 2025, Prof. Subray R. Hegde, represented NITK-STEP, and participated in NITKconnect-2025 along with the Director, and Dean(R&C), Dean(P&D), Dean(ACR), at Taj Yashwantpur, Bangalore.

On February 27, 2025, Deputy Commissioner of Mangalore, Mullai Muhilan M.P., visited the Science and Technology Entrepreneurship Park (STEP). He was accompanied by Professor B. Ravi, the Director of the National Institute of Technology Karnataka (NITK) in Surathkal, along with several Deans. They were warmly welcomed by Professor Subray R. Hegde, who is in charge of STEP.

The Faculty Development Program (FDP) on Design Thinking, Innovation, and Entrepreneurship, in collaboration with the Institution's Innovation Council (IIC) and the Science and Technology Entrepreneurs' Park (STEP), was held from March 17 to March 21, 2025, at STEP. Professor Subray R. Hegde played a crucial role in the organization of this program, while Dr. Suprabha K. R. served as the Faculty Convenor for the event. The partnership between STEP and the IIC significantly contributed to the overall success of this initiative.

On March 21, 2025, Professor B. Ravi, Director of the National Institute of Technology Karnataka (NITK) Surathkal, launched the new logo of STEP. During this ceremony, Mr. Rohit Bhat, who founded and exited @Robosoft and founded @99Games, was present. Additionally, Mr. Suyog Shetty, co-founder and CEO of Niveus Solutions, and Professor Subray R. Hegde, Professor in Charge at NITK-STEP, were present at this event.

On March 21, 2025, Professor B. Ravi, the esteemed Director of the National Institute of Technology Karnataka (NITK) Surathkal, joined forces with the innovative entrepreneur Mr. Rohit Bhat, founder of @Robosoft and @99Games, and Mr. Suyog Shetty, the dynamic co-founder and CEO of Niveus Solutions, for an important discussion. STEP Professor Subray R. Hegde, in charge at NITK-STEP, warmly welcomed them. Together, they envisioned transforming Mangalore and the surrounding coastal region of Karnataka into the "Silicon Beach of India," a vibrant and key IT hub ready to drive technological advancements and economic growth.

NITK – STEP @ 30 commemorated the 30th anniversary of STEP, marking a significant milestone in innovation, growth, and excellence on March 21, 2025. Distinguished guests included Shri B. Sudhakar Kotary, General Manager of Canara Bank Mangalore; Shri Kishore Alva, President and Executive Director of Adani Group; Shri Kalbavi Prakash Rao, Managing Partner of Kalbavi Cashews Mangalore; Professor Prasanna Belur D, Dean of Alumni and Corporate Relations at NITK; and Professor Subray R. Hegde, Professor in Charge at NITK-STEP. During the event, STEP recognized Mr. Harish Rao and Mr. Santhosh, employees who have dedicated 30 years of service, along with other individuals who have contributed significantly to STEP. To conclude the celebration, a musical night was organized featuring performances by students from the NITK Musical Club.

The All India Council for Technical Education (AICTE) and the Ministry of Education's Innovation Cell (MIC) jointly organized a five-day Faculty Development Program (FDP) focusing on Innovation and Entrepreneurship. This event took place at Sahyadri College of Engineering and Management in Mangaluru from March 24 to March 28,

2025. Professor Subray R. Hegde, the Professor in Charge at NITK-STEP, served as the Chief Guest and formally inaugurated the event.

On March 24, 2025, Mr. Shashank Rawat from Dream Incubator, a renowned Japanese consulting firm collaborating with ADB to support the THRIVE program, made an exciting visit to STEP. His purpose? To dive deep into the startup incubation and innovation initiatives at the NITK campus, as well as to explore the dynamic activities at STEP. He received a warm reception from Professor Subray R. Hegde, the head of STEP, setting the stage for an inspiring exchange of ideas and insights.

## 14 CAMPUS FACILITIES

### 14.1 Central Computer Center

#### ***Central Computer Centre and Campus Network***

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 Mohit P Tahiliani (Dept of CSE). CCC has the following permanent staff associated to it. One Systems Manager, One Senior Scientific Officer, Two Technical Officers, Two Assistant Engineers (SG-II), One Senior Technical Assistant, One Technician, One Assistant (SG-II) and One Junior Assistant. CCC also has 2 Helpers, Two House Keepers working on contract basis.

Professor-In-Charge, 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 10 Gbps OFC backbone to the different buildings, Departments, Residences (through the FTTH), 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 Wi-Fi network is also provided in addition to the wired networks in the different buildings.

NITK has 16Gbps Internet bandwidth - 1Gbps from National Knowledge Network, 10 Gbps from BSNL and 5Gbps from RailTel. Institute Network at present supports dual stack (IPv6/IPv4) & eduroam is deployed.

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 & RailTel, associated networking equipments and sufficient hardware to handle the critical backbone network services.

Main servers are connected to the data centre network. Critical services are accessible from inside and outside the network. CCC uses Dell/Lenovo Servers with Proxmox virtualisation environment / Ubuntu System containerisation environment. Eight new servers have been recently added to this environment. Servers from the Dept. of MACS & Central Library are hosted in the Data Centre.

NITK Website updates are entrusted with the CCC apart from the webserver maintenance. The domains of NITK (*nitk.ac.in* and *nitk.edu.in*) are also managed by CCC.

The Institute offers a campus-wide license to MATLAB, Simulink, and companion products. All faculty, researchers, and students are eligible to download and install these products on their university computers as well as their personally-owned computers.

The CCC second floor houses 100 desktops and the first-floor hall of CCC with about 80 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 devices. There is a helpdesk number **0824 2473085**. There is also a rate contract with the firm to facilitate any immediate need of network alterations/additions.

The facility has MESCOM Power and Diesel generator backup power. Two 20KVA, one 15 KVA online UPS systems and one 10 KVA UPS, provide backup power during the changeover. One 15 KVA and one 5 KVA UPS systems provide the power backup to the CCC LAN.

#### ***List of Laboratories in the Department***

1. CCC LAN with 180 Desktops
2. General Purpose Servers in the Data Centre and Virtual Servers on demand.
4. Matlab TAH based Licensing for the Campus

## **14.2 Central Library**

### **ABOUT THE LIBRARY:**

Central Library was established in the year 1960 along with the institute. Starting with a small collection of books, it has recorded impressive growth over the decades and is today considered as one of the best technical libraries in the country having modern facilities and fully automated library system. The Main Library is housed in a spacious three-storied building with the area of 3555.75 (Sq. mtr.) adjoining the main building of the Institute on the southern side. Being an integral part of academic and research work on the campus, the library caters to information services to support the teaching, learning and research activities of the Institute by providing state-of-the-art facilities and offering innovative services. Library operations are fully computerised with KOHA Integrated Library Management System and online catalogue for the entire holdings of books is accessible on/off the campus. The newly established e-Library Complex with the area of 2260 (Sq. mtr.) is equipped with the State-of-the-Art digital infrastructural facilities like Digital Learning Centre for Lecture Recording & Live Streaming of online programmes, Digitization & Archiving Centre, Cyber Libraries to conduct hands-on training, Seminar Halls, Discussion Rooms, Laptop Zones and cafeteria. It provides 24x7 services to 8000 plus on-campus library users.

### **VISION & MISSION:**

Library vision is to “To serve as one of the leading libraries of Technical & Engineering institutes in the country.”

Library mission is to “To provide the NITK user community with highest quality of information services to support their teaching-learning and research activities.”

#### **LEARNING RESOURCES:**

The library has a rich collection of research monographs, textbooks, current periodicals, periodical bound volumes, standards, conference proceedings, reference books, edited volumes, etc., encompassing all disciplines taught and researched at the Institute. The collection of reading materials in the library is rich and diverse, and it is growing day by day. Special emphasis has been given to e-books and e-journals, which one can access 24x7, whether on campus, at home, or on the move. Currently, the collection consists of more than 1,07,263 print books, 17,230 periodical bound volumes, nearly 43,745 e-books, 60 print periodicals, 11,367 full-text e-journals, 960 e-theses, and 35 online databases.

The library added the following e-Resources during the financial year 2024-25 to support teaching and research.

##### **e-Book Collections:**

- Springer Nature : Lecture Notes-Electrical - 2025 CY (130 Titles), Lecture Notes-Civil - 2025 CY (100 Titles) & Lecture Notes-Mechanical - 2025 CY (100 Titles)
- IoP eBook Collection (2023 & 2024 CY)
- Springer Computer Science eBooks collection with access to LNCS Backfiles (2025 CY) (1233 titles)
- Springer Synthesis collection of Technology (2024 CY) (115 titles)
- IEEE Wiley eBook Collections (Data Cyber Security (234 Titles); Semiconductors (374 Titles); Manning eBooks Library (497 Titles))
- Oxford University Press eBook Collection (Physics, Env. Sc, Earth Sc. & Geography, Maths and Chemistry) (264 Titles)
- Sage Business Cases (6700 plus Titles)
- Packt eBooks Collection (CY-2022,2023 &2024) with Packt Learning Videos Complimentary Access (1342 Titles)
- McGraw Hill S&T eBooks Collection (487 Titles)
- Wiley eBook Collections: Wiley Syllabus eTextbook Collection (225 Titles) Wiley Emerging Technologies Collection (100 Titles)
- World Scientific Science eBook Collection (363 titles)

#### **LEARNING SPACES:**

For many students, the library is a favoured place of learning and a popular meeting place in the campus. We offer more than 1000 seating capacity in the library. For teamwork, there are 6 group discussion rooms (10-students capacity) available in the e-Library Complex. For those who prefer to study undisturbed, there are individual study places (carrels) in the Ground Floor of the e-Library Complex. More than 50% of the reading places have power sockets to recharge mobiles/laptops.

#### **ARRANGEMENT OF BOOKS ON SHELF:**

The library has open access policy for the books and periodicals on the shelves. The users are free to browse through the collection and pick any book of their interest. All books in print are classified as per the latest Dewey Decimal Classification system and arranged by classification numbers (subject-wise) on the shelf. The detailed shelf & row guides are provided in the stack area for easy location. Print journals are arranged in alphabetical order and CDs by Accession Numbers.



## **DIGITAL LIBRARY:**

The institute has established e-Library Complex in 2018 to provide digital library services and it has the State-of-the-Art digital infrastructural facilities like Digital Learning Centre for Lecture Recording & Live Streaming, Computer Labs to conduct hands-on training, Seminar Hall, Discussion Rooms, Laptop Zones etc. catering to more than 8000 on campus library users 24X7 along with in-housed cafeteria. As part of e-Library system, a dynamic library website (<http://library.nitk.ac.in>) has been developed by the library team to provide access to the e-resources from anywhere in the world and at any time using Remote Access facility. Institutional Digital Repository (<http://idr.nitk.ac.in>) provides access to all the publications of the NITK till today including the full text Ph.D theses. IRINS (<http://nitk.irins.org>) a web-based research information system provides faculty profiles and their research collaboration including their h-index and citation metrics.

Some of the services offered under Digital Library include:

- Dynamic Library Website (<http://library.nitk.ac.in> )
- Online Access to e-Resources through e-Library Portal
- Online Library Catalogue (<http://opac.nitk.ac.in> )
- Institutional Digital Repository (<http://idr.nitk.ac.in> )
- Knimbus m-Library Remote Access Facility (<http://nitks.knimbus.com> )
- Mobile Library App (Android & iOS)
- Online Plagiarism Check through TURNITIN Software Access to Grammarly Software
- e-Studio facility to records faculty lectures and live streaming Digitisation and Archiving facility
- IRINS Faculty Profile Management System (<http://nitk.irins.org> )
- Online LiveChat with Library Staff
- QR Codes for Library Digital Services
- News@NITK Digital Newspaper Clipping Service (Monthly)
- Publications@NITK Article Alert Service (Monthly)

## **LIBRARY SERVICES:**

- Borrowing of Reading Materials
- Reference and Information Services
- Document Delivery Service (DDS)
- New Arrivals of Books
- Photocopy Service (Out sourced)
- Ask A Librarian
- Literature Search & other Services
- Research Support Services
- User Awareness Programmes
- Instructional Services and Author Workshops
- Technical Support

## **LIBRARY FACILITIES:**

- High speed internet connectivity with Wi Fi in all floors
- Air-conditioned reading rooms
- Dedicated Laptop Zones
- Reading tables with power sockets for recharging mobiles and laptops
- Individual Study Carrels
- Digital Learning Centre for soundproof lecture recording and live streaming of online programmes

- Digitisation and Archiving Centre
- Digital Library / Cyber Library
- Kindle Library
- Discussion Rooms for group study/presentations
- Air-conditioned soundproof Seminar hall (60 capacity) with 85 inches digital touch screen
- Drinking water (Hot, Normal & Cold)
- In-house Cafeteria

#### LIBRARY MEMBERSHIP:

Central Library offers its services to the faculty members, students and staff who are primary users of the library free of cost. Upon joining the Institute, membership is enrolled by default. The borrowing privileges for different categories of members are:

Type of User	No. of Books	Period
Faculty Members	15	1 Year
Non-Teaching Staff	4	30 days
Research Scholars	5	1 Semester
Post Graduate Students	4	15 days
Under Graduate Students	4	15 days

**Note: Late Fee (applicable to UG & PG categories of users) (Rs.1.00 per day/book)**

#### CORPORATE LIBRARY MEMBERSHIP:

To facilitate industry linkages and interactions for mutual benefit, the Library has recently opened up its membership to the corporate organisations by offering access to its collection and services against a nominal fee. The members enrolled will be issued 5 Membership Cards and can borrow 5 books for 30 days period. In order to get the membership, the corporate organisations needs to fill in a separate form and pay the following membership fee.

Membership with Borrowing Facility	Amount (Rs.)
Annual Fee <i>including GST</i>	12,000.00
Library deposit (Refundable)	25,000.00

**Note: Late Fee of Rs.5.00 per day/book will be charged.**

#### ACADEMIC LIBRARY MEMBERSHIP:

To facilitate institutional linkages and interactions for mutual benefit, the Library has recently opened up its membership to the academic institutions by offering limited access to collection and services against a nominal fee. In order to get the membership, the academic institutions needs to fill in a separate form and pay the following membership fee.

Membership without Borrowing Facility	Amount (Rs.)
Annual Fee <i>including GST</i>	5000.00
Library Deposit (Refundable)	10000.00

#### AWARDS & RECOGNITIONS:

- The Central Library has received “**Highest User Award for IEL on-line (IEE Explore)**” in 2015 amongst INDEST-AICTE Consortium Level 2 member’s category.
- The Library received **Dr. L M Padhya Best Library Award** from Indian Library Association for the year 2020 in recognition of its innovative library services and state of the art infrastructural facilities.
- Received “**Certificate of Excellence**” award from Knimbus Online Pvt. Ltd. New Delhi as one of the Top Ten libraries for the highest usage of Knimbus Remote Access portal in India. The award ceremony was held online on 27.05.2022.
- Central Library received **3<sup>rd</sup> Prize** in Clean Department Contest organised by the institute under the Swachhata Pakhwada programme held during the 1-15 September, 2022.

### 14.3 Laboratories

#### CIVIL ENGINEERING

##### Name of the Laboratory and their Major equipment/Facilities: -

**Transportation Engineering Laboratory:** Marshall stability machine, Centrifuge extractor for bitumen, Servo controlled fatigue testing machine, Gyratory compactor.

**Transportation Design Studio:** Video cameras, Radar Guns, Computing facility.

**Earthquake Engineering Laboratory:** Shake Table (2mx2m), computing facility, Data Acquisition System, Dynamic Analyser, Accelerometers, Pore Water Pressure Transducers, Displacement Gauges, Laser displacement transducers.

**Concrete Materials Laboratory:** 2000 kN Compression Testing Machine, Accelerated Curing Tank, Pelletizer, Rebound Hammer, PUNDIT UPV-Tester, Setting Time of Concrete Apparatus, Equipment for testing rheological characteristics of SCC, Carbonation Chamber

**Structural Engineering Laboratory:** 100kN OHT (Manual), 200 kN Testing Frame, 50 kN Testing Frame, Column Testing M/c,

**Environmental Engineering Laboratory:** Gas Chromatography, HPLC, Atomic Absorption Spectrophotometer, High volume air sampler, UV-Visible Spectrophotometer.

**Soil Mechanics Laboratory:** Compaction Test, Triaxial Testing Machine, Consolidation set up. CBR testing mould. Atterberg Limit apparatus, Rock Cutting machine.

**Advanced Asphalt Characterisation and Rheology Laboratory:** Modular Compact Rheometer system, Pressure Aging Vessel, Rolling Thin Film Oven, Rotational Viscometer, and Capillary Viscometer system.

**Geotechnical Earthquake Engineering Lab:** Shake Table, Physical model testing facilities, cyclic/dynamic loading actuator, FLAC 3D, Data Acquisition system, dynamic analyzer, accelerometers, pore water pressure transducers, displacement transducers, strain gauges, earth pressure cells, etc.

**Geo-Disaster Prevention Laboratory:** Landslide Apparatus, Tsunami Flume, Submarine Landslide Apparatus, Wind Turbine Foundation Experimental facilities, Cyclic Loading System, Data Acquisition System, Dynamic Analyser, Accelerometers, Pore Water Pressure Transducers, Displacement Gauges, Hot Air Oven, Computing System.

**Coastal Geotechnic and Renewable Energy Lab:** Testing facilities for offshore wind turbine foundation (small scale model test), testing apparatus, dynamic loading actuator, load cell, strain gauge, displacement transducers, high computing system, accelerometers, pore water pressure transducers.

**AutoCAD Lab:** 60 Desktop systems (2013 make) running on WINDOWS 7 OS.

**Bio - Concrete Laboratory,** spectrometer, encapsulates and concrete battery-related equipments, etc.

**Geology lab:** Rock and mineral samples, Electrical Resistivity meter (Hydrogeology Lab), Geological models (Structural Geology Lab)

**Bioprocesses-Engineering Lab.:** Automated Small scale decentralized Greywater treatment system 250 L/d Capacity, Portable Multiparameter analyzer, Digital ORP meter, Distillation unit, Bioreactor 10 L operating volume, Soxhlet apparatus, Deep Freezer, Peristaltic pumps-2 No., and other minor equipments.

**Geotextile Laboratory:** Computerized Electronic Universal Testing Machine for Geotextiles, Geotextiles Abrasion Tester, Cone Drop Test Apparatus, Hydrodynamic Sieve Test Apparatus, Thickness Gauge, Digital Direct Shear Test Equipment with Interface Friction, Large Pull-Out Test Apparatus for Geotextiles, Geotextile Permeameter, Cross Permeability Test Apparatus, In-Plane Permeability Test, UV Light Accelerated Weathering Tester, Dew Point Potentiometer for SWCC, Static Plate/Pile Load Test Setup, Infrared Moisture Meter, Hot Air Oven, Workstations With Geotechnical Software,

**Geodynamic Laboratory:** Dynamic Actuator 100 kN with Circular Tank, Large Direct Shear Test Equipment With Interface Friction

**Landslide Early Warning & Mitigation Lab:** Tilting Flume with Variable Rainfall Simulator (3 X 1.2 X 1.2 M), Tilting Flume with Rainfall Simulator (1.5 X 0.6 X 0.6m), Data Acquisition System, Soil EC Moisture Sensors, Pore Pressure Sensors, LiDAR and Depth sense Cameras, Earthquake Engineering Lab, Bi-Axial Shake Table, Laminar Box, Workstation with Geotechnical Software, Pore Pressure Sensors, Laser Displacement Sensors, Data Acquisition System

## **DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

### **UG lab-1**

- Dell Desktop OptiPlex 5070: Processor: Intel core i5 9500 RAM: 16 GB, HDD: 1 TB, (Ubuntu 18.04 LTS)-30
- HP Desktop EliteDesk 800 G1 TWR-Intel Core i7-4790 CPU @ 3.60 GHz 16 GB Ram 500 GB HDD (Windows 8, Ubuntu) -34
- Dell OptiPlex 9010: Intel (R) Core (TM) i7-3770 CPU @ 3.40GHz, 8GB, 500GB, (Windows 8, Ubuntu)-03
- HP Pro Desk 600 G3 MT: Processor: Intel core i5, RAM:8 GB HDD:1 -03
- Lenovo M series: Processor: Intel Core i7-4790@3.60GHz x 4, RAM:16 GB, HDD:500 GB -01
- Dell OptiPlex 9020: Processor: Intel core i7-4790, RAM: 16 GB, HDD:1TB – 01
- Lenovo ThinkCenter M920t: Processor: Intel Core i7-8700, RAM :8 GB, HDD:1 TB- 02
- Canon image CLASS MF3010-01
- LAN – 100/1000 Mbps, Seamless Wi-Fi connectivity with WAPs

### **UG lab -2**

- Dell Desktop OptiPlex 5070: Processor: Intel core i5 9500 RAM: 16 GB, HDD: 1 TB, (Ubuntu 18.04 LTS)-30
- Dell Desktop OptiPlex 5070: Processor: Intel core i5 9500 RAM: 16 GB, HDD: 1 TB, (Ubuntu 18.04 LTS)-06
- HP Elite Desk 800 G1 TWR: Intel Core i7-4790 CPU @ 3.60 GHz 16 GB Ram 500 GB HDD, (Windows 8, Ubuntu) - Out of warranty-11
- HP Elite desk 800 G8 - Processor: Intel core i5, RAM: 16 GB, HDD: 1 TB, (Ubuntu 22.04 LTS)-23
- Dell OptiPlex 9010: Intel (R) Core (TM) i7-3770 CPU @ 3.40GHz, 8GB, 500GB, (Windows 8, Ubuntu)-01
- HP M132nw Printer -01
- LAN – 100/1000 Mbps , Seamless Wi-Fi connectivity with WAPs

### **UG lab-3**

- HP 800 G9 elite Desktop: Processor: Intel Core i9-13900, RAM: 64 GB, SSD:512GB, HDD:1 TB -18
- Dell OptiPlex 7000: Processor: Intel Core i7-12700, RAM :32 GB, SSD:256GB, HDD:1 TB- 26
- HP Elite Tower 600 G9 Desktop PC: Processor: Intel Core i7-12700, RAM: 32 GB, SSD:256GB, HDD:1 TB – 13
- Lenovo Thinkcentre M920t: Processor: Intel Core i7-8700, RAM: 8 GB, HDD:1 TB -01
- Lenovo ThinkCenter M910t: Processor: Intel Core i7-7700, RAM: 8 GB, HDD:1 TB -01
- HP LaserJet Tank MFP 2606sdw Printer -01

- LAN – 100/1000 Mbps, Seamless Wi-Fi connectivity with WAPs

**Digital Lab**

- Digital IC Trainer Kit-65
- Digital IC Tester-02

**I M.Tech (CSE) Lab**

- HP Elite desk 800 G8 - Processor: Intel core i5, RAM: 16 GB, HDD: 1 TB, (Ubuntu 22.04 LTS)-47
- HP Elite desk 800 G8 - Processor: Intel core i7, RAM: 16 GB, HDD: 1 TB, (Windows 11 / Ubuntu 22.04 LTS)-01
- HP EliteDesk 800 G1 TWR - Intel Core i&-4790 CPU @ 3.60 GHz 16 GB Ram 500 GB HDD (Windows 8, Ubuntu)-01
- HP Elite Tower 600 G9 Desktop PC: Processor: Intel Core i7-12700, RAM: 32 GB, SSD:256GB, HDD:1 TB – 01
- HP LaserJet M1005-01
- LAN – 100/1000 Mbps, Seamless Wi-Fi connectivity with WAPs

**I M.Tech (CSE-IS) Lab**

- HP Elite desk 800 G8 - Processor: Intel core i5, RAM: 16 GB, HDD: 1 TB, (Ubuntu 22.04 LTS)-40
- HP Elite Tower 600 G9 Desktop PC: Processor: Intel Core i7-12700, RAM: 32 GB, SSD:256GB, HDD:1 TB – 16
- Dell OptiPlex 9010: Intel (R) Core (TM) i7-3770 CPU @ 3.40GHz, 8GB, 500GB, (Windows 8, Ubuntu)-01
- HP LaserJet 1020 – 01
- HP LaserJet MFP M132NW printer-01
- LAN – 100/1000 Mbps, Seamless Wi-Fi connectivity with WAPs

**Research Lab 1**

- HP Pro Desk 600 G9 MT: Processor: Intel core i7-12700, RAM:32 GB, SSD: 256GB, HDD:1 TB, (Ubuntu 24.04, Windows 11)-03
- HP Elite desk 800 G8 - Processor: Intel core i5, RAM: 16 GB, HDD: 1 TB, (Ubuntu 22.04 LTS)-01
- HP Pro Desk 600 G3 MT: Processor: Intel core i5, RAM:8 GB HDD:1 TB, (Ubuntu 20.04)-02
- Dell OptiPlex 9010 - Intel (R) Core (TM) i7-3770 CPU @ 3.40GHz, 8GB, 500GB (Windows 8, Ubuntu)-01
- HP Elite desk 800 G8 - Processor: Intel core i7, RAM: 16 GB, HDD: 1 TB, (Windows 11 / Ubuntu 22.04 LTS)-01
- Dell OptiPlex 9020- Processor: Intel core i7 4790, HDD:1 TB, RAM:16 GB, 19" TFT/LCD Monitor, Ubuntu/Windows10 Pro-01
- Lenovo Thinkcentre M920t: Processor: Intel Core i7-8700, RAM :8 GB, HDD:1 TB- 02
- Dell OptiPlex 7000: Processor: Intel Core i7-12700, RAM :32 GB, SSD:256GB, HDD:1 TB- 02
- HP HPLJM1319-F – 01
- LAN – 100/1000 Mbps, Seamless Wi-Fi connectivity with WAPs

**Research Lab – 2**

- Lenovo Thinkstation- type 4353 (D30 Workstation): Intel Xeon E5-2650, 8 core 2.6 GHz, 64/128GB, 4TB (Windows 8 Pro, Ubuntu)-19
- Dell OptiPlex 9010: Intel (R) Core (TM) i7-3770 CPU @ 3.40GHz, 8GB, 500GB (Windows 8, Ubuntu)-01
- Dell Precision Tower 7910: Intel Xeon E5-2670, 8 core 2.3 GHz, 128GB, 4TB (Windows 8, Ubuntu)-02
- Dell Precision 7820: Intel Xeon® Gold 5120 CPU @2.20GHzX28, 64GB, 4TB (Windows 10, Ubuntu)- 01
- HP Pro Desk 600 G3 MT: Processor: Intel core i5, RAM:8 GB HDD:1 TB, (Ubuntu 20.04) -03
- Dell/OptiPlex 9020- Processor: Intel core i7 4790, HDD:1 TB, RAM:16 GB, 19" TFT/LCD Monitor, Ubuntu/Windows10 Pro-01
- LAN – 100/1000 Mbps, Seamless Wi-Fi connectivity with WAPs

**Research lab -3**

- Dell/OptiPlex 9020- Processor: Intel core i7 4790, HDD:1 TB, RAM:16 GB, 19" TFT/LCD Monitor, Ubuntu/Windows10 Pro– 01
- HP Pro Desk 600 G3 MT- Processor: Intel core i5, RAM:8 GB HDD:1 TB (Ubuntu 20.04) -02
- Lenovo M920t: Processor: Intel core i7 8700, RAM: 8 GB, HDD: 1 TB, (Windows 10 pro, Ubuntu 18.04 LTS)-03
- HP Elite desk 800 G8 - Processor: Intel core i7, RAM: 16 GB, HDD: 1 TB, (Windows 11 / Ubuntu 22.04 LTS)-01
- HP Elite Tower 600 G9 Desktop PC: Processor: Intel Core i7-12700, RAM: 32 GB, SSD:256GB, HDD:1 TB – 01
- Lenovo Think station Workstation-02

- LAN – 100/1000 Mbps, Seamless Wi-Fi connectivity with WAPs

**Research lab – 4**

- Lenovo ThinkCentre M910t: Processor: Intel Core i7 7700 CPU@3.60 GHz, RAM: 8 GB DDR4, HDD: 1 TB (Windows 10, Ubuntu)-12
- Lenovo ThinkCentre M920t: Processor: Intel Core i7 8700 RAM: 8 GB DDR4, HDD: 1 TB (Ubuntu 20.00)-02
- HP Pro Desk 600 G3 MT: Processor: Intel core i5, RAM:8 GB HDD:1 TB, (windows10 / Ubuntu 20.04)-03
- Dell OptiPlex 9020- Processor: Intel core i7 4790, HDD:1 TB, RAM:16 GB, 19" TFT/LCD Monitor, Ubuntu/Windows10 Pro (Project PC)-04
- Lenovo Think station(P700) (Cluster) (2016)- out of warranty-07
- Lenovo Think Centre S-20 (2011)-01
- Lenovo think station S30 workstation with 24" LCD monitor (2014)- out of warranty-01
- HP Elite desk 800 G8 - Processor: Intel core i7, RAM: 16 GB, HDD: 1 TB, (Windows 11 / Ubuntu 22.04 LTS)-02
- Dell High End Workstation (DT Precision 5820) (2018)-02
- DELL OptiPlex 9010: Processor: Intel® Core™ i7 3770 @ 3.40 GHz RAM: 8 GB DDR4, HDD: 500 GB (windows 8, Ubuntu)-01
- Dell Precision 5820 Workstation (2020)-02
- HP LaserJet 1010 – 01
- LAN – 100/1000 Mbps , Seamless Wi-Fi connectivity with WAPs

**Research lab – 5**

- Lenovo ThinkCentre M910t: Intel Core i7 7700 CPU 3.60 GHz, RAM: 8 GB DDR4, HDD: 1 TB, (Window 10 Pro 64 Bit, Ubuntu 3.28.1)- 06
- Dell OptiPlex 9010 - Intel (R) Core (TM) i7-3770 CPU @ 3.40GHz, 8GB, 500GB (Windows 8, Ubuntu)-02
- Dell OptiPlex 9020: Processor: Intel core i7 4790, RAM: 16 GB, HDD: 1 TB, (Windows 10 pro, Ubuntu 16.04 LTS)-01
- HP Pro Desk 600 G3 MT- Processor: Intel core i5, RAM:8 GB HDD:1 TB (Ubuntu 20.04)-05
- Lenovo M920t: Processor: Intel core i7 8700, RAM: 8 GB, HDD: 1 TB, (Windows 10 pro, Ubuntu 18.04 LTS)-02
- Dell OptiPlex 7000: Processor: Intel Core i7-12700, RAM: 32 GB, SSD:256GB, HDD: 1TB -04
- HP Elite desk 800 G8 - Processor: Intel core i7, RAM: 16 GB, HDD: 1 TB, (Windows 11 / Ubuntu 22.04 LTS)-02
- HP Pro Desk 600 G9 MT: Processor: Intel core i7-12700, RAM:32 GB, SSD: 256GB, HDD:1 TB, (Ubuntu 24.04, Windows 11)-01
- Dell Workstation OptiPlex 5090 MT-01
- HP LaserJet MFP M132NW printer-02
- HP LaserJet 1010 printer-01
- LAN – 100/1000 Mbps, Seamless Wi-Fi connectivity with WAPs

**Research lab – 6**

- Lenovo ThinkCentre M910t: Intel Core i7 7700 CPU 3.60 GHz, RAM : 8 GB DDR4, HDD : 1 TB, (Window 10 Pro 64 Bit, Ubuntu 3.28.1)- 08
- Dell OptiPlex 9010, Intel (R) Core (TM) i7-3770 CPU @ 3.40GHz, 8GB, 500GB, (Windows 8, Ubuntu)- 02
- Dell OptiPlex 9020: Processor: Intel core i7 4790, RAM: 16 GB, HDD: 1 TB, (Windows 10 pro, Ubuntu 16.04 LTS)-07
- HP Pro Desk 600 G3 MT: Processor: Intel core i5, RAM:8 GB HDD:1 TB, (Ubuntu 20.04)-09
- Lenovo M920t: Processor: Intel core i7 8700, RAM: 8 GB, HDD: 1 TB, (Windows 10 pro, Ubuntu 18.04 LTS)-02
- HP Elite desk 800 G8 - Processor: Intel core i7, RAM: 16 GB, HDD: 1 TB, (Windows 11 / Ubuntu 22.04 LTS)-05
- Dell OptiPlex 7000: Processor: Intel Core i7-12700, RAM: 32 GB, SSD:256GB, HDD: 1TB -01
- HP Elite Desk 800 G1 TWR: Intel Core i7-4790 CPU @ 3.60 GHz 16 GB Ram 500 GB HDD, (Windows 8, Ubuntu)-01
- HP 280 G6 Project PC: Intel Core i5 10400, 8GB DDR4 RAM, 1TB HDD SATA, 128 GB SSD, Win 10 Pro-01
- Dell –OptiPlex 5050 Desktop MT XCTO Systems(Project)-01

- Dell Inspiron 3250 Mini (project)-01
- LAN – 100/1000 Mbps, Seamless Wi-Fi connectivity with WAPs

**Research lab – 7**

- Lenovo Think Centre M910t: Processor: Intel Core i7 7700 CPU@3.60 GHz, RAM: 8 GB DDR4, HDD: 1 TB (Windows 10, Ubuntu)-04
- Lenovo M920t: Processor: Intel core i7 8700, RAM: 8 GB, HDD: 1 TB, (Windows 10 pro, Ubuntu 18.04 LTS)-04
- Dell OptiPlex 7000: Processor: Intel Core i7-12700, RAM: 32 GB, SSD:256GB, HDD: 1TB -04
- HP Elite desk 800 G8 - Processor: Intel core i7, RAM: 16 GB, HDD: 1 TB, (Windows 11 / Ubuntu 22.04 LTS)-02
- HP Pro Desk 600 G9 MT: Processor: Intel core i7-12700, RAM:32 GB, SSD: 256GB, HDD:1 TB, (Ubuntu 24.04, Windows 11)-02
- Dell/OptiPlex 9020- Processor: Intel core i7 4790, HDD:1 TB, RAM:16 GB, 19" TFT/LCD Monitor, Ubuntu/Windows10 Pro (with Wi-Fi)-04
- HP Elite Desk 600 G3 TWR: Intel Core i5-4790 CPU @ 3.60 GHz 16 GB Ram 500 GB HDD, (Windows 8, Ubuntu)-09
- HP Elite Desk 800 G1 TWR: Intel Core i7-4790 CPU @ 3.60 GHz 16 GB Ram 500 GB HDD, (Windows 8, Ubuntu)-02
- Dell OptiPlex 9010: Intel (R) Core (TM) i7-3770 CPU @ 3.40GHz, 8GB, 500GB, (Windows 8, Ubuntu)-02
- HP Elite Desk 705 G1 TWR-01
- Dell OptiPlex 5050-05
- Vantageo 15K0-W (Project-BT) Processor: Intel Xeon W-2245, RAM:32 GB HDD-2TB-03
- Canon Printer - 01
- LAN – 100/1000 Mbps, Seamless Wi-Fi connectivity with WAPs

**DATA CENTRE LAB: Server Class**

- IBM E Server with accessories – 01
- Dell power Edge Server R420 - 01
- Dell power Edge Server R720 – 01
- Dell power edge server T630 – 03
- Dell Server PE 730XD – 01
- Dell Server (R740) – 01
- C-Boston Sys- 5038K-j-KNL Development Workstation – 01
- Dell R7 power edge R7404 rack server – 03
- Dell EMC Switch 54112T – 01
- KVM Switch 8 port VGA – 01
- C-NVIDIA DGX P2787 – 01
- C-NVIDIA DGXS -01
- DELL R750 PowerEdge server -01
- LAN – 100/1000 Mbps, Seamless Wi-Fi connectivity with WAPs

**14.6 MAJOR EQUIPMENTS IN THE DEPARTMENT:**

- HP Desktop Computer Systems - Core I7, 16GB RAM, 1TB Hard disk
- HP Elitedesk 705 G1 TWR
- Dell OptiPlex 5000-05
- Dell Inspiron 3250 Mini
- IBM E Server with accessories
- Dell High End Server T610
- Dell power Edge Server R420
- Dell power Edge Server R720
- Dell power edge server T630
- Dell Server PE 730XD
- Dell Server (R740)
- C-Boston Sys- 5038K-j-KNL Development Workstation
- Dell R7 power edge R7404 rack server



- Dell High End Workstation (DT Precision 5820)
- Dell Precision 5820 Workstation
- Lenovo workstation(P700)
- Lenovo think station S30 workstation with 24" LCD monitor
- Lenovo Thinkcentre S-20 & D-20 workstation
- DELL R750 PowerEdge server

## **DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

**Analog and Digital Electronic Circuits Lab** - Comprises of Analog Circuit Trainer Kits, Digital Circuit Trainer Kits, Microprocessors and Microcontrollers, FPGA modules, Protocol Conversion and Communication Units, Embedded System Design Modules.

**Computer Laboratory** - This Lab has got 60 computers with engineering softwares. The simulation exercises carried out will lead to better understanding of the concepts in Signals and Systems, Electrical Machines, Power System Modelling, Power Electronics, Computer Aided Design Packages for Design and Analysis of Power Systems, Distribution Systems, Mini and Major Project Execution.

**High Voltage Testing Laboratory-** High Voltage Test System of 0-100 kV, 100 mA HVAC and corresponding High Direct and Impulse voltage generating system, Insulating oil test kit, 5 kV megger (Tera Ohm Insulation tester), 0-30 kV, 50 mA HVAC source, AEPD analyser with linear location system, DSO.

**Control Systems Laboratory** - Temperature Control Trainer Kit, Furnace: Heater Supply, 230V AC/50Hz, Lead-lag Compensation Kit, DC motor Speed Control Trainer Kit with DC Motor, PID Controller Trainer Kit, DC Motor Position Control Trainer Kit with DC Motor, AC Motor Position Control System with AC Motor, Time Response of Second Order System kit.

**Electrical Machines (Induction Motors and Transformers) Lab** - DC Generators and Motors, Single Phase and Three Phase Transformers, Single Phase and Three Phase Induction Motors, Synchronous Machines Stepper Motors, Servo Motors.

**Electrical Machines (Synchronous Machines and DC Machines) Laboratory** - Four MG-Sets, RLC-Loading Arrangements, Synchronization Setup, Thyristor Modules, Data Acquisition Systems.

**Measurements and Instrumentation Lab** - CT testing Unit, Energy Meter Calibration, Power Analyser, Earth Resistance Measurement Setup, Cable Test Measurement Setup, Programmable Logic Controllers, Remote Terminal Unit, Distributed Control Systems.

**Power Electronics Laboratory** - Thyristors and Gate Control Modules, IGBTs, Drive Control Unit, DSP Based Controller Modules.

**Power Systems Laboratory** - Four MG-Sets, RLC-Loading Arrangements, Synchronization Setup, Thyristors Modules, Data Acquisition Systems.

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

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

## DEPARTMENT OF MINING ENGINEERING

Rock Mechanics Laboratory :- Rock cutting machine, Compression testing machine, Schmidt hammer, Slake durability index apparatus, point load strength index apparatus, P-wave velocity apparatus, Los Angeles machine, Other rock testing facilities.

Drilling Laboratory: Jack hammer drilling set-up, Air compressor, Modified lathe machine for rock cutting, horizontal and vertical coring machines.

Rock Blasting Laboratory: Minimates, Minimate plus, High speed video camera, VOD monitor, Laser profile, WIPFRAG software.

Mine Environmental Engineering Laboratory: Water pollution monitoring kit, Respirable dust sampler, Manometer, Crossing point temperature, Digital Methanometer, CO detector, Psychomotor, Sound level meter, Gas testing set up, Exhaust gas analyzer, Multi gas detector; High Volume sampler, Vibration Analyzer

Mineral Processing Laboratory : Jaw Crusher, Roller Crusher, Rod Mill, Ball Mill, Bond' Work Index Setup, Electro Magnetic Sieve Shaker, Riffle Sampler, Jigging Machine, Wilfly's Table, Automatic Mineral Separator, Spiral Classifier, Density Separator Hydro Cyclone, Davis Tube Tester, Electro Magnetic Drum Separator-Wet, Electro Magnetic Drum Separator- Dry, Froth Floatation Cell, Sampling / Crushing / Grinding - Integrated Unit, Turbo Mixer, Micro Mill, Vacuum Filtration Unit, Disc Mill, Pot Mill, Double Deck Vibratory Screen Model, Infrared Drier, Spiral Concentrate, Sieve Shaker

Mine Surveying Laboratory: Prismatic Compass, Surveyor Compass, Vernier Theodolite,

Micro-Optic Theodolite, Electronic Theodolite, Pocket TDS Meter, Dumpy level, Auto level, Digital level, Total station, Handheld GPS, DGPS

Mine Planning and Design Laboratory:- Surpac, Minex, Sirovision, Jk Sim blast softwares,

rocsience softwares

Mine Pollution Laboratory:- Water quality analyzer, High volume air sampler, Respirable dust sampler, Sound level meter, Opacity meter, Point sampler, Beta attenuation meter, Weather monitoring station

### New Labs/Equipment:

**Mine Health and Safety Laboratory:** Personal dust monitors, High volume sampler, Human vibration analyzer, Multigas detectors, Personal noise monitors, Frequency analyzer cum vibration analyzer, Ground vibration analyzers, Muscle Oxygen Meter. Treadmill Ergometer, Muscle Strength apparatus, Handgrip Dynamometer, Hydraulic Pinch gauge, Depth perception apparatus, Real time dust monitor, Wearable Electroencephalogram(EEG), Anthropometer Kit, Human vibration meter with Hand arm and Whole body sensors, Eye flicker tester, Body composition analyser, Body posture analysis software with perceptual licence, Portable spirometer.

**Internet of Thing Laboratory:** Wireless LoRa modules for ESP32 (2No.), ESP32 Development Board (2No.), MQ7-Carbon Monoxide (CO) Gas Sensor (2No.), MQ4 Methane NaturalGas SensorModule (2No.), DHT22 AM2302 Digital Temperature andHumidity Sensor(2No.), MQ-136 Hydrogen SulfideGas Sensor (2No.), MQ135 Nitrogen DioxideSensor (2No.), MQ135 SulfurDioxide (SO<sub>2</sub>)Sensor (2No.), MQ8 Hydrogen H<sub>2</sub> Gas Sensor Module(2No.), MQ135 Carbon Dioxide CO<sub>2</sub> Sensor Module, 12V10Ah Rechargeable LithiumIon Battery, Industrial Standard Methane Gas Sensor (CH<sub>4</sub>), Industrial Standard Carbon monoxideGas Sensor(CO), Industrial Standard hydrogenGas Sensor(H<sub>2</sub>), IndustrialStandard Carbondioxide Sensor (CO<sub>2</sub>), Industrial Standard nitrogen Sensor (N<sub>2</sub>), Industrial Standard nitrogen Sensor(N) oxides, Industrial Standard hydrogen sulfideSensor (H<sub>2</sub>S), Industrial Standard Temperature andHumidity Sensor, [DLOS8EC25] LoRaWAN

Multi channel Outdoor GatewayWith 3G/4G(DLOS8 EC25), Multi Gas Detector equipment, Portable Temperature & Humidity Data Logger

## DEPARTMENT OF PHYSICS

### Name of Laboratory

UG Laboratory

PG Laboratory I

PG Laboratory II

### Research Laboratories:

M.Sc. Project Laboratory

Optoelectronics Laboratory

Crystal Growth Laboratory &

Nano materials Laboratory

Material Processing Laboratory

### Major Equipment/Facilities

- Experimental Kits (7 expt.s of 5 sets each)
- Experimental Kits (8 expt.s of 2 sets each)
- Experimental Kits (8 expt.s)
- Keithley Source Meter
- DC – RF Sputtering Unit
- Spray Pyrolysis Unit
- Vacuum coating unit
- Optics Inc SD2000 spectrometer (UV vis spectra)
- Lux meter (Lutron)
- UVC Ozone Cleaning Unit
- Thermal evaporator
- Clean air flow bench
- OLED measurement system
- Keithley Sourcemeter (model 2400).
- Jobin Yvon spectrometer with a CCD based detector or a silicon photodiode (SM1PD2A Mounted UV Enhanced Silicon Photodiode, 200-1100 nm Cathode Grounded)
- Optical power meter (Ophir Optronics, model NOVA II with PD300-UVdetector)
- Keithley 6485 Picoammeter
- Tektronix DMM 4040 6-1/2 Digit Precision Multimeter
- Agilent 34972A LXI Data Acquisition/ Switch unit
- Multioutput DC power supply model LQ6324
- Agilent E4980A Precision LCR meter 20 Hz to 2 MHz
- Tektronix TDS 2002B Two channel Digital Storage Oscilloscope 60 MHz 1GS/s
- DH-3 UV-Vis-NIR Calibrated Light Source (Ocean Optics)
- RF Probe Station
- ISO BRUKER Precision Cutting Machine
- Q-switched Nd-YAG laser; Model GCR -170 from Spectra – Physics, USA.
- Solution growth system for crystal growth
- High temperature furnace
- Magnetron sputtering system
- Thin film coating unit
- Fume Head
- Vacuum deposition system-Thermal, DC, RF coating system
- CLEMEX Microhardness Tester
- Physical vapour deposition
- Polishing Machine
- Muffle furnace (Max Temp 1000°C)
- Low speed Diamond saw cutting Blade
- Abbe refractometer
- Analytical balance and Density kit
- High temperature furnace
- P H Meter
- U V Visible spectrometer
- Incubator

Energy Materials Research Laboratory	<ul style="list-style-type: none"> <li>• Ultra sonicator</li> <li>• Computer Interfaced Microhardness Tester</li> <li>• Density kit</li> <li>• Electrochemical Workstation (Bio-Logic SP150) (2 Nos)</li> <li>• Mbraun Glove Box</li> <li>• Neware battery analyzer</li> <li>• Kiethly 2 probe and 4 probe measurement systems</li> <li>• Ocean Optics UV-Vis spectrometer</li> <li>• DC Spectrum Analyzer</li> <li>• Muffle Furnace</li> <li>• Weighing Balance</li> <li>• Battery Crimper set up</li> <li>• Sputtering Unit</li> <li>• Spin Coater</li> <li>• Spray Pyrolysis unit</li> <li>• Vacuum Oven</li> <li>• Hot air oven</li> <li>• Photoluminescence Spectrometer</li> <li>• XRD</li> </ul>
Computational Physics Laboratory	<ul style="list-style-type: none"> <li>• Dell server (power edge)</li> <li>• Software: VASP, Mathematica, Gaussian and Maple</li> </ul>
Nonlinear dynamics and Biophysics	<ul style="list-style-type: none"> <li>• Dell server power edge</li> <li>• Stereo Microscope</li> </ul>
Low Dimensional Physics Lab	<ul style="list-style-type: none"> <li>• Sputtering, Impedance analyser, SMU, dc probe station, etc.</li> </ul>
Multilayer Film Deposition Lab	<ul style="list-style-type: none"> <li>• Keithley Source Meter</li> <li>• Vacuum coating and Sputtering unit</li> </ul>
Cosmology Group	<ul style="list-style-type: none"> <li>• Workstation</li> <li>• Computers</li> <li>• Printers</li> </ul>

## 14.4 Workshops in the Departments

### DEPARTMENT OF CIVIL ENGINEERING

Lathe, shearing machine, drilling machine, Grinding machine.

### 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, Capstan Lathe.

**Machine Shop - II:** Surface Grinding Machine, Cylindrical Grinding Machine, Capstan Lathe, Horizontal Milling Machine with Vertical attachment, Broaching Machine, Light Duty Shaper, Heavy Duty Shaper, Slotting Machine, Planner, Cutter Grinding Machine, Heavy Cylindrical Grinding Machine, CNC Milling Centre, CNC Turning Centre, Heavy Duty Shearing Machine, Hydraulic Press, Heavy Duty Radial Drilling Machine, Hydraulic Radial Drilling Machine, Universal Milling Machine, Centre Lathe, Hydraulic Compressor. High-speed drilling machine, Shearing Machine

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

**Fitting Shop:** Bench vise with table, Surface plate, Anvil Power Tool, 5. 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, Jigsaw, Hammer drilling, Core cutter drilling machine.

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

**Welding laboratory:** Metal inert gas welding, Resistance spot welding, Tungsten inert gas welding

**Foundry laboratory:** Sand sieving machine, Aluminium melting furnace

#### DEPARTMENT OF MINING ENGINEERING

A high-end DST-SERB Sponsored Karyashala (under Acceleratevigyan scheme) workshop on “Safety Data Analytics Applications in Mining and Other Core Industries,” during 06-12 March 2024.

#### DEPARTMENT OF CHEMISTRY

Title of the Event: Scientific Writing Workshop, Convener: Dr. Saikat Dutta, Held During: 11:00 AM to 01:30 PM IST on 14/06/2024 Name of the Chief Guests: Dr. Ajay Jha (Associate Publisher, Global Editorial Strategy ACS Publications) Dr. Krishna Raghav Chaturvedi (Outreach Manager American Chemical Society)

### 14.5 Major Equipment in the Departments

#### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

- ❖ Mixed Signal Oscilloscope 4Ch. 350 MHz, Make: UNI-T Model: MSO3335HE- 1No. Model: UP03354E-4 Nos., Rs. 8.97 Lakh
- ❖ Time Response of Second Order System Kit-2 Nos, PID Trainer System Kit-2 Nos, Rs. 1.16 Lakh
- ❖ FPGA Development & Evaluation Board-1No., Rs. 1.13 Lakh
- ❖ D.C. Speed Control, Model No: DCS -301, Temperature Controller System, Model No: TCS-302, Rs. 0.73 Lakh
- ❖ Hardware in Loop Controller, Model: OP4512, Rs. 20 Lakh
- ❖ Digital Power Quality Meter, 3 Nos, Rs.0.51 Lakh
- ❖ A622 AC/DC Current Probe 100A 100kHz, Make: Tektronix/Keithley, Model: A622, 1 No., Rs. 1.24 Lakh
- ❖ TBS1102C Digital Storage Oscilloscope, Make: Tektronix/Keithley, Model: TBS1102C, 10 Nos., Rs. 9.11 Lakh
- ❖ Current Probe-RP1002C, Model: RP1002C, Make: RIGOL, 1 No., Rs. 1.67 Lakh

#### DEPARTMENT OF MINING ENGINEERING

1. Differential Global Positioning System (DGPS)
2. Triaxial accelerometer SV 38 V along with a data logger SV106 (Manufacture: Svantech)
3. Permanent License for Virtual Nanolab with Quantum wish Toolkit for Nanotechnology Simulation (Software) (Manufacture: M/s. Integrated Microsystems)
4. Muscle Oxygen Meter

## 14.6 Hospital, Post Office, Banks, Shopping Centre

**Hospital:** One Health Care Center with the services of regular doctors and visiting expert doctors is available. Required medicines are also made available in the Health Care Centre.

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

**Banks:** Two banks (SBI and Canara Bank) are functioning within the Campus. 2 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 include a Saloon, Beauty Parlors, Printing and Photocopy, Vegetable outlet, Bakery, Tailoring, Cloth Shop, Milk parlors, food outlets, etc.

## 14.7 Physical Education

### I. Indoor Facilities

#### 1. New Sports Complex

- Multi Gym: State of the art infrastructure multi gym spread in 5000sqft carpet area highly equipped with cardio equipment and all modern equipment.
- Indoor Kabaddi Court of 5000sqft with two (2) Nos. of kabaddi mat
- Multi- Purpose Hall of 5000 sq.ft used for Chess, Carom, Table Tennis and other recreational games.
- Yoga hall of 5000sq.ft with capacity of 250 members
- Badminton Court - 10000sq.ft of International standard 3 Badminton wooden court and 3 vinyl matting badminton court,
- TT / indoor Volleyball Court– Eight (8) nos. TT table, Volleyball court with vinyl mat flooring of 5000sq.ft.
- Billiard Hall with 2 billiard table of 2000 sq. ft.

#### 2. Old Sports Complex (spread over an area of approx. 10,000 sq. ft)

- Indoor Badminton – Three (3) badminton court with cemented floor.
- Five (5) Table Tennis Table.

#### 3. Swimming pool

- A new international standard swimming pool adhering to FINA specifications has been inaugurated. This state-of-the-art facility includes a modern viewing gallery, advanced infrastructure, and a cutting-edge ozone-based water filtration unit, adding a significant feather to the cap of the department inaugurated on 20<sup>th</sup> November 2024 by Shri P. Radhakrishnan Nair, Dronacharya Awardee, Chief Coach, Indian National Athletic team.

#### 4. Old Multi Gym near Mega Hostel Tower for Boys spread in 6000 sq. ft area.

### II. Outdoor Facilities

1. 400 m International Standard Athletic track -1
2. Cricket ground with Turf -1  
One more cricket ground is under construction.
3. Cricket Net Practice Zone. Three Pitches with Net cage. One is Cemented and two are turf.
4. Football field -2
5. Handball - 1
6. Kho-Kho Court - 2

7. Hockey field - 1
8. Outdoor Volleyball Court with flood lit - 3
9. Outdoor Throw ball Court with flood lit - 2
10. Outdoor Basketball Court with flood lit - 3
11. Tennis Court – 4 nos. (1 Synthetic as per ATF standard and 3 mud court)
12. Swimming pool
- International standard swimming pool (50m) with gallery.
- 13. Independent Basketball court at the Girls Hostel premises with floodlit.**

## 14.8 Staff Quarters

**Staff quarters:** 245 numbers of Faculty Quarters and 176 numbers of non-faculty staff quarters are available in the Campus.

## 14.9 CENTRE FOR CONTINUING EDUCATION (C.C.E)

Details of Workshop conducted through CCE-NITK from April 2024 to March 2025

Sl.No.	Title of the Course	Duration	Organized through	Name of the Course Coordinators	No. of Participants attended
1.	Winter School DSDT NGP training program	04-12-2024 to 22-12-2024	Department of Water resources & Ocean Engineering	Prof.Ramesh H	23
2.	Executive Certificate Program in AI & Analytics'	09-11-2024 to 22-11-2024	Centre for Continuing Education	Dr. Ashvini Chaturvedi	16



## **15. 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 a 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.

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. The 253 numbers of RTI Applications were received during the year 2024-2025 (from 01.04.2024 to 31.03.2025).

## 16. FINANCE AND ACCOUNTS

### Expenditure position for the year 2021-22 to 2024-25

Year	Oh.35 (Capital)	Revenue Grant 31&36	Total
2021-22	2096.74	16808.35	18905.09
2022-23	4278.71	19772.41	24051.12
2023-24	1705.48	20826.03	22531.51
2024-25	1192.00	23241.10	24433.10

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31-03-2025			
PARTICULARS	SCH.NO.	CURRENT YEAR	PREVIOUS YEAR
<b><u>INCOME:</u></b>			
ACADEMIC RECEIPTS	9	55,64,77,784	50,08,43,766
GRANTS/SUBSIDIES	10	2,32,41,09,714	2,08,26,02,384
INCOME FROM INVESTMENTS	11	9,82,47,721	6,51,33,034
INTEREST EARNED	12	12,93,177	13,35,363
OTHER INCOME	13	43,95,08,014	40,83,56,170
OTHER RESEARCH PROJECTS	13 A	12,20,73,317	12,98,14,948
PRIOR PERIOD INCOME	14	-	32,11,502
<b>TOTAL (A)</b>		<b>3,54,17,09,727</b>	<b>3,19,12,97,167</b>
<b><u>EXPENDITURE:</u></b>			
STAFF PAYMENTS & BENEFITS	15	2,01,86,59,188	1,70,78,06,834
ACADEMIC EXPENSES	16	49,31,80,685	52,68,10,872
ADMINISTRATIVE & GENERAL EXPENSES	17	39,01,70,172	40,43,80,712
TRANSPORTATION EXPENSES	18	18,12,620	15,23,474
REPAIRS & MAINTENANCE	19	16,93,75,316	12,77,43,657
FINANCE COST	20	6,47,09,253	5,86,75,843
DEPRECIATION	4	41,77,45,652	40,07,75,547
OTHER EXPENSES	21	9,91,01,623	13,51,46,992
PRIOR PERIOD EXPENSES	22	-	1,41,35,972
<b>TOTAL (B)</b>		<b>3,65,47,54,509</b>	<b>3,37,69,99,903</b>
<b><u>BALANCE:</u></b>			
EXCESS OF EXPENDITURE OVER INCOME	(B-A)	<b>11,30,44,782</b>	<b>18,57,02,736</b>
SIGNIFICANT ACCOUNTING POLICIES	23		
CONTINGENT LIABILITIES & NOTES ON ACCOUNTS	24		

BALANCE SHEET AS AT 31-03-2025			
PARTICULARS	SCH. NO.	CURRENT YEAR	PREVIOUS YEAR
<b><u>SOURCE OF FUNDS :</u></b>			
CORPUS/CAPITAL FUND	1	93,42,48,156	91,84,15,774
DESIGNATED/ EARMARKED/ ENDOWMENT FUNDS	2	4,65,28,56,770	4,07,53,80,382
LOANS/BORROWINGS	3	1,20,19,08,067	1,04,04,27,751
CURRENT LIABILITIES AND PROVISIONS	3 (A)	8,01,60,06,397	7,28,17,10,406
<b>TOTAL</b>		<b>14,80,50,19,389</b>	<b>13,31,59,34,312</b>
<b><u>APPLICATION OF FUNDS :</u></b>			
FIXED ASSETS	4		
Tangible Assets	4(A)+(D (b ))	7,48,18,09,019	7,02,46,13,009
Intangible Assets	4(B)	4,70,36,826	2,72,20,315
Capital Works-In-Progress	4(C)	5,44,42,446	23,39,37,957
INVESTMENTS FROM EARMARKED/	5		
ENDOWMENT FUNDS			
Long Term		2,99,36,24,711	2,21,10,66,254
Short Term		1,69,60,87,239	1,85,85,30,970
INVESTMENTS - OTHERS	6	1,90,82,44,744	1,25,46,65,793
CURRENT ASSETS	7	6,66,50,190	11,65,46,854
LOANS, ADVANCES & DEPOSITS	8	55,71,24,213	58,93,53,160
<b>TOTAL</b>		<b>14,80,50,19,389</b>	<b>13,31,59,34,312</b>
SIGNIFICANT ACCOUNTING POLICIES	23		
CONTINGENT LIABILITIES & NOTES ON ACCOUNTS	24		

RECEIPTS & PAYMENTS FOR THE YEAR ENDED 31-03-2025									
RECEIPTS			Current Year	Previous Year		PAYMENTS		Current Year	Previous Year
<u>Opening Balances:</u>						Establishment and Administrative expenses		3,23,70,08,857	2,33,79,84,757
(a) Cash in hand			31,141	11,088					
<u>(b) Bank Balances:</u>						Payments Against Ear-marked/Endowment Funds		46,05,79,625	403319561
(i) In current ac- counts			9,34,08,096	13,47,22,877					
(ii) Savings acconts			46,55,815	5,15,65,123		Payments Against Sponsored Pro- jects/Schemes		24,97,68,518	15,90,44,183
(iii) HEFA acconts			5,56,979	5,58,157					
(iv) TSA acconts			-	-		Investments		5,45,62,59,576	3,36,43,89,372
<u>Grants Received:</u>						Expenditure on Fixed Assets & Capital WIP		71,52,62,659	64,84,47,557
(a) From Govt. of India									
Capital Grant	11,92,00,000					Deposits & Advances		3,13,31,13,162	1,99,35,35,463
Revenue Grant	2,32,41,09,714								
	2,44,33,09,714					Any Other Payments		1,04,42,51,458	1,15,42,10,214
Less : Refund	-		2,44,33,09,714	2,25,31,50,348					
(b) From State Gov- ernement			-	-		<u>Closing Balances:</u>			
						(a) Cash in hand		8,736	31,141

Academic Receipts		55,64,77,784	50,09,87,972	(b) Bank Balances:			
				(i) In current accounts		22,99,398	9,34,08,096
Receipts Against Ear-marked/Endowment Funds		1,03,80,56,012	61,90,26,078	(ii) Savings accnts		2,38,00,660	46,55,815
				(iii) HEFA accnts		5,56,977	5,56,979
Receipts Against Sponsored Projects/Schemes/Plan		83,27,38,785	82,48,78,230	(iv) TSA accnts			-
Income on Investments		9,82,47,721	6,51,33,034				
Interest Received SB		12,93,177	8,11,468				
Deposits & Advances		3,77,22,42,434	2,17,72,14,139				
Investments Encashed/matured		4,14,70,57,449	2,79,33,47,979				
Any other receipts		1,33,48,34,517	73,81,76,644				
<b>TOTAL</b>		<b>14,32,29,09,625</b>	<b>10,15,95,83,137</b>	<b>TOTAL</b>		<b>14,32,29,09,625</b>	<b>10,15,95,83,137</b>





**NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA SURATHKAL**

SRINIVASNAGAR, MANGALORE - 575 025 INDIA



# **AUDIT REPORT**

## **2024-25**

Website : [www.nitk.ac.in](http://www.nitk.ac.in)

E-mail : [director@nitk.edu.in](mailto:director@nitk.edu.in)

Tel : 0824-2474000 (24 lines)

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**Annexure-4A**  
**Opinion of the Comptroller & Auditor General of India on the Accounts of**  
**National Institute of Technology Karnataka, Surathkal for the year ended 31**  
**March 2025**

**Opinion**

We have audited the financial statements of National Institute of Technology Karnataka, Surathkal which comprise the statement of financial position as at 31 March 2025 and the Income & Expenditure Account/Receipts & Payment Account (strike out which is not applicable) for the year then ended, and notes to the financial statements, including a summary of significant accounting policies under Section 19(2) of the Comptroller & Auditor General's (Duties, Powers & Conditions of Service) Act, 1971. The audit on the accounts of the Director, National Institute of Technology Karnataka, Surathkal is entrusted under the NIT Act 2007 further amended NITSER Act 2012.

This Audit Report contains the comments of the Comptroller & Auditor General of India (CAG) on the accounting treatment only with regard to classification, conformity with the best accounting practices, accounting standards, disclosure norms, etc. Audit observations on financial transactions regarding compliance with the Law, Rules and Regulations (Propriety & Regularity) and efficiency cum performance aspects, etc., if any, are reported through inspection reports/ CAG's audit reports separately.

In our opinion the accompanying financial statements of National Institute of Technology Karnataka, Surathkal, read together with the accounting policies and Notes thereon and matters mentioned in the Separate Audit Report, which follows, give a true and fair view of the financial position of the autonomous body as at March 31, 2025 and (of) its financial performance and its cash flows for the year then ended in accordance with uniform format of accounts prescribed by Ministry of Education /Accounting Standards Generally Accepted in India.

## **Basis for Opinion**

We conducted our audit in accordance with the CAG's auditing regulations/standards/manuals/guidelines/guidance-notes/orders/circulars etc. Our responsibilities are further described in the *Auditor's Responsibilities for the Audit of the Financial Statements* section of our report. We are independent of the autonomous body in accordance with ethical requirements that are relevant to our audit of the financial statements, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

## **Emphasis of Matter**

NIL

## **Responsibilities of Management for the financial statements**

The Governing Body of National Institute of Technology Karnataka, Surathkal is responsible for the preparation and fair presentation of the financial statements in accordance with format of *accounts* prescribed by *Ministry of Education* /Accounting Standards generally accepted in India, and for internal control as management determines it necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

## **Auditor's Responsibilities for the Audit of the Financial Statements**

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion in accordance with CAG's auditing regulations /standards/ manuals/ guidelines/ guidance-notes/ orders/ circulars etc.

**For and on behalf of the CAG of India**



**PRINCIPAL DIRECTOR OF AUDIT (CENTRAL),  
BENGALURU**

**SEPARATE AUDIT REPORT ON THE ACCOUNTS OF THE OFFICE OF THE  
NATIONAL INSTITUTE OF TECHNOLOGY, KARNATAKA, SURATHKAL,  
MANGALORE FOR THE YEAR ENDED ON 31<sup>ST</sup> MARCH 2025**

**A. Balance Sheet**

**NIL**

**B. Income and Expenditure Account**

**NIL**

**C. Receipt and Payment account**

**NIL**

**D. Accounting Policies**

**NIL**

**E. General:**

**I. Revision of Accounts:**

The annual accounts of the Institute were revised and submitted on 24.09.2025. The net impact of the revision is as follows:

- (i) Sources and Application of Funds increased by ₹ 37,88,616/- from ₹ 14,80,12,30,773/- to ₹14,80,50,19,389/-
- (ii) Income decreased by ₹ 2008/- from ₹ 3,54,17,11,735/- to ₹ 3,54,17,09,727/-
- (iii) Expenditure increased by ₹ 12,70,685/- from ₹ 3,65,34,83,824/- to ₹ 3,65,47,54,509/-
- (iv) Excess expenditure over Income increased by ₹ 12,72,693/- from ₹ 11,17,72,089/- to ₹ 11,30,44,782/-

**F. Management Letter: Not applicable**

**G. Assessment of Internal Controls**

**a) Adequacy of Internal Audit system**

There is a separate Internal Audit Wing (IAW) functioning in the Institute conducting audit regularly every year.

**b) Adequacy of Internal Control System**

The prevailing internal control system is adequate. The IAW covers areas of transactions like receipt and utilization of grants, IRG, construction activities, transactions related to funds etc. Four members from the Accounts section (Deputy Registrar F&A, Assistant Registrar A/c's, Sr. Superintendent) are involved in the preparation of Annual accounts and assisted by a Chartered Accountant M/s Rao & Emmar.

**c) System of physical verification of fixed assets**

Physical verification of fixed assets for the period 2024-25 has been carried out by the Institute.

**d) System of physical verification of Inventory**

Physical verification of inventory for the period 2024-25 has been carried out by the Institute.

**e) Regularity in payment of statutory dues**

The Institute is exempted from payment of income tax under Section 12 of the Income Tax Act. All the statutory dues of the institute towards EPF and ESI were remitted within the stipulated date.

**H. Grants in aid**

Out of the grants in aid of ₹ 244.33 crore received during the year, the organization could utilize a sum of ₹ 244.33 crore leaving a balance of Nil as on 31.3.2025.



**PRINCIPAL DIRECTOR OF AUDIT (CENTRAL)**  
**BENGALURU**

# NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA SURATHKAL

P.O. SRINIVASNAGAR, MANGALORE - 575 025 INDIA

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# DIRECTOR'S REPORT

## Introduction

National Institute of Technology Karnataka (NITK), Surathkal was established in 1960 as Karnataka Regional Engineering College (KREC), and upgraded as NIT with Deemed University status in 2002. It is an 'Institute of National Importance' as per NIT Act, 2007 and NITSER Act, 2012. It is ranked 17th in all India ranking for engineering, and 46th overall, as per NIRF (2024). This report highlights notable developments, achievements and new initiatives of NITK during 2024-25.

## Infrastructure

The 295-acre residential campus of NITK has all basic amenities including housing, hostels, messes, sports complex, NCC grounds, cooperative stores, health care centre, banks, post office and schools. Academic infrastructure includes department buildings, laboratories, lecture hall complexes, library, workshops, central computer centre, central research facility, and S&T Entrepreneurs' Park. Key infrastructure projects completed in 2024-25 include 'Skytrack' over NH-66, an Olympic-sized swimming pool, and new Lecture Hall Complex-D. Infrastructure upgradation includes Silver Jubilee Auditorium refurbishment, VoIP-based communication replacing old EPABX system, underground cabling of electrical lines from 33KV substation, piped natural gas in association with GAIL, and optic fibre cabling in residential areas. BEL, Bangalore supported a physiotherapy unit. Institute alumni helped in constructing a lawn tennis court, and a rain water reservoir of about 30 million litres capacity. A Non-Formal Sanskrit Education Centre was established under the aegis of Central Sanskrit University, and an Indian Knowledge System (IKS) section was set up in the Main Library. One Nation One Subscription scheme was implemented, providing access to 13,000 e-Journals.

## Faculty and Staff

As on 31st March 2025, there are 296 regular faculty members, who are supported by 166 regular and 245 temporary non-teaching staff members. During 2024-25, one round of faculty recruitment was completed and 28 new faculty members had joined. Orientation program and seed grants were provided for them to kick-start R&D activities. Recruitment for 18 Group-A non-teaching positions is underway and likely to be completed in August 2025.

## Academic Activities

NITK offers B.Tech programs in 11 disciplines and M.Tech programs in 28 specializations, as well as M.Tech (Research), MSc, MBA, MCA and PhD programs. There are two industry-supported M.Tech. programs: Construction Technology & Management (with L&T), and Power Electronics & Control for Electric Vehicles (with Bosch). During AY-2024-25, four M.Tech programs (Industrial Biotech, Materials Engg., Power & Energy Systems, and VLSI Design) were accredited for 6 years each by the National Board of Accreditation. New student admissions in 2024 included 1038 in B.Tech. program, 767 in M. Tech program (including M. Tech-Research and self-financed), 69 in MSc, 77 in MBA, 64 in MCA, and 157 in PhD program. The total number of students is nearly 7000, of which more than 25% are female. The 22nd Annual Convocation held in November 2024 was graced by Shri Kiran Kumar, former Chairman of ISRO and Prof. Govindan Rangarajan, Director of IISc Bangalore as Chief Guests. A total of 2078 academic degrees were awarded, including 1002 UG, 937 PG and 139 PhD degrees.

## Research and Publications

The Central Research Facility (CRF), 15 Centers of Excellence and 50 R&D Labs facilitate basic as well as applied research at NITK. During 2024-25, the faculty initiated 45 new projects valued at about ₹19 crores supported by ANRF, DRDO, ISRO, VGST and other agencies. The total number of ongoing R&D projects

is 160, valued at about ₹45 crores. These are focused on key areas of national interest including space, nano-engineering, biomedical, energy materials, pollution management and sustainability. During 2024-25, faculty shared the relevant knowledge by publishing 1418 papers in SCI/Scopus indexed journals, averaging 5.33 indexed publications and 13.10 citations per faculty per year. They also presented 412 papers in national conferences and 56 in international conferences, which helped in establishing and strengthening collaborations with other institutes.

### **Innovation and Entrepreneurship**

Entrepreneurship Cell (E-Cell), Institute Innovation Cell (IIC), and S&T Entrepreneur's Park (STEP) organized several events to strengthen the innovation and entrepreneurship ecosystem. It included Innovation Week, Entrepreneurship Festival (INCUBATE), Startup Expo and other events. The Capacity Building in Design & Entrepreneurship (CBDE) workshops supported by MoE had 350 participants, and mentored 13 student startup teams. The Innovation, Design & Entrepreneurship (IDE) Bootcamp supported by MoE and AICTE had 350 participants. NITK also hosted the coding hackathon (Hackverse) and Smart India Hackathon, each with over 200 participants. During 2024-25, total 47 patents were filed, 61 patents were granted, and 4 patents were licensed. Till date, more than 120 startup companies have been incubated in STEP, including success stories such as BHive, Chai Point, Delhivery, DriveU, MeritNation, Nestaway, Pinkvilla, Practo Healthcare and Robosoft, who are inspiring many more students to explore entrepreneurship.

### **Collaborations and MoUs**

During 2024-25, NITK signed academic/ research collaboration agreements with Agder University Norway, Oakland University Michigan, IIT Jodhpur, IIT Madras, BMVNTFSA Bangalore, CMTI Bangalore, C-DAC Pune, DRDO (D-FTM/TDF) Delhi and TCIL Delhi. Several industry partnerships were also established or renewed, including Robosoft Technologies Pvt. Ltd. Udupi, Moovita Pte. Ltd. Singapore, 5C Network Pvt. Ltd. Bengaluru, and HP Software Operation Pvt. Ltd. Bengaluru.

### **Conferences and Training Programs**

During 2024-25, NITK organized about 20 national and international conferences/ symposia/ workshops. Most of these were inter-disciplinary in nature and involved partners from other institutes and industry. The 11th IEEE International Conference on Power Electronics, Drives & Energy Systems (PEDES) had 400 participants, including 80 from overseas. The Institute organized four training programs for Bharat Ratna M. Visvesvaraya National Training Facility for Skills for All (BMVNTFSA), Govt. of Karnataka. To empower faculty, staff and students belonging to under-privileged categories, the SC/ST Cell organized training programs coinciding with Dr. Ambedkar Jayanthi, Jan Jatiya Gaurav Divas, and other events. A workshop titled "Indian Knowledge Systems and Heritage Awareness (IKSHA)" was organized to discuss IKS contents and pedagogy in engineering curriculum. The NITKconnect event in Bangalore showcased several brought together nearly 1000 alumni, faculty and students.

### **Extra-Curricular Activities**

The technical festival ENGINEER and cultural festival INCIDENT brought hundreds of students from other colleges. In the Inter-NIT Tournaments held at various places during 2024-25, the NITK team won Best Women Athlete, Best Basketball Player (Men), Best Volleyball Player (Women), Best Kho-Kho Defender (both Men and Women), Best Table Tennis Player (Men), Chess Champion, Mr. NIT in Body Building, Best Power Lifter, Best Swimmer (Women), and Team Runner-Up in Swimming (both Men and Women). The NCC students of NITK also participated in the regional get-together and Republic Day events in Delhi. The rural activities of NSS students in Pilikula were appreciated by the local authorities.

### **Internships and Placements**

The Career Development Centre invited nearly 500 companies to NITK. More than 78% of eligible UG

students and 70% of eligible PG students got placed, with average CTC of about ₹18 lakhs. Major Indian companies included Ather, Bajaj Auto, BEL, Biocon, BPCL, C-DOT, Delhivery, Exide, EIL, GAIL, HRRL, HLL, HCL, Hero, HPCL, JSW, L&T, ICICI, IDBI, MNGL, MRPL, NSE, Petronet, Reliance, Shree Cement, Tata Electronics, TCE, UIDAI, Vedanta and others. Global MNCs included Accenture, Adobe, AMD, Arista Networks, ARM, Barclays, Caterpillar, Citi India, Collins Aerospace, Dell, Deloitte, Deutsche Bank, Goldman Sachs, Google, Honda, Hyundai, Honeywell, Intel, Intuit, Microsoft, Nutanix, Oracle, Palo Alto, PwC, Qualcomm, Salesforce, SAP Labs, Samsung, Siemens, Texas Instruments, Uber, VISA, Western Digital, Wells Fargo, ZS Associates and others. Many companies provided internships, of which 70% led to full-time job offers. Other students secured admissions in prestigious universities in India and abroad, or pursued family business, public service and other career paths of their interest.

### **Alumni in News**

NITK is fortunate to welcome excellent students from all over the country year after year, who make the Institute their 'second home', and after graduation continue to excel in various spheres. During 2024-25, Ashwin Shenvi (2004 batch) was appointed as Joint Director of CBI, New Delhi. Suhas Lalinakere Yathiraj (2004 batch) won a silver medal in the SL4 category in Badminton at the Paris 2024 Paralympics. Rekha Kudligi (1987 batch) was awarded the Best Supporting Actress by Chandanavana Film Critics Academy. Tirumani Sri Pooja (2019 batch) secured 62nd rank in UPSC Exam, and Himanshu Thapliyal (M.Tech 2023 batch) secured 1st rank in UPSC Engineering Services Exam. Sub Lieutenant Anannya Rao (2024 batch) was commissioned into the Indian Navy.

### **Other Prominent Activities**

NITK had coordinated the Central Seat Allocation Board (CSAB-2024), and successfully allotted over 42,000 seats in 98 institutes including NITs, IITs, SPAs and GFTIs. The Institute also coordinated with other NITs for creating the "Viksit Bharat 2047 Sectorial Vision" and submitted to the MoE. The institute community regularly participated in ShramDaan under Swachh Bharath Abhiyan program and in the Swachh Surathkal City program in association with local NGOs.

### **Financial Support**

NITK received revenue and capital grants amounting to ₹244.33 crores from the Ministry of Education in FY 2024-25. Internal revenue generation from student fees, consulting, testing, investments and other sources totaled about ₹110 crores. About ₹2.8 crores of CSR grants were received from 14 corporates for various R&D projects. The alumni donated ₹ 0.56 crores to their alma mater, in addition to the infrastructure projects (build and transfer) mentioned earlier. The Corpus fund & Institute Development fund has steadily grown and has reached about ₹321 crores.

### **Conclusion**

The Institute is grateful to the support from the Ministry of Education, the Board of Governors, and Senate members of the Institute. The faculty and staff are to be appreciated for their dedication to duty, and whole-hearted participation in various initiatives. The Institute is committed to the vision of 'Viksit Bharat 2047', and is striving to achieve global excellence coupled with local relevance. For this purpose, we are working closely with both internal stakeholders (faculty, staff, students and residents), and external stakeholders (Government, industry, alumni and other institutes).

Date : 26-08-2025  
Place : Surathkal

Sd/-  
(PROF. B. RAVI)  
DIRECTOR  
N.I.T.K., SURATHKAL

# NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA

SURATHKAL

P.O. SRINIVASNAGAR - 575 025

## BALANCE SHEET AS AT 31-03-2025

(AMOUNT - ₹)

PARTICULARS	SCH. NO.	CURRENT YEAR	PREVIOUS YEAR
<b>SOURCE OF FUNDS :</b>			
CORPUS/CAPITAL FUND	1	93,42,48,156	91,84,15,774
DESIGNATED/ EARMARKED/ ENDOWMENT FUNDS	2	4,65,28,56,770	4,07,53,80,382
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<b>TOTAL</b>		<b>14,80,50,19,389</b>	<b>13,31,59,34,312</b>
SIGNIFICANT ACCOUNTING POLICIES	23		
CONTINGENT LIABILITIES & NOTES ON ACCOUNTS	24		

PLACE : SURATHKAL

DATE : 26-08-2025

Sd/-

( PROF. KUMAR G.N )

REGISTRAR I/C

N.I.T.K., SURATHKAL

Sd/-

(PROF. BHALLAMUDI RAVI)

DIRECTOR

N.I.T.K., SURATHKAL

NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA

SURATHKAL  
P.O. SRINIVASNAGAR - 575 025

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2025

PARTICULARS		SC.NO.	CURRENT YEAR	PREVIOUS YEAR
INCOME:				
ACADEMIC RECEIPTS	9		55,64,77,784	50,08,43,766
GRANTS/SUBSIDIES	10		2,32,41,09,714	2,08,26,02,384
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TOTAL (B)			3,65,47,54,509	3,37,69,99,903
BALANCE:				
EXCESS OF EXPENDITURE OVER INCOME	(B-A)		11,30,44,782	18,57,02,736
SIGNIFICANT ACCOUNTING POLICIES	23			
CONTINGENT LIABILITIES & NOTES ON ACCOUNTS	24			

PLACE : SURATHKAL  
DATE : 26-08-2025

Sd/-  
( PROF. KUMAR G.N )  
REGISTRAR I/C  
N.I.T.K., SURATHKAL

Sd/-  
(PROF. BHALLAMUDI RAVI)  
DIRECTOR  
N.I.T.K., SURATHKAL

# NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA

SURATHKAL

P.O. SRINIVASNAGAR - 575 025

## SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31.03.2025

SCHEDULE NO. 1 - CORPUS/CAPITAL FUND		(AMOUNT - ₹)	
		CURRENT YEAR	PREVIOUS YEAR
<b>CORPUS /CAPITAL FUND:</b>			
<b>A CORPUS FUND:</b>			
Balance at the beginning of the year		91,84,15,775	88,49,02,009
Add: Contributions towards Corpus/Capital Fund	-		
Add: Grants from MoE, Govt. of India to the extent utilised for Capital Expenditure	11,92,00,000		17,05,47,964
Add: Assets purchased out of Earmarked Funds, where ownership vests in the Institution	96,77,163		71,79,283
Add: Assets Capitalised out of Revenue Grant	-	12,88,77,163	5,93,24,986
Less : Investments transferred from General Fund to Designated/Endowment/Earmarked Funds		1,04,72,92,938	1,12,19,54,242
Less : Deficit Transferred from Income & Expenditure Account		-	1,78,35,731
<b>BALANCE AS AT THE YEAR END FOR SCHEDULE - 1</b>		11,30,44,782	18,57,02,736
		<b>93,42,48,156</b>	<b>91,84,15,775</b>

PLACE: SURATHKAL

DATE : 26-08-2025

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(PROF. BHALLAMUDI RAVI)  
DIRECTOR  
N.I.T.K., SURATHKAL



# NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA

SURATHKAL

P.O. SRINIVASNAGAR - 575 025

## SCHEDULE 2 - DESIGNATED/ EARMARKED/ ENDOWMENT FUNDS AS ON 31-03-2025

PARTICULARS	CAMPUS DEVELOPMENT FUND	EQUIPMENT MAINTENANCE FUND	GOLDEN JUBILEE FUND	HOSTEL DEVELOPMENT FUND	IIIP CELL FUND	INSTITUTE DEVELOPMENT FUND	INSTITUTE SCHOLARSHIP FUND	PROFESSIONAL DEVELOPMENT FUND	R & D CONSULTANCY FUND	STAFF DEVELOPMENT & WELFARE FUND
<b>A</b>										
(a) Opening Balance of the Fund	1,57,73,011	2,20,07,282	39,43,397	1,38,40,639	83,45,527	45,89,55,912	1,17,637	1,79,44,786	9,05,32,293	60,34,00,570
(b) Additions during the year										
(i) Donations/ Grants/ Fee/ Loans & Advances	-	30,20,086	-	-	14,92,008	1,73,88,858		12,50,214	51,24,304	5,14,95,786
(c) Income from Investments	13,78,418	14,83,700	2,85,861	9,46,720	5,83,550	3,66,04,421	7,236	11,72,728	62,11,561	1,99,97,889
(d) Interest on Savings Bank A/c.	-	-	-	-	-	-	-	-	-	-
(e) Other Additions										
(i) Miscellaneous Income/Adj	-	-	-	-	-	-	-	-	-	-
(ii) Investments transferred from General Fund	-	-	-	-	-	-	-	-	-	-
<b>TOTAL A</b>	<b>1,71,51,429</b>	<b>2,65,11,068</b>	<b>42,29,258</b>	<b>1,47,87,359</b>	<b>1,04,21,085</b>	<b>51,29,49,191</b>	<b>1,24,873</b>	<b>2,03,67,728</b>	<b>10,18,68,158</b>	<b>67,48,94,245</b>
<b>B</b>										
Utilisation/ Expenditure towards Objectives of Funds :										
(i) Capital Expenditure										
Fixed Assets	-	-	-	-	1,35,700	2,04,032	-	4,03,219	-	7,57,858
(ii) Revenue Expenditure										
Salaries, Wages & Allowances etc.,	-	-	-	-	-	-	-	-	-	-
Other Administrative/ Activity Expenses	-	-	-	-	30,444	-	-	5,50,080	16,64,685	11,32,45,157
Sports & Games / Swimming Pool	-	-	-	-	-	-	-	-	-	-
(iii) Transfer/ Refund-Admission Fee/TDS	-	-	-	-	-	-	-	-	-	-
<b>TOTAL B</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,66,144</b>	<b>2,04,032</b>	<b>-</b>	<b>9,53,299</b>	<b>16,64,685</b>	<b>11,40,03,015</b>
<b>Closing Balance at the year end (A-B)</b>	<b>1,71,51,429</b>	<b>2,65,11,068</b>	<b>42,29,258</b>	<b>1,47,87,359</b>	<b>1,02,54,941</b>	<b>51,27,45,159</b>	<b>1,24,873</b>	<b>1,94,14,429</b>	<b>10,02,03,473</b>	<b>56,08,91,230</b>
<b>Represented by</b>										
Cash & Bank Balance	-	40,16,750	-	1,47,228	13,80,763	62,65,315	-	17,54,388	92,41,097	1,02,86,239
Investments	1,99,88,414	2,12,73,578	41,95,990	1,44,17,855	83,92,573	48,66,28,602	1,28,028	1,67,01,651	8,50,58,734	53,82,95,960
Interest Accrued but not due	2,77,339	10,98,666	55,072	2,00,048	4,33,444	1,90,48,543	7,236	8,62,551	56,41,253	1,14,44,435
TDS	30,815	1,22,074	6,119	22,228	48,161	8,02,699	-	95,839	2,62,389	8,64,596
Sundry Creditors/Payables	(31,45,139)	-	(27,923)	-	-	-	(10,391)	-	-	-
Misc Advance/Receivable	-	-	-	-	-	-	-	-	-	-
Inventories(Consumables)	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>1,71,51,429</b>	<b>2,65,11,068</b>	<b>42,29,258</b>	<b>1,47,87,359</b>	<b>1,02,54,941</b>	<b>51,27,45,159</b>	<b>1,24,873</b>	<b>1,94,14,429</b>	<b>10,02,03,473</b>	<b>56,08,91,230</b>

PLACE: SURATHKAL

DATE : 26-08-2025

Sd/-

(PROF. KUMAR G.N)  
REGISTRAR I/C  
N.I.T.K., SURATHKAL

Sd/-

(PROF. BHALLAMUDI RAVI)  
DIRECTOR  
N.I.T.K., SURATHKAL

SCHEDULE 2 - DESIGNATED/ EARMARKED/ ENDOWMENT FUNDS AS ON 31-03-2025

		ENDOWMENT		STUDENT ACTIVITY COUNCIL	NITK CORPUS FUND	CCE FUND	STUDENT PRIZE FUND	NITK/KREC ENDOWMENT FUND	NITK CSAB 2025	GRAND	
		CHAIR FUND	FUND							TOTAL 2024-25	TOTAL 2023-24
A	(a)	85,46,499	12,04,23,824	2,64,39,58,306	58,78,165	88,29,196	5,04,47,489	24,35,849	4,07,53,80,382	3,85,46,31,657	
	(b)										
	(c)	-	3,57,09,497	5,74,44,750	17,33,948	5,00,000	3,42,67,367	40,43,22,000	61,37,48,818	17,06,17,364	
	(d)	32,36,693	83,60,704	21,05,69,779	4,06,482	2,824	28,87,094	6,80,32,421	36,21,68,081	28,95,25,261	
	(e)	-	2,80,464	18,30,656	17,940	-	-	-	21,29,060	16,06,918	
	(j)	6,00,00,000	-	-	-	-	8,051	2,005	6,00,10,056	17,187	
	(k)	-	-	-	-	-	-	-	-	2,03,35,731	
	TOTAL A	7,17,83,192	16,47,74,489	2,91,38,03,491	80,36,535	93,32,020	8,76,10,001	47,47,92,275	5,11,34,36,397	4,33,67,34,118	
B	Utilisation/ Expenditure towards Objectives of Funds :										
	(I) Capital Expenditure										
	Fixed Assets		20,75,057		23,364		12,27,868	48,50,065	96,77,163	63,73,702	
	(II) Revenue Expenditure										
	Salaries, Wages & Allowances etc.,		4,56,000				8,72,625	2,05,54,415	2,18,83,040	20,40,38,691	
	Other Administrative/ Activity Expenses		1,57,35,275		17,74,912		1,82,80,888	5,29,67,746	20,42,49,187	-	
	Sports & Games / Swimming Pool		1,28,02,628						1,28,02,628	-	
	(III) Transfer/ Refund-Admission Fee/TDS		-	21,13,49,628		6,17,979.00			21,19,67,607		
	TOTAL B	-	3,10,68,960	21,13,49,628	17,98,276	6,17,979	2,03,81,381	7,83,72,226	46,05,79,625	26,13,53,736	
	Closing Balance at the year end (A-B)	7,17,83,192	13,37,05,528	2,70,24,53,864	62,38,258	87,14,041	6,72,28,620	39,64,20,048	4,65,28,56,770	4,07,53,80,382	
	Represented by										
	Cash & Bank Balance	-	2,11,35,641	4,18,236	6,88,346	-	1,51,72,270	6,27,175	7,11,33,448	9,45,17,241	
	Investments	6,90,57,899	11,78,99,543	2,81,06,80,000	53,02,100	1,00,85,165	5,01,28,087	42,99,73,446	4,68,82,07,625	4,06,81,90,677	
	Interest Accrued but not due	28,34,012	27,05,554	9,30,71,149	1,24,302	3,99,961	14,74,198	19,21,627	14,15,99,390	11,08,90,009	
	TDS	50,523	38,05,592	1,88,81,030	1,23,510	7,076	6,17,431	68,00,476	3,25,40,558	5,26,65,813	
	Sundry Creditors/Payables	(1,59,242)	(1,26,60,853)	(22,05,96,551)	-	(17,78,161)	(1,63,366)	(4,29,02,676)	(28,14,44,302)	(25,20,18,707)	
	Misc Advance/Receivable	-	32,500	-	-	-	-	-	-	32,500	
	Inventories(Consumables)	-	7,87,551	-	-	-	-	-	-	7,87,551	
	TOTAL	7,17,83,192	13,37,05,528	2,70,24,53,864	62,38,258	87,14,041	6,72,28,620	39,64,20,048	4,65,28,56,770	4,07,53,80,382	

PLACE: SURATHKAL

DATE : 26-08-2025

Sd/-

(PROF. KUMAR G.N)  
REGISTRAR I/C  
N.I.T.K., SURATHKAL

Sd/-

(PROF. BHALLAMUDI RAVI)  
DIRECTOR  
N.I.T.K., SURATHKAL

SCHEDULE NO. 3 - LOAN / BORROWINGS		(AMOUNT ₹)	
		CURRENT YEAR	PREVIOUS YEAR
<b>A SECURED LOANS</b>			
1. Central Government		-	-
2. State Government (Specify)		-	-
3. Financial Institutions		-	-
a) Term Loans		-	-
i) HEFA Loan A/c.No.0010110000070 - CRF Equipment	40,09,62,956		48,20,61,607
ii) HEFA Loan A/c.No.0010110000075 - COE & CRF Building	18,24,86,527		23,11,84,426
iii) HEFA Loan A/c.No.0010110000123 - New Girls Hostel Building	18,72,86,078		22,57,23,389
iv) HEFA Loan A/c.No.0010110000160 - Lecture Hall Complex	43,11,72,506	1,20,19,08,067	10,14,58,329
b) Other Loans (Specify)			-
4. Banks:			-
5. Other Institutions and Agencies			-
6. Debentures and Bonds			-
7. Others (Specify)			-
Note: Amounts due within one year	22,06,40,000		-
<b>Total</b>		<b>1,20,19,08,067</b>	<b>1,04,04,27,751</b>
<b>B UNSECURED LOANS</b>			
1. Central Government		-	-
2. State Government (Specify)		-	-
3. Financial Institutions		-	-
4. Banks:		-	-
5. Other Institutions and Agencies		-	-
6. Debentures and Bonds		-	-
7. Fixed Deposits		-	-
8. Others (Specify)		-	-
<b>Total</b>			
Note: Amounts due within one year			
<b>BALANCE AS AT THE YEAR END FOR SCHEDULE - 3 (A+B)</b>		<b>1,20,19,08,067</b>	<b>1,04,04,27,751</b>

PLACE: SURATHKAL

DATE : 26-08-2025

Sd/-

(PROF. KUMAR G.N)  
REGISTRAR I/C  
N.I.T.K., SURATHKAL

Sd/-

(PROF. BHALLAMUDI RAVI)  
DIRECTOR  
N.I.T.K., SURATHKAL

SCHEDULE NO. 3 (A) - CURRENT LIABILITIES & PROVISIONS		(AMOUNT ₹)	
		CURRENT YEAR	PREVIOUS YEAR
<b>A CURRENT LIABILITIES:</b>			
1 Deposits from Staff & Lease		88,69,065	4,48,385
2 Deposits from Students		5,03,81,501	4,73,84,781
3 Sundry Creditors - Others			
Student Activity Council	1,26,60,851		
NITK/KREC Endowment Fund	1,63,366		
NITK Corpus Fund	22,05,96,550	23,34,20,767	22,16,60,179
4 Deposit - Others		8,69,80,459	7,97,83,440
5 Statutory Liabilities			
a) Overdue		-	-
b) Others		68,93,958	56,93,491
6 MoE Surplus Grant		-	-
7 Other Current Liabilities			
Bills Payable		52,21,44,376	27,95,90,630
Salary Deductions		3,55,41,582	3,20,69,957
Workshop/seminar Grant		34,31,864	33,27,937
8 Projects/Other Reseach Schemes (Refer Schedule 3(a) for details)		19,33,67,028	23,72,90,700
9 Sponsored Fellowship and Scholarship (Refer Schedule 3(b) for details)			
AICTE	5,66,873		
SC/ST Scholarship Grant	15,45,997		
External Scholarship	80,79,034	1,01,91,904	85,06,538
<b>TOTAL (A)</b>		<b>1,15,12,22,503</b>	<b>91,57,56,039</b>
PLACE: SURATHKAL		Sd/-	
DATE : 26-08-2025		(PROF. BHALLAMUDI RAVI) DIRECTOR N.I.T.K., SURATHKAL	
		Sd/-	
		(PROF. KUMAR G.N) REGISTRAR I/C N.I.T.K., SURATHKAL	

SCHEDULE NO. 3 (A) - CURRENT LIABILITIES & PROVISIONS: (Continued)		(AMOUNT ₹)	
		CURRENT YEAR	PREVIOUS YEAR
<b>B. PROVISIONS:</b>			
1	Gratuity	36,54,96,179	35,23,12,682
2	Superannuation Pension	5,82,86,97,205	5,39,97,75,305
3	Accumulated Leave Encashment	55,07,45,949	48,45,00,534
4	Audit Fee	2,50,000	2,50,000
5	Children Education allowance	98,75,000	79,00,000
6	Electricity charges	66,45,256	63,41,097
7	Fellowship/Stipend	2,74,00,000	3,29,72,175
8	Hostel Establishment Charges	54,55,419	13,37,269
9	Mtce of Electrical Installation	10,07,128	2,41,547
10	Mtce of Waste Water Disposal	6,80,254	5,25,554
11	Merit Cum Means Scholarship	39,44,000	37,04,000
12	Merit Scholarship	9,00,000	9,20,000
13	Pay & Allowance	6,13,43,524	6,48,36,224
14	Professional Fee	7,08,000	7,26,631
15	Telephone /Telex	9,506	91,960
16	Water Supply	15,36,374	15,98,845
17	Provision for Other Expenses	1,000	-
18	Provision for GST	-	20,02,418
19	Testing & Consultancy Payable	-	-
20	Professional Security Services	-	48,69,514
21	Contractual Staff/Manpower	89,100	89,100
22	Entertainment/Meeting Exps	-	2,64,177
23	Provision for RCM GST	-	6,95,330
<b>TOTAL (B)</b>		<b>6,86,47,83,894</b>	<b>6,36,59,54,362</b>
<b>BALANCE AS AT THE YEAR END FOR SCHEDULE - 3(A) (A + B)</b>		<b>8,01,60,06,397</b>	<b>7,28,17,10,401</b>

PLACE: SURATHKAL

DATE : 26-08-2025

Sd/-

(PROF. KUMAR G.N)  
REGISTRAR I/C  
N.I.T.K., SURATHKAL

Sd/-

(PROF. BHALLAMUDI RAVI)  
DIRECTOR  
N.I.T.K., SURATHKAL

**SCHEDULE 3(a): SPONSORED PROJECTS**

Sl. No.	Particulars	Opening Balance	Receipts	Interest	Expenditure	Closing Balance
1	5G Project Funding - Mohit Tahiliani	3,86,252	-	5,362	2,07,210	1,84,404
2	ADA-Generation of Design-Vasudeva /AB	62,51,905	-	1,66,200	2,33,683	61,84,422
3	ADBI-Impact Soil Health Card Scheme- Prad Jena	4,00,376	-	5,579	3,25,028	80,927
4	Alumni Bio Waste Recycling - Vasudeva M	1,66,154	94,481	5,637	-	2,66,272
5	Alumni-CSD Robocon N I T K-Pruthvi/KVG	1,03,014	86,501	916	1,85,621	4,810
6	Alumni - CWERP Project - Vasudeva M	3,97,735	2,50,000	8,111	3,84,305	2,71,541
7	Alumni-Food Waste to Hydrogen -Saikat Dutta	21,639	-	-	21,639	-
8	Alumni- Food Waste to Hydrogen SMR- Vasu/Ashok	22,700	-	-	22,700	-
9	CSR-Freelance Platfrm Built on Blkchain-Saurv/Moh-A	3,76,406	-	9,738	1,32,444	2,53,700
10	Alumni-Green Hydogen Seawater Ele- Saikat/Vasu	4,46,673	-	10,051	1,47,961	3,08,763
11	Alumni - IIT Madras - EXPLORE - K V G	9,82,764	4,50,000	29,407	3,44,480	11,17,691
12	Alumni-Implh of Organic Waste Bio -Orissa-Vasudev	31,11,207	-	82,999	85,985	31,08,221
13	Alumni IMU Algorithm Devt-Geetha/Saum	6,28,099	-	14,264	6,16,963	25,400
14	Alumni-Influ of Perforation Cold Formed Steel- VVK	2,44,105	-	6,455	33,246	2,17,314
15	Alumni-Inv&Opt Green Hyd RDF- Vas/Veer	24,580	-	-	24,580	-
16	Alumni- Maire Tech Fac Res Sustainable Devt- Vasu	7,110	-	-	7,110	-
17	Alumni MISRA Count Automatin- Anant /Saumy/Gee	3,34,820	-	7,233	3,30,795	11,258
18	CSR-Modelling & Exp Catalt Steam Biogas- Vasu	13,63,559	15,46,000	69,539	2,67,523	27,11,575
19	Alumni SEARCH- Pruthviraj / K V Gangadharan	3,13,529	-	1,005	3,01,430	13,104
20	Alumni- SOLMELU - Rashmi U/Suprabha	1,02,354	-	2,622	63,000	41,976
21	Alumni-Support for Research on Steam Biogas-Vasu	42,329	-	-	42,329	-
22	Alumni-Vidh Yug E -Cycle for NITK-Pruth/KVG/Moh	42,205	-	1,140	-	43,345
23	An Empirical Study of Affectg Demand-Savita B	52,551	28,125	-	80,676	-
24	ANSYS Software Post Doctrol Fellowship	8,04,448	-	21,720	-	8,26,168
25	AquaWise A1 Enhanced Water Intell - Pruthviraj	5,01,125	29,00,000	54,307	21,01,698	13,53,734
26	Assess & Manage -Krishna River-B Manu	75,16,875	-	1,97,221	10,35,909	66,78,187
27	Boeing Company- H O D , Mechanical Engg	25,70,246	-	50,787	16,67,767	9,53,266
28	CLAS for Research Proj/feasib Studies- Nikhil	2,04,500	1,74,000	7,479	-	3,85,979
29	COSH-CSE-IPv6 - Mohit T	1,03,72,879	41,65,375	2,54,108	1,25,82,330	22,10,032
30	CPCB - Random Verfy - Azhoni	90,653	-	2,448	-	93,101
31	CPRE-Design & Demo-Poornesh Kumar	6,11,708	5,50,000	8,080	5,07,672	6,62,116
32	CPRI-RSOP-D&V of India Solar Energy-Kashyap	41,19,248	-	1,08,894	6,71,504	35,56,638
33	CSD Industrial Project - K V Gangadharan	4,53,401	4,00,000	14,442	1,86,719	6,81,124
34	CSIR-CRRI-Devt of Trip- Mithun Mohan	1,37,589	-	3,623	3,717	1,37,495

Sl. No.	Particulars	Opening Balance	Receipts	Interest	Expenditure	Closing Balance
35	CSIR -Design & Fab of on Chip Vertical Hy-Mandeep	39,552	-	-	39,552	-
36	CSIR-Emeritus-Harikrishna Bhat	28,138	38,940	-	67,078	-
37	C S I R - Fellowship - Kiran Antony	11,382	-	307	-	11,689
38	C S I R -Fellowship- Revathy J M	6,681	-	180	-	6,861
39	CSR - EMBRACE - Mohit P /Pruthvi	39,46,605	11,89,989	-	51,36,594	-
40	CSR-Enhancing Disaster Mgt A R Commn-KVG	5,91,328	8,924	2,858	5,98,896	4,214
41	CSR- Solmelu- Mohit/Saumya	26,32,524	-	61,182	8,37,556	18,56,150
42	CSR - WiFi - Mohit P T	13,78,094	-	35,035	2,41,469	11,71,660
43	DAE-Fractional Regularization Methods-Jidesh	83,029	-	2,242	-	85,271
44	Defin of Delay Sequencig Blast Design- Karra Ram	26,894	7,66,300	11,413	7,88,461	16,146
45	Design & Dev of Ultra Low Power CMOS-Sandeep	4,725	-	-	-	4,725
46	Design & Exeution Fisheries Project-Pruthviraj	4,42,04,774	-	6,28,762	3,11,73,146	1,36,60,390
47	Design Innovation Center -S.M.Kulkarni	1,36,306	-	2,099	1,04,031	34,374
48	Design Standn & Optin of Static Pallet- Vijaya Ven	3,71,990	-	9,230	2,49,642	1,31,578
49	Dev of Effluent Treatment Tech for CN- B Manu	10,683	-	-	10,683	-
50	Devt of DC-DC Converter for PV System-Vignesh	14,530	-	392	-	14,922
51	Devt of High Temp Wear & Erosion Rsist - Rajasekara	15,59,616	10,15,800	55,868	12,27,709	14,03,575
52	Digital India In Faculty Youth Award	12,09,943	-	-	12,09,943	-
53	DRDO-Assessing Suitable - Srikanth Bontha	2,40,61,058	-	5,19,026	1,19,37,937	1,26,42,147
54	DRDO-CARS Quantum Cryptanalysis -B Rudra	19,83,477	-	29,829	16,38,435	3,74,871
55	Drdo-Design Analysis Foldable-Gangadhar/Jayaraj	1,74,900	8,47,942	-	10,22,842	-
56	DRDO-Design & Devt - Raj Mohan	45,396	6,63,537	-	7,08,933	-
57	DRDO-Design of Shock- Hemanth Kumar	4,29,157	7,80,409	12,966	10,05,100	2,17,432
58	DRDO-Devt of Low Phase Radar Appln-Mandeep S	1,18,796	6,54,065	8,133	5,50,971	2,30,023
59	DRDO-Partial Slip-Vadivuhezion K	2,37,750	-	-	2,37,750	-
60	DRDO-Prepa of Poly -Arun M Isloor	2,16,711	2,56,780	2,861	4,50,964	25,388
61	DRDO-Shock Response Studies - M Doddamani	20,37,067	-	21,340	19,50,400	1,08,007
62	DST-Achieving Beyond Birthday B S - B Shankar	35,000	-	-	-	35,000
63	DST-Centre of Excellence - Raj Mohan	-	25,25,579	-	25,25,579	-
64	DST-Combined HVOF-PBD- Ramesh M R	-	6,52,840	-	6,52,840	-
65	DST-CSRI-Speaker Recotn - Shashidhar	5,78,837	5,48,122	-	8,80,024	2,46,935
66	DST-Des&Dev of Nanoscale Interg Sys- Sandeep	1,052	15,72,218	-	15,73,270	-
67	DST-Devt of Convertible -Saurbh Chandraker	-	33,69,394	-	33,69,394	-
68	DST-Fabrication of 2-D - Selvakumar	-	6,98,840	-	6,98,840	-
69	DST Fellowship- Nidhi Regina Mendonca	83,763	5,01,296	-	4,48,139	1,36,920



Sl. No.	Particulars	Opening Balance	Receipts	Interest	Expenditure	Closing Balance
70	DST Fellowship - Venkatramana	85,720	-	2,314	-	88,034
71	DST-Fellowship - Vigneshwar Ganesh Bhat	7,183	9,37,419	-	8,52,943	91,659
72	DST-FIST-Program-HOD of App. Mech	59,961	-	-	59,961	-
73	DST-Inspired Fellowship-Vasundhara R	5,094	3,98,308	-	3,53,373	50,029
74	DST Inspire - Dr Poornesh K K	1,26,404	-	3,413	-	1,29,817
75	DST-Integrated Photocatalytic - Vidya Shetty	28,041	-	757	-	28,798
76	DST-MAHE-HUB- Sharanappa	14,17,393	7,28,394	32,272	14,17,390	7,60,669
77	DST-MST-Design Hybrid-Saurabh Chan	-	25,63,200	-	25,63,200	-
78	DST-SEED-Design & Devt -Hemanth Kumar	-	9,780	-	9,780	-
79	DST-Surface Engineer - Selvakumar	-	5,02,740	-	5,02,740	-
80	DST -Training Programme - Ramesh H	-	3,04,153	-	3,04,153	-
81	IHUB Enhag the Security of SEL/SEAndroid-Radhika	6,79,601	4,45,000	21,211	6,15,446	5,30,366
82	Foundation for ISHRAE -Cost of Effe- Doddamani M	91,038	-	2,458	-	93,496
83	Global Vipassanna Foundation - Pavan G S	8,44,168	-	13,630	4,62,426	3,95,372
84	Govt of Maharashtra -Computatin Site- Sreevalsa K	5,35,592	-	8,282	4,41,551	1,02,323
85	Hutti Gold Mines-Development of Value - Aruna	28,765	-	777	-	29,542
86	I B M SUR Award - Basavaraj Talwar	10,13,043	-	27,352	-	10,40,395
87	ICSSR-Assing Impact of Climate Change - Rajesh A	36,505	-	-	36,505	-
88	ICSSR-Exp Efficient Solutions - Ritanjali M	3,70,297	-	9,998	-	3,80,295
89	Industry Sponsor Research-Imprint	47,274	-	1,276	-	48,550
90	Info. Security Education & Aware-Phase II-Alwyn	24,51,655	-	-	24,51,655	-
91	INSPIRE Faculty Award-Kishore Sridharan	27,420	-	-	27,420	-
92	INTEL India Fellowship -Basavaraj Talawar	1,04,332	-	2,817	-	1,07,149
93	ISEF-Electrification of Indian Seaports- K V G	1,41,13,932	-	3,42,603	23,78,324	1,20,78,211
94	ISEF-Electrifying Cochin Port & Harit Sagar- K V G	41,41,996	59,66,717	2,50,244	9,79,451	93,79,506
95	ISEF-Electrifying Kar Milk Industry- K V G	41,10,945	41,83,018	1,76,989	11,27,810	73,43,142
96	ISRO-Customized Reconfigule Platform-Annappa	49,049	-	32	47,850	1,231
97	ISRO-Design &Analysis - Partha Sarathy	6,11,886	-	-	6,11,886	-
98	ISRO-Design Dev of Multi Harmonies-Sandeep	933	7,63,029	-	7,58,440	5,522
99	ISRO-Design & Devt of Multiimpet-Karthikeyan	13,178	6,60,861	-	6,72,820	1,219
100	ISRO-IIRS-Des & Dev of Autd Software Tools- Shyamla	5,64,898	5,00,000	19,659	4,21,349	6,63,208
101	ISRO-Layer Based - Srikanth Bontha	1,20,779	5,35,000	-	6,48,907	6,872
102	ISRO-Progra Photonic Microwave -Mandeep Singh	333	12,76,974	-	12,72,738	4,569
103	ISRO RACS- NITK Centre	878	-	24	-	902
104	ISRO-Realisation of A1- G V Preetham K	30,77,227	-	3,635	30,53,661	27,201

Sl. No.	Particulars	Opening Balance	Receipts	Interest	Expenditure	Closing Balance
105	ISRO-Respond Dev of Automatic Land- Shyamalal	1,08,197	-	-	1,08,197	-
106	Karnataka State Bio Fuel Dev Board	3,40,075	-	9,182	-	3,49,257
107	KSTePS-Development of Anti-Udaya Bhat K	3,41,422	9,218	-	-	3,50,640
108	KSTEPS- Devlpt of Met - M R Rehman	2,39,061	6,455	-	-	2,45,516
109	Ksteps-Devt of Ternary - Sathyabhama	6,01,294	-	5,626	5,23,920	83,000
110	KSTEPS-Solar Based Electric Vehi Charger-B V P	1,69,048	-	4,564	-	1,73,612
111	KsTePS-VGST-Des&Dev of Parhal Proce-Waseem	1,60,355	-	984	1,33,266	28,073
112	L&T Sponsored MTech(CTM)Project	2,85,72,267	2,37,28,282	10,44,034	1,61,24,822	3,72,19,761
113	Maire Tecnimont Centre for Researh-Vasudeva M	13,88,300	-	14,072	13,81,696	20,676
114	Meast & Asst of Dust NMDC Ballari-Harsh V	2,18,595	-	4,023	95,750	1,26,868
115	Measut & Asst of Dust Conctns - Kadaba- Harsha V	26,877	-	581	6,672	20,786
116	MEITY-Speech Tech in Indian Languages -Deepu	47,371	-	-	47,371	-
117	Metallurgical Investigatin-Jagannath Nayak	72,020	-	1,945	-	73,965
118	MHRD Virtual Lab Phase2 Gangadharan	5,26,069	-	5,220	4,44,345	86,944
119	MPSW-NMPT-New Resilent - Babloo Chaudhary	4,99,409	7,30,000	18,122	12,12,473	35,058
120	MSME-Awareness Programme -Bijuna	315	1,13,305	-	1,13,305	315
121	MSME-Awareness Program & Workshop-Bijuna/PU	11,81,243	-	-	11,81,243	-
122	MSME CLCS - TU Scheme- Bijuna C M/KVG	1,29,850	-	3,301	22,729	1,10,422
123	MSME-Wristband Emer Aler for Lifeguards- Bijuna	1,72,075	5,93,659	-	7,65,659	75
124	National Jute Board - Tech Dev-Sreevalsa K	11,95,556	7,38,137	15,149	19,30,585	18,257
125	NTTM-Edu-23-00024-Sreevalsa	-	2,95,15,500	-	2,95,15,500	-
126	NTTM-Pre Oriented Carbon- Palanisamy	-	15,66,100	-	15,66,100	-
127	Phase 3-Virtual Lab-K V Gangadharan	78,24,585	89,73,536	3,01,974	41,51,744	1,29,48,351
128	Raptor Design -High Gain- V Preumal , EE	6,143	-	166	-	6,309
129	R & D Project-Investigation to Reduction-Harsha Var	2,51,876	-	4,269	1,52,725	1,03,420
130	Scientific Study for Pit Iron Ore - Sandi Reddy	5,46,835	3,594	14,153	30,768	5,33,814
131	SERB-Affordable Thera Sol for Rehabi- Krishnan	1,86,839	6,50,000	5,653	8,12,102	30,390
132	SERB-A Retinex Inspired Framework - Jidesh P	91,635	-	420	92,055	-
133	SERB-Artificial Intelligence Based Mod-Shruttilipi	2,03,695	-	2,244	2,02,306	3,633
134	SERB-Asean-Investigation - Subhas C Katti	18,000	-	-	-	18,000
135	SERB-Asen-Design- Uday Kumar Dalimba	3,71,197	-	-	3,71,197	-
136	SERB-Automatic Early Detection of L C- Annappa	7,83,541	-	15,666	7,77,485	21,722
137	SERB-Automatic Multi Speaker- Deepu V	98,412	-	2,657	-	1,01,069
138	SERB-Conjunctive Use - Ramesh H	-	4,17,251	4,028	3,56,666	64,613
139	SERB-Des&Dev of Gan HEMT Based LNA-Sandeep	6,136	-	166	-	6,302

Sl. No.	Particulars	Opening Balance	Receipts	Interest	Expenditure	Closing Balance
140	SERB-Design & Devt -Ajay Kumar Yadav	6,30,237	5,52,670	-	11,82,907	-
141	SERB-Design & Devt - Ramachandra Bhat	21,042	-	-	21,042	-
142	SERB - Design & Fabrication -Saurabh Chandraker	-	1,29,296	-	1,29,296	-
143	SERB-Dev of Design Essentls for GA203-Nikhil	7,588	-	-	-	7,588
144	SERB-Dev of Highly Condu Ultrathin VS2-Sushil	2,124	79,921	-	82,045	-
145	SERB-Dev of Innovative - Palanisamy	894	3,00,285	-	3,01,179	-
146	SERB-Dev of Microbial - Devatha C P	3,37,194	-	3,442	3,04,886	35,750
147	SERB- Dev of Tea Plant Disease - Jaidhar	9,04,649	-	18,868	3,92,006	5,31,511
148	SERB-Dev of Biodegrade-Jeyaraj	2,69,569	-	-	2,58,553	11,016
149	SERB-Dev of Cost - Ajay Kumar Yadav	9,26,720	-	-	9,26,720	-
150	SERB-Dev of Counter- Babloo Choudhary	4,437	-	-	-	4,437
151	SERB-Dev of Electro - Hari Prasad Dasari	3,995	67,326	-	71,321	-
152	SERB-Enhance Lubricant - P S Suvin	11,47,477	2,50,000	34,467	87,791	13,44,153
153	SERB-Fractional Order Non Local-Bini	1,93,519	-	4,086	1,45,446	52,159
154	SERB - FSER - Matrics - Sam Johnson	2,18,768	-	1,954	2,18,768	1,954
155	SERB-Impounding of River - Ramesh H & Nasar	13,60,365	-	-	13,60,365	-
156	SERB-Improvement in the Prop - Sudhakar C J	11,804	78,123	527	89,209	1,245
157	SERB - Invest Induced - Anish S	6,028	-	-	-	6,028
158	SERB-Invest of Primordial-Sreenath V	1,27,927	-	-	1,27,927	-
159	SERB-Invest on Function -Jagadeesh Babu	17,70,434	7,00,000	60,014	6,07,699	19,22,749
160	SERB-Invest on Inertial -Ranjith M	3,32,270	5,00,000	18,842	79,559	7,71,553
161	SERB-Ionic & Mech -Poornesh K K	26,47,972	10,00,000	62,202	33,27,926	3,82,248
162	SERB-Karyashala Appln of Artificial-Sushil	5,01,125	-	-	5,01,125	-
163	SERB-Laboratory Scale Demon of Kite-Karthikeyan	1,44,571	50,000	4,654	16,319	1,82,906
164	SERB-Laser Directed Energy - Srikanth B	6,50,420	10,00,000	29,666	8,84,500	7,95,586
165	SERB-Logical Corr for Batteryess Internet- Biswajit	2,57,863	-	-	2,57,863	-
166	SERB- Metamaterial Based Novel- Krishnamoorthy	-	15,181	-	-	15,181
167	SERB-Multi-Functional Metasurface-Krishnamty	11,81,029	-	18,629	7,71,971	4,27,687
168	SERB-Multi Scale Model -Debashree Chak	87,393	5,50,000	5,672	6,08,675	34,390
169	SERB- Newdelhi - Project	1,19,144	3,35,000	3,217	-	4,57,361
170	SERB-Nonlockal &Non Convex Fractnl -Jedesh	36,832	1,80,000	2,524	2,16,377	2,979
171	SERB-Novel Catalytic -Saikat Dutta	3,24,426	4,00,000	4,827	7,24,426	4,827
172	SERB-Olefin Linked - Lakshmi Vellank	9,059	-	-	-	9,059
173	SERB-Organinc Rankine - Veeretty Gumpta	23,70,630	-	64,007	-	24,34,637
174	SERB-Particle Migration- Arun Mahalingam	17,75,322	-	-	17,75,322	-

Sl. No.	Particulars	Opening Balance	Receipts	Interest	Expenditure	Closing Balance
175	SERB-Performance Evaluation - Ramesh M R	13,51,294	10,00,000	40,105	16,03,180	7,88,219
176	SERB-Photonic Porous Silicon Nano- Mandeep Singh	68,365	5,60,675	5,666	5,96,457	38,249
177	SERB-Prawn Shell - Saumen Mandal	1,99,561	4,50,000	-	6,49,561	-
178	SERB-Predictive Asst of Posteral Risk-Bijay Mihir	63,620	-	-	63,620	-
179	SERB-Restricted Proper Edge Color of Graphs -Manu B	1,94,862	-	1,315	1,94,862	1,315
180	SERB-Safety Data Analytics & Core- Kunar	9,131	-	-	9,131	-
181	SERB-Semi Active -Hemanth Kumar	3,67,595	14,00,000	27,259	8,00,922	9,93,932
182	SERB-Smart Electric Vehicle - Dastogiri	3,35,883	4,50,000	-	7,85,883	-
183	SERB-SOCCER Sophisticated Optizd Dc Dc -Kalpana	5,82,096	3,00,000	13,226	7,51,547	1,43,775
184	SERB-Study on Non Linear Equations- Santho.Jjidesh	1,63,075	5,50,000	4,458	6,91,176	26,357
185	SERB-Synthesis of Azulence-Vjayendra S	2,93,120	4,00,000	-	6,93,120	-
186	SERB-Synthesis of Carbo - Beenes P B	6,46,158	4,00,000	-	10,46,158	-
187	SERB-Synthesis of Intel - Ranjeet K Sahu	12,77,465	6,00,000	38,694	6,01,897	13,14,262
188	SERB- TARE - MAHE-Sam Johnson	3,323	3,35,000	1,968	3,38,323	1,968
189	SERB-TARE-Nitte- Regupathi	1,79,932	-	4,858	-	1,84,790
190	SPARC-Evaluating Potential - Ritanjali	-	21,79,186	-	21,79,186	-
191	SPARC-Laser Additive -Srikanth Bontha	-	21,68,761	-	21,68,761	-
192	Training Programme- MRPL-Rashmi Uchil	1,04,888	-	773	91,525	14,136
193	VGST-Dev. & Characterization -Ch S N Murthy	2,41,088	16,668	6,884	-	2,64,640
194	V GST-Develop of Low Cost-Arun M Isloor	21,63,683	-	51,475	14,54,264	7,60,894
195	VGST-Underground Mine Real Time Airquality -S K R	54,426	-	1,389	3,594	52,221
196	Visvesvarya PhD Scheme for EC & IT	-	12,09,943	4,210	5,48,992	6,65,161
197	AI - ML Sustainable Waste Mgt- Vasudev	-	16,64,446	33,638	29,949	16,68,135
198	Alumni-Aspenone Software License -Chinta	-	8,76,700	-	8,76,700	-
199	Alumni- Empower PWDs- A Carbon- Pruthviraj U	-	2,40,821	945	2,29,324	12,442
200	ANRF- Explain Framework Semantical Doc- Anand K	-	8,51,220	11,383	48,136	8,14,467
201	ANRF-Functionally Graded -ASS Balan	-	12,25,900	27,378	7,14,533	5,38,745
202	ANRF-Investigation Into the Effect-Sathyabhama	-	25,41,800	58,361	6,81,919	19,18,242
203	ANRF- TARE-PSU - Narayana Prabhu	-	3,35,000	5,990	3,33,468	7,522
204	ANRF- TARE - Sharanappa Joladarashi	-	3,35,000	5,852	2,79,917	60,935
205	ANRF-TARE-Veersetty Guntapure	-	3,35,000	1,316	85,000	2,51,316
206	ANRF-Teachers Asson-TARE- Ananthanarayan	-	3,35,000	4,164	3,20,739	18,425
207	BRNS-BARC -Dev of High Quality Hex-Sushil	-	23,54,000	46,786	2,51,711	21,49,075
208	CSR-AR-HUD Design - Geetha/Sowmya	-	8,64,360	5,163	6,94,920	1,74,603
209	CSR-EMC Automation -A N/Sowmya	-	7,15,640	3,953	6,73,748	45,845

Sl. No.	Particulars	Opening Balance	Receipts	Interest	Expenditure	Closing Balance
210	CSR-Freelance Marketplace Web 3.0-Mohit/Sou	-	6,00,000	13,500	-	6,13,500
211	CSR - Hydrogen Fuel Cell & Electro - Poornesh	-	32,00,000	21,659	31,91,074	30,585
212	CSR- Intelligent Geotextile Pro- Pruthviraj	-	3,29,500	2,015	3,04,526	26,989
213	CSR-Upgrading Analog Elec Lab-E&C	-	10,85,802	17,805	10,82,304	21,303
214	Design of Inductive Coil Structure -Dharavath	-	2,14,500	2,066	1,38,472	78,094
215	Devt of Independent Qutim Ran- Bhawana R	-	1,49,271	438	1,04,000	45,709
216	Devt of Mine Health & Safety Lab-CSR- Harsha	-	25,00,000	28,125	-	25,28,125
217	Drdo-Nitrogen Enrich Polyimide Fibr Membrane-Arun M	-	33,58,036	36,540	2,60,922	31,33,654
218	DST-Artificial Intelligence & Cyber Secuty-M P S	-	11,74,444	-	11,74,444	-
219	DST-Awarress in Artificial IntelligenceS S-Anand	-	13,21,559	-	13,21,559	-
220	DST-Tide New Sound Coding Strategy-Aparna	-	15,25,263	-	15,25,263	-
221	ICSSR-Rural Urban Casual Lab- Rajesh A	-	8,50,000	1,913	-	8,51,913
222	IHUB- Detn Network Slice&Software-M P Singh	-	36,32,726	41,320	13,73,435	23,00,611
223	IHUB-NTIHAC-Des&Dev Real Time-Jaidhar	-	36,64,720	46,947	88,323	36,23,344
224	IITB-PQC Band Light Weight Key - Bhavana	-	12,68,720	-	-	12,68,720
225	ISEA-National Workshop - Alwyn P	-	5,00,000	1,600	2,88,738	2,12,862
226	ISea-Phase 3-Capty Bldg & Skill Devt - A R Pais	-	47,80,000	-	47,80,000	-
227	ISRO- Design & Devt of Message - Jotiram	-	11,13,960	-	11,13,960	-
228	ISRO-Design & Devt - Venkatesan P	-	16,29,824	-	16,29,824	-
229	ISRO-Improvmnt of the Ele - Rajasekaran	-	18,82,675	-	18,82,675	-
230	KstePS VGST-Quantitative Retrieval -Shwetha	-	22,50,000	54,300	1,89,258	21,15,042
231	MESCOM Fund - Krishnana CMC	-	46,820	-	46,820	-
232	MoweAir-Des&Dev of Wind Turbine - Dastagiri	-	6,42,995	11,002	99,175	5,54,822
233	NIRF-Deep Image Prior Based - Jidesh	-	13,16,000	-	-	13,16,000
234	R&D-Perf of Electronic Detonators Lime-Karra	-	2,24,237	2,405	1,18,306	1,08,336
235	SERB-Determination of Optimum Safe Dist/Sandi K R	-	17,74,400	35,467	5,88,888	12,20,979
236	SERB-Experimental & Numerical -Sathyabhama	-	2,21,097	-	2,21,097	-
<b>TOTAL</b>		<b>23,72,90,700</b>	<b>18,56,94,558</b>	<b>60,12,941</b>	<b>23,56,31,171</b>	<b>19,33,67,028</b>

PLACE: SURATHKAL

DATE : 26-08-2025

Sd/-

(PROF. KUMAR G.N)  
REGISTRAR I/C  
N.I.T.K., SURATHKAL

Sd/-

(PROF. BHALLAMUDI RAVI)  
DIRECTOR  
N.I.T.K., SURATHKAL

# SCHEDULE 3(b): SPONSORED FELLOWSHIP AND SCHOLERSHIP

Sl.No.	NAME OF SPONSOR	OPENING BALANCE AS ON 01.04.2024		TRANSACTIONS DURING THE YEAR		CLOSING BALANCE AS ON 31.03.2025	
		3	4	5	6	7	8
	2	CR.	DR.	CR.	DR.	CR	DR.
1	AICTE GRANT QIP REGULAR	4,27,312	-	-	-	4,27,312	-
2	AICTE GRANT QIP PLAN (POLY)	1,39,561	-	-	-	1,39,561	-
3	SC/ST Scholarship Grant - MSJE	6,90,267	-	25,18,160	16,62,430	15,45,997	-
4	Other External Scholarship	72,49,398	-	65,73,766	57,44,130	80,79,034	-
	<b>TOTAL</b>	<b>85,06,538</b>	<b>-</b>	<b>90,91,926</b>	<b>74,06,560</b>	<b>1,01,91,904</b>	<b>-</b>

PLACE: SURATHKAL

DATE : 26-08-2025

Sd/-

(PROF. KUMAR G.N)  
REGISTRAR I/C  
N.I.T.K., SURATHKAL

Sd/-

(PROF. BHALLAMUDI RAVI)  
DIRECTOR  
N.I.T.K., SURATHKAL

### SCHEDULE 3(C) UNUTILIZED GRANTS FROM GOVERNMENT OF INDIA

(₹ in lakhs)

PARTICULARS	CURRENT YEAR	PREVIOUS YEAR
<b>A. Capital Grants:</b>		
Balance B/F		-
Add: Receipts during the year	1,192.00	2,005.00
Less: Grant Surrender to PAO	-	299.52
Less: Refunds (unspent grant reversed by TSA ) 2024-25	0.00	-
<b>Total (a)</b>	<b>1,192.00</b>	<b>1,705.48</b>
Utilized for Revenue Expenditure	-	-
Utilized for Capital Expenditure	1,262.48	1,705.48
Less: Excess Expenditure met from IRG	70.48	-
<b>Total (b)</b>	<b>1,192.00</b>	<b>1,705.48</b>
<b>Unutilized carried forward grant under TSA (a-b) = (A)</b>	-	-
<b>B.i)Revenue Grants: OH 31</b>		
Balance B/F	-	
Add: Receipts during the year	11,782.10	10,367.03
Less: Refunds (unspent grant reversed by TSA ) 2024-25	-	-
<b>Total (c)</b>	<b>11,782.10</b>	<b>10,367.03</b>
Utilized for Non-Salary Expenditure	13,948.27	13,427.45
Less: Excess Expenditure met from IRG	2,166.17	3,060.42
<b>Total (d)</b>	<b>11,782.10</b>	<b>10,367.03</b>
<b>Unutilized carried forward grant under TSA (c-d) = (Bi)</b>	-	-
<b>B.ii)Revenue Grants: OH 36</b>		
Balance B/F		-
Add: Receipts during the year	11,459.00	10,459.00
Less: Refunds (unspent grant reversed by TSA ) 2024-25	-	-
<b>Total (c)</b>	<b>11,459.00</b>	<b>10,459.00</b>
Utilized for Salary Expenditure	11,497.08	11,172.39
Less: Excess Expenditure met from IRG	38.08	713.39
<b>Total (d)</b>	<b>11,459.00</b>	<b>10,459.00</b>
<b>Unutilized carried forward grant under TSA (c-d) = (Bii)</b>	-	-
<b>Unutilized carried forward grant under TSA Grand Total (A+Bi+Bii)</b>	-	-

### IRG STATEMENT 2024-25

(₹ in lakhs)

PARTICULARS	CURRENT YEAR	PREVIOUS YEAR
Balance B/F IRG 2023-24	9,874.63	7,233.66
TOTAL INTERNAL RECEIPTS	10,955.27	9,788.80
	<b>20,829.90</b>	<b>17,022.46</b>
LESS: HEFA PRINCIPAL & OTHER EXPENDITURE	3,552.55	
LESS: EXCESS EXPENDITURE OF OH 31,35 & 36	2,274.73	7,147.83
<b>SURPLUS UNDER CAPITAL FUND/CORPUS</b>	<b>15,002.61</b>	<b>9,874.63</b>



# NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA

SURATHKAL

P.O. SRINIVASNAGAR - 575 025

**FIXED ASSETS & DEPRECIATION AS ON 31-03-2025**

(AMOUNT - ₹)

**SCHEDULE NO. 4**

PARTICULARS	GROSS BLOCK				RATE OF DEP.(%)	DEPRECIATION				
	BALANCE AS ON 01.04.2023 1	ADDITIONS DURING THE YEAR 2	DELETIONS DURING THE YEAR 3	TOTAL 4 = (1+2-3)		DEPRECIATION UP TO 31.03.23 6	DEPRECIATION FOR THE YEAR 7	PRIOR PERIOD DEPRECIATION 8	TOTAL DEPRECIATION 9 = (6+7-8)	BALANCE AS ON 31.03.2024 10 = (4-9)
(A) FIXED ASSETS										
(i) Tangible Asset										
Land : Freehold *	90,49,981	-	-	90,49,981	-	-	-	-	-	90,49,981
Buildings : Freehold.	3,03,27,28,655	69,45,13,886	-	3,72,72,42,541	2.00	81,63,51,162	6,28,50,627	-	87,92,01,789	2,84,80,40,752
Buildings : Freehold (Residential)	80,68,07,100	-	-	80,68,07,100	2.00	9,90,11,851	1,61,36,142	-	11,51,47,993	69,16,59,107
Buildings : Freehold (Hostel)	2,35,02,28,069	3,40,19,871	-	2,38,42,47,940	2.00	52,55,87,806	4,70,47,483	-	57,26,35,289	1,81,16,12,651
Plant & Equipments	29,65,94,701	3,37,252	-	29,69,31,953	5.00	20,99,05,305	1,48,46,810	-	22,47,52,115	7,21,79,838
Vehicle	1,04,54,744	-	-	1,04,54,744	10.00	67,83,245	5,77,766	-	73,61,011	30,93,733
Furniture & Fixtures	30,30,41,225	79,45,006	-	31,09,86,231	7.50	16,89,84,306	2,29,70,786	-	19,19,55,092	11,90,31,139
Office Equipments	3,54,79,244	16,72,445	-	3,71,51,689	7.50	2,05,32,810	25,89,767	-	2,31,22,577	1,40,29,112
Computer & Peripherals	61,67,21,512	5,97,65,423	82,523	67,64,04,412	20.00	44,02,44,525	7,05,92,540	-	51,08,37,065	16,55,67,347
Electrical Installation	11,56,33,096	1,52,11,133	-	13,08,44,229	5.00	2,99,04,877	61,07,877	-	3,60,12,754	9,48,31,475
Library Books	2,50,86,254	17,97,621	-	2,68,83,875	10.00	2,31,38,016	4,58,365	-	2,35,96,381	32,87,494
Audio Visual Equipments	2,65,74,549	39,64,291	-	3,05,38,840	7.50	97,83,845	20,92,025	-	1,18,75,870	1,86,62,970
Tube Wells and Water Supply	16,05,415	12,60,215	-	28,65,630	2.00	2,67,908	42,167	-	3,10,075	25,55,555
Lab & Scientific Equipments	1,90,94,11,225	3,69,92,339	-	1,94,64,03,564	8.00	48,01,54,223	15,38,88,594	-	63,40,42,817	1,31,23,60,747
TOTAL 4 (A)	9,53,94,15,770	85,74,79,482	82,523	10,39,68,12,729		2,83,06,49,879	40,02,00,949	-	3,23,08,50,828	7,16,59,61,901

\* Proportionate book value of land acquired by NHAI is pending to be recovered from GoK. The value shown above is as per the original cost estimated at the time of incorporation of the Institute.

PARTICULARS	GROSS BLOCK				RATE OF DEP.(%)	DEPRECIATION				BALANCE AS ON 31.03.2025 9 = (4-8)
	BALANCE AS ON 01.04.2024	ADDITIONS DURING THE YEAR	DELETIONS DURING THE YEAR	TOTAL		DEPRECIATION UP TO 31.03.24	DEPRECIATION FOR THE YEAR	PRIOR PERIOD DEPRECIATION	TOTAL DEPRECIATION	
	1	2	3	4=(1+2-3)	5	6	7	8	8=(6+7)	
<b>B. FIXED ASSETS</b>										
<b>Intangible Asset</b>										
Software	7,62,33,848	1,27,87,322	-	8,90,21,170	40	6,77,70,688	69,12,267	-	7,46,82,955	1,43,38,215
E-Books	6,81,03,296	2,45,73,892	-	9,26,77,188	40	4,93,46,141	1,06,32,436	-	5,99,78,577	3,26,98,611
<b>TOTAL</b>	<b>14,43,37,144</b>	<b>3,73,61,214</b>	<b>-</b>	<b>18,16,98,358</b>		<b>11,71,16,829</b>	<b>1,75,44,703</b>	<b>-</b>	<b>13,46,61,532</b>	<b>4,70,36,826</b>
<b>TOTAL (A) + (B)</b>	<b>9,68,37,52,914</b>	<b>89,48,40,696</b>	<b>82,523</b>	<b>10,57,85,11,087</b>		<b>2,94,77,66,708</b>	<b>41,77,45,652</b>	<b>-</b>	<b>3,36,55,12,360</b>	<b>7,21,29,99,727</b>
<b>Figures for 2023-24</b>	<b>8,43,64,40,853</b>	<b>1,24,74,11,462</b>	<b>99,401</b>	<b>9,68,37,52,914</b>		<b>2,54,69,91,161</b>	<b>40,07,75,547</b>	<b>-</b>	<b>2,94,77,66,708</b>	<b>6,73,59,86,206</b>

**C. CAPITAL WORK IN PROGRES AS ON 31.03.2025**

PARTICULARS	OP. BALANCE	ADD / TRANS.	TOTAL	TR. TO REVENUE	TR. TO ASSET	CL. BALANCE
WIP - Const.of New Boys Hostel EWS	-	2,85,50,571	2,85,50,571	-	2,85,50,571	-
WIP-Extn of Electrical Line 33KV Residential Area	88,61,865	4,55,80,581	5,44,42,446	-	-	5,44,42,446
WIP- Constn of Additional Bldg for Library	-	1,72,822	1,72,822	-	1,72,822	-
WIP-Constn of E&C South Wing Annex PA & Structural	-	3,72,164	3,72,164	-	3,72,164	-
WIP-Constn of Ladies Toilet & Lect Platform Galv	-	10,66,794	10,66,794	-	10,66,794	-
WIP-Constn of New Storage Room at CDC	-	6,30,063	6,30,063	-	6,30,063	-
WIP-Eltn - Drawing Hall in Terrace Floor- Civil	-	4,74,257	4,74,257	-	4,74,257	-
WIP-Instaln of 3 Capsule Elevators Mega Hostel	-	54,69,300	54,69,300	-	54,69,300	-
WIP-Pro. Interlock Paver for 2 Wheeler Parkg Civil-O35	-	1,17,693	1,17,693	-	1,17,693	-
WIP-Provdg Vitrified and Granite Floor -Civil	-	29,60,878	29,60,878	-	29,60,878	-
WIP-Prov Galvalume Sheet with Window Civil	-	3,34,899	3,34,899	-	3,34,899	-
WIP-Prov Interlock Path to Sky Track- Mining	-	4,02,815	4,02,815	-	4,02,815	-
WIP-Prov. RCC Platform for Ren. Energy Lab- Mech OH 35	-	92,888	92,888	-	92,888	-
WIP-Prov Vinyl Floor Table Tennis Hall-Sports	-	11,39,343	11,39,343	-	11,39,343	-
WIP-Prov. Vitrified Flooring for Can Bank- OH35	-	1,67,834	1,67,834	-	1,67,834	-
WIP-RCC Platform & Aluminium Partition-Civil	-	5,41,211	5,41,211	-	5,41,211	-
WIP-Vitrified Tiled Floor Physiotherapy	-	1,79,098	1,79,098	-	1,79,098	-
WIP- Constn of Swimming Pool	2,26,44,285	4,18,47,389	6,44,91,674	-	6,44,91,674	-
WIP-Constn of Foot Over Bridge Across NH 66-NMPRC	3,19,37,606	1,10,05,921	4,29,43,527	-	4,29,43,527	-
Constn of Lecture Hall Complex D-160	17,04,94,203	40,79,31,723	57,84,25,926	-	57,84,25,926	-
<b>TOTAL</b>	<b>23,39,37,959</b>	<b>54,90,38,244</b>	<b>78,29,76,203</b>	<b>-</b>	<b>72,85,33,757</b>	<b>5,44,42,446</b>
<b>Figures for 2023-24</b>	<b>83,28,02,463</b>	<b>40,49,94,525</b>	<b>1,23,77,96,988</b>	<b>-</b>	<b>1,00,38,59,029</b>	<b>23,39,37,959</b>

**(D (a)) FIXED ASSETS OF VARIOUS PROJECTS & FUNDS AS ON 31-03-2025**

	OP. BALANCE	ADDITIONS	TRANSFER	CL. BALANCE
<b>OTHER RESEARCH SCHEMES</b>				
Computer & Peripherals.	5,67,20,624	1,63,63,142	-	7,30,83,766
Plant & Equipment.	,62,512	3,35,000	-	6,97,512
Electrical Installations.	86,30,245	30,55,040	-	1,16,85,285
Furniture & Fixtures	15,55,232	2,48,436	-	18,03,668
Office Equipments.	16,05,830	80,859	-	16,86,689
Books	8,72,695	27,908	-	9,00,603
Software	2,98,12,834	56,08,531	-	3,54,21,365
Audio Visual Equipments	25,32,162	12,08,526	-	37,40,688
Tube Wells and Water Supply	49,500	-	-	49,500
Lab & Scientific Equipments	18,15,84,253	5,24,57,585	-	23,40,41,838
<b>TOTAL ( D (a) )</b>	<b>28,37,25,887</b>	<b>7,93,85,027</b>	<b>-</b>	<b>36,31,10,914</b>
<b>Figures for 2023-24</b>	<b>25,15,55,887</b>	<b>3,21,70,000</b>	<b>-</b>	<b>28,37,25,887</b>

**(D (b)) FIXED ASSETS OF TEQIP AS ON 31-03-2025**

PARTICULARS	GROSS BLOCK				RATE OF DEP. (%)	DEPRECIATION			BALANCE AS ON 31.03.2025
	BALANCE AS ON 01.04.2024	ADDITIONS DURING THE YEAR	DELETIONS DURING THE YEAR	TOTAL		DEPRECIATION UP TO 31.03.24	DEPRECIATION FOR THE YEAR	TOTAL DEPRECIATION	
	1	2	3	4 = (1+2-3)	5	6	7	8 = (6+7)	9 = (4-8)
TEQIP I Assets	18,42,37,765	-	-	18,42,37,765	-	-	-	-	18,42,37,765
TEQIP II Assets	9,70,19,243	-	-	9,70,19,243	-	-	-	-	9,70,19,243
TEQIP III Assets	3,45,90,110	-	-	3,45,90,110	-	-	-	-	3,45,90,110
TOTAL (D (b))	31,58,47,118	-	-	31,58,47,118		-	-	-	31,58,47,118
Figures for 2023-24	31,58,47,118	-	-	31,58,47,118	-	-	-	-	31,58,47,118
GRAND TOTAL ( A ) + ( B ) + ( D (b) )									7,52,88,45,845
Figures for 2023-24									7,05,18,33,325

PLACE: SURATHKAL

DATE : 26-08-2025

Sd/-

(PROF. KUMAR G.N)  
REGISTRAR I/C  
N.I.T.K., SURATHKAL

Sd/-

(PROF. BHALLAMUDI RAVI)  
DIRECTOR  
N.I.T.K., SURATHKAL

SCHEDULE NO. 5 - INVESTMENTS FROM EARMARKED/ ENDOWMENT FUNDS		(AMOUNT ₹)	
		CURRENT YEAR	PREVIOUS YEAR
1	In Central Government Securities -Long Term	30,00,00,000	20,00,00,000
2	In State Government Securities-Long Term	25,00,00,000	35,00,00,000
3	Other Approved Securities-Long Term	1,58,00,00,000	1,61,96,30,000
4	Shares	-	-
5	Debentures and Bonds	-	-
6	Term Deposits with Banks	-	-
a	Long Term Investments	86,36,24,711	4,14,36,254
		2,99,36,24,711	2,21,10,66,254
b	Short Term Investments:		
	Main Account Funds:		
	Balance at the beginning of the year	1,18,58,14,990	1,07,43,38,649
	Add: Transferred from Current Assets /General Fund	-	1,78,35,731
		1,18,58,14,990	1,09,21,74,380
	Add: Additions during the year	70,30,30,009	64,83,52,833
		1,88,88,44,999	1,74,05,27,213
	Less: Transferred/Matured.	57,23,17,990	53,68,76,492
		1,31,65,27,009	1,20,36,50,721
	Student Activity Council	12,06,05,097	11,64,51,816
	NITK Corpus Fund	2,90,37,51,149	2,72,90,81,501
	KREC/NITK Endowment Investments	5,16,02,285	4,20,66,341
	T&C - Performance Security FD with Exe. Engg. Minor Irrgn	7,54,868	7,01,565
	Student Deposit	7,49,457	7,04,981
	NITK CSAB Fund Deposit	43,18,95,073	-
	CCE Fund	54,26,402	50,93,241
		4,83,13,11,340	4,09,77,50,166
	Less: Accrued Income	14,15,99,390	2,81,52,942
		4,68,97,11,950	4,06,95,97,224
	Less: Securities disclosed separately under SI No.1 to 3 above	2,13,00,00,000	2,16,96,30,000
		2,55,97,11,950	1,89,99,67,224
	Less : Long term investment disclosed sl.no.6a above	86,36,24,711	4,14,36,254
	<b>BALANCE AS AT THE YEAR END FOR SCHEDULE -5</b>	<b>4,68,97,11,950</b>	<b>4,06,95,97,224</b>

PLACE: SURATHKAL

Sd/-

DATE : 26-08-2025

(PROF. KUMAR G.N)  
REGISTRAR I/C  
N.I.T.K., SURATHKAL

Sd/-

(PROF. BHALLAMUDI RAVI)  
DIRECTOR  
N.I.T.K., SURATHKAL

SCHEDULE NO. 6 - INVESTMENTS - OTHERS		(AMOUNT ₹)	
		CURRENT YEAR	PREVIOUS YEAR
1	In Central Government Securities	-	-
2	In State Government Securities	-	-
3	Other Approved Securities	-	-
4	Shares	-	-
5	Debentures and Bonds	-	-
6	Other :	-	-
	In Term Deposit Accounts:		
	Opening Balance transferred from Current Assets	1,25,46,65,793	98,37,99,925
	Add: Additions during the year	4,21,52,81,749	2,58,30,12,483
		5,46,99,47,542	3,56,68,12,408
	Less: Transferred/Matured	3,51,83,48,432	2,25,57,66,506
		1,95,15,99,109	1,31,10,45,903
	Less: Accrued Income disclosed separately in Sl. No. 6(b) of Schedule No.8 -		
	Loans, Advances & Deposits	4,33,54,365	3,85,44,379
		1,90,82,44,744	1,27,25,01,524
	Less: Transferred to Earmarked / Endowment Funds	-	
		1,90,82,44,744	1,78,35,731
	<b>BALANCE AS AT THE YEAR END FOR SCHEDULE - 6</b>	<b>1,90,82,44,744</b>	<b>1,25,46,65,793</b>

PLACE: SURATHKAL

DATE : 26-08-2025

Sd/-

(PROF. KUMAR G.N)  
REGISTRAR I/C  
N.I.T.K., SURATHKAL

Sd/-

(PROF. BHALLAMUDI RAVI)  
DIRECTOR  
N.I.T.K., SURATHKAL

SCHEDULE NO. 7 - CURRENT ASSETS		(AMOUNT ₹)	
		CURRENT YEAR	PREVIOUS YEAR
1 Stock		18,97,189	8,22,520
2 Sundry Debtors		-	-
3 Cash and Bank Balances			
a) Cash in Hand		8,736	31,141
b) With Scheduled Banks			
In Reserve Bank of India TSA-10681301001		-	-
In Current Accounts			
State Bank of India CA No.10175365060		20,33,275	
State Bank of India CA No.37772503911		2,66,123	
SBI - NITK/KREC Endowment Fund No.37481178720		1,51,72,269	10,08,24,884
In Savings Bank Accounts			
Canara Bank - SB A/c No.8517101000001		3,10,176	
Canara Bank - HEFA Principle Payment A/c.No.8517201000070		71,707	
Canara Bank - HEFA Interest Payment A/c.No.8517201000071		4,85,270	
SBI SB Account No.10175367556		2,34,90,483	
SBI CA 42580009532 CSAB Account		6,27,176	
SBI-CCE Fund No.10175366686		6,88,347	
SBI - NITK Corpus Fund No.10175367454		4,18,236	
SBI - Student Activity Council No.30118900494		2,11,35,643	1,48,37,981
c) With non-Scheduled Banks			
4 Stamps		45,560	30,328
<b>BALANCE AS AT THE YEAR - END FOR SCHEDULE - 7</b>		<b>6,66,50,190</b>	<b>11,65,46,854</b>

PLACE: SURATHKAL

DATE : 26-08-2025

Sd/-

(PROF. KUMAR G.N)  
REGISTRAR I/C  
N.I.T.K., SURATHKAL

Sd/-

(PROF. BHALLAMUDI RAVI)  
DIRECTOR  
N.I.T.K., SURATHKAL

SCHEDULE 8 - LOANS, ADVANCES & DEPOSITS		(AMOUNT ₹)	
		CURRENT YEAR	PREVIOUS YEAR
1 Advance to Employees			
a) Salary	-		
b) Festival	-		
c) Medical	-		
d) Other	1,54,846	1,54,846	-
2 Long Term Advances to Employees (Interest Bearing)			
a) Vehicle Loan	-		
b) Home Loan	-		
c) Other	-		-
3 Advances and Other Amounts Recoverable in Cash or in Kind or for Value to be Received			
a) On Capital Accounts	-		6,27,057
b) To Suppliers	28,89,166		9,14,76,346
To CPWD	7,34,76,498		
To NMPRC	-		
To Staff	-		
To Others	5,33,202	7,68,98,866	7,59,259
c) Other			
Rent Receivable	4,29,107		5,98,630
Interest Receivable from MESCOM	4,94,282		4,71,505
L D Charges Receivable	-		-
Student Fee Receivable	45,14,612		45,14,612
Water/Electricity Charges Receivable	3,12,958		3,11,177
NITK Corpus Fund - Interest Receivable	21,22,61,081		20,39,51,324
Receivable From S A C - Incident	-		
Testing & Consultancy -Receivable	5,31,589		49,95,691
TDS Receivable	2,55,10,875		3,05,86,414
TCS Receivable	1,02,308		1,02,308
GST - TDS	71,549		1,89,594
Pre-Deposit-Service Tax-Immovable Property	9,591		9,591
Pre-Deposit-Service Tax Penalty-T&C	2,20,209		2,20,209
Internatl Conf on Min Greener Future - Receivable	-		2,90,000



SCHEDULE 8 - LOANS, ADVANCES & DEPOSITS		(AMOUNT ₹)	
		CURRENT YEAR	PREVIOUS YEAR
Receiveable From Mrityunjay Doddamani	150		150
Loans, Advance/Receiveable of Project/ Funds			
NITK Corpus Fund - TDS	1,88,81,030		4,78,34,816
CCE - TDS	1,23,510		89,225
NITK/KREC Endowment Fund - TDS	6,17,431		3,36,450
DASA - TDS	-		-
SAC - TDS	38,05,592		29,59,494
CSAB - TDS	68,00,476		
SAC - Misc Advance	32,500	27,47,18,851	9,31,364
4 Prepaid Expenses			
a) Insurance	1,87,389		2,02,223
b) Other Expenses			
Prepaid Road Tax	30,233		15,532
Prepaid Maintenance of Computers	-		-
Prepaid Software Expenses	9,10,600		2,96,800
Prepaid Operating Cost - CRF	32,00,939		32,00,939
Prepaid Operating Cost - Library	48,57,791	91,86,952	3,24,10,104
5 Deposits			
a) Telephone	77,466		77,466
b) Lease Rent	-		-
c) Electricity	88,63,210		88,37,760
d) Other - Gas & Oil suppliers	1,87,120	91,27,796	1,87,120
6 Income Accrued			
a) On Investments from Earmarked/ Endowment Funds	14,15,99,390		11,09,00,926
b) On Investment - Others	4,33,54,365		3,85,44,379
c) On Loans & Advances	-	18,49,53,755	-
d) Other			
Leave Salary & Pension Receivable	12,99,440		17,71,617
NERIST-Narendranath-Receiveable	12,650	13,12,090	12,650
7 Other - Current Assets, Recivables from MoE/Sponsored Projects			
a) Debit Balance in Sponsored Projects			-

SCHEDULE 8 - LOANS, ADVANCES & DEPOSITS		(AMOUNT ₹)	
		CURRENT YEAR	PREVIOUS YEAR
b) Debit Balance in Sponsored Fellowships & Scholerships			-
c) Grants Receivable			
DST Grant Receivable	45,593		27,446
SERB Grant Receivable	-		1,90,199
Project Grant Receivable	7,25,465		14,10,838
HEFA CSR Contribution A/c	-		-
U K Project- B B Das - Receivable	-	7,71,058	11,945
d) Other Receivables from MoE			-
8 Claims Receivable			-
<b>BALANCE AS AT THE YEAR - END FOR SCHEDULE - 8</b>		<b>55,71,24,213</b>	<b>58,93,53,160</b>

PLACE: SURATHKAL

DATE : 26-08-2025

Sd/-

(PROF. KUMAR G.N)  
REGISTRAR I/C  
N.I.T.K., SURATHKAL

Sd/-

(PROF. BHALLAMUDI RAVI)  
DIRECTOR  
N.I.T.K., SURATHKAL

# NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

P.O. SRINIVASNAGAR - 575 025

## SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2025

(AMOUNT ₹)

SCHEDULE NO. 9 - ACADEMIC RECEIPTS	CURRENT YEAR	PREVIOUS YEAR
<b>A Academic</b>		
Admission Fee-College & Hostel	29,76,000	26,03,732
Library Fee	2,99,78,476	2,15,54,922
M.B.A .Tuition Fee	3,59,00,000	2,25,00,000
M.C.A .Tuition Fee	2,27,65,000	2,02,25,000
M.Sc.Tuition Fee	57,62,500	52,67,500
Phd Thesis Processing/Evaluation Fee	62,41,440	22,55,372
Phd. Tuition Fee.	1,15,72,500	1,20,72,500
M.Tech Tuition Fee	12,71,22,500	11,23,42,298
U.G Tuition Fee	25,01,52,969	24,61,46,340
<b>TOTAL (A)</b>	<b>49,24,71,385</b>	<b>44,49,67,664</b>
<b>B Examinations</b>	-	-
<b>TOTAL (B)</b>	-	-
<b>C Other Fees</b>		
Central Computing Facilities Fee	2,49,92,160	2,26,39,935
Identity Card	7,000	7,900
Campus Amenities	88,85,405	78,26,150
Career Development Fee	1,18,63,705	96,47,151
Certificate Fee	1,75,500	1,75,450
Convocation Fee	68,41,800	55,39,280
Health Care Facility	89,84,945	78,26,040
Late Fee, Fine & Processing Fee	9,39,634	10,29,822
<b>TOTAL (C )</b>	<b>6,26,90,149</b>	<b>5,46,91,728</b>
<b>D Sale of Publications</b>		
Application Form/Prospectus	10,34,250	7,97,374
<b>TOTAL (D)</b>	<b>10,34,250</b>	<b>7,97,374</b>
<b>E Other Academic Receipts</b>	2,82,000	3,87,000
<b>TOTAL (E)</b>	<b>2,82,000</b>	<b>3,87,000</b>
<b>TOTAL (F) = (A)+(B)+(C )+(D)+(E)</b>	<b>55,64,77,784</b>	<b>50,08,43,766</b>

PLACE : SURATHKAL

DATE : 26-08-2025

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REGISTRAR I/C

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(PROF. BHALLAMUDI RAVI)

DIRECTOR

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<b>SCHEDULE NO. 10 - GRANTS/SUBSIDIES</b>	<b>CURRENT YEAR</b>	<b>PREVIOUS YEAR</b>
Balance B/F	-	-
Add : Receipts during the year - Revenue Grant	2,32,41,09,714	2,08,26,02,850
Less : System reversal (TSA)	-	466
Less : Utilised for Revenue Expenditure (B)	2,32,41,09,714	2,08,26,02,384
Balance C/F (C )	-	-
Balance C/F (C )	-	-

PLACE : SURATHKAL

DATE : 26-08-2025

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(PROF. BHALLAMUDI RAVI)

DIRECTOR

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SCHEDULE NO. 11 - INCOME FROM INVESTMENTS		CURRENT YEAR	PREVIOUS YEAR
1	Interest		
	a. On Government Securities	5,28,17,565	4,12,56,194
	b. Other Bonds / Debentures	13,85,73,556	13,09,14,398
2	Interest on Term Deposits	16,73,91,416	8,41,58,953
3	Income Accrued but not Due on Term Deposits	10,16,33,265	9,83,28,750
4	Interest on Savings Bank Accounts (Earmarked/Endowment Fund Bank Accounts)	21,29,060	16,06,918
	<b>TOTAL (A)</b>	<b>46,25,44,862</b>	<b>35,62,65,213</b>
	Less : Transferred to Earmarked / Endowment Funds ( B)	36,42,97,141	29,11,32,179
	<b>TOTAL (A)-(B)</b>	<b>9,82,47,721</b>	<b>6,51,33,034</b>

PLACE : SURATHKAL

DATE : 26-08-2025

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(PROF. BHALLAMUDI RAVI)

DIRECTOR

N.I.T.K., SURATHKAL

(AMOUNT ₹)

SCHEDULE NO. 12 - INTEREST EARNED		CURRENT YEAR	PREVIOUS YEAR
1	Interest on Savings Bank Accounts (General Bank Accounts)	7,43,975	8,11,468
2	On Loans	-	-
3	On Debtors & Receivable		
	Interest on Income Tax Refund	-	-
	Interest on MESCOM Deposit/Other Advance	5,49,202	5,23,895
<b>TOTAL</b>		<b>12,93,177</b>	<b>13,35,363</b>

PLACE : SURATHKAL

DATE : 26-08-2025

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DIRECTOR

N.I.T.K., SURATHKAL

(AMOUNT ₹)

SCHEDULE NO. 13 - OTHER INCOME		CURRENT YEAR	PREVIOUS YEAR
A	<b>1 Income from Land &amp; Building</b>		
	Hostel Room Rent	9,25,03,084	9,06,21,015
	Rent From Building	36,63,497	33,39,741
	Rent from Guest House	28,85,584	27,49,736
	Rent from Quarters	53,28,872	57,54,806
	2 Water/Electricity Charges Collection-Qtrs	5,64,502	6,25,616
	3 Water/Electricity Charges-Contractor	4,64,199	4,37,162
	<b>TOTAL (A)</b>	<b>10,54,09,738</b>	<b>10,35,28,076</b>
B	<b>Sale of Institute's Publications</b>	-	-
	<b>TOTAL (B)</b>	-	-
C	<b>Income from Holding Events</b>	-	-
	<b>TOTAL (C )</b>	-	-
D	<b>Other</b>		
	1 Income from Testing & Consultancy	9,86,07,339	7,60,14,772
	2 Sale of Application Form (Recruitment)	63,45,003	36,96,008
	3 Miscellaneous Receipts	4,33,671	9,33,902
	4 Profit on Sale/Disposal of Assets	-	-
	a) Owned Assets	-	-
	b) Assets Received Free of Cost	-	-
	5 Grants/Donations from Insitutions, Welfare Bodies & International Bodies	-	-
	6 NITK Corpus Fund - Interest	21,09,59,489	20,39,51,324
	7 Projects Overhead Charges	29,73,568	48,92,299
	8 CRF - I R G	88,61,476	98,57,528
	9 Liquidated Damages	11,63,617	12,05,022
	10 Others (Specify)		
	Auction Sales	15,34,749	15,54,724
	Leave Salary & Pension Contribution	20,34,548	15,50,717
	Software Fee Plagiarism	1,95,000	1,71,000
	Transcript Charges	3,22,939	3,71,971
	Vehicle Running Charges	4,034	-
	Verification Fee	6,62,842	6,28,827
	<b>TOTAL (D )</b>	<b>33,40,98,276</b>	<b>30,48,28,094</b>
	<b>TOTAL (A)+(B)+(C )+(D)</b>	<b>43,95,08,014</b>	<b>40,83,56,170</b>
<b>SCHEDULE NO. 13 A - OTHER RESEARCH PROJECTS(Contra entry)</b>			
	1. Other Research Projects Recurring Exp.	23,56,31,171	16,52,23,534
	Less:- Capital expenditure	11,35,57,854	3,54,08,586
	<b>TOTAL</b>	<b>12,20,73,317</b>	<b>12,98,14,948</b>

PLACE : SURATHKAL

Sd/-

Sd/-

DATE : 26-08-2025

(PROF. KUMAR G.N)

(PROF. BHALLAMUDI RAVI)

REGISTRAR I/C

DIRECTOR

N.I.T.K., SURATHKAL

N.I.T.K., SURATHKAL



(AMOUNT ₹)

SCHEDULE NO. 14 - PRIOR PERIOD INCOME		CURRENT YEAR	PREVIOUS YEAR
1	Academic Receipts	-	-
2	Income from Investments	-	-
3	Interest Earned	-	1,69,206
4	Other Income - Service Tax	-	30,42,296
5	Other Income - Depreciation	-	-
<b>TOTAL</b>		-	<b>32,11,502</b>

PLACE : SURATHKAL

DATE : 26-08-2025

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(PROF. BHALLAMUDI RAVI)  
DIRECTOR  
N.I.T.K., SURATHKAL

(AMOUNT ₹)

SCHEDULE NO. 15 - STAFF PAYMENTS & BENEFITS		CURRENT YEAR	PREVIOUS YEAR
<b>A</b>	<b>STAFF PAYMENTS &amp; BENEFITS (ESTABLISHMENT EXPENSES)</b>		
a)	Pay Non-Teaching1	16,07,86,370	14,63,39,180
b)	Pay-Teachng	84,75,51,137	77,54,20,650
c)	New Defined Pension Contribution	7,70,96,059	5,75,34,339
d)	LTC/Home Travel Concession	1,34,02,609	1,14,12,863
e)	Medical Facility	1,92,19,393	1,40,32,570
f)	Children Education Allowance	87,30,830	71,75,825
g)	Leave Salary	70,847	-
h)	Others		
	1 Livery to Class IV Staff	3,500	12,253
	2 Cumulative Professional Dev Allowance	1,06,36,485	2,73,73,919
	3 Staff Research Project	4,92,630	21,365
	4 Staff Amenities	-	2,31,267
	5 Training to Staff and Faculty	2,98,603	5,01,918
	<b>TOTAL</b>	<b>1,13,82,88,463</b>	<b>1,04,00,56,149</b>

(AMOUNT ₹)

<b>B</b>	<b>EMPLOYEES RETIREMENT AND TERMINAL BENEFITS</b>	<b>CURRENT YEAR</b>	<b>PREVIOUS YEAR</b>
	Opening Balance as on 01.04.2024	6,23,65,88,521	5,98,62,54,522
	Add: Capitalised Value of Contributions Received from other Organisations	-	-
	Total (a)	-	-
	Less: Actual Payment during the year (b)	37,20,19,913	41,74,16,686
	Balance as on 31.03.2025 (c )	<b>5,86,45,68,608</b>	<b>5,56,88,37,836</b>
	Provision required on 31.03.2025 as per Actuarial Valuation (d)	6,74,49,39,333	6,23,65,88,521
	Provision to be made in the Current year (d-c)	88,03,70,725	66,77,50,685
	Contribution to New Pension Scheme	-	-
	Medical Reimbursement to Retired Employees	-	-
	Travel to Hometown on Retirement	-	-
	Deposit Linked Insurance Payment	-	-
	<b>TOTAL</b>	<b>88,03,70,725</b>	<b>66,77,50,685</b>
	<b>TOTAL</b>	<b>2,01,86,59,188</b>	<b>1,70,78,06,834</b>

PLACE : SURATHKAL

DATE : 26-08-2025

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DIRECTOR  
N.I.T.K., SURATHKAL

<b>SCHEDULE NO. 16 - ACADEMIC EXPENSES</b>	<b>CURRENT YEAR</b>	<b>PREVIOUS YEAR</b>
a) Participation in Conferences/Field work	30,06,146	22,13,225
b) Expenses on Seminars/Workshops	23,22,332	16,26,988
c) Payment to Visiting Faculty	50,00,460	17,42,475
d) Post Doctoral Fellowship	-	49,61,730
e) Convocation Expenses	41,27,995	44,37,418
f) Stipend/Means-cum-merit Scholarship	30,40,000	16,40,000
g) SC/ST Plan Grant Exp	2,22,96,686	2,50,06,053
h) Others		
1 Admission Expenses	25,06,706	57,34,891
2 Centre of Excellence	7,83,075	5,88,912
3 Coaching to SC/ST Students	5,90,888	1,04,073
4 Expert Lectures	7,10,064	7,26,282
5 NCC/NSS Activities Expenses	32,90,328	29,65,272
6 Phd Contingencies	83,21,183	91,91,057
7 Phd Evaluation/Viva Exp	51,49,591	42,63,255
8 Practical Training at Mining Site	9,54,222	5,03,418
9 Research Interaction	69,97,439	47,30,353
10 PG Stipend/ PhD Fellowship	31,48,96,601	35,38,05,302
11 Hindi Cell Activities	4,50,283	5,13,015
12 Operating Cost- Applied Mech (W R &O)	32,01,463	25,82,848
13 Operating Cost- Career Development Centre(CDC)	11,21,374	9,03,440
14 Operating Cost- Central Computing Facility	20,76,183	23,37,750
15 Operating Cost- Central Research Facility	64,55,807	49,34,512
16 Operating Cost- Chemical Engg.	77,89,548	59,64,294
17 Operating Cost- Chemistry	60,15,889	58,35,306
18 Operating Cost -Civil	84,78,946	66,26,884
19 Operating Cost- Computer Engg	14,64,103	11,97,147
20 Operating Cost- E&C Engg.	17,57,871	22,63,662
21 Operating Cost- E&E Engg.	10,91,561	14,85,055
22 Operating Cost- Information Tech	9,27,119	11,85,431
23 Operating Cost- Library	4,44,03,860	4,45,14,373
24 Operating Cost- MACS Dept.	22,27,111	20,51,012
25 Operating Cost- Mechanical Engg	1,00,44,127	83,87,302
26 Operating Cost- Metallurgical Engg.	41,13,785	47,05,277
27 Operating Cost- Mining	14,72,224	17,71,772
28 Operating Cost- Physics	36,13,594	33,53,780
29 Operating Cost-School of Humanities, Sc & Mgnt	20,72,659	17,29,109
30 Operating Cost-Sports	4,09,462	1,96,478
31 Student Internship	-	31,721
<b>TOTAL</b>	<b>49,31,80,685</b>	<b>52,68,10,872</b>

PLACE : SURATHKAL

DATE : 26-08-2025

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DIRECTOR  
N.I.T.K., SURATHKAL

<b>SCHEDULE NO. 17 - ADMINISTRATIVE AND GENERAL EXPENSES</b>		<b>CURRENT YEAR</b>	<b>PREVIOUS YEAR</b>
A	Infrastructure		
	a) Electricity & Power	6,74,90,180	6,70,53,586
	b) Water Charges	2,38,25,114	2,74,87,792
	c) Insurance	-	-
	d) Rent, Rates & Taxes (including property tax)	5,99,122	6,04,195
B	Communication	-	
	e) Postage	2,52,315	2,04,635
	f) Telephone, Fax & Internet Charges	6,55,897	5,64,655
C	Others		
	g) Printing & Stationery	29,72,338	38,85,022
	h) Travelling, & Conveyance	39,32,276	50,69,193
	i) Hospitality/Entertainment	11,17,837	6,85,541
	j) Auditor Remuneration	2,05,555	1,92,430
	k) Professional Charges	32,86,520	15,51,732
	l) Advertisement & Publicity	9,24,097	9,65,610
	m) Magzines & Journals	-	59,000
	n) Hostel Establishment	1,59,21,602	1,60,79,393
	o) Others		
	Dispensary	1,94,74,538	1,59,19,779
	Security Outsourcing	4,83,62,465	5,83,15,970
	Contractual Staff/Manpower	7,00,01,000	6,78,86,492
	Miscellaneous Expenses	21,81,378	24,91,684
	IRG Contingencies	39,21,053	6,56,756
	Project Overhead Expenses	29,73,568	48,92,299
	Recurring Expenses from Projects: Other Research Projects	12,20,73,317	12,98,14,948
	<b>TOTAL</b>	<b>39,01,70,172</b>	<b>40,43,80,712</b>

PLACE : SURATHKAL

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DIRECTOR  
N.I.T.K., SURATHKAL

(AMOUNT ₹)

SCHEDULE NO. 18 - TRANSPORTATION EXPENSES		CURRENT YEAR	PREVIOUS YEAR
1	Vehicles		
	a) Running Expenses	11,22,137	13,65,411
	b) Repairs & Maintenance	4,62,084	-
	c) Insurance Expenses	2,28,399	1,58,063
2	Vehicles taken on Rent/Lease	-	
	a) Rent/Lease Expenses	-	-
3	Vehicles Hiring Expenses	-	-
TOTAL		18,12,620	15,23,474

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DIRECTOR  
N.I.T.K., SURATHKAL

(AMOUNT ₹)

<b>SCHEDULE NO. 19 - REPAIRS &amp; MAINTENANCE</b>		<b>CURRENT YEAR</b>	<b>PREVIOUS YEAR</b>
a)	Building (ACB)	1,88,01,240	1,35,79,803
	Hostel	1,02,87,748	36,80,085
	Residential Bldg	60,94,521	34,51,846
b)	Furniture & Fixtures	24,024	2,81,040
c)	Machinery & Equipments	1,16,55,703	1,25,55,832
d)	Computers	4,38,00,013	2,90,34,288
e)	Gardening	33,87,762	29,82,148
f)	Others		
	Internal Telephone	24,90,576	24,02,873
	Guest House	12,33,281	9,61,974
	Campus Maint/upkeeping	45,31,688	34,03,798
	Electrical Installation	1,80,44,275	1,48,31,985
	Maintenence of Fire Safety& Equipments	4,16,389	
	House Keeping Charges	3,05,96,606	2,81,59,145
	Maintenance of Road	23,12,480	9,83,885
	Maint. of Waste Water Disposal	1,50,01,552	94,80,970
	Swachha Bharath Abhiyan	3,47,458	1,09,976
	Ek Bharath Shreshtha Bharath	-	14,94,009
	NIT Transit House	3,50,000	3,50,000
<b>TOTAL</b>		<b>16,93,75,316</b>	<b>12,77,43,657</b>

PLACE : SURATHKAL

DATE : 26-08-2025

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(PROF. BHALLAMUDI RAVI)  
DIRECTOR  
N.I.T.K., SURATHKAL

<b>SCHEDULE NO. 20 - FINANCE COSTS</b>	<b>CURRENT YEAR</b>	<b>PREVIOUS YEAR</b>
a) Bank Charges	2,79,223	1,47,986
b) Others - HEFA Loan Interest	6,44,30,030	5,85,27,857
<b>TOTAL</b>	<b>6,47,09,253</b>	<b>5,86,75,843</b>

PLACE : SURATHKAL

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**N.I.T.K., SURATHKAL**

**Sd/-**  
**(PROF. BHALLAMUDI RAVI)**  
**DIRECTOR**  
**N.I.T.K., SURATHKAL**



(AMOUNT ₹)

<b>SCHEDULE NO. 21 - OTHER EXPENSES</b>	<b>CURRENT YEAR</b>	<b>PREVIOUS YEAR</b>
a) Application Fee Refund	-	6,32,500
b) Transfer to Corpus/Capital fund to the extent of Capital Exp-IRG & Revenue Exp.	-	5,93,24,986
c) Testing & Consultancy Expenses	9,64,90,073	7,51,89,506
d) Provision for Bad & Doubtful Debts/Advances	-	-
e) Irrecoverable Balances Written Off	-	-
f) Grants/Subsidies to other Institutions/Organisations	-	-
g) Recurring Expenses - Capital Grant		-
f) CBDE Program - OH 31	26,11,550	-
<b>TOTAL</b>	<b>9,91,01,623</b>	<b>13,51,46,992</b>

PLACE : SURATHKAL

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**Sd/-**  
**(PROF. BHALLAMUDI RAVI)**  
**DIRECTOR**  
**N.I.T.K., SURATHKAL**

**SCHEDULE NO. 22 - PRIOR PERIOD EXPENSES****CURRENT  
YEAR****PREVIOUS  
YEAR**

- |   |   |   |             |
|---|---|---|-------------|
| 1 | Establishment Expenses :                              | - | -           |
| 2 | Academic Expenses                                     | - | -           |
| 3 | Administrative Expenses                               | - | 1,41,35,972 |
| 4 | Transportation Expenses                               | - | -           |
| 5 | Repairs & Maintenance                                 | - | -           |
| 6 | Other Expenses - Depreciation on Fund/Project Asssets | - | -           |

**TOTAL****- 1,41,35,972**

PLACE : SURATHKAL

DATE : 26-08-2025

**Sd/-**

**(PROF. KUMAR G.N)**  
**REGISTRAR I/C**  
**N.I.T.K., SURATHKAL**

**Sd/-**

**(PROF. BHALLAMUDI RAVI)**  
**DIRECTOR**  
**N.I.T.K., SURATHKAL**

# NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA

## RECEIPTS & PAYMENTS FOR THE YEAR ENDED 31-03-2025

RECEIPTS	Current Year	Previous Year	PAYMENTS	Current Year	Previous Year
Opening Balances:			Establishment and Administrative expenses	3,23,70,08,857	2,33,79,84,757
(a) Cash in hand	31,141	11,088	Payments Against Earmarked/Endowment Funds	46,05,79,625	403319561
(b) Bank Balances:			Payments Against Sponsored Projects/Schemes	24,97,68,518	15,90,44,183
(i) In current accounts	9,34,08,096	13,47,22,877	Investments	5,45,62,59,576	3,36,43,89,372
(ii) Savings accounts	46,55,815	5,15,65,123	Expenditure on Fixed Assets & Capital WIP	71,52,62,659	64,84,47,557
(iii) HEFA accounts	5,56,979	5,58,157	Deposits & Advances	3,13,31,13,162	1,99,35,35,463
(iv) TSA accounts	-	-	Any Other Payments	1,04,42,51,458	1,15,42,10,214
Grants Received:			Closing Balances:		
(a) From Govt. of India			(a) Cash in hand	8,736	31,141
Capital Grant	11,92,00,000		(b) Bank Balances:		
Revenue Grant	2,32,41,09,714		(i) In current accounts	22,99,398	9,34,08,096
	2,44,33,09,714		(ii) Savings accounts	2,38,00,660	46,55,815
Less : Refund	-	2,25,31,50,348	(iii) HEFA accounts	5,56,977	5,56,979
(b) From State Government			(iv) TSA accounts	-	-
Academic Receipts	55,64,77,784	50,09,87,972			
Receipts Against Earmarked/Endowment Funds	1,03,80,56,012	61,90,26,078			
Receipts Against Sponsored Projects/Schemes/Plan	83,27,38,785	82,48,78,230			
Income on Investments	9,82,47,721	6,51,33,034			
Interest Received SB	12,93,177	8,11,468			
Deposits & Advances	3,77,22,42,434	2,17,72,14,139			
Investments Encashed/matured	4,14,70,57,449	2,79,33,47,979			
Any other receipts	1,33,48,34,517	73,81,76,644			
<b>TOTAL</b>	<b>14,32,29,09,625</b>	<b>10,15,95,83,137</b>	<b>TOTAL</b>	<b>14,32,29,09,625</b>	<b>10,15,95,83,137</b>

PLACE: SURATHKAL

DATE : 26-08-2025

Sd/-

(PROF. KUMAR G.N)  
REGISTRAR I/C  
N.I.T.K., SURATHKAL

Sd/-

(PROF. BHALLAMUDI RAVI)  
DIRECTOR  
N.I.T.K., SURATHKAL

**SCHEDULE 23:**

**SIGNIFICANT ACCOUNTING POLICIES (2024-25)**

**1. BASIS FOR PREPARATION OF ACCOUNTS**

The accounts are prepared under accrual method of accounting.

**2. REVENUE RECOGNITION**

Revenue is recognised on accrual basis except for interest on Savings Bank Accounts.

**3. FIXED ASSETS AND DEPRECIATION**

**3.1** Fixed assets are stated at cost of acquisition including inward freight, duties and taxes and incidental and direct expenses related to acquisition, installation and commissioning.

**3.2** Fixed assets are valued at cost less accumulated depreciation under different block of assets. Depreciation is charged as per Straight Line Method (SLM), refer Schedule No. 4 to Balance Sheet for block-wise depreciation charge. Wherever the asset value is nil due to depreciation, the asset is carried forward at a residual value of Rupee one in the Balance Sheet and will not be further depreciated. Thereafter, depreciation will be calculated on the additions of each year separately at the rate of depreciation applicable for that block of asset. Depreciation is calculated on the basis of number of days put to use on the new assets added during the year.

**3.3** The total value of assets acquired out of the Earmarked fund has been incorporated in the books of accounts and considered as Institute assets. These assets are included in Schedule 4(A) and 4(B). The assets acquired from the sponsored projects are held and used by the Institute and are included in Schedule 4D(a).

**3.4** The buildings and related works are capitalized as soon as the asset is handed over by CPWD and put to use by the Institute.

**3.5** Intangible Assets: E-Journals and Computer Software are grouped under Intangible Assets.

**4. STOCK:**

Expenditure on the purchase of chemicals, glassware and other consumables are considered as Inventory and shown under Current Assets in Schedule No.7. However, printing & stationary items are accounted as revenue expenditure.

**5. RETIREMENT BENEFITS**

Employees Gratuity, Leave Encashment and Pension liability has been valued by the Actuaries and the same has been incorporated in the statement of accounts. For details, refer Notes on **Accounts Sl. No. 9**.

**6. INVESTMENTS**

Investments are stated at cost and the same is disclosed in detail as per the standard format.

**7. EARMARKED/ENDOWMENT FUNDS**

The income from investments is credited on an accrual basis to the respective Funds. The expenditures are debited to the Fund. The assets created out of Earmarked Funds where the ownership vests with the Institute are included along with the assets of the Institute by crediting an equal amount to the Capital

Fund. The balance in the respective funds is carried forward and is represented on the assets side by the balance at Bank, Investments and accrued income.

### **7.1 NITK CORPUS FUND**

Income earned from the investment is added to the Fund. Only the Investment Interest earned under the Corpus Fund may be utilised for both Revenue and Capital expenditure based on the guidelines of the Institution. In the 44th BOG meeting held on 23-03-2016, it was resolved to remove the upper accumulation ceiling limit for NITK Corpus Fund (FC Item No. 34.3.11 dated 23-03-2016). The Interest earned out of the Investment shall be transferred to Institute's revenue account as per the BOG resolution No.53.3 dated 05.10.2018.

### **7.2 ENDOWMENT FUNDS**

Endowment funds are received from various individual donors, Trusts and other organisations for establishing Chairs and for Medals & Prizes as specified by the Donors. The income from the investment of each Endowment Fund is added to the respective Fund. The expenditure on Medals & Prizes is met from the interest earned on the investment of the respective Endowment Funds and the balance is carried forward. The balances are represented by Investment in Fixed Deposits and balance in the Savings Bank Account and Accrued Interest on Investments.

## **8. GOVERNMENT (MoE) GRANTS**

**8.1** Government Grants are accounted on sanction/realization basis. However, where a sanction for release of grant pertaining to the financial year is received before 31st March and the grant is actually received in the subsequent financial year, that grant is accounted on accrual basis and an equal amount is shown as receivable from the Government.

**8.2** Government Grants utilised towards capital expenditure (on an accrual basis) is transferred to the Capital Fund to the extent of the amount spent on capital expenditure.

**8.3** Government grants for meeting Revenue Expenditure (on an accrual basis) are considered to the extent utilised, as income of the year in which they are realised.

**8.4** Unutilized grants (excluding advances paid out of such grants) are automatically reversed by the system as at the year end.

## **9. HEFA LOAN**

As per the Govt of India policy the financial assistance for creation of educational infrastructure and R&D in India's Premier Educational Institutions is through HEFA. Institute has got sanctioned HEFA loan of Rs.220.64 crores for four major projects. The principal amount will be repayable out of the Internal Revenue Generation of the Institute in 10 years in half yearly instalment (Schedule 3B).

## **10. INVESTMENTS OF EARMARKED FUNDS AND INTEREST INCOME ACCRUED ON SUCH INVESTMENTS:**

To the extent not required immediately for expenditure, the amounts available against such funds are invested in Short/Long Term Deposits in Scheduled Nationalized Banks, leaving a balance in Savings Bank Accounts. Interest received, interest accrued and due and interest accrued but not due on such investments are added to the respective funds and not treated as income of the Institution except for Corpus Fund.

## **11. SPONSORED PROJECTS**

**11.1** In respect of ongoing Sponsored Projects, the amounts received from sponsors are credited to the head "Current Liabilities and Provisions - Current Liabilities - Projects/Other Research Schemes (Refer Schedule 3(a) for project-wise receipts details). As and when expenditure is incurred/advances are paid against such projects, or the concerned project account is debited with allocated overhead charges, the liability account is debited.

**11.2** Fellowships and Scholarships sponsored by various organisations are accounted in the same way as sponsored Projects and the disbursement of Fellowships, Scholarships and contingent expenditure are met out of this Funds (Refer Schedule 3(b) for details).

**11.3** The Institution awards Fellowships and Scholarships to Under Graduate and Post Graduate students, which are accounted as Academic expenses.

**11.4** Other Academic Receipts of ₹2,82,000 in Schedule No.9 represents tuition fee received from repeaters.

## **12. INCOME TAX**

The income of the Institution is exempt from Income Tax under Section 10(23C) of the Income Tax Act, hence there is no provision for tax liability created in the books of accounts.

PLACE : SURATHKAL

DATE : 26-08-2025

Sd/-

(PROF. KUMAR G.N)

REGISTRAR I/C

N.I.T.K., SURATHKAL

Sd/-

(PROF. BHALLAMUDI RAVI)

DIRECTOR

N.I.T.K., SURATHKAL

# NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA

SURATHKAL, P.O. SRINIVASNAGAR - 575 025

## SCHEDULE 24:

### NOTES ON ACCOUNTS (2024-25):

#### 1. FIXED ASSETS:

**1.1** Additions in the year to Fixed Assets in Schedule include Assets purchased out of Capital Grant ₹78,85,84,449/-, IRG Capital Expenses ₹3,06,36,542/-, Non-Plan ₹2,47,00,377/-, Other designated funds/workshops ₹96,77,163 /-.

**1.2** Assets acquired during the year under Other Research Projects is ₹7,93,85,027/-.

**1.3** Fixed Assets acquired out of Capital Grant, Revenue Grant and other funds have been exhibited in Sub Schedules A, B & C of the main Schedule of Fixed Assets (Schedule 4).

**1.4** Depreciable fixed assets as set out in Schedule 4 do not include assets purchased out of funds of sponsored ongoing projects, as project contracts include stipulations that all such assets purchased out of project funds will remain the property of the sponsors.

**1.5** Depreciation has been calculated under Straight Line Method (SLM). Under this method, the depreciation is calculated on original cost of the asset at rates specified below.

S.No.	Asset Block	Rate
1	Land : Freehold	-
2	Buildings: Freehold.	2.00
3	Buildings: Freehold (Residential)	2.00
4	Buildings: Freehold (Hostel)	2.00
5	Plant & Equipment	5.00
6	Vehicle	10.00
7	Furniture & Fixtures	7.50
8	Office Equipment	7.50
9	Computer & Peripherals	20.00
10	Electrical Installation	5.00
11	Library Books	10.00
12	Audio Visual Equipment	7.50
13	Tube Wells and Water Supply	2.00
14	Lab & Scientific Equipment	8.00
15	Software	40.00
16	E-Books	40.00

**2. DEPOSIT LIABILITIES** –There are various deposits received from Contractors / Firms as performance security/EMD, Lease Deposits and other Deposits as on 31st March 2025.

#### 3. CURRENT ASSETS, LOANS, ADVANCES AND DEPOSITS:

In the opinion of the Management, the Current Assets, Loans, Advances and Deposits have a value on realisation in the ordinary course, equal at least to the aggregate amount shown in the Balance Sheet.



4. Balance in Reserve Bank of India TSA-10681301001 account as on 31.03.2025 is NIL after day end system reversal.

5. The following Project Bank Accounts are maintained under Zero balance subsidiary accounts.

1. Canara Bank - MPSW-A/C No 110058244692-Canara-9061
2. SBI - MSME-4116-SBI A/C No 41291918931
3. Bank of Maharashtra No 60428193589, BK of Maharashtra , 3237
4. Bank of Maharashtra No 60428981467, BK of Maharashtra -1817
5. Canara Bank GIAN Account No.110080835767 – 3356
6. SPARC SBI Account No.41512400638 – 3614
7. Union Bank Account No.017722010000465 – 1819
8. Union Bank Account No. 017722010000671 – 3972
9. SBI No 42784580406-2792-ISRO
10. SBI 10175367556 - 1827, CSIR
11. RBI- A/c No 10687701382 - 4197

6. Figures in the Final accounts have been rounded off to the nearest rupee.

7. Schedules 1 to 22 are annexed to and form an integral part of the Balance Sheet at 31st March 2025 and the Income & Expenditure account for the year ended on that date.

8. The existing employees' terminal benefit & Pensioners liability as per the requirement under the uniform accounting standards prescribed by the Ministry is valued at Rs.674.49 crores as on 31-03-2025 by Actuary M/s. K.A. PANDIT, an approved Consultants and Actuaries, Mumbai. The details are as follows:

Pension Liability	Rs.582.87 Crore
Leave Encashment Liability	Rs. 55.07 Crore
Gratuity Liability	Rs. 36.55 Crore

9. The General Provident Fund Account is owned by the members of NITK GPF Trust and are maintained separately. The Receipts & Payments Account, Income & Expenditure Account (on accrual basis) and the Balance Sheet of Employees' Contributory Cum General Provident Fund Account for the Financial Year 2024-25 have been attached to the Institute's Accounts. During the year a sum of Rs.3,68,83,940/- has been collected and transferred to the GPF Trust Account [Investment Pattern: Central Govt. & State Govt. Securities 55.80%, Debt Securities/Term Deposits/Public Finance Bond Securities 42.65%, Money market instruments including units of money market Mutual Funds 1.55%].

All portion of the New Pension Scheme funds of Rs. 7,79,38,021.00 /- in respect of 312 employees who have been allotted PRA numbers has been transferred to National Securities Depository Limited (NSDL) - Central Record Keeping Agency (CRA).

## 10. WORK-IN-PROGRESS:

Work-in-Progress is valued at cost basis.

## 11. HEFA LOAN:

During the year, there is no new loan availed by the Institute from HEFA for construction. During the year interest charged on all 4 Loans is Rs. 6.44 crores. The interest on HEFA loans are treated as revenue

expenditure and shown under Schedule No.20 of Income & Expenditure Account.

All assets acquired out of HEFA loan are hypothecated to HEFA till the loan is discharged in full.

## **12. TUITION FEE:**

The tuition fee is collected on a semester basis and accounted as per semester even though the period is spread over to two financial years.

## **13. PATENTS:**

Capitalization of patents will be considered for capitalization after evaluation & completion of Licensing & commercialization process.

## **14. OTHER:**

1. For accounting purposes, the financial year followed for testing and consultancy activities is from 1st March to 28th February
2. Previous year figures have been re-casted and regrouped wherever necessary in conformity with current year presentation.
3. Tuition fee exemption has been extended to all SC/ST students along with other benefits. Hence, tuition fee is accounted on accrual basis and other benefits such as Laptop, Book allowance, Mess Allowance etc., accounted on claim basis.
4. (i) During the year 2013-14 area of the land measuring 1.40 acres of land acquired by NHAI.  
(ii) The Land value disclosed in Fixed Assets Schedule includes Rs. 24,014/- land measuring 78 cents which was under dispute.
5. N.I.T.K. Hostel Trust Account is maintained separately. It is a separate entity governed by the NITK Hostel Trust (R).

PLACE : SURATHKAL

DATE : 26-08-2025

**Sd/-**  
**(PROF. KUMAR G.N)**  
**REGISTRAR I/C**  
**N.I.T.K., SURATHKAL**

**Sd/-**  
**(PROF. BHALLAMUDI RAVI)**  
**DIRECTOR**  
**N.I.T.K., SURATHKAL**

**NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL**  
**EMPLOYEES CONTRIBUTORY CUM GENERAL PROVIDENT FUND.**

**BALANCE SHEET AS ON 31<sup>ST</sup> MARCH, 2025**

PARTICULARS	SCH. NO.	AS AT 31.03.2025	AS AT 31.03.2024
<b>I SOURCES OF FUNDS :</b>			
Trust Funds			
General Fund	1	93,18,627	85,90,117
GPF Subscription	2	40,18,73,897	39,69,03,890
<b>TOTAL</b>		<b>41,11,92,524</b>	<b>40,54,94,007</b>
<b>II APPLICATION OF FUNDS :</b>			
<b>1 NON CURRENT ASSETS :</b>			
Investments (including Interest Accrued)	3	40,16,13,921	39,67,05,501
<b>2 CURRENT ASSETS :</b>			
Cash and Cash Equivalents	4	83,67,440	76,79,730
Other Current Assets	5	12,11,164	11,08,776
<b>TOTAL</b>		<b>41,11,92,524</b>	<b>40,54,94,007</b>

Place : Bengaluru  
Date : 10-07-2025

As per report of even date.

For Rao and Emmar Chartered Accountants  
Firm Reg. No. 003084S

Sd/-  
**PRESIDENT**

Sd/-  
**SECRETARY**

Sd/-  
**B J PRAVEEN**  
Partner

Membership No. 215713

**NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL**  
**EMPLOYEES CONTRIBUTORY CUM GENERAL PROVIDENT FUND.**

**INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31<sup>ST</sup> MARCH, 2025**

PARTICULARS	SCH. NO.	AS AT 31.03.2025	AS AT 31.03.2024
<b>I INCOME :</b>			
Other Income	6	2,83,95,363	3,07,66,872
<b>TOTAL (A)</b>		<b>2,83,95,363</b>	<b>3,07,66,872</b>
<b>II EXPENDITURE :</b>			
Other Expenses	7	2,76,66,853	3,01,69,448
<b>TOTAL (B)</b>		<b>2,76,66,853</b>	<b>3,01,69,448</b>
<b>III Excess of Income/(Expenditure) (A-B)</b>		<b>7,28,510</b>	<b>5,97,424</b>
Notes to Accounts	8		

Place : Bengaluru  
Date : 10-07-2025

As per report of even date.

For Rao and Emmar Chartered Accountants  
Firm Reg. No. 003084S

Sd/-  
**PRESIDENT**

Sd/-  
**SECRETARY**

Sd/-  
**B J PRAVEEN**  
Partner  
Membership No. 215713

**NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL**  
**EMPLOYEES CONTRIBUTORY CUM GENERAL PROVIDENT FUND**

**RECEIPTS AND PAYMENT ACCOUNT FOR THE YEAR ENDED 31<sup>ST</sup> MARCH, 2025**

RECEIPTS	(AMOUNT ₹)	PAYMENTS	(AMOUNT ₹)
To <b>OPENING BALANCE :</b>		By Interest Paid to GPF Members	2,75,80,000
S.B.I., Surathkal, S.B. A/c. No. 1017536747-6	76,79,730	" Final/Partial Settlement to GPF Members	5,94,93,935
Investments	39,30,19,887	" Audit Fee	82,600
" <b>INTEREST :</b>			
On Investments.	2,91,65,768	" Professional Fee	4,253
On Special Deposit with S.B.I.,		" Bank Charges/Demat Account Charges	-
Mangalore A/C No.4	5,40,921	" TDS/TCS	1,02,388
On Bank Balance	3,80,255	<b>CLOSING BALANCE :</b>	
" GPF Subscription & Interest		" S.B.I., Surathkal, S.B. A/c. No. 1017536747-6	83,67,440
		Investments	39,96,19,887
			<u>40,79,87,327</u>
			<b>49,52,50,503</b>

Place : Bengaluru  
Date : 10-07-2025

As per report of even date.

For Rao and Emmar Chartered Accountants  
Firm Reg. No. 003084S

Sd/-  
PRESIDENT

Sd/-  
SECRETARY

Sd/-  
B J PRAVEEN  
Partner  
Membership No. 215713

**NPS TIER - 1 ACCOUNT**

**BALANCE SHEET AS ON 31<sup>ST</sup> MARCH, 2025**

PLACE: SURATHKAL	Sd/-	Sd/-
DATE : 26-08-2025	(PROF. KUMAR G.N) REGISTRAR I/C N.I.T.K., SURATHKAL	(PROF. BHALLAMUDI RAVI) DIRECTOR N.I.T.K., SURATHKAL

**NPS TIER - 1 ACCOUNT**

RECEIPTS	(AMOUNT ₹)	PAYMENTS	(AMOUNT ₹)
To <b><u>OPENING BALANCE:</u></b>			
Balance with main Fund	10809218.00	By Remittance to NSDL	129858173.00
" <b><u>NPS Tier-I Account :</u></b>		" <b><u>CLOSING BALANCE :</u></b>	
Own Subscription	77938021.00	Balance with main Fund	11673473.00
Institutes Subscription	52784407.00		
	<b>141531646.00</b>		<b>141531646.00</b>

**Sd/-**

**(PROF. KUMAR G.N)  
REGISTRAR I/C  
N.I.T.K., SURATHKAL**

**(PROF. BHALLAMUDI RAVI)  
DIRECTOR  
N.I.T.K., SURATHKAL**





**National Institute of Technology Karnataka, Surathkal  
Mangalore, Karnataka, India - 575 025**

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