

2022-2023

वार्षिक रिपोर्ट

ANNUAL REPORT

ANNUAL ACCOUNTS

वार्षिक लेखा

राष्ट्रीय प्रौद्योगिकी संस्थान कालीकट  
National Institute of  
Technology Calicut



तमसः मा ज्योतिर्गमय

**ANNUAL REPORT**

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**ANNUAL ACCOUNTS 2022-2023**



**National Institute of Technology Calicut**  
**Kerala, India**

[www.nitc.ac.in](http://www.nitc.ac.in)

National Institute of Technology Calicut, NIT Campus (Post), Calicut- 673601, Kerala, India  
Phone: +91 495 2286101

Fax: +91 495 2287250

[www.nitc.ac.in](http://www.nitc.ac.in)

**ANNUAL REPORT**  
**2022-2023**

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## **DIRECTOR'S FOREWORD**

It is with great pleasure and pride that I present the Annual Report of our Institute for the year 2022-23. The period has been an exciting one, with notable achievements in all aspects of performance. With over 7000 students and a permanent campus spread over 300 acres of land, offering 11 undergraduate programmes, 32 postgraduate programmes and doctoral research programmes in various streams of Engineering, Technology, Architecture, Planning, Management and Science, NITC is one of the biggest institutes in the region.

The Institute is pleased to announce that in the year 2022-23, it has secured 23<sup>rd</sup> rank in the NIRF ranking under the Engineering stream, 2<sup>nd</sup> rank in the Architecture stream, and 8<sup>th</sup> rank in the Innovation Rankings. NITC is the only NIT to find a place in the first 10 positions of the Innovation Rankings. The institute's commitment to high-quality education and research has contributed to this achievement. The institute has also emphasized internships at industry and research organizations, with a strong 35,000+ alumni network. The institute has also introduced innovative teaching methods and curricular and co-curricular activities to make learning more interactive and effective.

During the year, Faculty and Staff Recruitment has been done at magnitudes and frequencies unheard of in the history of NIT Calicut. NIT Calicut has experienced significant growth in infrastructure development. The procurement arena has seen major developments, including a record number of GeM procurements, ANSYS software installation, and fast-track purchases of advanced equipment.

The institute received 30 externally funded projects from various funding agencies from April 2022 to March 2023 with funds amounting to 7.3 Crores from various funding agencies. Our team inked 24 MoUs and received 19 patents. Three faculty members have been awarded fellowships under the SIRE fellowship and received grants under the SPARC Project. The institute supports newly joined faculty members through seed grants, with 70 faculty members receiving 3.5 crores under FRG 2023. Several programmes involving research and development were conducted online and offline. Four ATAL FDPS were conducted in hybrid mode, focusing on relevant research areas. Self-sponsored workshops, self-sponsored FDPs, and high-end workshops were also conducted for skill development. Six different SERB Karyashala workshops, international conferences, self-sponsored STTPs and skill development programs were conducted.

The National Institute of Technology (NITC) held two flagship events, Tathva and Ragam 23. Tathva focused on academic excellence, with lectures, workshops, and competitions covering a wide range of topics. Ragam'23 was an annual cultural extravaganza, featuring students and professional artists, fashion, sports, cinema, and music. Apart from counselling services for students, the year witnessed highly useful events like stress management workshops, and awareness campaigns, with the Student Guidance Cell orchestrating mental well-being programs such as 'yourDOST', which is a 24/7 online counselling platform. Our NSS and NCC units reflect our commitment to society and discipline. Ek Bharat Shreshtha Bharat and other events helped us promote cultural diversity.

The year that passed witnessed immense support from our alumni. A Diamond Jubilee Culmination function as the grand finale of the World NITCAA Meet (WNM) 2022, attended by 450 alumni, reflected their affection and commitment. The event featured alumni-sponsored campus projects like the Institute Management System, IoT lab, and Green Amphitheatre. The year also saw two golden jubilee reunions and three silver jubilee reunions, contributing to projects like the Gymkhana project and a new NITC website. Over 110 alumni volunteered to mentor students in the Alumni Mentoring Program NITCAMP. They also supported the students' cultural and technical fests.

The year witnessed the introduction of 16 new multidisciplinary centres. The Centre for International Relations and Foreign Languages (CIRFL) has been instrumental in collaborating with foreign academic and industrial organizations. NIT Calicut also signed MoUs with the Royal Melbourne Institute of Technology, and the Norwegian University of Science and Technology. The institute has also launched a Japanese language Certificate program with the Japan Foundation. NITC's multidisciplinary centres offer programs that enhance students' overall development, enabling them to acquire knowledge and skills beyond their core academic subjects, thus reflecting the institute's dedication to creating a comprehensive learning environment that transcends disciplinary boundaries. NITC's multidisciplinary centres including, Centre for Indian Knowledge Systems (CIKS), Centre for Holistic Teaching and Learning, Centre for Cultural and Art Relations, Centre for Yoga and Holistic Wellness etc. work to enhance the overall development of students.

I thank the Ministry of Education and all our stakeholders for the support, co-operation and dedication which has made these achievements possible.

I am also pleased to announce that the momentum set in 2022-23 is continuing in the current year, augmented with newer ideas and fresh vigour, which shall be reflected in our next annual report.

**Director**  
**National institute of Technology Calicut**

## **MESSAGE FROM DEAN (P&D)**

I humbly thank my great institute for giving me the privilege to present our Annual Report for the past year, 2022-23. As the Team (Planning and Development) prepares this document, I am filled with pride and admiration for the achievements in all domains on the part of our students, faculty and staff, which shows their dedication, ingenuity, and focus on the vision of our beloved Institute.

The past year (2022-2023) has been a significantly decisive period in the history of NITC. The institute took giant leaps forward in academics and research, laying strong foundations for a multidisciplinary, innovation-oriented learning environment, focussed on holistic and evolutionary learning experiences. Institute infrastructure grew in magnitude and calibre, which served to make the institute better prepared for the expanding academic and research scenarios.

The year set the way for quantum leaps in building construction activities, such as the New Academic Block with Rs 37.2 Cr funding from MoE, the 33 kV unmanned digital automated substation- the first of its kind in Kerala, Rs 150.16 Cr worth of 10 ongoing major projects, Rs 7.02 Cr worth of 33 ongoing minor projects, and Rs 14.31 Cr worth of 31 repair projects to existing buildings and spaces, which are currently under execution through government agencies like CPWD, Kerala PWD, KWA, KSEB, the society ULCCS, and more than 20 government- registered private contractors.

Other works that were conceptualized and initiated in the year include necessary infrastructure such as the overhead tank of 5 lakh litres capacity near the Institute Guest House, and the ground sump of similar capacity. GI roofing, MH-1 waterproofing, renovation of the Institute Guest House, compound wall construction, and Mega Hostel 1 balance work. Conceptual plans for Students Activity and Sports Centre, Football Stadium and Athletic Track, and Connecting Building Between Administrative Blocks were prepared during this period.

The year set the stage for the activity-filled and eventful time ahead, where the process of realization of all these new projects happens. We have taken up these tasks forward with great enthusiasm, and eagerly take up this opportunity to put in sustained, meticulous and intense efforts, for our Institute.

The Annual Report is the most important official record of the activities of the Institute in the past year and is primarily a compilation of data, available from different sources. Integration of this data into a usable public document is very crucial to decision-making processes, involved in planning and administration.

“It is a capital mistake to theorize before one has data.” — Sherlock Holmes

We thank all the contributors of data – Director, Registrar, Deans, HODs, Centre-Chairs, Faculty, Heads of various Sections, Faculty, Staff and students of NITC.

A major change in the report from the previous years’ reports is the data involving vibrant and diverse activities of the thematic and multidisciplinary centres that were instituted during the year. We have tried our best to include data on all these interesting activities, in concise forms. We wish to thank the Accounts and Finance section for preparing the Annual Accounts report.

We acknowledge with gratitude the efforts of the Official Language Unit for providing the timely translation of the report to Hindi.

I heartily thank the Dean (P&D) office for the intensive and dedicated efforts put in by them to complete this document in time. Our next aim is to automate Annual Report generation from a well-designed repository of updated information, available throughout the year to relevant stakeholders. We humbly solicit the support and cooperation from all of you to realize this project.

"You have to dream before your dreams can come true." -- A. P. J. Abdul Kalam.

We wish all in our Institute the strength and enthusiasm to realize their dreams and grow with the Institute. Let our great Institute achieve greater heights in the years to come.

**Dean (Planning and Development)**

# 1 INTRODUCTION

## 1.1 VISION

International standing of the highest caliber.

## 1.2 MISSION

To develop high quality technical education and personnel with a sound footing on basic engineering principles, technical and managerial skills, innovative research capabilities and exemplary professional conduct to lead and to use technology for the progress of mankind, adapting themselves to changing technological environment with the highest ethical values as the inner strength.

## 1.3 BRIEF INFORMATION ABOUT THE INSTITUTE

### HISTORICAL BACKGROUND

The National Institute of Technology Calicut (NITC), originally established in 1961 as a Regional Engineering College and transformed to NIT on 26<sup>th</sup> June 2002, is one of the 31 NITs and IEST, Shibpur in the country. It is fully funded by the Government of India and an Institute of National Importance under NIT Act 2007.

### LOCATION

The institute is located at Chathamangalam, 22 km east of Calicut city, along the Kunnamangalam-Mukkam road and covers an area of over 120 hectares, at the foot of the Western Ghats. The Calicut Railway Station and Airport are respectively 22 km and 45 km away from the Campus.

### CAMPUS

The institute campus has all the essential amenities required. The library, computer centre and laboratories of the institute are well equipped. There is a campus school managed by a society formed by faculty members, a branch of State Bank of India, a Post Office, a Telephone exchange and canteens functioning within the institute campus. The institute has a Health centre to look after the medical needs of the students, employees and their families. The Institute has adequate facilities for indoor and outdoor games, recreation and co-curricular activities. There are 11 hostels for the boys. One hostel with four blocks with an attached recreational centre and one mega hostel with 500 rooms are available for girls. One International hostel with twenty semi-furnished rooms is also available. There are 90 apartments for the married scholars. The institute has a good number of staff quarters and a guest house with 20 rooms.

## 2. GOVERNANCE

### 2.1 BOARD OF GOVERNORS

Sl.no	Designation	Present member	Term	Time period
1	The Chairperson (To be nominated by the Visitor)	<b>Shri. Gajjala Yoganand</b> (Chairman & Managing Director, Manjeera Group, Hyderabad) gyn@manjeera.com	Three years	From September 2021 to September 2024
2	The Director (Ex. Officio Member)	<b>Prof. Prasad Krishna</b> (Director, NITC) director@nitc.ac.in	Continue so long as he holds the office	Ex. Officio

3	Secretary	<b>Cdr. (Dr.) Shamasundara M. S.</b> (Registrar, NITC) <a href="mailto:registrar@nitc.ac.in">registrar@nitc.ac.in</a>	Continue so long as he holds the office	Ex. Officio
4	Joint Secretary to the Government of India to be nominated by the Central Government.	<b>Smt. Saumya Gupta</b> (Joint Secretary, Technical Education (NITs), MoE)	Continue so long as she holds the office	Ex. Officio
5	Amongst persons dealing with finance.	<b>Shri. Sanjog Kapoor</b> (Joint Secretary & Financial Advisor, NITs, MoE) <a href="mailto:jsfa-moe@gov.in">jsfa-moe@gov.in</a>	Continue so long as he /she holds the office	Ex. Officio
6	Two persons to be nominated by the Government of the State  Amongst persons who are technologists.	<b>Shri. Raveendran Kasturi</b> (Group CEO, Uralungal Labour Contract Co-Operative Society & UL Cyber Park & UL Technology Solutions (ULTS), Madappalli College.P.O., Kozhikode <a href="mailto:ceo@ulccsltd.com">ceo@ulccsltd.com</a> <a href="mailto:raveekasthuri@gmail.com">raveekasthuri@gmail.com</a>	Three years	From February 2019 onwards
7	Amongst persons who are industrialists of repute.	<b>Shri. V. Naushad</b> (Senior Vice President, Confederation of Indian Footwear Industries & MD, VKC, VKC Group Calicut) <a href="mailto:vnoushad@walkarogroup.com">vnoushad@walkarogroup.com</a>	Three years	From February 2019 onwards.
8	Two persons, nominated by the NIT Council; (One of whom shall be a woman, having special knowledge or practical experience in respect of education, engineering or science.)	VACANT (From 19/05/2019)  VACANT (From 19/05/2019)	Three years  Three years	
9	One professor and one assistant professor of the Institute to be	<b>Dr. R. Manu,</b> (Professor, NITC) <a href="mailto:manu@nitc.ac.in">manu@nitc.ac.in</a> <b>Dr. Chithra K.,</b>	Two Years  Two Years	From November 2021 to November 2023

	nominated by the Senate	(Associate Professor, NITC) <a href="mailto:chithrak@nitc.ac.in">chithrak@nitc.ac.in</a>		
<b>10</b>	The Director of the Indian Institute of Technology	VACANT (Not applicable for NITs coming under First schedule – As per loksabha question No. 441)	Three years	

## 2.2 ADMINISTRATION

Institute is governed by the NIT Act 2007 and the statutes. Board of Governors and the Senate are the authority of the Institute. Hon'ble President of India is the Visitor of the Institute. Chairperson of the Board of Governors is nominated by the Visitor.

Institute follows multi-tier hierarchical administrative structure, with proper delegation from top to bottom. Director appointed by the Government of India is at the helm of the affairs. Six Deans spearhead the consultative mechanism that assists the Director in administration and management. The academic units of Departments and Schools are headed by faculty and the administrative sections are headed by officers of appropriate rank. In line with the implementation of NEP 2020, NIT Calicut has started 14 multidisciplinary centers each headed by a Chairperson.

## 2.3 COMMITTEES AT NITC

### 2.3.1 Finance Committee

SL. NO	DESIGNATION	PRESENT MEMBER	POSITION
1	The Chairperson, Board of Governors (Ex-officio Chairman)	<b>Shri. Gajjala Yoganand,</b> Chairman & Managing Director, Manjeera Group, Hyderabad	Chairperson
2	The Director, (ex-officio member)	<b>Prof. Prasad Krishna,</b> Director, NIT Calicut	Ex. Officio Member
3	The Registrar	<b>Cdr. (Dr.) Shamasundara M. S.,</b> Registrar, NIT Calicut	Secretary
4	Joint Secretary dealing with National Institutes of Technology or his nominee	<b>Smt. Saumya Gupta</b> (Joint Secretary, Technical Education (NITs), MoE)	Member
5	Financial Advisor (Human Resource Development) or his nominee	<b>Shri. Sanjog Kapoor,</b> (Joint Secretary & Financial Advisor, NITs, MoE)	Member
6	Two persons nominated by the Board from amongst its members.	<b>Dr. R. Manu,</b> Professor, NIT Calicut. <b>Shri. Raveendran Kasturi</b> (Group CEO, Uralungal Labour Contract Co-Operative Society & UL Cyber Park & UL Technology Solutions (ULTS), Madappalli College.P.O., Kozhikode	Members

### 2.3.2 Building and Works Committee

SL. NO	DESIGNATION	PRESENT MEMBER	EMAIL	POSITION
1	The Director, (ex-officio Chairman)	<b>Prof. Prasad Krishna,</b> Director, NIT Calicut	<a href="mailto:director@nitc.ac.in">director@nitc.ac.in</a>	Chairman
2	Registrar, (ex-officio)	<b>Cdr. (Dr.) Shamasundara M. S.,</b> Registrar, NIT Calicut	<a href="mailto:registrar@nitc.ac.in">registrar@nitc.ac.in</a>	Secretary
3	Director or Deputy Secretary (ex-officio member)	One Member nominated by the Central Government not below the rank of Director or Deputy Secretary		Member
4	One member nominated by the Board of Governors	<b>Dr. Chithra K.,</b> (Associate Professor, DAP, NIT Calicut)	<a href="mailto:chithrak@nitc.ac.in">chithrak@nitc.ac.in</a>	Member
5	Dean, Planning and Development	<b>Dr. Naseer M. A.,</b> (Professor, DAP, NITCalicut)	<a href="mailto:deanpd@nitc.ac.in">deanpd@nitc.ac.in</a>	Member
6	One expert from Civil Engineering Wing of Central or State Government	<b>Shri. A Mohammed,</b> Superintending Engineer, KPWD		Member
7	One expert from Electrical Engineering Wing of Central or State Government	<b>Mrs. Shaji Sudhakaran,</b> Deputy Chief Engineer, Electrical Circle, Kozhikode		Member

### 2.3.3 The Senate

SL. NO	NAME	DESIGNATION	CATEGORY	EMAIL ID
1	Dr. Prasad Krishna	Director	Director & Chairman	<a href="mailto:director@nitc.ac.in">director@nitc.ac.in</a>
2	Dr. Sathi Devi P. S.	Deputy Director	Deputy Director	<a href="mailto:dydirector@nitc.ac.in">dydirector@nitc.ac.in</a>
3	Cdr. (Dr.) Shama Sundara	Registrar	Secretary	<a href="mailto:registrar@nitc.ac.in">registrar@nitc.ac.in</a>
4	Dr. Andrew Thangaraj	IIT Madras	External member	<a href="mailto:andrew@ee.iitm.ac.in">andrew@ee.iitm.ac.in</a>
5	Prof. Leena Abraham	TISS, Mumbai	External member	<a href="mailto:leena@tiss.edu">leena@tiss.edu</a>
6	Prof. Rajan M. P.	IISER, Trivandraum	External member	<a href="mailto:rajanmp@iisertvm.ac.in">rajanmp@iisertvm.ac.in</a>

7	Dr. Chandrakaran S.	Professor (HAG), CED	Professor	<a href="mailto:chandra@nitc.ac.in">chandra@nitc.ac.in</a>
8	Dr. M. V. L. R. Anjaneyulu	Professor (HAG), CED	Professor	<a href="mailto:mvlr@nitc.ac.in">mvlr@nitc.ac.in</a>
9	Dr. Madhavan Pillai	Professor (HAG), CED	Professor	<a href="mailto:mpillai@nitc.ac.in">mpillai@nitc.ac.in</a>
10	Dr. Sankar N.	Professor (HAG), CED	Professor	<a href="mailto:sankar@nitc.ac.in">sankar@nitc.ac.in</a>
11	Dr. Unnikrishnan G.	Professor (HAG), CHY	Professor	<a href="mailto:unnig@nitc.ac.in">unnig@nitc.ac.in</a>
12	Dr. Ashok S.	Professor (HAG), EED	Professor	<a href="mailto:ashoks@nitc.ac.in">ashoks@nitc.ac.in</a>
13	Dr. Jeevamma Jacob	Professor (HAG), EED	Professor	<a href="mailto:jeeva@nitc.ac.in">jeeva@nitc.ac.in</a>
14	Dr. Saly George	Professor (HAG), EED	Professor	<a href="mailto:saly@nitc.ac.in">saly@nitc.ac.in</a>
15	Dr. Jose Mathew	Professor (HAG), MED	Professor	<a href="mailto:josmat@nitc.ac.in">josmat@nitc.ac.in</a>
16	Dr. Joseph M. A.	Professor (HAG), MED	Professor	<a href="mailto:joseph@nitc.ac.in">joseph@nitc.ac.in</a>
17	Dr. R. Sridharan	Professor, (HAG) MED	Professor	<a href="mailto:sreedhar@nitc.ac.in">sreedhar@nitc.ac.in</a>
18	Dr. Chandrashekar K.	Professor (HAG), PHY	Professor	<a href="mailto:csk@nitc.ac.in">csk@nitc.ac.in</a>
19	Dr. Sobhan C. B.	Professor (HAG), SMSE	Professor	<a href="mailto:csobhan@nitc.ac.in">csobhan@nitc.ac.in</a>
20	Dr. Lity Alen Varghese	Professor, CHED	Professor	<a href="mailto:lityalen@nitc.ac.in">lityalen@nitc.ac.in</a>
21	Dr. Shiny Joseph	Professor, CHED	Professor	<a href="mailto:shiny@nitc.ac.in">shiny@nitc.ac.in</a>
22	Dr. V. Sivasubramanian	Professor, CHED	Professor	<a href="mailto:siva@nitc.ac.in">siva@nitc.ac.in</a>
23	Dr. A. Sujith	Professor, CHY	Professor	<a href="mailto:sujith@nitc.ac.in">sujith@nitc.ac.in</a>
24	Dr. Lakshmi C.	Professor, CHY	Professor	<a href="mailto:lakshmic@nitc.ac.in">lakshmic@nitc.ac.in</a>
25	Dr. Parameshwaran P.	Professor, CHY	Professor	<a href="mailto:param@nitc.ac.in">param@nitc.ac.in</a>
26	Dr. Santosh G. Thampi	Professor (HAG) & HoD, CED	Professor	<a href="mailto:santosh@nitc.ac.in">santosh@nitc.ac.in</a>
27	Dr. Krishnamurthy K.	Professor, CED	Professor	<a href="mailto:kk@nitc.ac.in">kk@nitc.ac.in</a>
28	Dr. Mohammed Ameen	Professor, CED	Professor	<a href="mailto:ameen@nitc.ac.in">ameen@nitc.ac.in</a>
29	Dr. Praveen Nagarajan	Professor, CED	Professor	<a href="mailto:praveen@nitc.ac.in">praveen@nitc.ac.in</a>



30	Dr. Sajith V.	Professor & HoD, CCD	Professor	<a href="mailto:sajith@nitc.ac.in">sajith@nitc.ac.in</a>
31	Dr. K. A. Abdul Nazeer	Professor, CSED	Professor	<a href="mailto:nazeer@nitc.ac.in">nazeer@nitc.ac.in</a>
32	Dr. Madhu Kumar S. D.	Professor, CSED	Professor	<a href="mailto:madhu@nitc.ac.in">madhu@nitc.ac.in</a>
33	Dr. Priya Chandran	Professor, CSED	Professor	<a href="mailto:priya@nitc.ac.in">priya@nitc.ac.in</a>
34	Dr. Vineeth Paleri	Professor, CSED	Professor	<a href="mailto:vpaleri@nitc.ac.in">vpaleri@nitc.ac.in</a>
35	Dr. Babu A. V.	Professor, ECED	Professor	<a href="mailto:babu@nitc.ac.in">babu@nitc.ac.in</a>
36	Dr. Deepthi P. P.	Professor, ECED	Professor	<a href="mailto:deepthi@nitc.ac.in">deepthi@nitc.ac.in</a>
37	Dr. Sreelekha G.	Professor, ECED	Professor	<a href="mailto:lekha@nitc.ac.in">lekha@nitc.ac.in</a>
38	Dr. Jagadanand G.	Professor, EED	Professor	<a href="mailto:jagadanand@nitc.ac.in">jagadanand@nitc.ac.i n</a>
39	Dr. Rijil Ramchand	Professor, EED	Professor	<a href="mailto:rijil@nitc.ac.in">rijil@nitc.ac.in</a>
40	Dr. Sindhu T. K.	Professor, EED	Professor	<a href="mailto:tk_sindhu@nitc.ac.in">tk_sindhu@nitc.ac.in</a>
41	Dr. Sushama C. M.	Professor, MAT	Professor	<a href="mailto:sushama@nitc.ac.in">sushama@nitc.ac.in</a>
42	Dr. Jacob M. J.	Professor, MAT	Professor	<a href="mailto:mjj@nitc.ac.in">mjj@nitc.ac.in</a>
43	Dr. M. S. Sunitha	Professor, MAT	Professor	<a href="mailto:sunitha@nitc.ac.in">sunitha@nitc.ac.in</a>
44	Dr. Satyananda Panda	Professor, MAT	Professor	<a href="mailto:satyanand@nitc.ac.in">satyanand@nitc.ac.in</a>
45	Dr. Sunil Jacob John	Professor, MAT	Professor	<a href="mailto:sunil@nitc.ac.in">sunil@nitc.ac.in</a>
46	Dr. Madhusudanan Pillai V.	Professor, MED	Professor	<a href="mailto:vmp@nitc.ac.in">vmp@nitc.ac.in</a>
47	Dr. A. Shaija	Professor, MED	Professor	<a href="mailto:shaija@nitc.ac.in">shaija@nitc.ac.in</a>
48	Dr. Biju.T. Kuzhiveli	Professor, MED	Professor	<a href="mailto:btmuzhiveli@nitc.ac.i&lt;br/&gt;n&lt;/a&gt;&lt;/td&gt; &lt;/tr&gt; &lt;tr&gt; &lt;td&gt;49&lt;/td&gt; &lt;td&gt;Dr. Joy M. L.&lt;/td&gt; &lt;td&gt;Professor, MED&lt;/td&gt; &lt;td&gt;Professor&lt;/td&gt; &lt;td&gt;&lt;a href=" mailto:mlj@nitc.ac.in"="">mlj@nitc.ac.in</a>
50	Dr. R. Manu	Professor, MED	Professor	<a href="mailto:manu@nitc.ac.in">manu@nitc.ac.in</a>
51	Dr. T. Radharamanan	Professor, MED	Professor	<a href="mailto:radha_ramanan@nitc.&lt;br/&gt;ac.in">radha_ramanan@nitc. ac.in</a>
52	Dr. Raghu C.	Professor, PHY	Professor	<a href="mailto:raghuc@nitc.ac.in">raghuc@nitc.ac.in</a>

53	Dr. Ravi Varma M. K.	Professor, PHY	Professor	<a href="mailto:r.varma@nitc.ac.in">r.varma@nitc.ac.in</a>
54	Dr. M. D. Anaul Kabir	Professor, SBT	Professor	<a href="mailto:anaulk@nitc.ac.in">anaulk@nitc.ac.in</a>
55	Dr. A. Santhiagu	Professor, SBT	Professor	<a href="mailto:asanthiagu@nitc.ac.in">asanthiagu@nitc.ac.in</a>
56	Dr. N. Sandhyarani	Professor, SMSE	Professor	<a href="mailto:sandhya@nitc.ac.in">sandhya@nitc.ac.in</a>
57	Dr. Suresh Babu T. K.	Professor, SOMS	Professor	<a href="mailto:suresh@nitc.ac.in">suresh@nitc.ac.in</a>
58	Dr. Soney Varghese	Professor, SMSE	Professor	<a href="mailto:sonyeva@nitc.ac.in">sonyeva@nitc.ac.in</a>
59	Dr. Preetha P.	Professor, EED	Professor	<a href="mailto:preetha@nitc.ac.in">preetha@nitc.ac.in</a>
60	Dr. Mukti Barai	Professor, EED	Professor	<a href="mailto:muktib@nitc.ac.in">muktib@nitc.ac.in</a>
61	Dr. Sajith A. S.	Professor, CED	Professor	<a href="mailto:sajithas@nitc.ac.in">sajithas@nitc.ac.in</a>
62	Dr. Aji A. Anappara	Professor, PHY	Professor	<a href="mailto:aji@nitc.ac.in">aji@nitc.ac.in</a>
63	Dr. Sunitha K.	Professor, EED	Professor	<a href="mailto:sunithak@nitc.ac.in">sunithak@nitc.ac.in</a>
64	Dr. Jayadeep U. B.	Professor, MED	Professor	<a href="mailto:jayadeep@nitc.ac.in">jayadeep@nitc.ac.in</a>
65	Dr. Lisa Sreejith	Professor, CHY	Professor	<a href="mailto:lisa@nitc.ac.in">lisa@nitc.ac.in</a>
66	Dr. Suchitra T. V.	Professor, SBT	Professor	<a href="mailto:drsuthithratv@nitc.ac.in">drsuthithratv@nitc.ac.in</a>
67	Dr. A. K. Kasthurba	Professor, DAP	Professor	<a href="mailto:kasthurba@nitc.ac.in">kasthurba@nitc.ac.in</a>
68	Dr. Naseer M. A.	Professor, DAP	Professor	<a href="mailto:naseer@nitc.ac.in">naseer@nitc.ac.in</a>
69	Dr. Murali Krishnan K.	Professor, CSED	Professor	<a href="mailto:kmurali@nitc.ac.in">kmurali@nitc.ac.in</a>
70	Dr. Chithra A.V.	Professor, MAT	Professor	<a href="mailto:chithra@nitc.ac.in">chithra@nitc.ac.in</a>
<b>INVITEES</b>				
71	Dr. Sameer S. M.	Dean (Academic)	Invitee & Member	<a href="mailto:deanacademic@nitc.ac.in">deanacademic@nitc.ac.in</a>
72	Dr. P. P. Anil Kumar	Dean (ACR)	Invitee & Member	<a href="mailto:deanacr@nitc.ac.in">deanacr@nitc.ac.in</a>
73	Dr. Sudhakumar J.	Dean (FW)	Invitee & Member	<a href="mailto:deanfw@nitc.ac.in">deanfw@nitc.ac.in</a>
74	Dr. Naseer M. A.	Dean (P&D)	Invitee & Member	<a href="mailto:deanpd@nitc.ac.in">deanpd@nitc.ac.in</a>

75	Dr. Madhusudanan Pillai V.	Dean (R&C)	Invitee & Member	<a href="mailto:deanrc@nitc.ac.in">deanrc@nitc.ac.in</a>
76	Dr. Rajanikant G. K.	Dean (SW)	Invitee & Member	<a href="mailto:deansw@nitc.ac.in">deansw@nitc.ac.in</a>
77	Dr. Mohammed Firoz	Associate Professor & HoD, DAP (I/c)	Invitee	<a href="mailto:firoz@nitc.ac.in">firoz@nitc.ac.in</a>
78	Dr. Haribabu K.	Associate Professor & HoD, CHED	Invitee	<a href="mailto:haribhabu@nitc.ac.in">haribhabu@nitc.ac.in</a>
79	Dr. Subhasree M.	Associate Professor & HoD, CSED	Invitee	<a href="mailto:subha@nitc.ac.in">subha@nitc.ac.in</a>
80	Dr. Jaikumar M. G.	Associate Professor & HoD ECED	Invitee	<a href="mailto:jkmg@nitc.ac.in">jkmg@nitc.ac.in</a>
81	Dr. Rathinasamy K.	Associate Professor & HoD, SBT	Invitee	<a href="mailto:rathin@nitc.ac.in">rathin@nitc.ac.in</a>
82	Dr. Shijo Thomas	Associate Professor & HoD, SMSE	Invitee	<a href="mailto:shijo@nitc.ac.in">shijo@nitc.ac.in</a>
83	Dr. Sunitha S.	Assoc Professor & HoD, SOMS	Invitee	<a href="mailto:sunita@nitc.ac.in">sunita@nitc.ac.in</a>
84	Dr. Suni Vasudevan	Associate Professor & HoD CHY	Invitee	<a href="mailto:suniv@nitc.ac.in">suniv@nitc.ac.in</a>
85	Dr. Mahesh Kumar	Associate Professor & HoD MAT	Invitee	<a href="mailto:mahesh@nitc.ac.in">mahesh@nitc.ac.in</a>
<b>SUPPORT TEAM</b>				
86	Dr. Raju Dey	1 <sup>st</sup> Year coordinator	Invitee	<a href="mailto:rajudey@nitc.ac.in">rajudey@nitc.ac.in</a>
87	Dr. Hanas T.	Associate Dean (Academic)	Invitee	<a href="mailto:hanas@nitc.ac.in">hanas@nitc.ac.in</a>
88	Dr. Dhanaraj K. J.	Associate Dean (Academic)	Invitee	<a href="mailto:dhanaraj@nitc.ac.in">dhanaraj@nitc.ac.in</a>
89	Dr. Subashini R.	Associate Dean (Academic)	Invitee	<a href="mailto:suba@nitc.ac.in">suba@nitc.ac.in</a>
90	Shri. Ashok Kumar Dev	Deputy Registrar (Academic)	Invitee	<a href="mailto:dracd@nitc.ac.in">dracd@nitc.ac.in</a>
91	Shri. K. V. Vivek	Assistant Registrar (Academic)	Invitee	<a href="mailto:aracd@nitc.ac.in">aracd@nitc.ac.in</a>
92	Shri. Vishnu Lal	Research affairs Secretary, SAC	Invitee	<a href="mailto:ras@nitc.ac.in">ras@nitc.ac.in</a>

93	Shri. D. Dheeraj	Academic affairs Secretary	Invitee	<a href="mailto:cas@nitc.ac.in">cas@nitc.ac.in</a>
94	Shri. V. K. Sreeram	Assistant Registrar (Board Office)	Invitee	<a href="mailto:arboardoffice@nitc.ac.in">arboardoffice@nitc.a c.in</a>

### 3. THE STAFF

<b>Director</b>	Dr. Prasad Krishna	18.10.2021 onwards
<b>Deputy Director</b>	Dr. Sathidevi P. S.	Up to 30.06.2022
<b>Registrar</b>	Dr. Jeevamma Jacob (i/c)	16.10.2021 - 10.04.2022
	Cdr. (Dr.). Shamasundara M. S.	11.04.2022 onwards
<b>Dean (Academic)</b>	Dr. Sameer S. M.	06.01.2022 onwards
<b>Dean (FW)</b>	Dr. J. Sudhakumar	14.02.2022 onwards
<b>Dean (P&amp;D)</b>	Dr. Naseer M. A.	01.04.2021 – 04.04.2023
<b>Dean (R&amp;C)</b>	Dr. Madhusudanan Pillai V.	01.04.2021 – 02.04.2023
<b>Dean (SW)</b>	Dr. Rajanikant G. K.	16.11.2021 – present
<b>Dean (ACR)</b>	Dr Anilkumar P. P.	21.03.2022 – present
<b>Asso. Dean (Academic)</b>	Dr. Raghu C. V.	19.08.2020 - 23.12.2022
	Dr. Hanas T.	10.01.2022 onwards
	Dr. Subhashini R.	28.04.2022 onwards
	Dr. Dhanaraj K. J.	24.12.2022 onwards
<b>Asso. Dean (FW)</b>	Dr. T. J. Sarvoththama Jothi	01.06.2021 - 31.05.2023
	Dr. Aswathy E. V.	28.04.2022 onwards
<b>Asso. Dean (P&amp;D)</b>	Dr. Sudheer A. P.	19.04.2021 - 15.06.2023
	Dr. Sathish Kumar D.	21.04.2021 - 13.06.2023
	Dr. Suman Saha	28.04.2022 - 20.07.2022
	Dr. Anantha Singh T. S.	17.08.2022 onwards
<b>Asso. Dean (R&amp;C)</b>	Dr. Bindiya T. S.	01.02.2022 onwards
	Dr. M. Prabu	28.04.2022 onwards
<b>Asso. Dean (SW)</b>	Dr. Haribabu K.	21.12.2021 - 24.08.2022
	Dr. Shyni Anilkumar	28.04.2022 onwards
	Dr. Nikhil Sasidharan	25.08.2022 onwards
<b>Asso. Dean (ACR)</b>	Dr. Deepak Lawrence	22.03.2022 onwards
	Dr. Saleel Ismail	28.04.2022 onwards

### MINISTERIAL STAFF

SL. NO.	EMP CODE	NAME	DESIGNATION	DEPARTMENT
1	1068	Cdr. (Dr.) Shamasundara M. S.	Registrar	Administration
2	953	Shri. Gejo. C. V.	Joint Registrar	Administration
3	1147	Shri. Ajayakumar S.	Deputy Registrar	Establishment
4	955	Shri. Saravanan S.	Assistant Registrar	Establishment
5	954	Smt. Sreedha S.	Assistant Registrar	Administration
6	957	Shri. Ashok Kumar Dev	Assistant Registrar	Accounts
7	1072	Smt. K. V Vivek	Assistant Registrar	Academic

8	1069	Smt. Nilina Elais	Assistant Registrar	Finance
9	1132	Shri. Ajesh M. K	Assistant Registrar	Accounts
10	1148	Shri. Ramesh S.	Assistant Registrar	Estate, Engg. Unit
11	1149	Shri. Sarathkumar V.	Assistant Registrar	Admission
13	1120	Shri. V. K. Sreeram	Assistant Registrar	S&P

### 3.1 STAFF POSITION

#### Teaching staff

DEPARTMENT	PROFESSOR	ASSOCIATE PROFESSOR	ASSISTANT PROFESSOR
Architecture & Planning	3	2	12
Chemical Engineering	3	5	16
Civil Engineering	11	6	29
Computer Science & Engineering	4	8	25
Electrical Engineering	9	7	18
Electronics & Communication Engineering	5	8	30
Mechanical Engineering	9	15	30
Mathematics	5	7	11
Physics	5	1	16
Chemistry	5	1	7
School of Management Studies	1	2	10
School of Biotechnology	5	2	7
School of Materials Science & Engineering	4	1	4
<b>Total</b>	<b>69</b>	<b>65</b>	<b>215</b>

#### Non-Teaching Staff

The sanctioned strength of non-teaching staff is 108. The department wise break-up of the in-position strength of non-teaching staff is given below.

DEPARTMENT / Sections	IN POSITION AS ON 31.03.2023
Establishment	7
Academic	7
Civil Engineering	3
Computer Science & Engineering	5
CITRA	4
Electrical & Electronics Engineering	4
Electronics & Communication Engineering	3
Mechanical Engineering	23
Accounts	8
Physics	1

CSAS	2
Engineering Unit	15
Library	6
Estate	1
Admission	1
Research & Consultancy	1
Stores & Purchase	2
Administration	3
Health Centre	2
Registrar's Office, Director's Office	2
First Year B Tech Coordinators Office	1
Chemistry	1
Sergeant Office	2
Hostel office	2
Guest House	2
<b>Total</b>	<b>108</b>

### 3.2 ACADEMIC STAFF

TEACHING AND NON-TEACHING STAFF DETAILS.docx

#### **FACULTIES JOINED BETWEEN 01.04.2022 TO 31.03.2023**

SL.NO	NAME	DEPARTMENT	DESIGNATION
1	Dr. M. Yogesh Kumar	Chemical Engineering	Assistant Professor Gr-I
2	Dr. Subhasis Mandal	Chemical Engineering	Assistant Professor Gr-II
3	Dr. Aniruddha Sanyal	Chemical Engineering	Assistant Professor Gr-II
4	Dr. Ajeesh S. S.	Civil Engineering	Assistant Professor Gr-II
5	Dr. Prateek Negi	Civil Engineering	Assistant Professor Gr-II
6	Dr. M. Abdul Akbar	Civil Engineering	Assistant Professor Gr-II
7	Dr. Sharan Kumar	Civil Engineering	Assistant Professor Gr-II
8	Dr. Madhavan K.	Civil Engineering	Assistant Professor Gr-II
9	Dr. Hillol Chakravarty	Civil Engineering	Assistant Professor Gr-II
10	Dr. Joe Cheri Ross	Computer Science and Engineering	Assistant Professor Gr-II
11	Dr. Renjith P.	Computer Science and Engineering	Assistant Professor Gr-II
12	Dr. Manjusha K.	Computer Science and Engineering	Assistant Professor Gr-II
13	Dr. A. Sudarshan Chakravarthy	Computer Science and Engineering	Assistant Professor Gr-II
14	Dr. Amit Praseed	Computer Science and Engineering	Assistant Professor Gr-II
15	Dr. Rakesh.R. Warier	Electrical Engineering	Assistant Professor Gr-II
16	Dr. Angshudeep Majumdar	Electrical Engineering	Assistant Professor Gr-II
17	Dr. Harish Sudhakaran Nair	Electrical Engineering	Assistant Professor Gr-II
18	Dr. Bini A. A.	Electronics and Communication Engineering	Assistant Professor Gr-II

19	Dr. Srinivasarao Chintagunta	Electronics and Communication Engineering	Assistant Professor Gr-II
20	Dr. Rakesh R. T.	Electronics and Communication Engineering	Assistant Professor Gr-II
21	Dr. Jailsingh Bhookya	Electronics and Communication Engineering	Assistant Professor Gr-II
22	Dr. Chithira P. R.	Electronics and Communication Engineering	Assistant Professor Gr-II
23	Dr. Nujoom Sageer Karat	Electronics and Communication Engineering	Assistant Professor Gr-II
24	Dr. Sudhansu Sekhar Rout	Mathematics	Assistant Professor Gr-I
25	Dr. Deepesh K. P.	Mathematics	Assistant Professor Gr-II
26	Dr. Sekhar Ghosh	Mathematics	Assistant Professor Gr-II
27	Dr. Vibhuti Arora	Mathematics	Assistant Professor Gr-II
28	Dr. Neetu Garg	Mathematics	Assistant Professor Gr-II
29	Dr. Amit Kumar Singh	Mechanical Engineering	Associate Professor
30	Dr. Sharu B. K.	Mechanical Engineering	Assistant Professor Gr-I
31	Dr. Vinod Kumar Sharma	Mechanical Engineering	Assistant Professor Gr-II
32	Dr. Vikash Kumar	Mechanical Engineering	Assistant Professor Gr-II
33	Dr. Nidhi Baranwal	Mechanical Engineering	Assistant Professor Gr-II
34	Dr. Jacob Koshy Mulamootil	Mechanical Engineering	Assistant Professor Gr-II
35	Dr. Vijayaraj K.	Mechanical Engineering	Assistant Professor Gr-II
36	Dr. Amit Kumar Rai	Mechanical Engineering	Assistant Professor Gr-II
37	Dr. Raman Namboodiri C. K.	Physics	Assistant Professor Gr-II
38	Dr. Anirban Sarkar	Physics	Assistant Professor Gr-II
39	Dr. Anoop Varghese	Physics	Assistant Professor Gr-II
40	Dr. Natesan Yogesh	Physics	Assistant Professor Gr-II
41	Dr. Sayani Chatterjee	Physics	Assistant Professor Gr-II
42	Dr. Rajasekhara Reddy Katreddy	School of Biotechnology	Assistant Professor Gr-II
43	Dr. Ilanila I. P.	School of Biotechnology	Assistant Professor Gr-II
44	Dr. Sreekanth V. K.	School of Management Studies	Assistant Professor Gr-II
45	Dr. Manju Mahipalan	School of Management Studies	Assistant Professor Gr-II
46	Dr. C. N. Shyam Kumar	School of Materials Science and Engineering	Assistant Professor Gr-II
47	Dr. Aparna Zagabathuni	School of Materials Science and Engineering	Assistant Professor Gr-II
48	Dr. Vinod Erakkara Madhavan	School of Materials Science and Engineering	Assistant Professor Gr-II
49	Ar. Samiksha Srichandan	Architecture and Planning	Assistant Professor Gr-II
50	Dr. Sanil Kumar	Architecture and Planning	Assistant Professor Gr-II
51	Ar. Kiriti Sahoo	Architecture and Planning	Assistant Professor Gr-II
52	Dr. Jayasree T. K.	Architecture and Planning	Assistant Professor Gr-II



53	Dr. Kiruthiga K.	Architecture and Planning	Assistant Professor Gr-II
54	Dr. Susanta Banerjee	Architecture and Planning	Assistant Professor Gr-II
55	Dr. Ahammed Sherief K. Y.	Chemical Engineering	Assistant Professor Gr-II
56	Dr. Ranjith Punathil Meethal	Chemical Engineering	Assistant Professor Gr-II
57	Dr. Shivanandkumar Veeram	Chemical Engineering	Assistant Professor Gr-II
58	Dr. Rohan Bhasker	Civil Engineering	Assistant Professor Gr-II
59	Dr. Anil Kumar	Civil Engineering	Assistant Professor Gr-II
60	Dr. Bhaskar S.	Civil Engineering	Assistant Professor Gr-II
61	Dr. Munavar Fairouz C.	Civil Engineering	Assistant Professor Gr-II
62	Dr. Nishant Mukund Pawar	Civil Engineering	Assistant Professor Gr-II
63	Dr. Bayya Radhika	Civil Engineering	Assistant Professor Gr-II
64	Dr. Resmi S. R.	Civil Engineering	Assistant Professor Gr-II
65	Dr. Anand Babu N. B.	Computer Science and Engineering	Assistant Professor Gr-II
66	Dr. Venkatarami Reddy Chintapalli	Computer Science and Engineering	Assistant Professor Gr-II
67	Dr. Nirmal Kumar Boran	Computer Science and Engineering	Assistant Professor Gr-II
68	Dr. Vivek Mohan	Electrical Engineering	Assistant Professor Gr-II
69	Dr. Sathiya. S.	Electrical Engineering	Assistant Professor Gr-II
70	Dr. Periasamy C.	Electronics and Communication Engineering	Associate Professor
71	Dr. Sanjay Viswanath	Electronics and Communication Engineering	Assistant Professor Gr-II
72	Dr. Nikhil Kumar C. S.	Electronics and Communication Engineering	Assistant Professor Gr-II
73	Dr. Manisha Madhukar Sawant	Electronics and Communication Engineering	Assistant Professor Gr-II
74	Dr. Gaurav Siddharth	Electronics and Communication Engineering	Assistant Professor Gr-II
75	Dr. Sajjan T. John	Mechanical Engineering	Assistant Professor Gr-II
76	Dr. Ilango M.	Mechanical Engineering	Assistant Professor Gr-II
77	Dr. Mohammed Rashad K.	Mechanical Engineering	Assistant Professor Gr-II
78	Dr. Arun Babu Kizhakkiniyakathu	Mechanical Engineering	Assistant Professor Gr-II
79	Dr. Sanjeev Kumar Manjhi	Mechanical Engineering	Assistant Professor Gr-II
80	Dr. R. Prabhu Sekar	Mechanical Engineering	Assistant Professor Gr-II
81	Dr. Pradeepmon T. G.	Mechanical Engineering	Assistant Professor Gr-II
82	Dr. Arindam Bhattacharjee	Mechanical Engineering	Assistant Professor Gr-II
83	Dr. A. V. S. S. H. Sravan Kumar	Mechanical Engineering	Assistant Professor Gr-II
84	Dr. Saudamini Nayak	Mathematics	Assistant Professor Gr-II
85	Dr. Abhay Kumar Chaturvedi	Mathematics	Assistant Professor Gr-II
86	Dr. R. Vijayakumar	Mathematics	Assistant Professor Gr-II
87	Dr. R. Ashok	Mathematics	Assistant Professor Gr-II
88	Dr. S. Saravana Kumar	School of Management Studies	Assistant Professor Gr-II

89	Dr. Vrinda Varma	School of Management Studies	Assistant Professor Gr-II
90	Dr. Saket Chandra	School of Biotechnology	Assistant Professor Gr-II

**FACULTIES RETIRED/ RESIGNED BETWEEN 01.04.2022 TO 31.03.2023**

SL NO	NAME	DEPARTMENT	DESIGNATION
1	Dr. Shashikala A. P.	Civil Engineering	Professor-HAG
2	Dr. Rajendrakumar P. K.	Mechanical Engineering	Professor-HAG
3	Dr. Indira.P. V.	Civil Engineering	Professor-HAG
4	Dr. Muraleedharan C.	Mechanical Engineering	Professor-HAG
5	Dr. Susy Thomas	Electrical Engineering.	Professor
6	Dr. Suman Saha	Civil Engineering	Assistant Professor Gr-II
7	Dr. Srinu Gangolu	Mechanical Engineering	Assistant Professor Gr-II

**3.3. NON-ACADEMIC STAFF**

**NON-TEACHING STAFF JOINED BETWEEN 01.04.2022 TO 31.03.2023**

SL NO	NAME	DESIGNATION
1	Cdr. (Dr.) Shamasundara M. S.	Registrar
2	Smt. Nilina Elais	Assistant Registrar
3	Shri. K. V. Vivek	Assistant Registrar
4	Shri. Dhanesh Rambeth	SAS Officer
5	Shri. V. K. Sreeram	Assistant Registrar
6	Shri. Ajesh M. K.	Assistant Registrar
7	Cdr. Ajayakumar S.	Deputy Registrar
8	Shri. Ramesh S.	Assistant Registrar
9	Shri. Sarathkumar V.	Assistant Registrar

**NON-TEACHING STAFF RETIRED/RESIGNED BETWEEN 01.04.2022 TO 31.03.2023**

SL NO	NAME	DESIGNATION
1	Smt. Pushpavally V.	Office Attendant (SG-I)
2	Shri. Anandan K. R.	Technical Assistant
3	Shri. Pradeep Kumar E.	Technical Assistant (SG-I)
4	Shri. Sasi Kumar K. T.	Senior Superintendent
5	Smt. Sobhana J.	LI Assistant (SG-I)
6	Shri. Venugopalan K. P.	Assistant Engineer (SG-I)
7	Shri. Chandramohanam M. K.	Technical Assistant (SG-I)
8	Shri. Mamukoya M.	Office Attendant (SG-I)
9	Shri. C. P. Hariharan	Senior Technical Officer
10	Shri. Krishnan Kutty V.	Technical Assistant
11	Smt. Saroja T. M.	Office Attendant (SG-I)
12	Smt. Chandrika G.	Superintendent
13	Smt. Prama P.	Senior Superintendent

### 3.4 TRAINING STATUS

#### DEPARTMENT OF ARCHITECTURE

<b>NAME OF FACULTY MEMBER</b>	<b>DETAILS OF TRAINING PROGRAM</b>
Dr. Sanil Kumar	(National online Short-Term Training program on "Open Source Framework_ Delineation of Urban Features from UAV Drone" by Planogramm and CoA-TRC)
Ar. Ritesh Ranjan	12th Training Program on "Science, Technology and Emerging Trends in Governance" Nov 21st to 25th, 2022. DST funded, organized by Indian Institute of Public Administration, New Delhi

#### DEPARTMENT OF CHEMICAL ENGINEERING

<b>NAME OF FACULTY MEMBER</b>	<b>DETAILS OF TRAINING PROGRAM</b>
Dr. V. Sivasubramanian, Dr. Maya Suresh Nair, Dr. Ravikumar Rajarathinam, Dr. Loganathan Arumugam	Bio-Capture and CO <sub>2</sub> sequestration with micro-algae Phormidium Valderianum, Seventh Edition of Global Energy Meet (GEM-2023), March 06-08, 2023, Boston, MA, USA. under PDA
Dr. Sudev Das, Dr. Gireesh Babu, Johnsan R., Dr. Goutam K.	Chandra Nano-size diamonds derived from low-grade n-e india coal for electronic cooling applications.1 <sup>st</sup> International Conference in Fluid, Thermal and Energy Systems (ICFTE'22), NIT Calicut, Kerala
Dr. Sudev Das, Ashutosh K. Jha, Dr. Johnsan R., Dr. Chandra.S. Bestha, Dr. Teja Reddy V.	Prediction of heat transfer performance of heat pipe using machine learning approach, 1 <sup>st</sup> International Conference in Fluid, Thermal and Energy Systems (ICFTE'22), NIT Calicut, Kerala
Dr. Noel Jacob K.	SERB International Travel Support – Oral Presentation: Evaluating the role of nanomaterials in tuning the performance of hydrophobic membranes for membrane distillation, IMSTEC, Melbourne, 4-9 December 2022.
Dr. Noel Jacob K.	Paper Presented: International workshop and conference on Membrane assisted water purification processes Mahatma Gandhi university, Kottayam, Kerala, India, 9-12 March 2023 Organized jointly by School of Energy Materials (SEM) Mahatma Gandhi University, Kottayam, Kerala, India National Research Centre, Cairo, Egypt & Lund University, Sweden supported by PDA

## DEPARTMENT OF CIVIL ENGINEERING

NAME OF FACULTY MEMBER	DETAILS OF TRAINING PROGRAM
Dr. Santosh G. Thampi	<p>Participated in the 9<sup>th</sup> International Groundwater Conference (IGWC-2022) and the pre-conference Workshop at IIT Roorkee during the period 31<sup>st</sup> October – 4<sup>th</sup> November 2022.</p> <p>Attended the 7<sup>th</sup> India Water Impact Summit 2022 organised by the Centre for Ganga River Basin Management and Studies, IIT Kanpur, at the Dr Ambedkar International Centre, New Delhi, during the 15<sup>th</sup> to 17<sup>th</sup> December 2022 and served as a panelist on the theme “Science, Technology, and Policy”.</p> <p>Attended two programs under GIAN - “Water Sensitive Urban Design and Integrated Urban Water Management” during December 19-23, 2022 and “Flow and Contaminant Transport through Subsurface” during February 20-24, 2023 – at the Department of Civil Engineering, IIT Roorkee.</p>
Dr. K. Krishnamoorthy, Dr. Munavar Fairouz C.	<p>Attended the International Conference on Innovative Methods and Practical Applications for Cognizant Transportation Systems (IMPACT 2023) to held at CET Trivandrum during 20th to 22nd, March 2023.</p> <p>Attended a one-day workshop on "Outcome Based Education" organized by the Centre for Holistic Teaching and Learning (CHTL) on January 7th 2023.</p>
Dr. Muhamed Safeer Pandikkadavath	Attended a training on Structural Dynamics and Earthquake Engineering organised by Department of Civil Engineering, IIT Bombay
Dr. Chithra N. R.	Participated in the 14th Dahlia Greidinger International Symposium 2023 at the Technion University, Haifa, Israel.
Dr. S. K. Pramada	<p>Participated in the 9<sup>th</sup> International Groundwater Conference (IGWC-2022) November 02-04, 2022, Roorkee, Uttarakhand, India.</p> <p>Dr. S.K Pramada participated in the International conference (14th Dahlia Greidinger International Symposium 2023) at Technion - Israel Institute of Technology, Haifa, during 27th February to 1st March, 2023.</p>
Dr. Rohan Bhasker	Participated in the Technical Symposium titled “Structural Engineering: The Way Forward”, organized by Department of Civil Engineering, IIT Madras on 9th and 10th February 2023.
Dr. Resmi S. R.	Participated in the one-day workshop on "Outcome Based Education" held on January 7th 2023, organized by the Centre for Holistic Teaching and Learning (CHTL).
Dr. Seethalakshmi P.	Attended the one-day workshop on "Outcome Based Education" organized by the Centre for Holistic Teaching and Learning (CHTL) on January 7th 2023
Dr. Seethalakshmi P.	Participated in the Second International Conference on Construction Materials and Structures (ICCMS-2022) scheduled during 13-19 December 2022

Dr. Seethalakshmi P.	Participated in the Indian Geotechnical Conference Kochi 2022 scheduled during December 2022
Dr. Anantha Singh T. S.	Attended a workshop on Outcome Based Education conducted by Centre for Quality Assurance and Enhancement
Dr. Yogeshwar V. Navandar	Participated in the Workshop on “Outcome Based Education” organized by Centre for Holistic Teaching and Learning, NIT Calicut on 07/01/2023 at NIT Calicut
Dr. Rangaswamy K.	Attended the 17 <sup>th</sup> Symposium on Earthquake Engineering (17SEE) at IIT Roorkee, 14-17 <sup>th</sup> November 2022. Attended 11 <sup>th</sup> Annual Conference on Deep Foundation Technologies for Infrastructure Development in India (DFI-India 2022) at Tirupati organized by IIT Tirupati and IGS Tirupati, 15-17 <sup>th</sup> September 2022 Participated in the Indian Geotechnical Conference 2022: Geotechnical learning, evaluation, analysis & Practice (GEOLEAP) at Kochi, 15-17 <sup>th</sup> December 2022.
Dr. Madhavan K.	Attended the one-day workshop on "Outcome Based Education" organized by the Centre for Holistic Teaching and Learning (CHTL) on January 7th 2023.

#### DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

NAME OF FACULTY MEMBER	DETAILS OF TRAINING PROGRAM
Dr. Pournami P. N.	Online Webinar on "Resolving Cross-Hospital Variation Effects in AI-based Pathology Image Analysis", IEEE Computational Intelligent Society, March 2023
	SERB-DRDO sponsored Workshop on "Mathematics for Artificial Intelligence" January 16 - 20, 2023" organised by Department of Mathematics, NIT Calicut, Kerala
	2-Day workshop on "Artificial Intelligence in Medical Diagnostics" at the Department of Surgical Gastroenterology, JIPMER, Puducherry, Nov 2022
	"Medical Imaging modalities, Physics and their clinical application" by Dr. Ashok Pillai, Clinical Professor at the Department of Neurosurgery, Amrita Institute of Medical Science (AIMS), Kochi, Kerala as part of the co-teaching activity of the ECE Department, NITC, Nov 2022
Dr. Priya Chandran	38th ACM/SIGAPP Symposium on Applied Computing, Tallinn, Estonia, 27 - 31 March 2023
Dr. Madhu Kumar	38th ACM/SIGAPP Symposium on Applied Computing, Tallinn, Estonia, 27 - 31 March 2023
Dr. Hiran.V. Nath	FDP on “Security in Computing” Organized by Department of Computer Science and Engineering, Mar Baselios College of Engg and Technology, 24 Feb 2023
Dr. M. Prabu	National programme on “Management of Technology and Innovation” Sponsored by Department of Science and Technology, Govt of India,

	New Delhi, Organized by Institute of Public Enterprise, Hyderabad, 06-10 Feb 2023
Dr. Nirmal Kumar Boran	Japan Indian Joint Research Hub Project Workshop.Supported by JST AND DST, IIT Bombay, 08 Feb 2023
Dr. Anil Pinapati	Artificial Intelligence For Social Media Content Extraction, Analysis And Recommendation Systems, NIT Trichy, April 18-22, 2022

#### DEPARTMENT OF MECHANICAL ENGINEERING

NAME OF FACULTY MEMBER	DETAILS OF TRAINING PROGRAM
Dr. Simon Peter	FMFP2022, IIT Roorkee
Dr. Sajan.T. John	28 <sup>th</sup> edition of the CII (Confederation of Indian Industry) Partnership Summit
Dr. Jacob Koshy Mulamooti	22 <sup>nd</sup> Annual Conference of Institute for Liquid Atomization and Spray Systems-Asia, IIT Indore
Dr. Mohammed Rashad K.	Innovations and Translational Research (PDC-IT), a workshop under the aegis of Indo-German Science and Technology Centre (IGSTC), IIT Madras
Dr. Jose Mathew	COPEN 12, IIT Kanpur; ARDB Meet, DMRL, DRDO, Hyderabad; IMTEX Seminar, IMTMA Bangalore
Dr. Murali K. P.	3 <sup>rd</sup> International conference on Advances in Physical Sciences and Materials (ICAPSM 2022), KPR Institute of Engineering and Technology, Coimbatore
Dr. Sharu B. K.	Workshop on Advances in 3D Concrete Printing, IIT Madras
Dr. Vinay V. Panicker	Business Analytics using Tableau, Python and Excel workshop, CET School of Management and Analytics Society of India, CET Campus – Trivandrum; 28th ed. of The CII Partnership Summit
Dr. V. Madhusudanan Pillai	Management of risk and resilience in Post Pandemic Supply Chain, IIM Bangalore; Modern Technologies in Autonomous Driving Perception, AI Club of NITC; 66th IIIE Foundation Day – expert talk on Sustainability in Your Backyard: Lifestyle Choices and Green Work Systems, (IIIE) Kozhikode Chapter at NIT Calicut
Dr. Basil Kuriachen	International Conference on Additive manufacturing, ASTM international
Dr. Sumer. B. Dirbude	3 <sup>rd</sup> Biennial International Conference on Future Learning Aspects of Mechanical Engineering (FLAME - 2022), Amity University, Noida

#### DEPARTMENT OF ELECTRICAL ENGINEERING

NAME OF FACULTY MEMBER	DETAILS OF TRAINING PROGRAM
Dr. V. Karthikeyan	Participated in International Conference on Automation, Signal Processing, Instrumentation and Control (iCASIC 2022) held on 28th & 29th November 2022 at Taylor's University, Malaysia in association with Vellore Institute of Technology, Vellore, India.

Dr. Mithun M. S.	Workshop on Outcome Based Education on 07.01.23 held at NITC
Dr. Subha D. Puthankattil	Artificial Intelligence in medical diagnostics, 25-26, November 2022, JIPMER Puducherry Brain Computation and Learning, 9-13 January 2023, IISC Bangalore IEEE EMBS summer school on Neural Engineering July 25-29, 2022 by Shanghai China (online)
Dr. Rakesh R. Warier	6 <sup>th</sup> Cyber-Physical Systems Symposium will be hosted by Robert Bosch Centre for Cyber-Physical Systems, IISc, 28 <sup>th</sup> -30 <sup>th</sup> July, 2022 “Do Drone” Workshop, IISc Bangalore, 16-18, November, 2022 8 <sup>th</sup> Indian Control Conference, 14-16. December, 2022
Dr. Jagadanand G.	2022 IEEE International Conference on Industry 4.0, Artificial Intelligence, and Communications Technology (IAICT), July 28-July 30, Bali, Inodensia
Dr. Kumaravel S.	IEEE International Conference on INDICON 2022, CUSAT, Cochin IEEE International Conference on Power Electronics Drives and Energy Systems 2022, MNIT, Jaipur IEEE International Conference on DELCON 2022, New Delhi
Dr. Subhash K. M.	Brain Computation and Learning, 9-13 January 2023, IISC Bangalore Workshop on Mathematics for Artificial Intelligence (MAI2023) Department of Mathematics, NIT Calicut January 16-20, 2023
Dr. Sanjay M.	Five day Online Workshop on Advances in Mechanical Engineering for Biomedical Applications, Department of Mechanical Engineering, National Institute of Technology Karnataka, Surathkal, July 11 – 15, 2022
Dr. Sathiya S.	“National Small industries corporation Ltd, Technical Service Centre organized “Two weeks industrial training program on Robotics” from 7 to 21 February 2023.
Dr. Angshudeep Majumdar	Workshop on Outcome Based Education on 07.01.23 held at NITC Workshop on Electric Vehicles from 03.03.2023 to 05.03.2023 held at NITC Certificate program on Electric Vehicle Components and Fundamentals by Skill Lync on 02.03.2023

#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION

NAME OF FACULTY MEMBER	DETAILS OF TRAINING PROGRAM
Dr. Gopi Krishna S.	IEEE EDS workshop on Devices and Circuits (WDC 2023), Khajuraho, January 26-28, 2023
Dr. Nikhil Kumar C. S.	FDP on Python and SDR at GEC Thrissur, Feb 17 2023
Dr. Srinivasarao C.	Faculty Industrial Training Program at Analog Devices, Bangalore (15/12/2022 -16/12/2022)

Dr. Jailsingh Bhookya	IIT Kanpur Intensive Training School on PYTHON for Machine Learning Neural Networks and Deep Learning, 10th to 30th September, 2022
Dr. Chandan Yadav	IEEE EDS workshop on Devices and Circuits (WDC 2023), Khajuraho, January 26-28, 2023
Dr. Sudeep P. V.	Karmayogi training on Code of conduct for Government Employees by Institute of Secretariat Training and Management 24 Dec 2023

#### DEPARTMENT OF MECHANICAL ENGINEERING

NAME OF FACULTY MEMBER	DETAILS OF TRAINING PROGRAM
Dr. V. Madhusudanan Pillai	<p>Webinar on Automated Logistics Solutions to improve Productivity organized by VDMA India Services Private Limited, German Engineering Federation (VDMA) on 18-06-2021</p> <p>Webinar on Making Sense of Bitcoin, Cryptocurrency and Blockchain organized by CENTRE FOR SOCIETY AND POLICY, IISC on 23 July 2021</p> <p>Professor Ravi Ravindran Endowment Lecture Program organized by INDIAN INSTITUTE OF MATERIALS MANAGEMENT BANGALORE BRANCH on 11-09-2021</p> <p>Application of the trans theoretical model of change to examine LPG use in rural India organized by IIM Ahmedabad on 25-10-2021</p> <p>How to secure a patent before publication? organized by IPR Cell NIT Calicut on 25-06-2021</p> <p>Connecting start-ups and Mechanical Engineering for catalyzing growth organized by VDMA India Services Private Limited, German on 18-01-2022</p> <p>IP Awareness/Training program organized by National Intellectual Property Awareness Mission on 17-02-2022</p> <p>Customs Bonded Warehouse (MOOWR Scheme) organized by INDIAN INSTITUTE OF MATERIALS MANAGEMENT BANGALORE BRANCH on 18-03-2022</p> <p>Research smarter and maximize your IP creation organized by Clarivate on 22-03-2022</p>
Dr. Vineesh K. P.	Participated in the Faculty development program “How teachers can make a difference” organized by IIT Madras during July 19-24-2021

#### DEPARTMENT OF CHEMISTRY

NAME OF FACULTY MEMBER	DETAILS OF TRAINING PROGRAM
Dr. Suni Vasudevan	She was nominated to participate in the 11th Training Programme on “Science & Technology for Rural Societies” for Women Scientists and Technologists, sponsored by DST, India, during December 19-23, 2022
Dr. Muniyandi Sankaralingam	He has been awarded the Guest Researcher to visit University Paris City, Paris, France



## DEPARTMENT OF BIOTECHNOLOGY

NAME OF FACULTY MEMBER	DETAILS OF TRAINING PROGRAM
Dr. Baiju G. Nair	BRIDGE Fellowship, 2022-23 By JSPS.

### 3.5 PLACEMENT OF STAFF FOR ACADEMIC EXCELLENCE

## DEPARTMENT OF ARCHITECTURE

SL. NO	NAME	ACADEMIC EXCELLENCE
1	Dr. Mohammed Firoz C.	Deputed at Asian Institute of Technology Bangkok for one semester

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION

SL. NO	NAME	ACADEMIC EXCELLENCE
1	Dr. B. Bhuvan	Completed Ph.D. under QIP scheme at IIT Delhi

## DEPARTMENT OF MECHANICAL ENGINEERING

SL. NO.	NAME	ACADEMIC EXCELLENCE
1	Dr. V. Madhusudanan Pillai	Justin Sunny, Naveen Undralla and V. Madhusudanan Pillai, (2020), Supply Chain Transparency through Blockchain-Based Traceability: An Overview with Demonstration. Computers and Industrial Engineering, Vol. 150, 106895. The above article was the most downloaded articles from the international journal - Computers & Industrial Engineering in the last 90days. This information was obtained from the website of the journal when accessed on 05/09/2022 and the website shows even now the article is the most downloaded article when accessed on 14-06-2023.
2	Dr. Basil Kuriachen	SERB's SIRE fellowship, Auburn University, USA, 01 <sup>st</sup> September 2022 to 28 <sup>th</sup> Feb 2023

## DEPARTMENT OF ELECTRICAL ENGINEERING

SL. NO.	NAME	ACADEMIC EXCELLENCE
1	Dr. Subhash K. M.	Received Ph.D. from Department of Electrical Engineering

#### 4. FINANCE AND ACCOUNTS

##### 4.1 ANALYSIS OF PLAN AND NON-PLAN GRANTS

PARTICULARS	Rs. in lakhs			
	2019-2020	2020-2021	2021-2022	2022-2023
Govt. of India –Grant (Non-Plan)	11640.10	13636.59	11640.10	18363.91
State Govt. Grant (Non-Plan)	-	-	-	-
Govt. of India Grant (Plan-General)	362.56	500	744	2858
Govt. of India (Plan-OSC)	-	-	-	-

##### 4.2 EXPENDITURE POSITION FOR LAST THREE YEARS

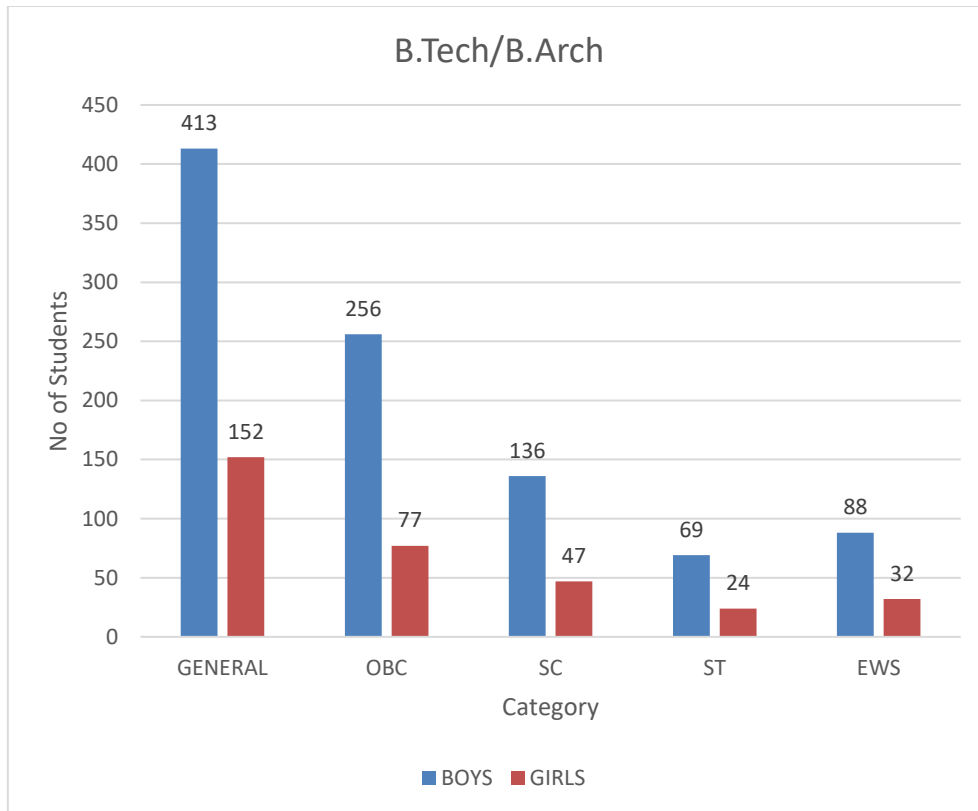
PARTICULARS	Rs. in lakhs			
	2019-2020	2020-2021	2021-2022	2022-2023
Expenditure	866.13	699.67	862	211772.23
Expenditure - Non-Plan	14693.7	14879.43	15056.29	18363.91

#### 5. ACADEMIC PROGRAMMES AND AWARD OF DEGREES

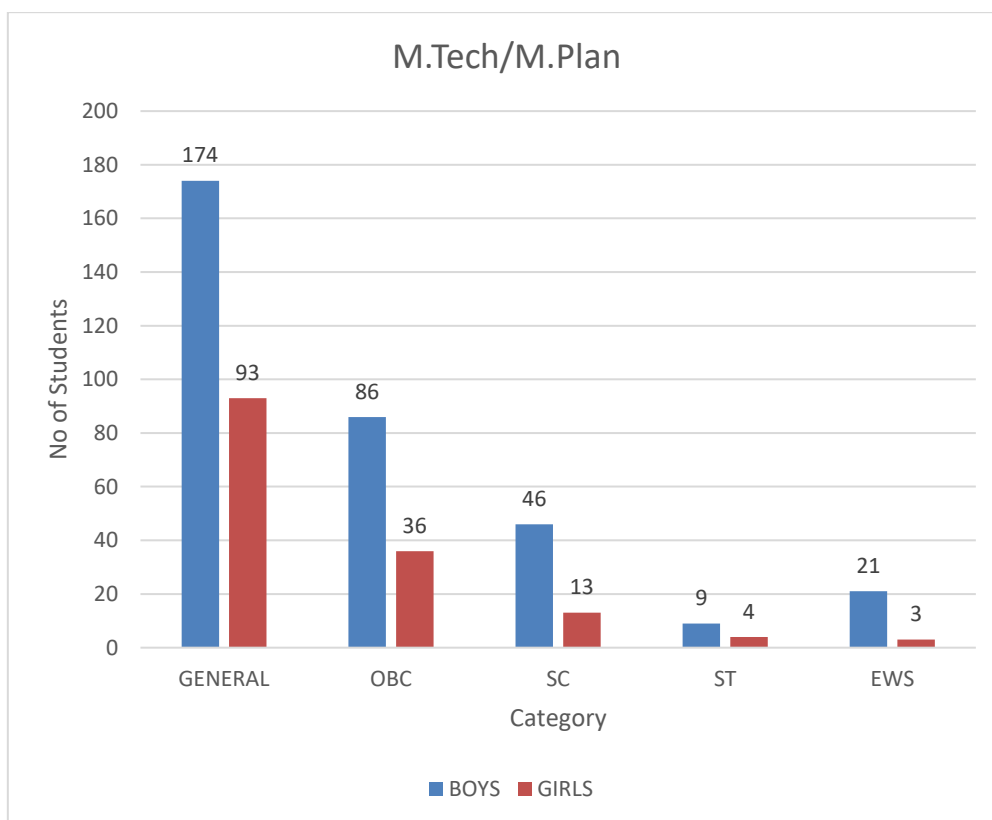
##### 5.1 COURSE WISE ENROLMENT WITH GENDER, CATEGORY, BREAK UP 2022-2023

Level	OPEN		OBC		SC		ST		EWS		DASA / ICCR / SII / MEA		Total
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	
<b>B. Tech / B. Arch</b>	413	152	256	77	136	47	69	24	88	32	39	32	1365
<b>M.Tech. / M.Plan.</b>	174	93	86	36	46	13	9	4	21	3	Nil	Nil	485
<b>MBA</b>	17	13	12	6	0	0	0	0	1	0	Nil	Nil	49
<b>M. Sc</b>	21	39	15	5	5	5	1	0	5	2	Nil	Nil	98
<b>Ph. D.</b>	74	93	21	49	7	16	0	2	2	1	Nil	Nil	265
<b>Total</b>	<b>286</b>	<b>238</b>	<b>134</b>	<b>96</b>	<b>58</b>	<b>34</b>	<b>10</b>	<b>6</b>	<b>29</b>	<b>6</b>	Nil	Nil	<b>897</b>

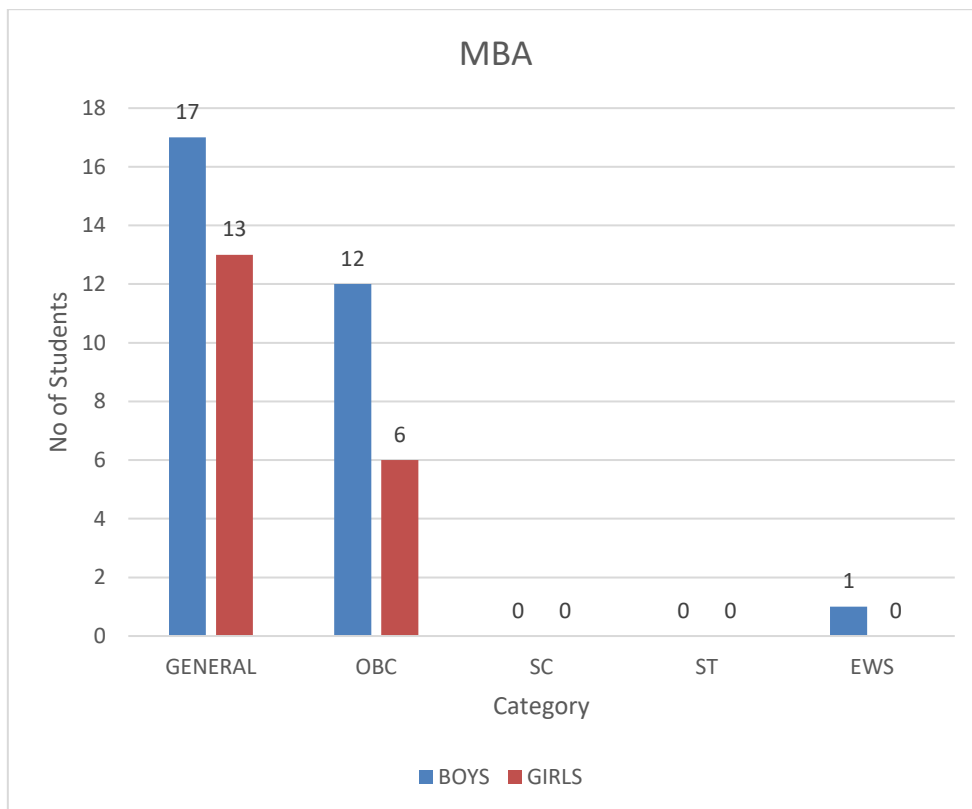
Student admission: Gender-wise



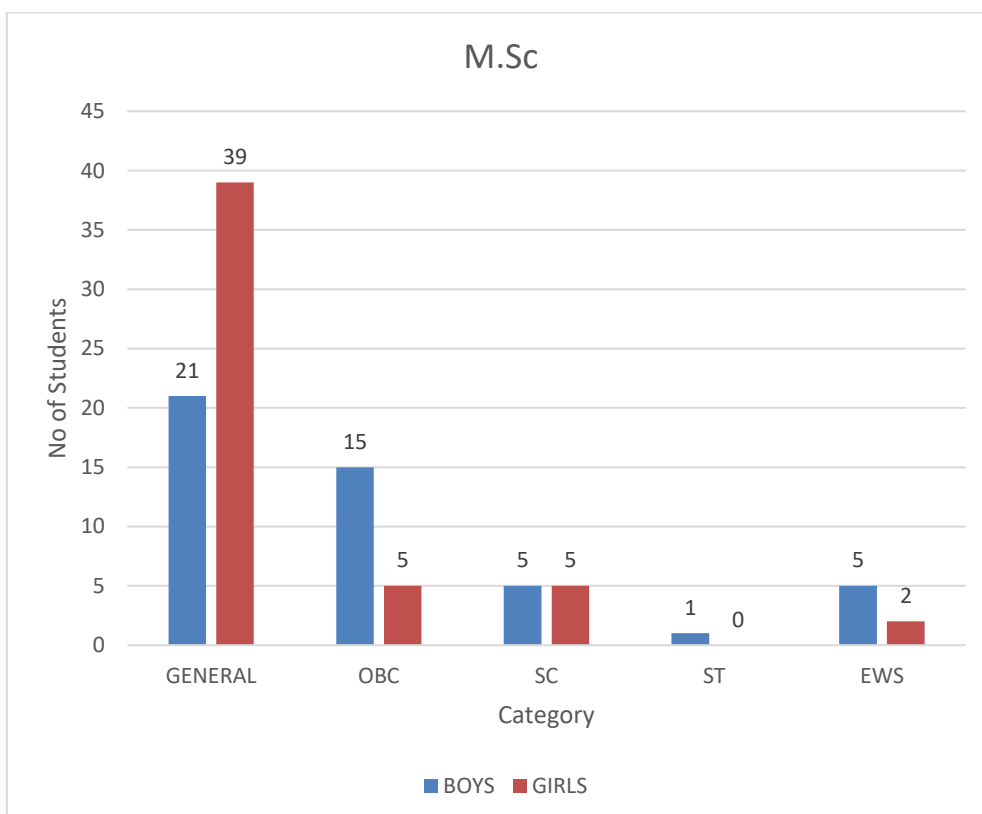
Category-wise and Gender-wise B.Tech / B.Arch students admitted in 2022-23



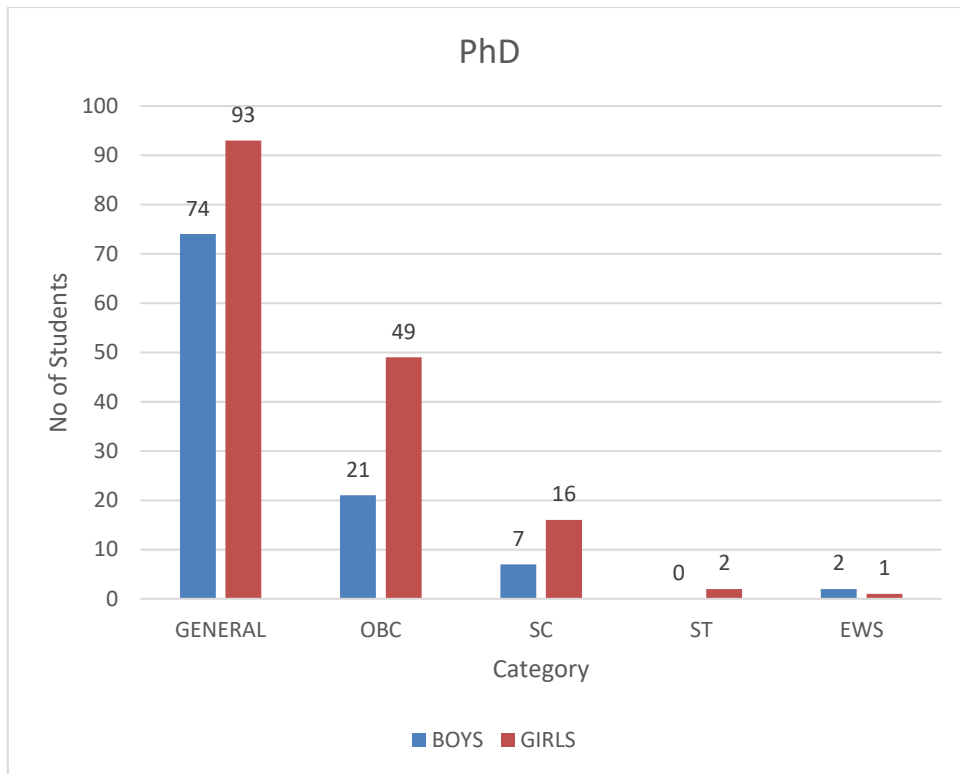
Category-wise and Gender-wise M.Tech / M.Plan students admitted in 2022-23



Category -wise and Gender-wise MBA students admitted in 2022-23

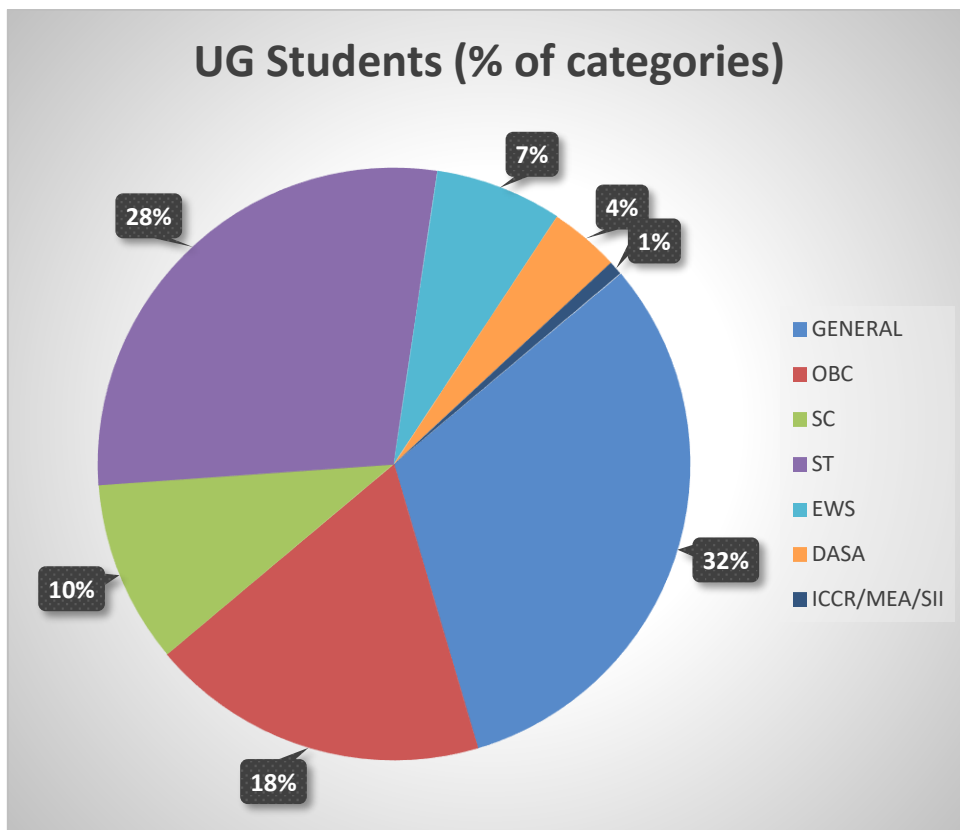


Category-wise and Gender-wise M.Sc. students admitted in 2022-23

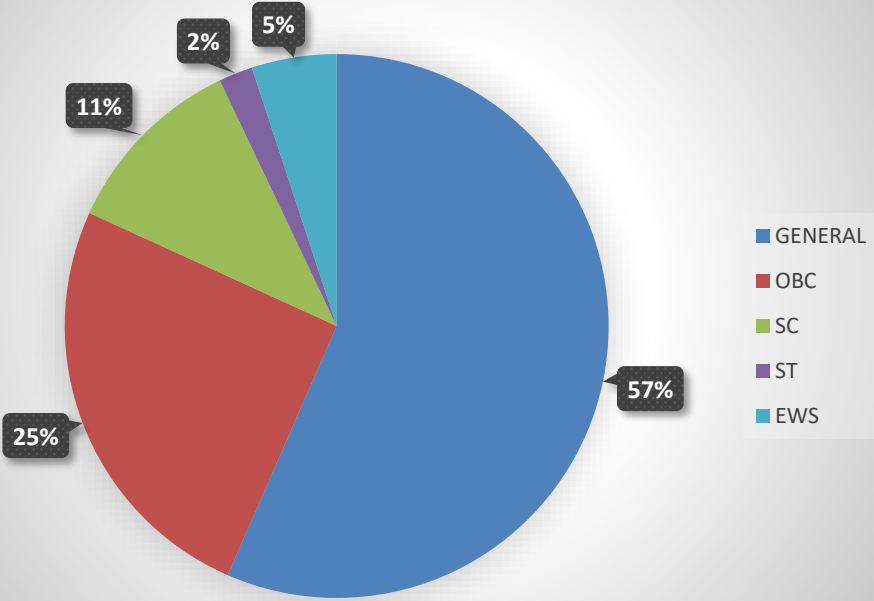


Category-wise and Gender-wise Ph.D. students admitted in 2022-23

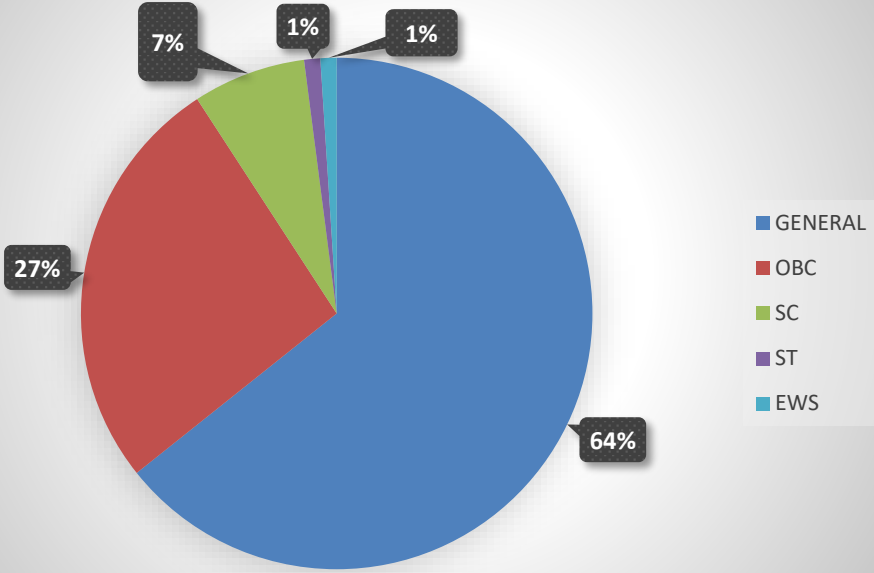
Student admission: Category-wise



**PG Students (% of categories)**



**Ph.D Students (% of categories)**



## 5.2 ADMISSION STATISTICS – UG/PG PROGRAMMES, COURSE – WISE

### 5.2.1 1<sup>st</sup> Semester B. Tech./B. Arch – 2022-2023

SPECIALISATION	OP	OP (PH)	OP (EWS)	OP(EWS)PH	OP (OB)	OP (OB) PH	OP (SC)	OP (SC) PH	EWS	EWS(PH)	OB	OB(PH)	SC	SC(PH)	ST	ST(PH)	DASA	SII	ICCR	MEA(WELFARE)	SUPERNUMERARY	TOTAL	MALE	FEMALE	TOTAL
Architecture	11	1	1	0	9	1	0	0	1	0	6	0	16	0	9	0	4	0	3	0	1	0	0	63	27
Biotechnology	9	0	0	0	5	0	0	0	0	0	3	0	10	0	5	0	3	0	2	0	1	0	0	38	18
Civil Engg.	31	0	7	0	29	1	0	0	0	0	15	0	43	1	26	0	13	0	5	0	0	0	2	173	121
Chemical	26	0	7	0	11	1	0	0	0	0	12	0	30	1	17	0	8	0	2	0	0	0	0	115	90
Computer Science and Engg.	47	2	9	0	13	1	0	0	0	0	18	0	46	2	26	0	11	1	21	2	0	0	2	201	157
Electrical Engg.	49	1	3	0	12	1	0	0	0	0	16	1	44	3	25	1	13	0	7	0	0	0	0	176	139
Electronics and Communication	47	3	10	0	8	1	0	0	0	0	17	1	47	1	23	0	13	0	21	1	0	0	1	194	147
Engineering Physics	8	0	1	0	5	0	0	0	0	0	2	0	10	0	6	0	3	0	2	0	0	0	0	37	27
Materials Science & Engg.	5	1	1	0	4	0	0	0	0	0	3	0	8	0	5	0	2	0	0	0	0	0	0	29	23
Mechanical Engg.	45	1	6	0	27	0	0	0	0	0	20	0	54	1	32	0	16	0	8	0	0	1	1	212	169
Production Engg.	15	1	2	0	3	0	0	0	0	0	6	0	16	0	8	0	4	0	0	1	0	0	0	56	44
<b>Total</b>	<b>293</b>	<b>10</b>	<b>47</b>	<b>0</b>	<b>126</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>118</b>	<b>2</b>	<b>324</b>	<b>9</b>	<b>182</b>	<b>1</b>	<b>90</b>	<b>1</b>	<b>71</b>	<b>4</b>	<b>2</b>	<b>1</b>	<b>6</b>	<b>1294</b>	<b>962</b>

5.2.2 1<sup>st</sup> Semester M. Tech/M. Plan 2022-2023

Department	Gate Qualified											SELF-SP	SP	QIP	QIP (POLY)	DASA	ICCR	SII	Male	Female	Total
	Branch	OP	OP-PH	OBC	OBC-PH	SC	SC-PH	ST	ST-PH	EWS	EWS-PH										
Architecture	AR61	7	0	4	0	2	0	1	0	0	0	10	0	0	0	0	0	0	7	17	24
Civil Engineering	CE61	10	0	7	0	4	0	1	0	1	0	5	0	0	0	0	0	0	13	15	28
	CE62	10	0	7	0	3	0	0	0	0	0	5	0	0	0	0	0	0	9	16	25
	CE63	10	0	6	0	0	0	0	0	0	0	5	0	0	0	0	0	0	9	12	21
	CE64	10	0	6	0	3	0	0	0	1	0	5	0	0	1	0	0	0	15	11	26
	CE65	6	0	1	0	0	0	0	0	0	0	0	5	0	0	0	0	0	5	7	12
Chemical Engineering	CH61	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	2
Computer Science and Engineering	CS61	10	0	6	0	4	0	2	0	3	0	3	0	0	1	0	0	0	18	11	29
	CS62	9	0	7	0	3	0	2	0	2	0	0	0	0	0	0	0	0	18	5	23



<b>Electronics and Communicati on Engineering</b>	<b>EC61</b>	10	0	7	0	4	0	0	0	2	0	2	0	0	1	0	1	0	<b>17</b>	<b>10</b>	<b>27</b>
	<b>EC62</b>	10	0	7	0	4	0	1	0	2	0	5	1	0	1	0	0	0	<b>23</b>	<b>8</b>	<b>31</b>
	<b>EC63</b>	7	0	4	0	2	0	0	0	2	0	1	0	0	0	0	0	0	<b>13</b>	<b>3</b>	<b>16</b>
	<b>EC64</b>	2	0	4	0	3	0	0	0	1	0	0	0	0	0	0	0	0	<b>9</b>	<b>1</b>	<b>10</b>
<b>Electrical Engineering</b>	<b>EE61</b>	10	0	7	0	4	0	1	0	2	0	2	0	0	0	0	0	0	<b>17</b>	<b>9</b>	<b>26</b>
	<b>EE62</b>	9	0	6	0	3	0	0	0	1	0	1	0	0	1	0	0	0	<b>18</b>	<b>3</b>	<b>21</b>
	<b>EE63</b>	10	0	7	0	4	0	2	0	2	0	3	0	0	0	0	0	0	<b>22</b>	<b>6</b>	<b>28</b>
	<b>EE64</b>	10	0	1	0	4	0	1	0	0	0	3	0	0	0	0	0	0	<b>13</b>	<b>5</b>	<b>19</b>
	<b>EE65</b>	3	0	1	0	1	0	1	0	0	0	0	0	0	2	0	0	0	<b>7</b>	<b>1</b>	<b>8</b>
<b>Mechanical Engineering</b>	<b>ME61</b>	10	0	7	0	2	0	0	0	1	0	0	0	0	1	0	0	0	<b>20</b>	<b>1</b>	<b>21</b>
	<b>ME62</b>	10	0	7	0	4	0	0	0	2	0	2	0	0	0	0	0	0	<b>25</b>	<b>1</b>	<b>25</b>
	<b>ME63</b>	10	0	6	0	1	0	0	0	0	0	3	0	0	0	1	0	0	<b>20</b>	<b>1</b>	<b>21</b>
	<b>ME64</b>	8	0	1	0	1	0	0	0	0	0	1	0	0	1	0	0	0	<b>11</b>	<b>1</b>	<b>12</b>
	<b>ME65</b>	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>8</b>	<b>0</b>	<b>8</b>

	<b>ME66</b>	7	0	4	0	2	0	1	0	2	0	2	0	0	0	0	0	0	14	4	18
<b>School of Materials Science and Engineering</b>	<b>MT61</b>	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	3	1	4
<b>Total</b>		<b>194</b>	<b>0</b>	<b>118</b>	<b>0</b>	<b>58</b>	<b>0</b>	<b>13</b>	<b>0</b>	<b>24</b>	<b>0</b>	<b>66</b>	<b>1</b>	<b>0</b>	<b>9</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>336</b>	<b>149</b>	<b>485</b>

### 5.2.3 M. Sc, MCA & Ph.D. 2022-2023

Department	Branch	OP	OP-PH	OBC	OBC-PH	SC	ST	EWS	Total	Self SP	SP	QIP	QIP (POLY)	DASA	ICR	SIH	Total		Total
																	Male	Female	
<b>Mathematics (MA62)</b>	<b>M. Sc</b>	10	0	6	1	3	1	2	23	10	0	0	0	0	0	0	15	18	33
<b>Physics (PH62)</b>		10	0	6	0	4	0	2	22	10	0	0	0	0	0	0	19	13	32
<b>Chemistry (CY62)</b>		10	0	7	0	3	0	3	23	10	0	0	0	0	0	0	13	20	33
<b>SOMS</b>	<b>MBA</b>	30	0	18	0	0	0	1	49	0	0	0	0	0	0	0	30	19	49

Ph.D. 22- 23	Category															Scheme																		
	OPE N		EWS		OBC		SC		SC- PwD		ST		ST- PwD		Total	Full Time		FullT ime (*Oth ers)		SP		SELF -SP		Part Time		Inter nal		Exter nal		QIP		QIP (POL Y)		Total
Dept	M	F	M	F	M	F	M	F	M	F	M	F	M	F		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F			
<b>AR</b>	1	17	1	0	1	10	0	1	0	1	0	0	0	1	<b>33</b>	1	8	0	0	0	0	0	4	0	0	1	0	1	18	0	0	0	0	<b>33</b>
<b>BT</b>	4	7	0	0	1	3	0	2	0	0	0	0	0	0	<b>17</b>	2	6	0	3	0	0	0	1	0	0	0	0	3	2	0	0	0	0	<b>17</b>
<b>CH</b>	3	2	0	0	0	0	0	0	0	0	0	0	0	0	<b>5</b>	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	0	<b>5</b>
<b>CE</b>	5	17	0	0	3	10	0	4	0	0	0	0	0	0	<b>39</b>	4	1 1	0	0	0	0	1	5	0	0	0	1	2	13	0	1	1	0	<b>39</b>
<b>CS</b>	6	7	0	0	1	6	0	2	0	0	0	0	0	0	<b>22</b>	1	3	0	2	0	0	0	1	0	0	0	1	6	7	0	0	0	1	<b>22</b>
<b>CY</b>	3	7	0	0	1	5	0	0	0	0	0	0	0	0	<b>16</b>	1	7	0	2	0	0	0	4	0	0	0	0	2	0	0	0	0	0	<b>16</b>
<b>PH</b>	3	3	0	0	0	1	1	0	0	0	0	1	0	0	<b>9</b>	2	3	1	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	<b>9</b>
<b>EE</b>	11	10	0	0	3	2	0	4	0	0	0	0	0	0	<b>30</b>	4	3	0	1	0	0	0	5	0	0	0	0	9	6	1	1	0	0	<b>30</b>
<b>EC</b>	9	10	0	0	2	5	2	1	0	0	0	0	0	0	<b>29</b>	6	5	0	1	0	1	2	1	0	0	0	0	4	7	1	1	0	0	<b>29</b>
<b>MA</b>	5	7	1	0	2	4	0	0	0	0	0	0	0	0	<b>19</b>	4	4	2	6	0	0	2	1	0	0	0	0	0	0	0	0	0	0	<b>19</b>
<b>ME</b>	18	2	0	0	5	0	2	0	0	0	0	0	0	0	<b>27</b>	7	1	0	0	0	0	2	0	0	0	2	0	11	1	2	0	1	0	<b>27</b>
<b>MT</b>	1	2	0	0	1	0	1	1	0	0	0	0	0	0	<b>6</b>	3	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	<b>6</b>
<b>SOMS</b>	5	2	0	0	2	3	1	0	0	0	0	0	0	0	<b>13</b>	2	1	0	3	0	0	0	1	0	0	1	0	5	0	0	0	0	0	<b>13</b>
<b>Total</b>	<b>74</b>	<b>93</b>	<b>2</b>	<b>0</b>	<b>22</b>	<b>49</b>	<b>7</b>	<b>15</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>265</b>	<b>38</b>	<b>55</b>	<b>3</b>	<b>18</b>	<b>0</b>	<b>1</b>	<b>7</b>	<b>26</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>2</b>	<b>44</b>	<b>55</b>	<b>4</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>265</b>

## 5.3

## Student's Total strength

## 5.3.1

## B. Tech/B. Arch

Branch	OP			OP(PH)			OP(EWS)			OP(EWS)PH			OP(OB)			OP(OB)PH			OP(SC)			OP(SC)PH			OP(ST)			OP(ST)PH			EWS			EWS(PH)				
	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	M	F	T	M	F	T	M	F	T	M	F
AR	1	10	11	1	0	1	1	0	1	0	0	0	4	5	9	0	1	1	0	0	0	0	0	0	1	0	1	0	0	0	3	3	6	0	0	0		
BT	6	3	9	0	0	0	0	0	0	0	0	0	1	4	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	0	0	0		
CE	20	11	31	0	0	0	5	2	7	0	0	0	21	8	29	1	0	1	0	0	0	0	0	0	0	0	0	0	0	12	3	15	0	0	0			
CH	22	4	26	0	0	0	7	0	7	0	0	0	7	4	11	1	0	1	0	0	0	0	0	0	0	0	0	0	0	9	3	12	0	0	0			
CS	38	9	47	1	1	2	7	2	9	0	0	0	12	1	13	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
EE	42	7	49	0	1	1	2	1	3	0	0	0	9	3	12	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
EC	35	12	47	2	1	3	10	0	10	0	0	0	8	0	8	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
EP	5	3	8	0	0	0	1	0	1	0	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
MT	4	1	5	1	0	1	1	0	1	0	0	0	3	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
ME	37	8	45	1	0	1	4	2	6	0	0	0	20	7	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
PE	13	2	15	1	0	1	2	0	2	0	0	0	2	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<b>Total</b>	<b>223</b>	<b>70</b>	<b>293</b>	<b>7</b>	<b>3</b>	<b>10</b>	<b>40</b>	<b>7</b>	<b>47</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>92</b>	<b>34</b>	<b>126</b>	<b>3</b>	<b>3</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>87</b>	<b>31</b>	<b>118</b>	<b>1</b>	<b>1</b>	<b>2</b>		

Branch	OBC			OBC(PH)			SC			SC (PH)			ST			ST (PH)			DASA			SII			ICCR			MEA (WELFARE)			SUPER NUMERARY			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	M	F	T	M	F	T	M	F	T
<b>AR</b>	7	9	16	0	0	0	6	3	9	0	0	0	2	2	4	0	0	0	0	3	3	0	0	0	1	0	1	0	0	0	0	0	0	27	36	63
<b>BT</b>	5	5	10	0	0	0	3	2	5	0	0	0	2	1	3	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	0	0	0	18	20	38
<b>CE</b>	31	12	43	1	0	1	20	6	26	0	0	0	8	5	13	0	0	0	2	3	5	0	0	0	0	0	0	0	0	0	0	2	2	121	52	173
<b>CH</b>	24	6	30	1	0	1	12	5	17	0	0	0	7	1	8	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	90	25	115
<b>CS</b>	38	8	46	1	1	2	21	5	26	0	0	0	9	2	11	1	0	1	14	7	21	1	1	2	0	0	0	0	0	0	1	1	2	157	44	201
<b>EE</b>	38	6	44	1	2	3	17	8	25	1	0	1	9	4	13	0	0	0	6	1	7	0	0	0	0	0	0	0	0	0	0	0	0	139	37	176
<b>EC</b>	39	8	47	0	1	1	19	4	23	0	0	0	11	2	13	0	0	0	8	13	21	1	0	1	0	0	0	0	0	0	1	0	1	147	47	194
<b>EP</b>	7	3	10	0	0	0	3	3	6	0	0	0	3	0	3	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	27	10	37
<b>MT</b>	6	2	8	0	0	0	3	2	5	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	6	29
<b>ME</b>	43	11	54	1	0	1	25	7	32	0	0	0	13	3	16	0	0	0	7	1	8	0	0	0	0	0	0	1	0	1	1	0	1	169	43	212
<b>PE</b>	13	3	16	0	0	0	6	2	8	0	0	0	2	2	4	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	44	12	56
<b>Total</b>	<b>251</b>	<b>73</b>	<b>324</b>	<b>5</b>	<b>4</b>	<b>9</b>	<b>135</b>	<b>47</b>	<b>182</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>68</b>	<b>22</b>	<b>90</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>39</b>	<b>32</b>	<b>71</b>	<b>3</b>	<b>1</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>6</b>	<b>962</b>	<b>332</b>	<b>1294</b>

5.3.2 1<sup>st</sup> Semester M. Tech. M. Plan 2022-23

Sl. No	Branch	OP		OP-PH		OBC		OBC-PH		SC		SC-PH		ST		ST-PH		EWS		EWS-PH		SP		QIP		QIP (POLY)		DASA		ICCR		Total (M)		Total (F)	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
1	AR61	2	5	0	0	1	3	0	0	1	1	0	0	0	1	0	0	2	0	0	0	1	0	0	0	0	0	0	0	1	0	8	10		
1	CE61	7	3	0	0	4	3	0	0	4	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	2	0	0	1	0	0	21	7		
2	CE62	7	3	0	0	4	3	0	0	3	0	0	0	2	0	0	0	2	1	0	0	0	0	0	0	1	0	0	2	0	20	8			
3	CE63	8	4	0	0	3	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	8			
4	CE64	4	7	0	0	1	5	0	0	1	3	0	0	2	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	9	16			
5	CE65	6	2	0	0	5	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	3			
1	CH61	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2			
1	CS61	8	3	0	0	4	2	0	0	4	0	0	0	2	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	19	6			
2	CS62	8	2	0	0	5	2	0	0	4	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	18	7			
1	EC61	1	0	0	0	7	0	0	0	4	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	23	2			
2	EC62	1	0	0	0	7	0	0	0	4	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	23	2			
3	EC63	4	3	0	0	3	1	0	0	1	1	0	0	0	1	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	11	6			

4	EC64	6	0	0	0	4	0	0	0	2	1	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	1
1	EE61	9	1	0	0	4	3	0	0	3	1	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	5
2	EE62	9	1	0	0	6	1	0	0	3	1	0	0	1	0	0	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	23	3	
3	EE63	6	4	0	0	5	2	0	0	3	1	0	0	1	1	0	0	2	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	20	8	
4	EE64	8	2	0	0	4	2	0	0	3	1	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	18	6		
5	EE65	5	3	0	0	3	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	5	
1	ME61	8	2	0	0	7	0	0	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	21	2	
2	ME62	1 0	0	0	0	7	0	0	0	4	0	0	0	1	1	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	25	1	
3	ME63	1 0	0	0	0	6	0	0	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	22	0	
4	ME64	1 6	1	0	0	2	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	2
5	ME65	1 3	0	0	0	1	0	0	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	0	17	0
6	ME66	7	1	0	0	3	1	0	0	2	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	2
1	MT61	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	

5.3.3 M. Tech./ M.Plan., MCA, MBA, M. Sc & Ph.D.

BRANCH	OPEN			OBC			OBC-PD			SC			SC-PD			ST			ST-PD			EWS			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
AR	3	14	17	1	3	4	0	0	0	2	0	2	0	0	0	1	0	1	0	0	0	0	0	0	7	17	24
CED	30	41	71	13	15	28	0	0	0	7	3	10	0	0	0	0	1	1	0	0	0	1	1	2	51	61	112
CHED	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
CSED	13	9	23	11	3	15	0	0	0	4	3	7	0	0	0	3	1	4	0	0	0	5	0	5	36	16	52
ECED	30	9	39	15	8	23	0	0	0	10	4	14	0	0	0	1	0	1	0	0	0	6	1	7	62	22	84
EED	37	15	52	18	5	23	0	0	0	13	3	16	0	0	0	4	1	5	0	0	0	5	0	5	77	24	101
MED	57	4	61	27	2	29	0	0	0	10	0	10	0	0	0	0	1	1	0	0	0	4	1	5	98	8	106
SMSE	3	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	4
<b>Total</b>	<b>174</b>	<b>93</b>	<b>268</b>	<b>86</b>	<b>36</b>	<b>123</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>46</b>	<b>13</b>	<b>59</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>4</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>21</b>	<b>3</b>	<b>24</b>	<b>336</b>	<b>149</b>	<b>485</b>
MBA	17	13	30	12	6	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	30	19	49
M. Sc	21	39	60	15	4	19	0	1	1	5	5	10	0	0	0	1	0	1	0	0	0	5	2	7	47	51	98
Ph.D	74	93	167	21	49	70	0	0	0	7	15	22	0	1	1	0	1	1	0	1	1	2	1	3	104	161	265



## 5.4 THE HOSTELS

### Accommodation

There are eleven hostels for men and three hostels for ladies. A new Mega Hostel for Boys with a capacity of 1500 (single seated) started functioning in July 2022. Present strength in the hostels is 6111, out of this 4427 are boys and 1684 are girls (as on 31.03.2023). All the hostels have Common room and Recreational Centre where newspapers, magazines, TV's and indoor sports/games facilities are available. Free twenty-four-hour internet and computational facilities are available in almost all hostels; it is getting extended to other hostels too. Twenty-four-hour water and electricity (with DG power back up) is part of all the hostels. Milma, DTP Centre, co-operative store counter etc. are functioning in the hostels. Two power laundry stations are functioning with collection centers at different hostels. The ladies hostel has lady's gym, stitching and tailoring centre, hostel library, beauty parlour, indoor sports centre, DTP centre and extension of co-operative stores. Guest room facilities are available in the hostels for the relatives / guests of hostel inmates on chargeable basis.

Day-to-day administration and management of the hostels is vested with the Council of Wardens headed by the Chief Warden appointed by the Director. Wardens council is supported by Caretakers / hostel staffs.

**Chief Warden: Dr. R. Manu**, Professor, Mechanical Engineering Department

Wardens (as on 31.03.2023):

Sl.No	Name	Designation	Department
1	Dr. Arun P.	Associate Professor	MED
2	Dr. Satyananda Panda	Professor	MAT
3	Dr. Gopi Krishna Saramekala	Assistant Professor	ECED
4	Dr. Vineesh K. P.	Assistant Professor	MED
5	Dr. Janardhan Banothu	Assistant Professor	CHY
6	Dr. Shihabudheen K. V.	Assistant Professor	EED
7	Dr. Suchand Sangeeth C. S.	Assistant Professor	PHY
8	Dr. Sandip Rudha Budhe	Assistant Professor	MED
9	Dr. Raju Hazari	Assistant Professor	CSED
10	Dr. Mithun Muthiah Sakthivel	Assistant Professor	EED
11	Dr. Bimal P.	Assistant Professor	DAP
12	Dr. S. Sheerazuddin	Assistant Professor	CSED
13	Dr. Chandra Shekar Bestha	Assistant Professor	CHED

14	Dr. Sudev Das	Assistant Professor	CHED
15	Dr. Teja Reddy Vakamalla	Assistant Professor	CHED
16	Dr. Maneesh Chandran	Assistant Professor	PHY
17	Dr. Waquar Ahmad	Assistant Professor	ECED
18	Dr. Robin Davis	Assistant Professor	CED
19	Dr. Sujith Kumar C. S.	Assistant Professor	MED
20	Dr. Mija S. J.	Assistant Professor	EED
21	Dr. Seethalakshmi P.	Assistant Professor	CED
22	Dr. Fathima Fasmin	Assistant Professor	CHED
23	Dr. Mini Mol Menamparambath	Assistant Professor	CHY

**Hostel Manager (Officiating):** Shri. Anwar Sadath

**Peon:** Shri. Chandu K. V.

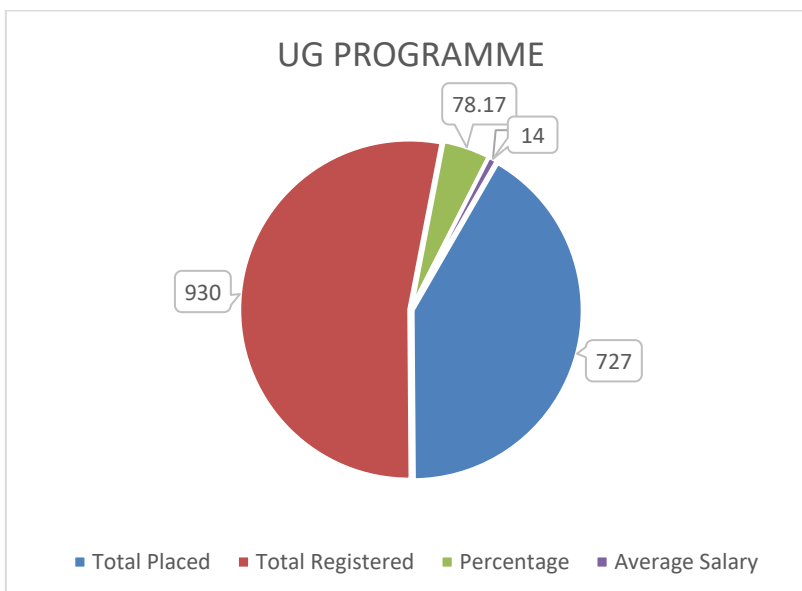
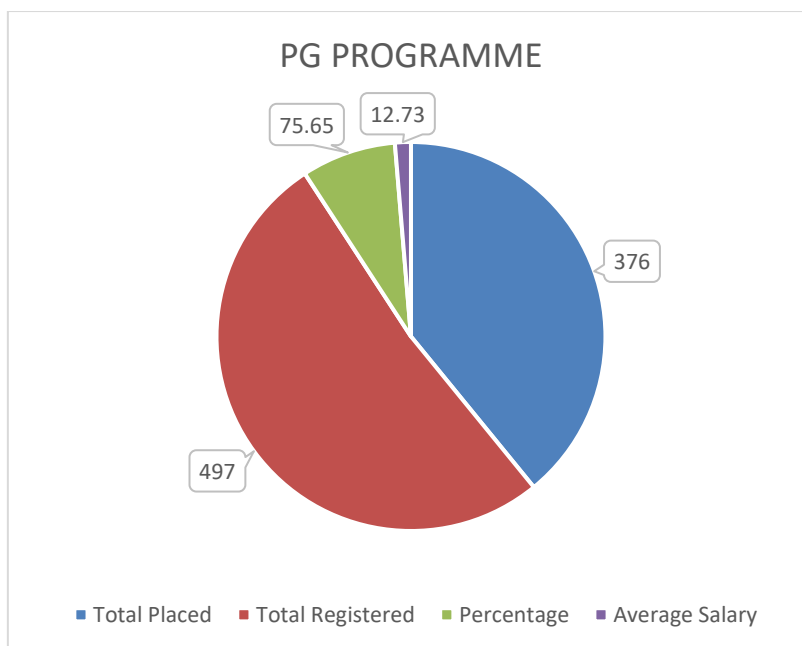
## 5.5 PLACEMENT

### a) Placement and Internships 2022-'23 Summary

Number of Companies	184	
Number of Placement (2023 Graduands)	1106	UG- 727 PG-376 Ph. D-3
Number of Internships (2023 Graduands)	1106	UG-220 PG-66

### b) Statistics of UG and PG Placements 2022 Graduating Batch (as on 23-08-2022)

Programme	Total Placed	Total Registered	Percentage (%)	Min Salary [lakhs INR]	Max Salary [lakhs INR]	Avg. Salary [lakhs INR]	Median Salary[in lakhs INR]
UG [B.Tech+ B.Arch]	727	930	78.17	3.61	47	14.54	11
PG [M.Tech+MCA+ MBA+M.Sc.]	376	497	75.65	2.25	50	12.73	10
<b>TOTAL [UG+PG]</b>	<b>1103</b>	<b>1427</b>	<b>77.29</b>	<b>2.25</b>	<b>50</b>	<b>13.93</b>	<b>10.03</b>



During the session 2022-2023, 184 companies visited the campus for recruitment. Together they made a total of 1106 offers. The details are shown in Annexure I. UG Programme: 727 out of 930 eligible UG students (78.17%) got placed. PG Programme: 376 out of 497 eligible PG students (75.65%) got placed. The highest salary (CTC) offered for UG is 47 lakhs. The highest salary (CTC) offered for PG is 50 lakhs. The institute average salary is 13.93 Lakhs

For the 2023 graduands, 60 firms visited for internship drives. The details are shown in Annexure II Note that all these figures are data as on 07-06-2023.

**c) UG Branch wise Placement Details 2022-2023 as on 07/06/23**

UG Program Details	Total Placed*	Total Registered**	Percentage	Min Salary	Max Salary	Avg. Salary
B.Arch	2	9	22.22	5	6	5.5
B.Tech Biotechnology	9	20	45	5	20	10.27
B.Tech Civil	67	109	61.46	3.61	33.21	8.90
B.Tech Chemical	73	86	84.88	6	26	9.99

B.Tech Computer Science and Engineering	147	159	92.45	7.5	47	22.03
B.Tech Electrical & Electronics	118	149	79.19	5	38.04	14.85
B.Tech Electronics & Commn.	119	145	82.06	5	38.04	18.94
B.Tech Mechanical	150	181	82.87	5	36.5	9.70
B.Tech Production	20	39	51.28	5	12	8.68
B.Tech Engg.Physics	12	15	80	5	43.45	13.71
B.Tech Materials Science & Engineering	10	18	55.55	7.5	17.73	10.51
<b>Total UG</b>	<b>727</b>	<b>930</b>	<b>78.17</b>	<b>3.61</b>	<b>43.45</b>	<b>12.09</b>
<p><i>* Indicates total number of students placed [double offers not counted]</i></p> <p><i>** Includes students with CGPA <math>\geq</math> 6.5 and who participated in all CCD registrations. If a company has offered a job to a student having CGPA <math>&lt;</math> 6.5, it is included in both placed as well registered counts.</i></p>						

**d) PG Placement Details 2022-2023 as on 07-06-2023**

PG Program Details	Total Placed*	Total Registered	Percentage	Min Salary	Max Salary	Avg. Salary
AR - M. Plan	3	7	42.85	8.25	8.25	8.25
CE - M. Tech Environmental GeoTech	6	15	40	6	13.58	10.74
CE - M. Tech Offshore Structures	19	21	90.47	6	7	6.57
CE - M. Tech Structural Engineering	17	18	94.44	5.5	13.58	7.63
CE - M. Tech Traffic & Transportation Planning	13	18	72.22	5.5	6.85	6.30
CE - M. Tech Water Resources Engineering	6	10	60	5.5	13.58	7.22
CH - M. Tech Chemical	1	3	33.33	9.84	9.84	9.84
CS - M. Tech Computer Science	24	24	100	10	33.75	19.81
CS - M. Tech Computer Science (Information Security)	20	20	100	7.5	36.21	20.02
CS - MCA	38	52	73.07	6.5	36.5	12.80
EE - M. Tech Power Systems	17	20	85	6	15.56	9.55
EE - M. Tech High Voltage Engineering	8	12	66.66	8	18.9	11.12
EE - M. Tech Instrumentation and Control Systems	18	20	90	7	22.5	11.02

EE - M. Tech Industrial Power and Automation	14	17	82.35	8	15	9.98
EE - M. Tech Power Electronics	15	22	68.18	5	36.21	12.38
EC - M. Tech Electronics Design and Technology	15	19	78.94	8	50	23.81
EC - M. Tech Signal Processing	9	12	75	7	36.21	19.05
EC - M. Tech Telecommunication	13	16	81.25	8	36.21	18.43
EC - M. Tech Micro Electronics & VLSI Design	15	19	78.94	18.53	50	32.82
ME - M. Tech Energy Engg. & Management	13	20	65	2.25	11.5	7.60
ME - M. Tech Industrial Engg. & Management	13	18	72.22	6	12	8.76
ME - M. Tech Machine Design	11	12	91.66	7.65	16.65	12.27
ME - M. Tech Material Science & Technology	8	15	53	4.2	18.9	9.78
ME - M. Tech Manufacturing Technology	12	16	75	5	14	8.40
ME - M. Tech Thermal Sciences	9	15	60	5	13.58	7.56
NS - M. Tech Material Science & Engineering (Nano Technology)	1	3	33.33	8	8	8
MS - MBA	28	33	84.84	4	13.58	7.82
PH - M.Sc. Physics	0	2	0			
CY - M.Sc. Chemistry	4	5	80	7.25	8	7.625
MA - M.Sc. Mathematics	6	13	46.15	5	10.5	6.58
<b>Total PG</b>						
	<b>376</b>	<b>497</b>	<b>75.65</b>	<b>2.25</b>	<b>50</b>	<b>12.73</b>
<p><i>* Indicates total number of students placed [double offers not counted]</i></p> <p><i>** Includes students with CGPA <math>\geq</math> 6.5 and who participated in all CCD registrations. If a company has offered a job to a student having CGPA <math>&lt;</math> 6.5, it is included in both placed as well registered counts.</i></p>						

e) **Internship Statistics 2022-'23 (As on 07/06/2023)**

Programme	Total Placed	Total Registered	Percentage
UG [B. Tech]	220	932	23.60
PG [M. Tech+MCA]	66	400	16.5
<b>TOTAL [UG+PG]</b>	<b>286</b>	<b>1340</b>	<b>21.34</b>

## 5.6 ALUMNI AFFAIRS

Distinguished members of the 40,000 strong alumni community of CREC/NITC now hold high positions in the industry and academia across the globe and continue to do the institute proud. As members of the National Institute of Technology Calicut Alumni Association (NITCAA), they have always been forthcoming to contribute to the growth of their alma mater. NITCAA has 18 chapters – 11 in India and 7 abroad. The office of the Dean of Alumni and Corporate Relations (ACR) works in close association with NITCAA to foster the alumni-institute bond. The institute takes pride in hosting the Silver Jubilee and Golden Jubilee reunions of past batches every year.

	In India	Abroad	Total
<b>NITCAA Chapters</b>	11	7	18
<b>NITC Alumni initiatives</b>	<ul style="list-style-type: none"> <li>• Silver Jubilee Endowment Trust (SJET)</li> <li>• Serve Eternally with Altruism (SEWA)</li> <li>• NITC Alumni Mentoring Program (NITCAMP)</li> <li>• Distinguished Alumni Lecture Series</li> <li>• digital platform and portal <a href="http://www.worldnitcaa.com">www.worldnitcaa.com</a> launched in July 2021</li> </ul>		

### 2022-23 Major Activities

No.	Activity	Details
1	NITC Diamond Jubilee Culmination Function on 27 <sup>th</sup> August 2022	450 Alumni from across the world participated in this function, which was a part of the World NITCAA Meet (WNM) 2022 event. Dr. Subba Rao Pavuluri, an eminent CREC alumnus (B.Sc Civil Engineering, 1974 batch) and CMD of Ananth Technologies Ltd. was the chief guest,
2	Inauguration of the ERP software Institute Management System (IMS) to facilitate coordination and automation of the academic and non-academic activities of NITC.	This project was sponsored by the 1994, '95 and '96 batches, and developed by M/s. Cognitive Platform Solutions (CPS) at a cost of <u>Rs. 60 lakhs</u>
3	Inauguration of the Green Amphitheatre.	Jointly sponsored by the 1993 batch, Mr. Suresh Chand Jain of 1973 batch and NITCAA, the amphitheatre with a seating capacity of 300 was constructed with a budget of <u>Rs. 25 lakhs</u> .
4	Inauguration of Internet of Things (IoT) lab, named 'Lab8085'.	This lab was sponsored by the 1985 batch. Research work in areas such as IoT, AI, ML etc. is progressing here
5	Coffee-table book on CREC/NITC and its alumni	It was released during the Diamond Jubilee Celebrations
6	Two Golden Jubilee Campus Reunions – 1971 and 1972 batches on 8 <sup>th</sup> October and 11 <sup>th</sup> October 2022 respectively.	These batches contributed <u>Rs. 13 lakhs</u> to the proposed Gymkhana project – a multi-facility student amenities centre, whose projected cost is <u>Rs. 5 crores</u> .

7	Three Silver Jubilee Campus Reunions	Three batches - 1995, 1996 and 1997 – celebrated their reunions on 17 <sup>th</sup> December, 23 <sup>rd</sup> December and 28 <sup>th</sup> December 2022, respectively.
8	1997 batch Silver Jubilee project – New NITC Website	The 1997 batch sponsored the new NITC website, which was developed by M/s. Amigoz Innovative Technologies Pvt. Ltd. The website developed with a budget of Rs. <u>5 lakh</u> was inaugurated in February 2023.
9	1997 batch Silver Jubilee project – 97 <sup>th</sup> Avenue	The proposed student plaza named "97 <sup>th</sup> Avenue" will be located between the F and G hostels in campus. The foundation stone for this project was laid during the campus reunion and the construction work is underway. The estimated cost of this project is Rs. <u>32 lakhs</u> .
10	Alumni support for NBA Accreditation	Many alumni took part in in-campus and online interactions with NBA experts as part of accreditation of various UG and PG programs during 2022-23. Many of them had
11	The ACR office coordinated the Alumni Mentoring Program NITCAMP - an initiative of the USA chapter of NITCAA.	NITCAMP has enabled NITC students to interact with NITC alumni, to receive guidance regarding career development, higher studies, and other technical /professional needs. Nearly 200 senior students benefited from the mentorship by 150+ alumni across the world in the first round of the 2022 edition of NITCAMP. In February 2023 NITCAMP rolled out the second round exclusively for first year students and around 40 students of 2022 admission registered for the mentorship program.
12	Alumni involvement in Tathva 2022	Tathva 2022 received technical and financial support of Alumni and the chief guest was 1985-89 batch alumnus Mr. James Thomas, who is Vice President & Head, SAP Success Factors, SAP India Sub Continent.
13	Alumni involvement in Ragam 2023	The title sponsor of Ragam 2023 was an alumni-owned company RS group and the chief guest was 1980-85 batch alumnus Mr. Prakash Shetty, who is serving as NITCAA president and Technical Director of RS Group.
14	Alumni support to student clubs	The technical clubs such as Team Unwired and Aero Unwired also received liberal donations from Alumni and NIT Calicut Alumni Association for their development activities related to automotive and aerospace prototypes and to participate in national level competitions.

## 5.7 CONVOCATION 2022

### 5.7.1 Total Number of Graduates

B. Tech. / B. Arch. Result (18<sup>th</sup> Convocation)

PROGRAMME	TOTAL REGISTERED	1 <sup>ST</sup> CLASS WITH DISTINCTION	1 <sup>ST</sup> CLASS	2 <sup>ND</sup> CLASS	TOTAL PASS	PERCENTAGE
CE	153	46	78	15	139	90.85
CS	172	66	79	13	158	91.86
EC	164	54	84	12	150	91.46
EE	161	72	74	6	152	94.41
ME	182	61	83	16	160	87.91
PE	55	15	26	4	45	81.82
<b>TOTAL</b>	<b>887</b>	<b>314</b>	<b>424</b>	<b>66</b>	<b>804</b>	<b>90.64</b>
AR	53	8	27	7	42	79.25

### Details of M.Tech, MCA & Ph.D. Students Graduated

PROGRAMME	TOTAL REGISTERED	1 <sup>ST</sup> CLASS WITH DISTINCTION	1 <sup>ST</sup> CLASS	2 <sup>ND</sup> CLASS	TOTAL PASS	PERCENTAGE
CEA	21	15	6	0	21	100
CEB	23	20	3	0	23	100
CEC	23	18	5	0	23	100
CED	24	23	1	0	24	100
CEE	10	7	3	0	10	100
CSA	26	24	2	0	26	100
CSB	22	19	3	0	22	100
EEA	23	18	3	0	21	91.30
EEB	20	18	1	0	19	95.00
EEC	22	16	4	0	20	90.90
EED	20	18	2	0	20	100
EEE	13	11	2	0	13	100
ECA	22	15	7	0	22	100
ECB	22	16	6	0	22	100
ECC	11	8	2	0	10	90.90
ECD	12	8	4	0	12	100
MEA	20	16	4	0	20	100
MEB	14	11	3	0	14	100
MEC	19	16	3	0	19	100
MED	19	11	8	0	19	100
MEE	22	15	7	0	22	100
MEF	13	9	4	0	13	100
NSA	11	10	1	0	11	100
CHA	7	6	1	0	7	100



<b>TOTAL</b>	<b>439</b>	<b>348</b>	<b>85</b>	<b>0</b>	<b>433</b>	<b>98.63</b>
MAA	15	6	8	0	14	93.33
CYA	24	15	8	1	24	100
PHA	23	21	2	0	23	100
<b>TOTAL</b>	<b>62</b>	<b>42</b>	<b>18</b>	<b>1</b>	<b>61</b>	<b>98.38</b>
MBA	47	25	22	0	47	100
MCA	53	14	36	3	53	100
M.PLAN	12	10	2	0	12	100
<b>TOTAL</b>	<b>613</b>	<b>439</b>	<b>163</b>	<b>4</b>	<b>606</b>	<b>98.85</b>
<b>PhD</b>					<b>91</b>	
<b>GRAND TOTAL</b>					<b>697</b>	

### 5.7.2 Convocation Prizes

All the program toppers were honoured with gold medals during the Convocation along with the following awards.

#### 18<sup>th</sup> Convocation 2022

#### Bapna Gold Medalists (Topper 2021-22)

1	B180825EC	SANDEEP S. ZACHARIAH	B.Tech.	Electronics and Communication Engineering	9.75
2	M200278CS	ANJALY S. MENON	M.Tech.	Computer Science and Engineering	9.87

#### Prof. Allesu Kanjirathinkal Memorial Award

<b>B.Tech. Programmes</b>					
1	B180825EC	SANDEEP S. ZACHARIAH	B.Tech.	Electronics and Communication Engineering	9.75

#### Vikram Sarabhai Ever Rolling Trophy

1	B180825EC	SANDEEP S. ZACHARIAH	B.Tech.	Electronics and Communication Engineering	9.75
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### 5.7.3 Rank Holders (UG & PG)

#### List of Gold Medalists (Toppers 2021-22)

#### (B.Arch./B.Tech.)

<b>UG TOPPERS LIST - 18<sup>th</sup> CONVOCATION</b>					
1	B170612AR	SHAHBAZ KHAN LODI	B. Arch	Architecture	9.33
2	B180276CH	NIRMAL VARUGHESE JACOB	B. Tech	Chemical Engineering	9.12
3	B180967CE	ELDO ADAI	B. Tech	Civil Engineering	9.16

4	B180184CE	GOVIND MOHAN	B. Tech	Civil Engineering	9.16
5	B180523CE	SANDRA M. V.	B. Tech	Civil Engineering	9.16
6	B180800CS	S. R. SIDDHARTH	B. Tech	Computer Science and Engineering	9.61
7	B180581EE	GAURI NAIR V.	B. Tech	Electrical and Electronics Engineering	9.31
8	B180825EC	SANDEEP S. ZACHARIAH	B. Tech	Electronics and Communication Engineering	9.75
9	B180068ME	MANAS P. VINAYAN	B. Tech	Mechanical Engineering	9.26
10	B180494PE	SOORYADAS SUDHAKARAN	B. Tech	Production Engineering	9.38
11	B180667EP	MULLAI VANESHWAR S.	B. Tech	Engineering Physics	9.48
12	B180037BT	ABHINAV RAGHUNATH	B. Tech	Biotechnology	9.32

**PG TOPPERS LIST - 18<sup>th</sup> CONVOCAATION**

Sl.N O	ROLL NO.	NAME	DEGREE	DEPARTMENT/ SPECIALIZATION	CGPA
1	M200278CS	ANJALY S. MENON	M.Tech	Computer Science and Engineering- PG	9.87
2	M200357CE	MATHAN RAM VELAVAN K.	M.Tech	Civil Engineering (Water Resources Engineering)	9.85
3	M200081CE	RAVURI POORNANAND A SRINIVAS	M.Tech	Civil Engineering (Offshore Structures)	9.83
4	M200543ME	SHIBIN RAJ C. P.	M.Tech	Mechanical Engineering (Machine Design)	9.75
5	M200488EE	DAISY MONICA ROY	M.Tech	Electrical Engineering (Instrumentation and Control Systems)	9.73
6	M200092CE	CHARU SRIVASTAVA	M.Tech	Civil Engineering (Structural Engineering)	9.67
7	M200262CS	SANDRA V. S. NAIR	M.Tech	Computer Science and Engineering (Information Security)	9.65
8	M200145ME	TIWARI RONA K RAMVISHAL	M.Tech	Mechanical Engineering (Industrial Engineering and Management)	9.65

9	M200477EC	SITHARA V. NAMBIAR AREDATH	M.Tech	Electronics and Communication Engineering (Telecommunication)	9.63
10	M200321ME	SHYAM MOHAN K. P.	M.Tech	Mechanical Engineering (Materials Science and Technology)	9.63
11	M200124CE	SISIRA P.	M.Tech	Civil Engineering (Traffic and Transportation Planning)	9.62
12	M200447PH	ELSA BABY	M.Tech	Physics	9.61
13	M200161ME	M. ANANDA KRISHNAN	M.Tech	Mechanical Engineering (Thermal Sciences)	9.60
14	M200105CE	RIYA PRADEEP	M.Tech	Civil Engineering (Environmental Geotechnology)	9.60
15	M200073EE	ADITYA KANAKAN PALISSERY	M.Tech	Electrical Engineering (High Voltage Engineering)	9.50
16	M200208EE	ATHUL JOSE P	M.Tech	Electrical Engineering (Power Systems)	9.47
17	M200188EE	ASHWIN A. KRISHNAN	M.Tech	Electrical Engineering (Industrial Power and Automation)	9.42
18	M200619EE	REVATHY A. S.	M.Tech	Electrical Engineering (Power Electronics)	9.40
19	M200326CH	SREELAKSHMI PARUVAYAKO DE	M.Tech	Chemical Engineering	9.38
20	M200311MT	RAHUL RAJAN	M.Tech	Materials Science and Engineering (Nanotechnology)	9.38
21	M200336ME	ANURAG RANJAN	M.Tech	Mechanical Engineering (Energy Engineering and Management)	9.28
22	M200531ME	VAISHNAV C.	M.Tech	Mechanical Engineering (Energy Engineering and Management)	9.28
23	M200569EC	SHRIYA SANJAY SOMAN	M.Tech	Electronics and Communication Engineering	9.27

				(Electronics Design and Technology)	
24	M200294EC	ARATHY B. S.	M.Tech	Electronics and Communication Engineering (Signal Processing)	9.25
25	M200639CY	MANIVARNA NAIR	M.Tech	Chemistry	9.20
26	M190390CA	DEEKSHA AGRAWAL	M.Tech	Computer Science and Engineering	9.20
27	M200465EC	PRASOON A. K.	M.Tech	Electronics and Communication Engineering (Microelectronics and VLSI Design)	9.20
28	M200526ME	MOHIT GODARA	M.Tech	Mechanical Engineering (Manufacturing Technology)	9.20
29	M200431MA	ESHWAR SRINIVASAN	Master of Science	Mathematics	9.13
30	M200560AR	TANIA VIJU	Master of Planning	Urban Planning	9.05
31	M200002MS	ARCHANA B.	Master of Business Administration	School of Management Studies	8.86

## 5.8 FACULTY AWARDS

### DEPARTMENT OF CHEMICAL ENGINEERING

SL. NO.	NAME	AWARD
1	Dr. Noel Jacob Kaleekkal	Young Engineer Award-2022 (Chemical Engineering) and Young Associate by the Indian National Academy of Engineering (INAE), Young Scientist Award by Kerala State Council for Science, Technology and Environment (KSCSTE)
2	Dr. Panneerselvam Ranganathan	SHV Energy, Netherlands Open Innovation Challenge Award on Sustainable Fuels, 2022.

### DEPARTMENT OF CIVIL ENGINEERING

SL.NO.	NAME	AWARD
1	Dr. Aswathy E. V.	Received best paper award in the 7th International Conference on "Recent Advancements in Chemical, Environmental & Energy Engineering, organized by Department of Chemical Engineering, Sri Sivasubramaniya Nadar College of Engineering, Rajiv Gandhi Salai, Tamil Nadu, 16-17 Feb 2023.

2	Dr. M. Sivakumar	Received best paper award
3	Dr. Muhamed Safeer Pandikkadavath	Best paper award in the ICCMS2022 Conference
4	Dr. Robin Davis P.	Received best paper award in the International Conference on Climate Resilient Construction and Building Materials in conference held at NIT Surathkal during March 3 -5, 2023.
5	Dr. Ranga Swamy K.	<p>Received citation award for exceptional guidance to the student who won the IGS-AISAT Award 2022 for the best M. Tech. Thesis in Geotechnical Engineering in Kerala state.</p> <p>Thesis entitled “Landslide simulations and stability assessment of locally available massive soil slopes” won the IGS- AISAT award 2022 for the best M. Tech. Thesis in Geotechnical Engineering in Kerala state.</p> <p>Recieved paper presentation award for the paper titled “Landslide simulations and stability assessment of Puthumala hill soil slope in the Meppady region of Wayanad in Kerala” at the Indian Geotechnical Conference (IGC 2022), hosted by the IGC Kochi chapter and CUSAT on 15-17 December 2022.</p>

#### DEPARTMENT OF CHEMISTRY

SL.NO	NAME	AWARD
1	Dr. Muniyandi Sankaralingam	Guest Researcher Award-University Paris City, France
2	Dr. Mini Mol Menampambath	Selected as a 2023 Rising Star in Materials Science by ACS Materials Au, United States
3	Dr. Janardhan Banothu	International Best Researcher Award ISSN International Science & Technology Awards and Congress (IISTAC-2022)
4	Dr. Janardhan Banothu	Outstanding Research Award - 2023 Vinus International Research Awards - 2023
5	Dr. Mausumi Chattopadhyaya	Research Stay of 3 months in Germany from Alexander von Humboldt Foundation.
6	Mr. Rasha Rahman P. K.	First prize for Oral Presentation in World Sensor Congress 2022 organised by C-MET Thrissur
7	Miss. Naseela P.	Recieved the support to the Researchers with the Catalytic Grant (Reverse funding) provided by the I-STEM for an amount of Rs.1,10,000/- for a duration of 6 months)

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION**

SL. NO.	NAME	AWARD
1	Dr. Deepthi P. P.	Best paper Award to D. Keerthi (M Tech Telecommunication) for "Optimum Power Allocation for Power Efficient NOMA," in 2022 IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT), Bangalore, India
2	Dr. Sudeep P. V.	Second Position in the "National Level Project Exhibition 2022" organized by the Department of Electronics & Communication Engineering, NIE Mysuru in association with IETE Mysuru, held on 27th April 2022 in virtual mode.
3	Dr. Sudeep P. V.	IEEE Senior Membership
4	Dr. Chandan Yadav	Golden List of Reviewers 2022 - IEEE Transactions on Electron Devices

**DEPARTMENT OF MECHANICAL ENGINEERING**

SL.NO.	NAME	AWARD
1	Dr. Deepak Lawrence K.	The Best paper presentation award at IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems 2022 (SPICES 2022), has been awarded to the paper titled "A blockchain-based platform for smart contracts and intellectual property protection for the additive manufacturing industry," authored by Abhiram Haridas, Samad, V. D, Deepak Lawrence K, and Vinod Pathari of NIT Calicut

**DEPARTMENT OF SCHOOL OF BIOTECHNOLOGY**

SL. NO.	NAME	AWARD
1	Sirikar Sham Sunder	Best NCC Cadet in 2022
2	Sanandh Kumar	1st position in the Hackathon, Code Innovation Series Hackathon organized by IncubateIND and GitHub

**5.9 FOUNDATION DAY 2022**

The National Institute of Technology Calicut, celebrated its 62<sup>nd</sup> Foundation Day on the 1<sup>st</sup> of September 2022. The Office of the Dean (Planning and Development) has organized the event in coordination with all departments and Dean offices.

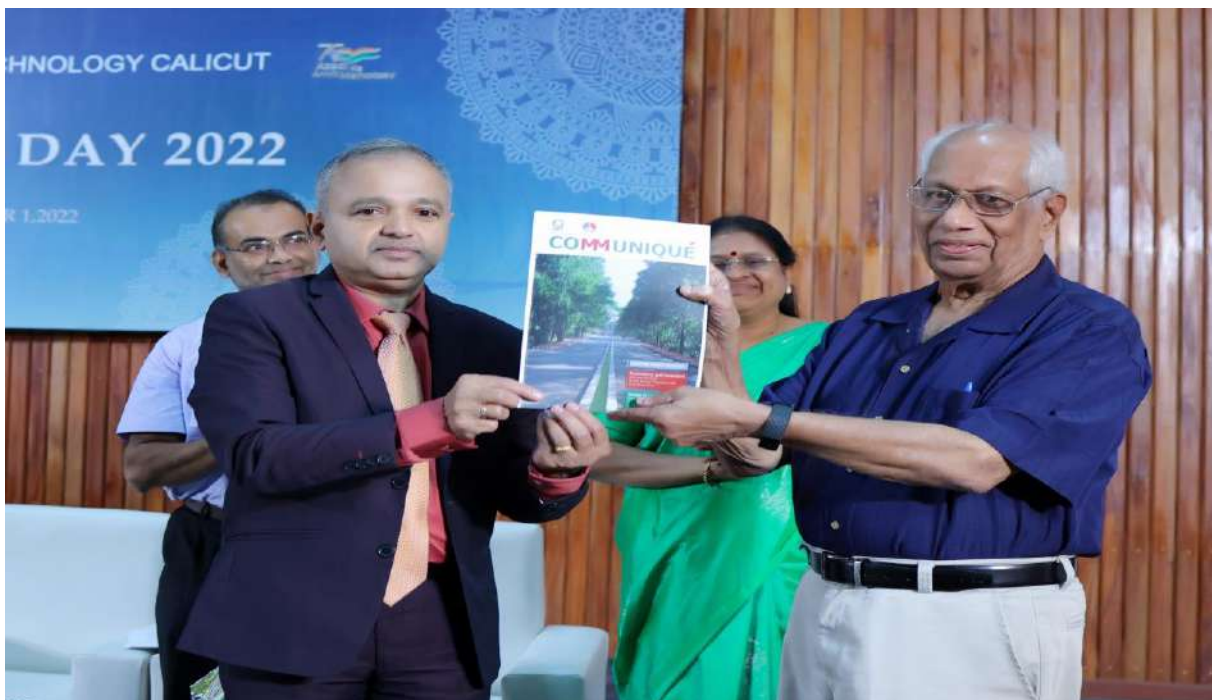
The Chief Guest for the Foundation Day programmer was Prof. B. Jagadeeshwar Rao, Vice Chancellor, University of Hyderabad. Shri. Gajjala Yoganand, Chairman, Board of Governors,

NIT Calicut presided the function. The former principals and Directors of NIT Calicut were invited as the Guests of Eminence for the function and the Guests of Eminence were honoured for their service rendered during their respective tenure.



Prof. S. Unnikrishna Pillai, Prof. S. S. Gokhale, Prof. G. R. C. Reddy and Prof. Sivaji Chakaravorti attended the function in person and graced the occasion.

The Director, NIT Calicut, Prof. Prasad Krishna and Deputy Director, NIT Calicut, Prof. P. S. Sathidevi honoured all the Faculty and Staff who have completed 25 years of service at the institute. "Communique", NITC's newsletter for the year 2021-2022, was released by the Director during the Foundation day programme.



## 6. RESEARCH AND DEVELOPMENT ACTIVITIES

### 6.1 Ph.D. PROGRAMMES – EXISTING AND PROPOSED

Department	No. of Ph.D. Students	
	Completed in 2022	Ongoing
Architecture	3	69
Chemical Engineering	8	29
Civil Engineering	23	123
Mechanical Engineering	4	124
Computer science	8	89
Electronics and communication	11	79
Electrical Engineering	17	79
Chemistry	1	60
Mathematics	6	67
Physics	3	43
School of Biotechnology	3	37
School of Material Science	5	20
School of Management Studies	1	29

### 6.2 DETAILS OF Ph.D.'s. DONE SO FAR

DEPARTMENT	NO. OF Ph. D. COMPLETED	SCHEME		
		QIP	FT	PT
Architecture	15	1	8	6
Chemical Engineering	57	0	47	10
Civil Engineering	102	22	54	26
Computer Sciece Engineering	52	2	1	59
Electrical engineering	161	27	65	69
Electronics and Communication Engineering	101	27	59	15
Mechanical Engineering	128	19	72	37
Chemistry	59	2	27	3
Mathamatics	64	1	43	19
School of Material Science Engineering	33	0	32	1
School of Management Studies	11	0	7	4
School of Biotechnology	42	0	40	2
Physics	3	0	3	0



### 6.3 SPONSORED R&D PROJECTS

SL. NO.	PROJECT TITLE	FUNDING AGENCY	PI AND DEPARTMENT	PROJECT COST
1	Chief Minister's NavaKerala Post-Doctoral Fellowships	The Kerala State Higher Education Council	Dr. Jesiya N. P., (Mentor: Dr. Santosh G. Thampi) Civil Engineering	<b>1,50,000</b>
2	Chief Minister's NavaKerala Post-Doctoral Fellowships	The Kerala State Higher Education Council	Dr. Mushin M., Physics (Mentor: Dr. M. K. Ravi Varma, Professor)	<b>1,50,000</b>
3	Electrically excited Synchronous machine - EESM	C-Electric Automotive Drives Pvt Ltd	Dr. Nikhil Sasidharan, Electrical Engineering	<b>13,00,000</b>
4	Modeling, simulation & Design of Mg/H <sub>2</sub> O seawater batteries using cost effective cathodic materials	Contract for Acquisition of Research Services (CARS)	Dr. Fathima Fasmin, Chemical Engineering	<b>9,76,001</b>
5	Mxene/Polymer Nanocomposites for Self - Powering Wearable Sensors and Devices	Science & Engineering Research Board (SERB)	Dr. Mini Mol M., Chemistry	<b>49,33,764</b>
6	Design of Gc <sub>3</sub> n <sub>4</sub> /cOn <sub>4</sub> Nanohybrids as a Quantum Computing Material with Simultaneous Catalytic Activity and Sensing Ability	Science & Engineering Research Board (SERB)	Dr. Mausumi Chattopadhyaya., Chemistry	<b>31,63,732</b>
7	Development of Ultra-High-Performance Concretes (UHPCs) for Road/Bridge Infrastructure in Urban Areas	Kerala Highway Research Institute	Dr. Jayachandran K., Civil Engineering	<b>35,91,500</b>
8	Inspire Faculty Fellowship	Department of Science and Technology	Inspire Faculty Dr. P. Muhammed Shafi Co-ordinating Faculty: Dr. Maneesh Chandran, Asst. Professor, Physics	<b>22,00,000</b>
9	Visvesvaraya Ph.D. Scheme for Electronics and IT: Phase II	Digital India Corporation		<b>1,08,92,400</b>
10	Investigation of Heusler alloys for spintronics applications	Department of Science & Technology	Dr. Madhumita Haldar, Physics (Mentor: Dr. Raghu Chathanathodi, Professor)	<b>23,80,000</b>

11	Experimental Investigations into the effect of reinforcement particles on the tribological and corrosion properties of marine grade AA5052 aluminium alloy joints through FSW and Development of suitable attachments	IIT Guwahati Technology Innovation and Development Foundation	Dr. Basil Kuriachen, Mechanical Engineering	<b>10,00,000</b>
12	Development of low-cost Induction Melted Liquid Metal Additive Manufacturing Machine (IMMAMM) with Numerical and Experimental Investigations	Science & Engineering Research Board (SERB)	Dr. Basil Kuriachen, Mechanical Engineering	<b>50,03,100</b>
13	Development of High Temperature Substrate for RF Circuit Application	Defence Research & Development Organization (DRDO)	Dr. Murali K. P., Mechanical Engineering	<b>19,99,000</b>
14	Perovskite Single Crystalline Solar Cells	Indo French Centre for the Promotion of Advanced Research (IFCPAR) - CEFIPRA	Dr. Predeep P., Physics	<b>43,09,107</b>
15	Microstructural, mechanical and wear behaviour of additively manufactured titanium and stainless steel: An investigation into the effect of build orientation and heat treatment - under SERB International Research Experience	Science & Engineering Research Board (SERB)	Dr. Basil Kuriachen, Mechanical Engineering	<b>18,34,590</b>
16	Capacity Building for human resource development in Unmanned Aircraft System (Drone and Related Technology)	Ministry of Electronics and Information Technology (MeitY)	Dr. Gangadhara Kiran Kumar L., Mechanical Engineering	<b>199,41,000</b>
17	Integral Points on Dynamical Systems	Department of Atomic Energy	Dr. Sudhansu Sekhar Rout, Mathematics	<b>10,16,900</b>

18	Sustainability assessment of Inland Water Transport: A case study of Kerala	Kerala State Council for Science, Technology and Environment (KSCSTE), Trivandrum	Dr. Yogeshwar V. Navandar, Civil Engineering	<b>5,50,000</b>
19	Investigations on the uncertainties in the reservoir inflow and flood forecasts based on Numerical Weather Prediction (NWP) precipitation forecasts	Kerala State Council for Science, Technology and Environment (KSCSTE), Trivandrum	Dr. Sathish Kumar D., Civil Engineering	<b>5,30,000</b>
20	Fractional Order non-local Variational Regularization Models and their Applications in Image Processing	Science & Engineering Research Board (SERB)	Dr. Bini A. A., Electronics & Communication	<b>6,60,000</b>
21	Investigations on Valorisation of Coffee Husk through Slow Pyrolysis and Fluidized Bed Gasification	Kerala State Council for Science, Technology and Environment (KSCSTE), Trivandrum	Dr. Arun P., Mechanical Engineering	<b>7,15,000</b>
23	Synthesis and Processing Aluminium Alloy 7075 and Hybrid Composite Developed by Powder Metallurgy Method and Study of Material Characterization, Mechanical Properties and Corrosion behaviour for Aerospace Application	Kerala State Council for Science, Technology and Environment (KSCSTE), Trivandrum	Dr. K. Sekar, Mechanical Engineering	<b>6,55,000</b>
24	Indian Knowledge Systems approach to deep ecology: Integrating sacred geography and sustainability	Indian Knowledge Systems Division of Ministry of Education-AICTE, New Delhi	Dr. Anjana Bhagyanathan, Architecture & Planning	<b>25,28,000</b>
25	National Post-Doctoral Fellowship	Science & Engineering Research Board (SERB)	NPDF- Ms. Shahnaz Sultana Rohman, (Mentor- Parameswaran Pattiyil, Chemistry)	<b>14,40,000</b>

26	Investigation on the alteration in brain dynamics during progression of Alzheimer Disease (AD) from Mild Cognitive impairment (MCI) under resting and cognitive task conditions using complex network analysis	Science & Engineering Research Board (SERB)	Dr. Subha D. P., Electrical Engineering	<b>18,96,400</b>
27	A study on the zero multiplicity and S-units in recurrence sequences	Science & Engineering Research Board (SERB)	Dr. Sudhansu Sekhar Rout, Mathematics	<b>21,12,264</b>
28	Extraction of Colloidal particles from dilute suspensions based on controlled droplet impact	Kerala State Council for Science, Technology and Environment (KSCSTE),	Dr. Subramanyan Namboodiri Varanakkottu, Physics	<b>24,25,000</b>
29	A step Toward Smart City Environment: A reinforcement Learning Based Intelligent Traffic Control for Transportation Sysytem for smart cities of Kerala	Science & Engineering Research Board (SERB)	Dr. Prabu Mohandas, Computer Science Engineering	<b>25,40,516</b>
30	Optically - controlled programmable assembly of multi- component 3D colloidal crystals from evaporating droplets	Science & Engineering Research Board (SERB)	Dr. Subramanian Namboodiri Varanakkot, Physics	<b>47,80,380</b>
31	CPRHE/NIEPA study on College Readiness and Student Success in Higher Educaeion in NIT Calicut	Nataional Institute of Educational Planning and Administration	Dr. Rajanikanth G. K., School of Bio Technology	<b>3,41,000</b>
32	Advanced Distributed Acoustic Intrusion Sensing using Optical Fibre Network along Oil Pipelines	Department of Science and Technology	Dr. M. K. Ravi Varma, Physics	<b>59,00,000</b>
33	High-Fidelity Sinusoidal Synthesiser for HRG Whole Angle Tracking	Indian Space Research Organisation (ISRO)	Dr. Dhanaraj K. J., Electronic and Communication Engineering	<b>33,53,840</b>
34	Realization of plasma gun for atmospheric plasma polishing	Indian Space Research Organisation (ISRO)	Dr. Sindhu T. K., Electrical Engineering	<b>46,77,920</b>

35	Investigation on utilization of waste tire rubber and recycled concrete fines in concrete- A multiscale Approach	Science & Engineering Research Board (SERB)	Dr. Sofi A., Assoc. Professor, Department of Structural and Geotechnical Engineering, School of Civil Engineering, VIT Vellore under mentorship of Dr. Praveen Nagarajan, Professor, CED	<b>18,30,000</b>
36	Design, fabrication and performance analysis of electro assisted wickless heat spreader operating in a closed flow loop	Science & Engineering Research Board (SERB)	Dr. Sujith Kumar C. S., Mechanical Engineering	<b>25,40,230</b>
37	Advancement and Applications of High-Strength High-Performance Concrete Utilising Electrical Arc Furnace Steel Slag Residue and Copper Slag Aggregates	Science & Engineering Research Board (SERB)	Dr. Deepak M. S., Department of Civil Engineering, BMS Institute of Technology and Management, Bengaluru (under mentorship of Dr. Sajith A. S., Civil Engineering)	<b>18,30,000</b>
38	Pilot Implementation of Energy Blockchain and P2P Transactive Markets	Central Power Research Institute (CPRI)	Dr. Vivek Mohan, Electrical Engineering	<b>19,44,000</b>
39	DST - INSPIRE Fellowship under INSPIRE Programme to the Research Scholar (P220090CY,)	Department of Science & Technology	Ms. Charutha K., P220090CY, Research Scholar in Department of Chemistry Co-ordinating Faculty: Dr. Chinna ayya Swamy P., Asst. Professor, Chemistry	<b>4,58,960</b>
40	Deciphering host genes that positively regulate the intracellular survival of Klebsiella pneumoniae MDR within the human macrophages	Indian Council of Medical Research (ICMR)	Dr. Cecil Antony, School of Biotechnology	<b>16,23,117</b>
41	Small Immediate Need Grand for Fabrication and Testing of low cost in-situ micro tensile tester for scanning electron microscopy	Indo German Science & Technology Centre (IGSTC)	Dr. Shyam Kumar C. N., School of Materials Science and Engineering	<b>7,00,000</b>

42	Condition assessment of stator insulation in rotational machines due to thermal and electrical ageing through advanced dielectric response measurements	Central Power Research Institute (CPRI)	Dr. Nasirul Haque, Electrical Engineering	<b>40,72,000</b>
43	Influence of Bentonite and Biopolymer as Stabilizers on Micro Mechanical Performance of Pre-crushed Micaceous Sand at Different Degree of Mica Particle Breakage under Varying Cyclic Loading Conditions	Science & Engineering Research Board (SERB)	Dr. Seethalakshmi P., Civil Engineering	<b>15,72,076</b>
44	Summer School on “THz Electronics	IEEE Electron Devices Society, USA	Dr. Chandan Yadav, Chemistry	<b>4,04,350</b>
45	Carbon based hybrid nanomaterial in ionic fluids for CO2 reduction	Kerala State Council for Science, Technology and Environment (KSCSTE), Trivandrum	Dr. Soney Varghese, Assoc. Professor, SMSE	<b>212,00,000</b>
46	Modernization of pollution control system of steel industries in Kanjikkode, Palakkad District	KSPCB	Dr. Aswathy E. V., Dr. George K Varghese, Dr. Anantha Singh T. S., Civil Engineering	<b>10,00,000</b>
			<b>TOTAL</b>	<b>9,30,38,147</b>

#### 6.4 PUBLICATIONS FOR THE YEAR 2022-2023

SL NO	DEPARTMENT	JOURNAL	INTERNATIONAL CONFERENCE	NATIONAL CONFERENCE	PATENT
1	Architecture	14	15	2	Nil
2	Chemical Engineering	79	12	Nil	3
3	Civil Engineering	71	59	15	Nil
4	Mechanical Engineering	86	38	Nil	11
5	Computer Science and Engineering	60	23	Nil	1
6	School of Management Studies	10	6	Nil	Nil
7	School of Biotechnology	36	13	1	4

8	Electrical Engineering	51	45	Nil	4
9	Electronics and Communication Engineering	45	47	1	18
10	Physics	40	2	1	5
11	Mathematics	45	4	Nil	Nil
12	Chemistry	64	7	2	7
13	School of Material Science and Engineering	33	5	Nil	1

**For Institute Publications in detail: visit the following link**

[https://nitc.ac.in/imgserver/uploads/attachments/institute-publication\\_bfe677ca-72eb-4dca-b765-0fba1755affb\\_0.pdf](https://nitc.ac.in/imgserver/uploads/attachments/institute-publication_bfe677ca-72eb-4dca-b765-0fba1755affb_0.pdf)

## 6.5 PATENTS PUBLISHED AND GRANTED IN THE YEAR 2022-2023

### DEPARTMENT OF CHEMICAL ENGINEERING

SL. NO	NAME OF STAFF	TITLE	YEAR
1	Dr. Noel Jacob Kaleekkal	Patent Applied: Hydrophobic Membranes Incorporating Iron Oxyhydroxide for Membrane Distillation and Preparation Method Thereof (Application no: 202241066566 filing date: 19.11.2022)	2022
2	Dr. Noel Jacob Kaleekkal	Patent Applied: Superhydrophobic- Omniphobic Membrane for Membrane Distillation with Enhanced Scaling, wetting and Fouling Resistance and Preparation Method Thereof (Application no: 202241065935 filing date 17.11.2022)	2022
3	Dr. Susmita Das	Patent Granted: A needle for puncturing (Indian Patent-419445)	2023

### DEPARTMENT OF CHEMISTRY

SL. NO	NAME OF STAFF	TITLE	YEAR
1.	M. M. Menampambath, R. R. Poolakkandy, K. A. Padmalayam, A. R. Neelakandan and R. G. Krishnamurthy	Non-Enzymatic Electrochemical Sensor For Real Time Detection Of Glutamic Acid And Method Thereof, Patent No. 424149	2023,
2.	M. M. Menampambath, S. K. Chondath, S. N. Varanakkottu	A Method Of In-Situ Synthesizing Polymer/Metal Oxide Ultrathin Composite Sheets At A Liquid/Liquid Interface Patent Application No. 202241071232	2022

3.	M. M. Menamparambath, S. Kanakkayil, N. Puthiyottil, S. K. Parambath and R. G. Krishnamurthy	Gold-Silver Alloy embedded Pedot-Based Non-Enzymatic electrochemical sensor for Histamine detection And Method thereof Patent Application No. 202241050661	2022
4	Dr. Janardhan Banothu	A Regioselective Synthesis of 2-Substituted Benzimidazole (Application No. 202341012233A)	2023
5	Dr. Janardhan Banothu	Regioselective Synthesis of 1,2-Disubstituted Benzimidazole (Application No.202341012231A)	2023
6	G. Unnikrishnan, Dr. Lity Alen Varghese	Multi-stage continuous reactors for manufacturing of superior phenol formaldehyde resole resins	2023 (Filed)
7	G. Unnikrishnan, Dr. Lity Alen Varghese	Nanohydroxyapatite embedded polylactic acid/ethylene -co-vinyl acetate based biodegradable transdermal patches	2023 (Filed)

#### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SL. NO	NAME OF STAFF	TITLE	YEAR
1	Dr. Jimmy Jose, K. N. Ambili	A system and a method for trust-based intrusion detection in a distributed IoT system	2021

#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION

SL. NO	NAME OF THE FACULTY	TITLE	YEAR
1	Dr. Vinay Joseph	Ethernet header compression techniques in New Radio	2023
2	Dr. Vinay Joseph	Multiple configurations with overlapping occasions	2023
3	Dr. Vinay Joseph	Context identifier for packet compression	2023
4	Dr. Vinay Joseph	Enhancements to support multiple semi-persistent resource allocations per serving cell	2023
5	Dr. Vinay Joseph	Systems and methods for autonomous transmission of deprioritized protocol data units	2022
6	Dr. Vinay Joseph	Uplink channel collision resolution for conditional media access control (MAC) layer-based prioritization	2022
7	Dr. Vinay Joseph	Signaling for protocol data unit preemption	2022
8	Dr. Vinay Joseph	Network timing reference synchronization	2022
9	Dr. Vinay Joseph	Broadcast of multiple physical cell identity ranges	2022
10	Dr. Vinay Joseph	Low overhead component carrier selection for multi- component carrier communication	2022
11	Dr. Vinay Joseph	MAC-CE duplication in packet duplication	2022
12	Dr. Vinay Joseph	Enhancement to system information block (SIB) validity check for non-public networks (NPNs)	2022
13	Dr. Vinay Joseph	Conditional negative acknowledgement transmission in multi-component carrier communication	2022



14	Dr. Vinay Joseph	Signaling and medium access control options for preempted scheduling requests	2022
15	Dr. Vinay Joseph	Exchanging service capability exposure function (SCEF)-related information of a user equipment	2022
16	Dr. Vinay Joseph	Signaling timing information for a time sensitive network in a wireless communications system	2022
17	Dr. Vinay Joseph	Cluster-set determination for comp based on reliability and delay budget in URLLC	2022
18	Dr. Sameer S. M.	A Method for Determining Jointly the Carrier Frequency Offset (CFO), Timing Offset and Channel Coefficients in an Orthogonal Frequency Division Multiple Access (OFDMA) Uplink Wireless Communication System	2023

#### DEPARTMENT OF ELECTRICAL AND ELECTRONICS

SL. NO	NAME OF STAFF	TITLE	YEAR
1.	Dr. Sindhu T. K.	A Double-Ended Forward Converter based High Voltage-High Frequency Power Supply for Non-Thermal Plasma Generation	Filed
2.	Dr. Nikhil Sasidharan	Active balancing method for string of ultra capacitors	Filed
3.	Dr. Sunitha R., Dr. Gopakumar Pathirikkat	Qualitative Method for Self-healing of propagating Voltage Disturbances in Power grids proliferated with Converter interfaced resources	Filed
4.	Mr. Sigi C. & Dr. Ashok S.	A device and method for power management in a dc nanogrid power distribution system	2022

#### DEPARTMENT OF MECHANICAL ENGINEERING

SL. NO.	NAME OF STAFF	TITLE	YEAR
1	Dr. Rohinikumar B.	Thermal Management System for Lithium-Ion Battery Modules Based on Variable Thermal Conductivity.	2023
2	Dr. Rohinikumar B.	Design and analysis of a thermochemical energy storage system for drying of perishable products during off-sunshine hours and seasonal applications.	2023
3	Dr. R. Manu, Dr. Jayadeep U. B.	Multi-Mode Friction Stir Welding Tool (Indian Patent No: 429959)	2023
4	Dr. V. Madhusudanan Pillai et al.	A system and method for training users on decentralised supply chain information sharing	Filed
5	Dr. Vineesh K. P., Dr. Sudheer A. P., and Mr. Deepak Kasindi	Automated Robotic System for Cleaning of Railway Tracks	2022 (filed)
6	Dr. Srinivas M., Dr. Jayaraj S.	A Hydrocarbon-based refrigerant mixture for a solar assisted heat pump system	2019

7	Dr. Varaprasad G., Mr. Alok Kumar Samanta	Mudra Prabha-Portable Currency Identification Device for the visually challenged (App No: 2022/06791)	2022
8	Dr. Sudheer A. P., Dr. Hariram Samkar, Dr. Murali Gopal, and Dr. Ajin & Dr. Jacob Joseph	Deployable Retractable Prefabricated Building Structure	2022
9	Dr. Amudhan.A. N. & Dr. Sudheer.A. P.	A Hypermetropic Convolutional Neural Network Device for Small Size Object Detection and A Method Thereof	2022
10	Dr. Amudhan.A. N. & Dr. Sudheer A. P.	CNN Based Method and System for Real-Time Object Detection With Feature Reuse and C Net to Reduce Computations	2022
11	Dr. Sudheer A. P., Dr. Vineesh K. P., Dr. Deepak.K.	Automated Robotic System for Cleaning Railway Tracks	2022

#### DEPARTMENT OF PHYSICS

SL. NO	NAME OF STAFF	TITLE	YEAR
1	Dr. M. K. Ravi Varma	No.202241047278 A: Spectrofluorometer	2022
2	Dr. M. K. Ravi Varma	No.202241053140 A: A Low-Cost Portable Electrochemical Biosensor for Rapid Detection of Endotoxin and Method Thereof (Awarded)	2022
3	Dr. Subramanyan Namboodiri Varanakkottu	No. 202241064409: An Integrated Beam Chopping and Steering System Using a Linear Optical Chopper and Method Thereof	2022
4	Dr. Subramanyan Namboodiri Varanakkottu	No. 202241064410: System for inscribing patterns on metallic nanoparticles layer at Liquid-Liquid Interface and method thereof	2022
5	Dr. Subramanyan Namboodiri Varanakkottu	No. 202341027724: Method for Simultaneous Fabrication and Collection of Ultra-Low Volume Janus Liquid Marbles and Pristine Liquid Marbles	2022

#### DEPARTMENT OF BIOTECHNOLOGY

SL. NO	NAME OF STAFF	TITLE	YEAR
1	Dr. Rajanikant G. K.	Non-Enzymatic Electrochemical Sensor for Real-Time Detection of Glutamic Acid and Method Thereof. [Patent # 424149]	2023
2	Dr. Suchithra T. V.	Novel 4-Diphenylamino 3-Iodo Coumarin and a method for its Isolation.	2022
3	Dr. Suchithra T. V.	Gelatin Based Adhesive Hydrogel as Wound Dressing Patch for Diverse Surface	2022

4	Dr. Suchithra T. V.	Microbial Consortium based Cement Composites for Sustainable Self-healing and Improved Structural Properties	2022 published
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#### DEPARTMENT OF MATERIAL SCIENCE

SL. NO	NAME OF STAFF	TITLE	YEAR
1	Dr. N. Sandhyarani	A Low-Cost Portable Electrochemical Biosensor for Rapid Detection of Endotoxin and Method Thereof	2023

### 6.6 ACHIEVEMENTS TOOK PLACE DURING THE YEAR 2022-2023

#### DEPARTMENT OF ARCHITECTURE

##### a. Other Academic and Administrative Services

NAME OF STAFF	ACADEMIC AND ADMINISTRATIVE SERVICES
Dr. Kasthurba A. K.	Heading the Department of Architecture and Planning from July 2021.
	Chairperson CYHW
Dr. Anilkumar P. P.	Dean (Alumni)
Dr. Naseer M. A.	Dean (Planning and Development)
	Member, Senate
	Member, Building Works Committee
	Member, Building Works Technical Advisory Committee
	Member, Centre for Logistics and Supply Chain Management
Dr. Chithra K.	Member, Institute Master Plan Committee
	ACoFAR Representative ,DAP
	PhD co-ordinator, DAP
Dr. Shyni Anilkumar	Consultancy co-ordinator, DAP
	Associate, Dean Students' Welfare
	Faculty-in-Charge, Institute Swimming pool
	Faculty-in-Charge, Unnat Bharat Abhiyan cell, NITC
Dr. Bimal P.	Nodal Officer, International year of Millets (2023)
	FA, Batch 2021 (MPlan.)
	NIRF & NBA co-ordinator, DAP
Dr. Amritha P. K.	Purchase co-ordinator, DAP
	FA, Batch 2020 (B.Arch.)
	Department-Exam Coordinator
	Member, Center for Information, Technology, Research and Automation (CITRA)
Dr. Sanil Kumar	Member, Centre for Women Welfare and Social empowerment (CWSE)
	Member, Institute Master Plan Committee

	Member, Centre for Logistics and Supply Chain Management
	Member, C-PRIME
	FA, Batch 2022 (B.Arch.)
	Member, Department Time Table Committee
	SPOC, DAP (Media Relations)
	Member, NIRF and NBA Committee (DAP)
	Member, Magazine and Newsletter Committee (DAP)
Ar. Ritesh Ranjan	FA, Batch 2021 (B.Arch.)
	Member, Space Planning Committee for Admin Building
	Member, Centre for Yoga and Holistic Wellness
	Member, Centre for Cultural and Art Relations

**b. Conferences/Summer/Winter School/Short term Courses/ Workshops conducted**

SL.NO	TITLE	COORDINATORS	DURATION & PERIOD
1	Global Initiative for Academic Networks (GIAN)	Dr. Kasthurba A. K.	13 <sup>th</sup> to 18 <sup>th</sup> November, 2022
2	AESDP on Interior & Landscape Design	Dr. Kasthurba A. K.	20 <sup>th</sup> to 25 <sup>th</sup> February, 2022
3	Architectural Design Enhancement & Modelling - 2022 (ADEM-2022)	Dr. Chithra K., Dr. Amritha P. K., Dr. Deepthi Bendi, Dr. Sanil Kumar, Er. Riya Robi, Ar. Suchitra Karthik	28 <sup>th</sup> April to 2 <sup>nd</sup> May, 2022

**c. Expert lectures delivered in Conferences/Seminar/Workshops**

SL. NO.	NAME OF STAFF	TITLE OF THE PROGRAMME	DURATION AND PERIOD	ORGANIZATION
1	Dr. Shyni Anilkumar	One day training program "Disaster Resilient Construction for Govt. Contractors and Masons	13.12.2022	District Disaster Management Authority, Wayanad
2	Dr. Shyni Anilkumar	on Flood Resilient Construction: Materials and Methods in the one-day training program "Disaster Resilient Construction for Govt. Contractors and Masons "held at Sulthan Bathery	23.11.2022	District Disaster Management Authority, Wayanad
3	Dr. Shyni Anilkumar	Flood Resilient Construction: Materials and Methods in the one-day training program "Disaster Resilient Construction for Govt. Engineers" held at Kalpetta	22.11.2022	District Disaster Management Authority, Wayanad

4	Dr. Sanil Kumar	Research Methodologies in Architecture	13-14 July 2022	KLE Technological University, Belgavi
5	Dr. Amritha P. K.	Entrepreneurship Skill Development Programme (MSME Funded Programme): Landscape and Interior Design	20th February 2023 – 25th February 2023	NIT Calicut in Association with Ministry of Micro, Small and Medium Enterprises & Technology Business Incubator
6	Ar. Ritesh Ranjan	Estimation and Specification for Interior Design Projects: Entrepreneurship Skill Development Programme (MSME Funded Programme): Landscape and Interior Design	20th February 2023 – 25th February 2023	NIT Calicut in Association with Ministry of Micro, Small and Medium Enterprises & Technology Business Incubator
7	Ar. Ritesh Ranjan	Estimation and Specification for Interior Design Projects: Certificate Program in Interior Design by ASAP, Govt. of Kerala	Mar 2023 to June 2023 (ongoing)	NITC in association with Govt of Kerala
7	Dr. Jayasree T. K.	Solar geometry and Shading Design in 5 Day workshops on Solar Passive Architecture and Thermal Comfort	10/04/2023 to 14/04/2023	National Institute of Technology Patna
8.	Ar. Kiriti Sahoo	Energy Efficiency through Interior and Landscape Design	20th February 2023 – 25th February 2023	NIT Calicut in Association with Ministry of Micro, Small and Medium Enterprises & Technology Business Incubator

## DEPARTMENT OF CHEMICAL ENGINEERING

### a. Other Academic and Administrative Services

NAME OF STAFF	ACADEMIC AND ADMINISTRATIVE SERVICES
Dr. Haribabu K.	<ul style="list-style-type: none"> <li>• Head of the Department – Chemical Engineering</li> <li>• Vice Chairperson – Centre for Student Activities and Sports (CSAS)</li> <li>• Head of the Department - Physical Education</li> <li>• Associate Dean - Dean Students Welfare</li> </ul>

	<ul style="list-style-type: none"> <li>• Warden – MBA Hostel</li> <li>• Faculty Coordinator – Indian Council for Cultural Relations (ICCR)</li> <li>• Member – Centre for Cultural and Art Relations</li> </ul>
Dr. Teja Reddy Vakamalla	<p>Institute</p> <ul style="list-style-type: none"> <li>• National Academic Depository (NAD) Co-Coordinator</li> <li>• Warden Mega Hostel</li> <li>• UG Admissions Committee</li> <li>• Member of Center for Industry Institute Relations</li> <li>• Convocation Committee Member</li> <li>• Arrangement Committee Member for NBA Visit</li> </ul> <p>Department</p> <ul style="list-style-type: none"> <li>• Convener, UG Curriculum revision committee</li> <li>• Computer lab incharge</li> <li>• DOC Incharge</li> <li>• UG thesis evaluation committee member</li> <li>• Finance Committee member</li> </ul>
Dr. Lity Alen Varghese	<ul style="list-style-type: none"> <li>• UG Admission chairperson</li> <li>• Institute curriculum revision committee member</li> <li>• Chemical Analysis Lab in charge</li> <li>• DUGC Chairperson</li> <li>• S6 Class committee chairperson</li> <li>• Member NBA committee</li> </ul>
Dr. V. Sivasubramanian	<ul style="list-style-type: none"> <li>• NBA Coordinator</li> <li>• Senate Member</li> <li>• Chairman Department Research Committee</li> <li>• Chairman PG Revision Committee</li> <li>• Chairman - UG Project</li> <li>• First Year Coordinator and Faculty Advisor</li> <li>• S8 Class Committee Chairman</li> <li>• Department Purchase Committee Member</li> <li>• Center for IKS Member</li> <li>• Convocation Registration Committee Member</li> </ul>
Dr. Noel Jacob Kaleekkal	<ul style="list-style-type: none"> <li>• Convener PG Curriculum revision committee</li> <li>• Convener Department Research Committee</li> <li>• Department Purchase coordinator</li> <li>• Member NBA committee</li> <li>• Faculty Advisor Industrial and Planning Forum Club</li> <li>• UG Faculty Advisor</li> <li>• Lab-in-charge</li> <li>• Member CQAE &amp; IIC</li> </ul>
Dr. Susmita Das	<ul style="list-style-type: none"> <li>• Department placement coordinator</li> <li>• mechanical operation lab in charge</li> <li>• Member of IIC</li> <li>• UG Faculty Advisor</li> <li>• Member NBA committee</li> </ul>
Dr. Subhasis Mandal	<ul style="list-style-type: none"> <li>• Chemical Reaction Engineering Lab in charge</li> <li>• Faculty advisor</li> </ul>

Dr. Vineesh Ravi	<p>Institute</p> <ul style="list-style-type: none"> <li>• Health Centre in Charge</li> <li>• Sports Council Member</li> <li>• Fit India Coordinator</li> </ul> <p>Department</p> <ul style="list-style-type: none"> <li>• Heat Transfer Laboratory in Charge</li> <li>• Finance Committee member</li> <li>• CHEA Coordinator</li> </ul>
Dr. Ahammed Sherief K. Y.	<ul style="list-style-type: none"> <li>• Department UG Curriculum Revision Committee Member</li> </ul>
Dr. S. Bhuvaneshwari	<p>Institute</p> <ul style="list-style-type: none"> <li>• Ambassador-institution's innovation council</li> <li>• Convocation Committee Member</li> </ul> <p>Department</p> <ul style="list-style-type: none"> <li>• PhD Coordinator</li> <li>• Mechanical operations lab in charge</li> <li>• UG Faculty Advisor</li> <li>• NBA Committee Member</li> <li>• Finance Committee member</li> </ul>
Dr. Praveen Kumar G.	<p>Institute</p> <ul style="list-style-type: none"> <li>• Ambassador-institution's innovation council</li> <li>• Member of CST</li> <li>• NSS officer</li> </ul> <p>Department</p> <ul style="list-style-type: none"> <li>• PG Curriculum revision committee member</li> <li>• Member NBA committee</li> <li>• Faculty Advisor</li> <li>• UG Faculty Advisor</li> <li>• Lab-in-charge</li> <li>• Chemical Analysis lab</li> <li>• DUGC member</li> </ul>
Dr. Shiny Joseph	<ul style="list-style-type: none"> <li>• Secretary PTA</li> <li>• member, AQMC</li> <li>• Lab in charge, Instrumental Analysis Lab,</li> <li>• Class Committee Chairperson, S8 B. Tech,</li> <li>• Faculty Advisor, B19 Batch</li> </ul>
Dr. Malladi V. Pavan Kumar	<p>Institute</p> <ul style="list-style-type: none"> <li>• Nodal Officer (All India Survey on Higher Education - AISHE portal)</li> </ul> <p>Department</p> <ul style="list-style-type: none"> <li>• M.Tech. Chemical Engineering 2021 Admissions - faculty Advisor</li> <li>• B.Tech. Chemical Engineering 2019 Admissions - Faculty Advisor in 8th semester</li> </ul> <p>Advisor in 8th semester</p> <ul style="list-style-type: none"> <li>• Time table in-charge</li> </ul>
Dr. Aparna K.	<ul style="list-style-type: none"> <li>• HOD upto Aug 2022</li> <li>• Coordinator for EWS matters in Equal Opportunity Cell</li> <li>• M Tech Coordinator and Faculty Advisor</li> <li>• Faculty in charge of FM Lab</li> </ul>

Dr. P. Swapna Reddy	<ul style="list-style-type: none"> <li>• Faculty Advisor for the BTech 2019 batch</li> <li>• Under Graduate Project Evaluation Committee</li> <li>• Class Committee Chairperson</li> <li>• DCC Chairperson</li> <li>• LAC Main Library</li> </ul>
Dr. Aniruddha Sanyal	<ul style="list-style-type: none"> <li>• Departmental UG Curriculum Revision Committee Member</li> </ul>
Dr. Panneerselvam Ranganathan	<ul style="list-style-type: none"> <li>• Member, PG Curriculum revision committee,</li> <li>• Member, Department Research Committee</li> <li>• Secretary, DCC</li> <li>• Member, Department NBA committee</li> <li>• Faculty in charge, Chemical Reaction Engineering Lab,</li> <li>• Member, UG project evaluation committee</li> <li>• Faculty Advisor, B. Tech Chemical- 2017 and 2022 Admissions</li> <li>• Vice-chairperson, Centre for Sustainable technologies</li> <li>• Member, Centre for Innovation, Entrepreneurship and Incubation (CIEI)</li> <li>• Member, Institute level Research &amp; Consultancy Committee (IRCC)</li> </ul>
Dr. M. Yogesh Kumar	<p>Institute</p> <ul style="list-style-type: none"> <li>• Faculty in charge, Students' Guidance Cell</li> <li>• Faculty Coordinator - Indian Council for Cultural Relations &amp; Study in India</li> <li>• Member, Center for International Relations and Foreign Languages</li> </ul> <p>Department</p> <ul style="list-style-type: none"> <li>• Faculty in charge, Mass Transfer Laboratory</li> <li>• Member, UG project evaluation committee</li> <li>• Faculty Advisor, B1 Batch, B. Tech Chemical- 2017 and 2022 Admissions</li> </ul> <p>Admissions</p> <ul style="list-style-type: none"> <li>• Member, UG Curriculum revision committee</li> <li>• Coordinator, Department Students' Guidance Cell</li> </ul>
Dr. Dhanya Ram V.	<ul style="list-style-type: none"> <li>• PTA Joint Secretary cum Treasurer,</li> <li>• Faculty Advisor 2020 Admission,</li> <li>• Member, MTech Project Evaluation Committee.</li> <li>• Process Control Lab in charge,</li> <li>• Member, UG Curriculum Revision Committee</li> </ul>
Dr. Shivanandkumar Veeram	<p>Institute</p> <ul style="list-style-type: none"> <li>• Member, Chemical Waste Management, Center of Sustainable Technologies.</li> </ul> <p>Department</p> <ul style="list-style-type: none"> <li>• Member, PG Curriculum Revision Committee</li> <li>• Member of Organizing committee, Institute-Industry Conclave, 2023</li> </ul>
Dr. Chandra Shekar Besta	<p>Institute</p> <ul style="list-style-type: none"> <li>• NCC Officer</li> <li>• CIRFL Member</li> <li>• IIC Member</li> </ul>



	<ul style="list-style-type: none"> <li>• Warden - MBH1</li> <li>• Disciplinary Action Committee Member</li> <li>• Anti-ragging Committee Member</li> <li>• Committee for SAC Rules and Regulations Member</li> <li>• Purchase Committee CIRFL</li> <li>• Institute Sports Council Member</li> <li>• Center of Excellence in Logistics and Supply Chain management - Member.</li> </ul>
	Department <ul style="list-style-type: none"> <li>• Exam Cell Coordinator.</li> <li>• Faculty in Charge - Process Dynamics and Control Lab.</li> <li>• Faculty in Charge -Chemical Reaction Engineering Lab</li> <li>• Faculty Advisor - B1 Batch, (B20).</li> </ul>
Dr. Ranjith P. M.	Department <ul style="list-style-type: none"> <li>• Member of Industry-Institute conclave 2023</li> </ul>
Dr. Fathima Fasmin	<ul style="list-style-type: none"> <li>• LH Warden</li> <li>• Member of CEVE</li> <li>• Member of Department Research Committee</li> <li>• Faculty Advisor</li> <li>• Lab in charge of Mass Transfer lab</li> <li>• LAC member</li> </ul>
Dr. Sudev Das	<ul style="list-style-type: none"> <li>• Secretary, CREC-SJET</li> <li>• Nodal Officer, EBSB</li> <li>• Member, Unnat Bharat Ubhijan</li> <li>• PG Admission committee member</li> <li>• UG Faculty Advisor</li> <li>• Research Lab In charge</li> </ul>

**b. Conferences /Summer /Winter School /Short term Courses / Workshops conducted**

SL.NO	TITLE	COORDINATORS	DURATION & PERIOD
1	Two Week Hybrid Faculty Development Programme Under AICTE Training & Learning (ATAL) Academy on” Sustainable and robust electrochemical technologies for industrial applications” (SRETIA 2022)	Dr. V. Sivasubramanian Dr. S. Bhuvaneshwari	Two Weeks & 21st November – 2nd December 2022
2	1st International conference in “Fluid, Thermal and Energy Systems”	Dr. Teja Reddy Vakamalla Dr. Sudev Das	June 9-11, 2022
3	MSME Sponsored Advanced Entrepreneurship Skill Development Program in Process Design and Development for Industrial Applications	Dr. Panneerselvam Ranganathan	March 6-11 2023
4	GIAN course “191020B02: Tailored polymeric membranes for bio-separations and biomedical applications ”	Dr. Noel Jacob Kaleekkal	26-09-2022 to 30-09-2022

**c. Expert lectures delivered in Conferences/Seminar/workshops**

SL. NO.	NAME OF STAFF	TITLE OF THE PROGRAMME	DURATION AND PERIOD	ORGANIZATION
1	Dr. V. Sivasubramanian	Two Week Hybrid Faculty Development Programme Under AICTE Training & Learning (ATAL) Academy on” Sustainable and robust electrochemical technologies for industrial applications” (SRETIA 2022)	30.11.2022	NIT Calicut
2	Dr. V. Sivasubramanian	Two Week Hybrid Faculty Development Programme Under AICTE Training & Learning (ATAL) Academy on” Sustainable and robust electrochemical technologies for industrial Applications” (SRETIA 2022)	26.11.2022	NIT Calicut
3	Dr. V. Sivasubramanian	Expert Lecture	18.11.2022	VIT, Vellore, Tamil Nadu
4	Dr. Teja Reddy Vakamalla	Webinar Lecture Series on Emerging Trends and Applications in Chemical Engineering	August 5, 2022	Department of Chemical Engineering, Rajalakshmi Engineering College
5	Dr. Panneerselvam Ranganathan	Energy Summit 2022	9th December 2022	The Energy Consortium, IIT Madras
6	Dr. Panneerselvam Ranganathan	KTU FDP Programme on "Sustainable Bioreactor Processes and Applications in Bioenergy and Bio-waste Management	1st February 2023	Department of Biotechnology, SAHRDAYA College of Engineering & Technology
7	Dr. Noel Jacob Kaleekkal	Features and Opportunities for Chemical Engineer	9 <sup>th</sup> May 2022	Rajalakshmi Engineering College
8	Dr. Noel Jacob Kaleekkal	International Conference on “Advanced Materials for Environmental Protection (ICAME-2022)”	19 <sup>th</sup> - 21 <sup>st</sup> October, 2022	Sathyabama Institute of Science and Technology jointly with University of Technology Sydney, Australia
9	Dr. Noel Jacob Kaleekkal	International Online FDP on “Novel & Sustainable Membrane Technology	19 <sup>th</sup> October 2022	Siddaganga Institute of Technology, Tumakuru

10	Dr. Noel Jacob Kaleekkal	DST-sponsored "Synergistic Training program Utilizing the Scientific and Technological Infrastructure (STUTI)" on Challenges and opportunities in Water Sanitation & Hygiene	29 <sup>th</sup> January 2023	Department of Bioengineering, NIT Agartala, Tripura, India
11	Dr. Noel Jacob Kaleekkal	KTU Sponsored Faculty Development Programme on Clean Technologies for Energy and Environmental Applications	14 <sup>th</sup> February 2023	Department of Chemical Engineering, Saintgits College of Engineering
12	Dr. Noel Jacob Kaleekkal	Advanced Entrepreneurship Skill Development Program on Advanced Materials for Affordable Healthcare	21 <sup>st</sup> February 2023.	School of Materials Science and Engineering & Technology Business Incubator, National Institute of Technology Calicut in association with Ministry of Micro/Small and Medium Enterprises
13	Dr. Noel Jacob Kaleekkal	FDP on NanoTechnology- Fundamentals to Research	27 February 2023	GEC-Kozhikode
14	Dr. Aniruddha Sanyal	Invited Speaker in a Seminar on "Flow Assurance in Crude Oil Pipeline".	1st March 2023	Jaipur National University, Jaipur, Rajasthan

## DEPARTMENT OF CIVIL ENGINEERING

### a. Community Services

Dr. Santosh G. Thampi	<ul style="list-style-type: none"> <li>Member, State Committee on Dam Safety, Kerala, since 07.11.2022</li> <li>Member, Faculty of Engineering, Bangalore University</li> <li>Member, Department Advisory Board - Government Engineering College, Thrissur, and</li> <li>Member, Board of Studies (Civil Engineering) - Madanappalle Institute of Technology and</li> <li>Reviewer of PhD Theses – IIT Madras, NIT Silchar, Anna University, Kerala University,</li> </ul>
Dr. M. Sivakumar	<ul style="list-style-type: none"> <li>Member, Department Academic Advisory Council (DAAC), Muthayammal Engineering College (Autonomous), Namakkal, Tamil Nadu</li> </ul>
Dr. R. Arunkumar	<ul style="list-style-type: none"> <li>Chaired a session (ICCMS-2022) in the Second International Conference on Construction Materials and Structures (ICCMS-2022) organized by Department of Civil Engineering, National Institute of Technology Calicut during 13-19 December 2022</li> </ul>
Dr. Anantha Singh T. S.	<ul style="list-style-type: none"> <li>Attended NSS camp at Palakkad Tribal Area and rejuvenated tribal school and educated the children</li> <li>Part of the institute waste disposal committee and Convener of the abundant bus scrap committee</li> </ul>

	<ul style="list-style-type: none"> <li>Part of the one local Government one idea, expert committee in drafting the solutions for local government problems</li> </ul>
Dr. Yogeshwar V. Navandar	<ul style="list-style-type: none"> <li>Advisory Board Member, NORISK - Erasmus Mundus Masters - Associated Partner University of Minho (Portugal) and Sandip University, Nasik</li> <li>Reviewed Ph.D. Theses - Gujarat Technical University, and Rajkot University</li> </ul>

#### Other Academic and Administrative Services

<b>NAME OF STAFF</b>	<b>ACADEMIC AND ADMINISTRATIVE SERVICES</b>
Dr. Santosh G. Thampi	<ul style="list-style-type: none"> <li>Professor &amp; Head, Dept. of Civil Engineering</li> <li>Faculty i/c, Water Resources Engineering Laboratory</li> <li>Member in many Doctoral Committees</li> <li>Member of the Senate of NITC</li> </ul>
Dr. S. Chandrakaran	<ul style="list-style-type: none"> <li>Member in many Doctoral Committees</li> <li>Member of the Senate of NITC</li> </ul>
Dr. M. V. L. R. Anjaneyulu	<ul style="list-style-type: none"> <li>Member in many Doctoral Committees</li> <li>Member of the Senate of NITC</li> </ul>
Dr. N. Sankar	<ul style="list-style-type: none"> <li>Co-ordinator, Department Vigilance Committee</li> <li>Member of the Departmental Purchase Committee</li> <li>Member in many Doctoral Committees</li> <li>Member of the Senate of NITC</li> </ul>
Dr. A. P. Shashikala	<ul style="list-style-type: none"> <li>Chairman, S7 Class Committee</li> <li>Programme Co-ordinator, M. Tech. (Offshore Structures) – (2020 Admissions)</li> <li>Member in many Doctoral Committees</li> <li>Member of the Senate of NITC</li> </ul>
Dr. T. M. Madhavan Pillai	<ul style="list-style-type: none"> <li>Member in many Doctoral Committees</li> <li>Member of the Senate of NITC</li> </ul>
Dr. J. Sudhakumar	<ul style="list-style-type: none"> <li>Dean (Faculty Welfare)</li> <li>Member of the Departmental Purchase Committee</li> <li>Member in many Doctoral Committees</li> <li>Member of the Senate of NITC</li> </ul>
Dr. Mohammed Ameen	<ul style="list-style-type: none"> <li>President, Civil Engineering Association</li> <li>Books &amp; Periodicals for College Library</li> <li>Member in many Doctoral Committees</li> <li>Member of the Senate of NITC</li> </ul>
Dr. K. Krishnamurthy	<ul style="list-style-type: none"> <li>Departmental Time Table Coordinator</li> <li>Departmental Ph D Coordinator</li> <li>Member in many Doctoral Committees</li> <li>Member of the Senate of NITC</li> </ul>
Dr. Praveen Nagarajan	<ul style="list-style-type: none"> <li>President of ICI Chapter, NITC</li> <li>Departmental NBA Co-ordinator</li> <li>Member in many Doctoral Committees</li> <li>Member of the Senate of NITC</li> </ul>
Dr. Sajith A. S.	<ul style="list-style-type: none"> <li>Superintending Engineer (i/c), Engineering Unit, NITC</li> </ul>

	<ul style="list-style-type: none"> <li>• Programme Coordinator (M.Tech. Structural Engineering 2021 Admissions)</li> <li>• Member in many Doctoral Committees</li> <li>• Member of the Senate of NITC</li> </ul>
Dr. Kodi Ranga Swamy	<ul style="list-style-type: none"> <li>• Member, Departmental Vigilance Committee</li> <li>• Member in many Doctoral Committees</li> </ul>
Dr. Chitra N. R.	<ul style="list-style-type: none"> <li>• Faculty i/c, Examinations of the Institute</li> <li>• Convener of the Committee for revision of Rules and Regulations</li> <li>• Member in the IRCC (Institute Level Research &amp; Consultancy Committee) from the Department</li> <li>• Faculty Advisor for 2021 batch students</li> <li>• Member in many Doctoral Committees</li> </ul>
Dr. George K. Varghese	<ul style="list-style-type: none"> <li>• Member in many Doctoral Committees</li> <li>• DR Establishment (charge for six months)</li> </ul>
Dr. Harikrishna M.	<ul style="list-style-type: none"> <li>• Faculty Representative of IQAC, October 2022 onwards</li> <li>• Chairperson of the Committee constituted to prepare specifications for the Academic Module of IMS</li> <li>• Programme Co-ordinator, PG Programme in Traffic and Transportation Planning 2021 Admissions</li> <li>• Vice Chairperson (Placement), Centre for Career Development, 03-03-2022 – 09-01-2023.</li> <li>• Faculty Co-ordinator – CED – Student Mentorship Programme initiated by NITCUSAAA Chapter – 21-08-2017 – till date.</li> <li>• Member in many Doctoral Committees</li> </ul>
Dr. Sathish Kumar D.	<ul style="list-style-type: none"> <li>• Associate Dean (Planning &amp; Development)</li> <li>• Faculty In-charge, Water Resources Engineering Lab</li> <li>• Faculty Advisor, B Tech, 2019-2023 batch</li> <li>• Programme Coordinator, M Tech (Water Res. Engg.) 2022 Admissions</li> <li>• Member in many Doctoral Committees</li> </ul>
Dr. Robin Davis	<ul style="list-style-type: none"> <li>• Warden, PG1 Hostels</li> <li>• Chairman, Room Allotment Committee, Hostels</li> <li>• Member of Project Monitoring Committee, OAT</li> <li>• Member in many Doctoral Committees</li> </ul>
Dr. Anjana Bhasi	<ul style="list-style-type: none"> <li>• Faculty Advisor</li> <li>• Vice President, CEA</li> <li>• Member, IRG committee</li> <li>• Member in many Doctoral Committees</li> </ul>
Dr. M. Sivakumar	<ul style="list-style-type: none"> <li>• Programme Coordinator, M Tech (Traffic &amp; Trans. Planning) 2022 Admissions</li> <li>• Faculty Advisor, B.Tech. in Civil Engineering, 2019 Admissions</li> <li>• Faculty i/c, Scrutiny of applications for PhD and M Tech (non-GATE)</li> <li>• Faculty i/c, Transportation Engineering Laboratory</li> <li>• Secretary to the Department</li> <li>• Member in many Doctoral Committees</li> </ul>

Dr. Mini Remanan	<ul style="list-style-type: none"> <li>• Programme Co-ordinator of M Tech Structural Engineering 2022 Admissions</li> <li>• Faculty in charge, Structural Engineering Lab</li> <li>• Member in many Doctoral Committees</li> </ul>
Dr. Pramada S. K.	<ul style="list-style-type: none"> <li>• Faculty Advisor, BTech Civil Engineering 2020 Admissions</li> <li>• Programme coordinator, MTech Water Resources Engineering (2021 Admissions)</li> <li>• Member, Library Advisory Committee</li> <li>• Member, Vigilance Committee</li> <li>• Member, Departmental Purchase Committee</li> <li>• Member, Centre for International Relations &amp; Foreign Languages</li> <li>• Member in many Doctoral Committees</li> </ul>
Dr. Anantha Singh T. S.	<ul style="list-style-type: none"> <li>• Under Graduate Admission Process (B. Tech / B. Arch) at NIT Calicut for the year 2022-2023</li> <li>• NITC Hostel Warden (MBH1) upto 16-08-2022</li> <li>• Associate Dean (P&amp;D) since 17-08-2022</li> <li>• Member, Center for Sustainable Technologies</li> <li>• Program Officer NSS</li> <li>• Member in many Doctoral Committees</li> <li>• Institute Management System (IMS) member for Sponsored Research, Consultancy, Incubation Management</li> <li>• Faculty Advisor 2020-2024 Batch</li> <li>• Faculty-in-charge of Environmental Engineering Lab</li> </ul>
Dr. Aswathy E. V.	<ul style="list-style-type: none"> <li>• Faculty Advisor, B Tech (Civil Engineering) 2021 Admissions</li> <li>• Associate Dean (Faculty Welfare)</li> <li>• Faculty-in-charge of Environmental Engineering Lab</li> <li>• Convenor, Department AQMC</li> <li>• Member, Department Purchase Committee</li> <li>• Member, EBSB Club</li> <li>• Member, CWSE</li> <li>• Member in many Doctoral Committees</li> </ul>
Ms. Reesha Bharath K.	<ul style="list-style-type: none"> <li>• Faculty Advisor, B. Tech. (Civil Engineering), 2019 Admissions</li> </ul>
Dr. R. Arunkumar	<ul style="list-style-type: none"> <li>• Institute SWAYAM Coordinator (ISC) from Dec 2022 onwards.</li> <li>• Departmental Nominee, Student Placement</li> <li>• Member, IMS Academic Module</li> <li>• Member in many Doctoral Committees</li> <li>• Faculty in charge, Departmental Webpage</li> </ul>
Dr. K. V. Anand	<ul style="list-style-type: none"> <li>• Faculty Advisor, B. Tech (Civil Engineering), 2019 Admissions</li> <li>• Programme Coordinator, MTech. (Offshore Structures) -2021 Admissions</li> <li>• Faculty in charge, Offshore Engineering Laboratory</li> <li>• Member, Department Vigilance Committee</li> <li>• Member, Department Level Student Counselling</li> </ul>
Dr. Renjitha Mary Varghese	<ul style="list-style-type: none"> <li>• Faculty i/c, Geotechnical Engineering Lab</li> <li>• Member in many Doctoral Committees</li> </ul>

Dr. Agilan V.	<ul style="list-style-type: none"> <li>• Faculty i/c, Surveying Lab</li> <li>• Faculty Advisor, B. Tech Civil Engineering, 2022 Admissions</li> <li>• Member in two Doctoral Committees</li> <li>• Member, Centre of Excellence in Logistics and Supply Chain Management</li> <li>• Member, Non-Teaching Staff Restructuring Committee</li> <li>• Member, Institute Master Plan Committee</li> <li>• Member, Review Department Promotion Committee (DPC) - 2016</li> <li>• Member, Department Promotion Committee (DPC)-2017-2022</li> </ul>
Dr. Yogeshwar V. Navandar	<ul style="list-style-type: none"> <li>• Coordinator (International Students and Scholars ISSO) under the Centre for International Relations and Foreign Languages (CIRFL), NIT Calicut</li> <li>• Member, Centre of Excellence in Logistic and Supply Chain Management (CoELSCM), NIT Calicut</li> </ul>
Dr. Jayachandran K.	<ul style="list-style-type: none"> <li>• Faculty Advisor B.Tech. Civil Engineering 2021 Admissions</li> <li>• Member, Centre for Centre for Yoga and Holistic Wellness</li> <li>• Member, Centre for Indian Knowledge Systems</li> <li>• Member, Centre for Excellence in Logistics and Supply Chain Management</li> <li>• Member, Centre for UAVs</li> <li>• Faculty i/c Concrete Laboratory</li> <li>• Member in many Doctoral Committees</li> </ul>
Dr. Seethalakshmi P.	<ul style="list-style-type: none"> <li>• Faculty Advisor B.Tech Civil Engineering 2020 Admissions</li> <li>• Programme Coordinator, M.Tech Environmental Geotechnology 2022</li> <li>• Faculty i/c, Departmental Library</li> <li>• Member, C-PRIME</li> <li>• Warden, Ladies Hostel, NITC</li> <li>• Member in many Doctoral Committees</li> </ul>
Dr. Muhamed Safeer Pandikkadavath	<ul style="list-style-type: none"> <li>• Faculty Advisor, B.Tech (Civil Engineering) – 2019 Admissions</li> <li>• Member in many Doctoral Committees</li> </ul>
Dr. Anil Kumar Dash	<ul style="list-style-type: none"> <li>• Faculty Advisor for B.Tech (Civil Engineering) – 2021 Admissions</li> <li>• Faculty-in-charge, CAD Lab for B Tech students</li> </ul>
Dr. Madhavan K.	<ul style="list-style-type: none"> <li>• Faculty i/c, Geology Lab</li> <li>• Member, Centre for Indian Knowledge Systems</li> </ul>
Dr. Ajeesh S. S.	<ul style="list-style-type: none"> <li>• Department representative in the Committee for drafting Vision 2047 of NITC</li> <li>• Member in many Doctoral Committees</li> </ul>
Dr. Prateek Negi	<ul style="list-style-type: none"> <li>• Vice Chairperson, Centre for Career Development</li> </ul>
Dr. Munavar Fairouz C.	<ul style="list-style-type: none"> <li>• Member, Centre of Excellence in Logistics and Supply Chain Management</li> </ul>
Dr. M. Abdul Akbar	<ul style="list-style-type: none"> <li>• Member, Centre for Bioscience and Bioengineering</li> <li>• Faculty advisor, B Tech (Civil Engineering) 2022 Admissions</li> <li>• Faculty i/c, Structural Engineering Lab</li> </ul>

**b. Conferences/ Summer/ Winter School/ Short term Courses/ Workshop Conducted**

SL. NO.	TITLE	COORDINATORS	DURATION & PERIOD
1	FDP on Recent Advances in Infrastructure Developments (RAID)	Dr. Praveen Nagarajan, Dr. Yogeshwar V. Navandar, Dr. Hillol Chakravarty	6 days 13 <sup>th</sup> to 18 <sup>th</sup> February 2023
2	FDP on Software Applications in Water and Environmental Engineering	Dr. S. K. Pramada, Dr. Marykutty Abraham (Scientist E, Sathyabama Institute of Science and Technology)	7 days 15 <sup>th</sup> to 21 <sup>st</sup> February 2023
3	FDP on Decision Modelling in Logistics and Transportation Industry	Dr. Vinay V. Panicker (Coordinator) Dr. Harikrishna M. (Co-Coordinator)	February 27 - March 03 2023
4	FDP on Port Development, Operations and Management	Dr. Yogeshwar V. Navandar, Dr. Vinay Panicker, Dr. Nishant Mukund Pawar	49 days 5 <sup>th</sup> March to 22 <sup>nd</sup> April 2023
5	FDP on Strategic Management in Rail and Road Transportation System	Dr. Harikrishna M. (Coordinator) Dr. Vinay V. Panicker (Co-Coordinator)	5days 6 <sup>th</sup> to 10 <sup>th</sup> March 2023
6	FDP on Recent Developments and Advancements in Transportation Engineering (RDATE2023)	Dr. Nishant Mukund Pawar Dr. Munavar Fairouz C. Dr. Hillol Chakravarty Dr. Yogeshwar V. Navandar	6 days 13 <sup>th</sup> to 18 <sup>th</sup> March 2023
7	Second International Conference on Construction Materials and Structures	Dr. J. Sudhakumar, Dr. Blessen Skariah Thomas	13-19 December 2022

**c. Expert Lecturers Delivered in Conferences/ Seminar/ Workshops**

SL. NO.	NAME OF STAFF	TITLE OF THE PROGRAMME	DURATION AND PERIOD	ORGANIZATION
1	Dr. Anil Kumar Dash	FDP on Foundations of Computational Fluid Dynamics for Marine Technology	17-18 March 2023	Department of Ship Technology, Cochin University of Science and Technology
2	Dr. Harikrishna M.	STTP on "Recent Developments and Advancements in Transportation Engineering (RDATE2023)"	One week 13 – 18 March 2023	NIT Calicut



3	Dr. Jayachandran K.	Virtual FDP on “Advances in Sustainable Construction Materials and Technologies	19 days 8-27 July 2022	ICT Academy, National Institute of Technology (NIT) Warangal, BITS-Pilani, Hyderabad Campus
4	Dr. Jayachandran K.	1-day workshop on Quality Control in Building Materials	1 day 10-09-2022	K. S. Rangasamy College of Technology, Tiruchengode
5	Dr. Jayachandran K.	FDP on Recent Advances in Infrastructure Developments (RAID 2023)	6 days 13-18 February 2023	Department of Civil Engineering, NIT Calicut
6	Dr. Jayachandran K.	Research Scholars Meeting on Electrochemistry, Corrosion and Coatings (RSM-ECC)	1 day 25 <sup>th</sup> February 2023	NACE International Gateway India Section (NIGIS) South Zone
7	Dr. K. Krishnamurthy	FDP on Recent Advances in Infrastructure Developments (RAID 2023)	6 days 13-18 February 2023	Department of Civil Engineering, NIT Calicut
8	Dr. K. Krishnamurthy	Recent Developments and Advancements in Transportation Engineering (RDATE2023)	6 days 13–18 March 2023	Department of Civil Engineering, NIT Calicut
9	Dr. K. Krishnamurthy	Training for Motor Vehicle Department Officials	3 days 16-18 March 2023	NATPAC, Trivandrum
10	Dr. K. V. Anand	FDP on Recent Research Trends in Ocean Engineering, Science and Technology	3 days 22–24 September 2022	IIT Bombay
11	Dr. Mini Remanan	Online FDP on “CE8301 – Strength of Materials I”	6 days 11-16 July 2022	Department of Civil Engineering, Sri Venkateswara College of Engineering, Chennai
12	Dr. M. Sivakumar	National Expert Tech Talk Series (NETS) on Pavement Construction and Evaluation in Civil Engineering	1 day 28.04.2022	Muthayammal Engineering College, Namakkal
13	Dr. M. Sivakumar	Virtual National Level Conference on “Sustainable, Innovative & Advancements in Civil Engineering	1 day 07.05.2022	Solamalai College of Engineering, Madurai

14	Dr. M. Sivakumar	Online Faculty Development Programme	3 days 16-18 June 2022	Government Polytechnic College, Chelakkara
15	Dr. M. Sivakumar	National Expert Tech Talk Series (NETS) on Road Safety Audit (RSA)	1 day 28.02.2023	Muthayammal Engineering College, Namakkal
16	Dr. M. Sivakumar	Guest Lecture on Design of Flexible and Rigid Pavements	1 day 06.03.2023	PSNA College of Engineering and Technology, Dindigul
17	Dr. Muhammed Safer Pandikkadavath	FDP on Design of Steel Structures: Concepts and Applications	3 days	GEC Thrissur
18	Dr. Nishant Mukund Pawar	FDP on Conviction of Artificial Intelligence in Civil Engineering	6 days 8-13 March 2023	Shri Vithhal Education and Research Institute, Pandharpur
19	Dr. Prateek Negi	Keynote ecture in the 9 <sup>th</sup> Indian Young Geotechnical Engineering Conference	2 days 21-22 March 2023	Indian Geotechnical Society, Aurangabad Chapter
20	Dr. S. K. Pramada	Keynote lecture on “A review on Groundwater Research” at the 9 <sup>th</sup> International Groundwater Conference 2022	3 days 2-4 November 2022	IIT Roorkee
21	Dr. S. K. Pramada	FDP on Software Applications in Water and Environmental Engineering	7 days 15- 21February 2023	Sathyabama Institute of Science and Technology in association with the Department of Civil Engineering, NITC
22	Dr. R. Arunkumar			
23	Dr. R. Arunkumar	FDP on “Application of Artificial Intelligence in Civil Engineering”	5 days 31 <sup>st</sup> January to 4 <sup>th</sup> February 2023	Department of Civil Engineering, TKM College of Engineering, Kollam
24	Dr. Sajith A. S.	KTU Sponsored FDP on Conceptual Approach to Structural Analysis and Design	5 days 16-20 January 2023	Department of Civil Engineering, TKM Institute of Technology, Kollam
25	Dr. Ajeesh S. S.	Skill Development Programme on Construction Techniques	1 day 3 <sup>rd</sup> February 2023	NIT Calicut
26	Dr. Ajeesh S. S.	FDP on Recent Advances in Infrastructure Developments (RAID 2023)	6 days 13–18 February 2023	NIT Calicut
27	Dr. Anantha Singh T. S.	ATAL FDP on Sustainable and Robust	One week	NIT Calicut

		Electrochemical Technologies for Industrial Applications (SRETIA 2022)		
28	Dr. Anantha Singh T. S.	One local Government One Idea under K-DISC	Two days	KILA, Thrissur
29	Dr. Anantha Singh T. S.	Water Supply and Sanitation	3 days	CWRDM, Kozhikode
30	Dr. Yogeshwar V. Navandar	Panelist for Special Session on Smart Mobility towards Sustainability, International Conference on Resilience by Technology and Design (RTD 2022)	4 days 8-11 December 2022	UEH University, Vietnam & NIT Calicut
31	Dr. Yogeshwar V. Navandar	FDP on Conviction of Artificial Intelligence in Civil Engineering	6 days 8-13 March 2023	Shri Vithhal Education and Research Institute, Pandharpur
32	Dr. Yogeshwar V. Navandar	Expert Lecture on “Publishing research articles in high impact factor journals”	1 day 25 <sup>th</sup> March 2023	SCMS School of Engineering and Technology, Karukutty
33	Dr. Yogeshwar V. Navandar	Expert talk on “Road Safety Audit”	1 day 27 <sup>th</sup> September 2022	MVPS’s KBT College of Engineering, Nashik
34	Dr. Sathish Kumar D.	FDP on Geospatial Data Processing and Analysis	15 days 20 <sup>th</sup> February to 06 <sup>th</sup> March, 2023	SCMS School of Engineering and Technology
35	Dr. Santosh G. Thampi	One day Seminar on Adaptability of Urban Flood Management Suitable to Trivandrum City (Key note presentation on ‘Flood Modelling and Inferences from a Study for Thiruvananthapuram City’)	1 day 26.07.2022	Institution of Engineers (India), Kerala State Centre, Thiruvananthapuram
36	Dr. Santosh G. Thampi	Water Summit India (WSI 2022)  (Presented a theme paper on River Basin Approach for Water Management)	1 day  17.09.2022	Karunya Institute of Technology & Sciences, Coimbatore

37	Dr. Santosh G. Thampi	1 <sup>st</sup> International Conference on Novel Sustainable Concepts and Technologies in Civil Engineering (Delivered a keynote address on Coastal Environment – Problems and Perspectives)	3 days 23.09.2022 to 25.09.2022	St. Joseph's Engineering Collge, Mangaluru
38	Dr. Santosh G. Thampi	3-day Workshop on FEFLOW (online) (Presented an invited talk on Groundwater Recharge Assessment in the Noyyal River Basin using FEFLOW)	3 days 09.11.2022 to 11.11.2022	National Geophysical Research Institute, Hyderabad
39	Dr. Santosh G. Thampi	International Conference on Integrated Water Resources Management: Prospects and Challenges (ICIWRM 2022) (Presented a theme paper on the Impact of Projected Climate Change on Water Resources)	3 days 08.12.2022 to 10.12.2022	Karunya Institute of Technology & Sciences, Coimbatore
40	Dr. Santosh G. Thampi	AICTE-ATAL online FDP on “Green Technology – Innovations & Challenges” (Presented two talks on topics related to Water Management)	2 weeks 12.12.2022 to 23.12.2022	A D Patel Institute of Technology, New Vallabh Vidyanagar, Gujarat
41	Dr. Santosh G. Thampi	7 <sup>th</sup> India Water Impact Summit 2022 (IWIS 2022) (Served as Panelist on the Theme “Science, Technology, and Policy”)	3 days 15.12.2022 to 17.12.2022	Centre for Ganga River Basin Management and Studies, IIT Kanpur
42	Dr. Santosh G. Thampi	Research Week 2022 online (General talk on research in Civil Engineering & Architecture)	27.12.2022	Gujarat Technological University
43	Dr. Santosh G. Thampi (Delivered a talk on EIA of Infrastructure Projects)	One-week FDP on “Recent Advances in Infrastructure Developments (RAID 2023)”	6 days 13.02.2023 to 18.02.2023	NIT Calicut

44	Dr. Santosh G. Thampi	International Conference on Climate Resilient Construction and Building Materials (ICCRCBM 2023) (Presented a theme paper on the Role of Mathematical Modelling in Assessment of the Impacts of Projected Climate Change on Critical Infrastructure)	3 days 03.03.2023 to 05.03.2023	NITK Surathkal
45	Dr. Santosh G. Thampi	World Water Day 2023 (Delivered an invited talk on Climate Change and Forest Hydrology)	1 day 22.03.2023	Kerala Forest Research Institute, Peechi, Thrissur
46	Dr. Santosh G. Thampi	Training of Engineers of KERI and IDR, Dept. of Water Resources, Govt. of Kerala (Modelling Flow and Sediment Transport using HEC-HMS and HEC-RAS)	29-30 April 2022 23-24 June 2022 17.07.2022 31.08.2022	Kerala Engineering Research Institute (KERI), Peechi, Thrissur

**d. Consultancy and testing**

SL. NO.	NATURE OF SERVICE	ORGANIZATION	REVENUE EARNED	STATUS
1	Inspection of structural items of main building in CWRDM	CWRDM	41,300/-	Completed
2	Vetting and approval of structural design and drawings of 24m diameter aluminium dome roof, project number 22101 to be installed on an existing tank at HPCL's new Chennai Terminal	CTS Tank Systems India Pvt. Ltd.	1,18,000/-	Completed
3	Feasibility study to provide syphon arrangement in place of the existing aqueduct as part of widening of NH17 in the Azhiyur to Vengalam stretch	National Highways Authority of India	40,000/-	Completed
4	Report On Strengthening Scheme – Stage 2 For Building at Planetarium, Calicut, Kerala	Regional Science Centre & Planetarium, Kozhikode	3,00,000/-	Ongoing
5	Vetting of structural design of SATS kitchen building at Bangalore	Ashik and Numaan Structural Consultants Kozhikode - 673004	8,28,000/-	Ongoing

6	Condition Assessment of Steel Tower, All India Radio (AIR), Calicut Beach, Kerala	AIR Calicut	50,000/-	Completed
7	Recommendation for the construction of Municipal Indoor Stadium at Payyannur, Kannur	KITCO Ltd. Kerala	59,000/-	Completed
8	Recommend foundations for 23lakh litres OHSR at Kottakkal Municipality	Kerala Water Authority, Malappuram	25,960/-	Completed
9	Landslide Susceptibility Studies	Department of Soil Survey, Calicut, Kerala	1,45,376/-	On going
10	Structural Audit of ESIC Quarters, Feroke, Calicut	CPWD, Calicut Division	1,00,000/-	Completed
11	Retrofitting scheme for damaged columns and planter boxes at KSCSTE- CWRDM	CWRDM	35,000/-	Completed
12	Stability assessment of 40 m steel tower, All India Radio (AIR), Calicut beach	All India Radio, Calicut	35,000/-	Completed
13	Assessment of strength and stability and recommendations for maintenance work of Thangassery Lighthouse Tower	Directorate of Lighthouse and Lightships, Govt. of India	75,000/-	Completed
14	Scrutiny of design of hydraulic jack for pipe laying	Kerala Water Authority	10,000/-	Completed
15	Maintenance work of Thangassery light house - study of exterior plastering durability of lighthouse tower	Directorate of Lighthouses and Lightships, Govt. of India	75,000/-	Completed
16	Landslide proneness study, impact of traffic and transportation and impact of impoundments in the vicinity of proposed quarry at Kannamangalam village, Malappuram District, Kerala	Individual	1,18,000/-	Completed
17	Landslide susceptibility due to the existing slope and drainage scenario of the project	Thriuvambadi Rocks Private Limited, Calicut	1,18,000/-	Completed
18	Assessment of landslide possibility at Kundachal Colony, Chirakkal Grama Panchayath, Kannur	District Collector, Kannur	23,600/-	Completed
19	Landslide hazard and traffic management studies	ABAS Mines, Melmuri	1,18,000/-	Completed
20	Slope stability assessment for a granite building stone quarry	Individual	1,18,000/-	Ongoing

21	Framework for estimating the mineable sand from the rivers of Kerala with specific reference to the Chaliyar River	Kerala Engineering Research Institute (KERI), Dept. of Water Resources, Govt. of Kerala	7,80,000/-	Completed
22	Slope Stabilisation, Hydrodynamic Studies, Shoreline Assessment Studies for the Proposed Indian Coast Guard Academy at Kenjaru, Dakshina Kannada Dt., Karnataka	MECON Limited, Bengaluru	32,00,000/-	Completed
23	Estimation of various components in the sediments deposited in the Kallarkutty reservoir, Idukki District	KSEB Limited	30,80,000 /-	Completed
23	Assessment of the volume of legacy waste at the solid waste dump yard of the Palakkad Municipality	Palakkad Municipality	4,30,000 /-	Completed
24	Structural Audit of Old Buildings	IIM Kozhikode	47,000 /-	Completed
25	KIIFB upgradation of roads by FDR technology under KRFB, Kollam and Thiruvanthapuram Division-I	LSR Infracon Pvt Ltd, Chandigarh	2,52,500 /-	Completed
26	KIIFB upgradation of roads by FDR technology under KRFB Kollam Division and Thiruvanthapuram Division-II	LSR Infracon Pvt Ltd Chandigarh	2,06,000 /-	Ongoing
27	Conducting structural audit of old campus buildings & structures and assessment of stability of slopes	IIM Kozhikode	1,07,500 /-	Ongoing
28	Vetting of soil investigation reports in connection with construction of 1.0 MLD and 0.15 MLD STP at INA, Ezhimala	Zenith Enterprises, Kochi	40,000 /-	Completed
29	Field monitoring and modelling study of air emissions	Indo Shell Cast Pvt Ltd.	10,00,000/-	Completed
30	Material testing (Strength of Materials, Concrete, and Structural Engineering Laboratories)	Government Departments, Undertakings etc and Private Companies and Individuals	12,18,900 /-	Completed
31	Soil investigation and testing (Geotechnical Engineering Laboratory)	Government Departments, Undertakings etc and Private Companies and Individuals	8,12,916 /-	Completed

32	Water Quality Testing (Environmental Engineering Laboratory)	Government Departments, Undertakings etc and Private Companies and Individuals	1,27,110 /-	Completed
33	Testing of Pavement Materials (Transportation Engineering Laboratory)	Government Departments, Undertakings etc and Private Companies and Individuals	76,600 /-	Completed

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

1. Dr. S. D. Madhu Kumar has been selected as an External Examiner for evaluating the Computer Science courses offered by the colleges under Glasgow Caledonian University, UK.
2. Organised Cloud Computing track in the ACMSAC 2023 - Dr. Priya Chandran (Professor) and Dr. S. D. Madhukumar (Professor), are the track chairs.
3. Dr. S. D. Madhu Kumar has served as TPC chair of IEEE INDICON on 2022
4. Dr. S. D. Madhu Kumar has given an invited talk in “Cloud India Conclave” held along with IEEE / ACM CCGRID 2023 at Bangalore.
5. Dr. Anu Mary Chacko, Dr. S. D. Madhu Kumar, Alfredo C published a book chapter in the book Automatic Provenance Capture at Middleware in Big Data Context, University of Derby, United Kingdom: SpringerVerlag Gmbh, ISBN: 9783319701011
6. Dr. K. A. Abdul Naseer is a Member of the NIRMANN initiative, A network of institutions in Calicut for collaborative activities aimed at social development.
7. Dr. K. A. Abdul Nazeer has been selected as Member, Executive Committee, ‘Bioinformatics Centre’, Indian Institute of Spices Research, Calicut.
8. Dr. Anu Mary Chacko and Dr. Gopakumar G. served as track chairs for Health Informatics track of ACM SAC 2019, 2020 and 2021.
9. Dr. S. D. Madhu Kumar has served as **Session Chair** in the international Conference on Communication, Control and Information Sciences (ICCISc 2021) organized by Govt. Engineering College Idukki during 16-18 June 2021.
10. Dr. S. D. Madhu Kumar is serving as a **Member of the Board of Studies** for the Department of Computer Science and Engineering and Allied Branches/Programs, of Sahyadri College of Engineering & Management, Adyar, Mangaluru for a period of 3 years i.e, 29.11.2021 to 28.11.2024.
11. Dr. S. D. Madhu Kumar has been serving as a **Member of the Board of Studies** in Computer Science, Central University of Kerala, Kasargod since 2021 May

### a. Conferences/Summer/Winter School/Short term Courses/ Workshops conducted

Sl.No	TITLE	COORDINATORS	DURATION & PERIOD
1	FDP	Dr. Anil Pinapati	5 Days



**b. Expert lectures delivered in Conferences/Seminar/workshops**

SL. NO.	NAME OF STAFF	TITLE OF THE PROGRAMME	DURATION AND PERIOD	ORGANIZATION
1	Dr. Gopakumar	Applied statistics for Bioinformatics-II	24th February 2023	Department of Computational Biology & Bioinformatics, University of Kerala
2	Dr. Gopakumar	The Integration of AI into curriculum Design and Future of AI in the classroom	06 March 2023	Calicut Girls Vocational and HS school
3	Dr. Murali Krishnan	Number Theory and Cryptography	14 March 2023	Govt. Arts and Science College Kondotty
4	Dr. S. D. Madhu Kumar	An ML Model for mental health monitoring Using Facial Emotion Detection and Analyzing Social Media Posts	27 - 31 March 2023	38th ACM/SIGAPP Symposium on Applied Computing Tallinn, Estonia
5	Dr. Priya Chandran	On the Measurement of Performance Metrics for Virtualization Enhanced Architectures	27 - 31 March 2023	38th ACM/SIGAPP Symposium on Applied Computing Tallinn, Estonia

**c. Student Achievements**

Mr. Joel Mathew Cherian (B190664CS) has bagged the honorable P. M. Jussay Gold Medal for the Best Outgoing Student of NITC.

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION****a. Community Services**

NAME OF STAFF	COMMUNITY SERVICES
Dr. V. Sakthivel	Reviewer for IETE Journal of Research (Nov 2022)
	Reviewer for Journal of Signal Processing Systems (May 2022)
	Appointed as Observer for the NEET UG Exam, July 2022 conducted by NTA, Ministry of Education, India.
	Appointed as Observer for GPAT and CMAT 2022 Exam, April 2022 conducted by NTA, Ministry of Education, India.
	Appointed as Observer for Joint CSIR UGC-NET June 2022 Exam, Sep 2022 conducted by NTA, Ministry of Education, India.
	Secretary of Faculty Association of NIT Calicut (From June 2021 to till date)
Dr. Lalit Kumar	Technical program committee member and reviewer committee
	Mentoring the company and helping the TBI NITC

	Reviewer for conference on engineering systems 2022 at MNIT Allahabad UP
	Reviewer for International Conference on Microwave, Antenna and Communication (MAC 2023) Reviewer
Dr. G. Abhilash,	Faculty Advisor to the IEEE Signal Processing Society (SB) Chapter, NIT Calicut.
Dr. Suja K. J.	Coordinator- Department Level SGC Activities
Dr. B. Bhuvan	Reviewer, IEEE sensors journal
	Industry engagement committee chair, IEEE SSCS Kerala chapter
	IEEE Circuits and Systems Society NITC SB chapter advisor
Dr. Gopi Krishna S.	Reviewer for ECS Journal of Solid-State Science and Technology
	Reviewer for International Journal for Light and Electron Optics
	Reviewer for Silicon
	Reviewer for Journal of the Electron Devices Society
	Reviewer for Journal of Computational Electronics
	Reviewer for ICSCC 2023
	Reviewer for Journal of Electronic Materials
Dr. Bindiya T. S.	Reviewer for IEEE TCAS II
	Reviewer for INDICON
	Reviewer for IETE Journal of Research
Dr. Rakesh R. T.	Reviewer for IEEE Trans. Wireless Comm., IEEE Trans. Veh. Tech.
Dr. Jailsingh Bhokya	Editorial Board member of Acadlore Transactions on AI and Machine Learning
	Reviewer for IEEE Trans. On Aerospace and Electronic Systems
	Reviewer for ISA Transaction
	Reviewer for SN Applied Science
Dr. Nujoom Sageer Karat	Reviewer for INDICON
Dr. Chandan Yadav	Reviewer IEEE Transactions on Electron Devices
	Reviewer for IConSCEPT 2023, NIT PUDUCHERRY
	Reviewer for IETE Journal of Research
Dr. M. Surya Prakash	Question paper setter for Endsemester Exam of Digital Logic Design, Sri Vishnu College of Engineering, A. P.
	Worked as Reviewer for International Journal of Electrical Engineering and Computer Science
Dr. Deepthi P. P.	Member of the Department Advisory Board of Electronics and Communication Dept., Govt. Engineering College Sreekrishnapuram, Palakkad
	Member of the Department Advisory Board of Electronics and Communication Dept., NSS College of Engineering, Palakkad

	Member of the Board of Studies., Mar Baselios College of Engineering and Technology, Thiruvananthapuram
	Member of the the Board of Studies, NITK, Suratkal
Dr. Chithira P. R.	Reviewer. IEEE International conference on Power, Instrumentation, Control and Computing (PICC), Thrissur, India
Dr. Sudeep P. V.	DC member, KTU, Kerala
	External Examiner, PhD Comprehensive Viva voce examination, KTU, Kerala
	Mentor, Young Innovators Program, Kerala Development and Innovation Strategy Council (K-DISC), Kerala
	Member, Community of Practice (CoP) group, K-DISC
	Reviewer, Eighth International Conference on Computer Vision and Image Processing, Jammu, India
	Reviewer, IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (2022 IEEE DISCOVER), Shimoga, India
	Reviewer, IEEE 2 <sup>nd</sup> International Conference on Vision Towards Emerging Trends in Communication and Networking Technologies, Tamilnadu
	Mentor, Inspire Manak workshop at NITC
Dr. Sameer S. M.	Member, Board of Governors, APJ Abdul Kalam Kerala Technological University, Kerala
	Member, Academic Council, TKM College of Engineering, Kollam, Kerala
	Member, Board of Studies, Dept. of ECE, Rajagiri Institute of Engineering & Technology, Kochi, Kerala
	Member, Board of Studies, Dept. of ECE, Mar Baselios College of Engineering and Technology, Trivandrum
	Chair, IEEE Region-10 Conference Quality and Management Committee
	Member, Technical Program Integrity Committee, IEEE MCE, USA
	General Chair, IEEE INDICON 2022
Dr. Waquar Ahmad	Reviewer of Journal Circuits Systems and signal Processing
	Ph. D Thesis examiner Osmania University
Dr. Raghu C. V.	Member, Board of Studies, Dept. of AEI, Rajagiri Institute of Engineering & Technology, Kochi, Kerala
Dr. Sreelekha G.	Member BoS Electronics & Communication, APJ Abdul Kalam Technological University

**b. Other Academic and Administrative Services**

<b>NAME OF STAFF</b>	<b>ACADEMIC AND ADMINISTRATIVE SERVICES</b>
Dr. V. Sakthivel	Official for the admission process of JoSSA/CSAB at NIT Calicut for 2022-23 (UG Admissions)
	Member in ECED Exam Vigilance committee

	Member in the Centre for Student Activities and Sports (CSAS)
	Coordinator of B.Tech Major Project Evaluation Committee (Communication/SP)
	DC member in EED and CSED.
	Member in the committee of coordination of interview and document verification (ECED).
	Coordinator of ZZ1003D Basic Electrical Sciences
	Faculty Convener Tathva 2022
Dr. Lalit Kumar	Member in ECED Exam Vigilance committee
	Faculty adviser batch 2020-2024
	Coordination of Interview & Document Verification
	Member in the Centre for Culture and Art Relations (CCAR)
Dr. G. Abhilash	Member of the Library Advisory Committee Representing the Department of ECE
	Member of the Doctoral Committees in ECED, MED, CSED, EED, and the Department of Mathematics.
	Member of the M. Tech(SP) Seminar Evaluation Committee
	Member of the M. Tech(SP) Project Evaluation Committee
	Guided one internship Project from 1st to 31 May 2023.
Dr. Sreelekha G.	Ph D Coordinator
	Department NBA Coordinator
	IQAC Member
Dr. Venu Anand	Member - ECED and EED Purchase committee
	Member - Department curriculum revision committee
	Member - Department NBA accreditation committee
	Member - MTech (EDT) project evaluation committee
Dr. Suja K. J.	Faculty Advisor- 2019-2023
	Coordinator SGC activities in Department Level
	Member- B Tech Project Evaluation Committee
	Member- Campus Allocation Committee
	DC member in EED, ECED and CHE
Dr. B. Bhuvan	Faculty advisor 2018-2022 batch
	Programme coordinator (M. Tech, Microelectronics and VLSI Design)
	Member, M. Tech admission and coordination committee
	Coordinator M. Tech project evaluation committee (Microelectronics and VLSI Design)
Dr. Vinay Joseph	A faculty in charge of certain CNC operations, and member of the centre CITRA
	Member of M. Tech project evaluation committee (Telecom)
	Member of the M. Tech (Telecom) Seminar Evaluation Committee

Dr. Bindiya T. S.	Member - MTech VLSI project evaluation committee
	Faculty Advisor of B. Tech 2022-2026
	Associate Dean R&C
Dr. Ameer P. M.	Program coordinator of MTech Telecommunication
	Coordinator M. Tech project evaluation committee (MTech Telecommunication)
Dr. Lintu Rajan	Program Officer, NSS
	Faculty Advisor of B. Tech 2020-2024
	Member, Department Timetable Committee
	Member of the M. Tech (VLSI) Seminar Evaluation Committee
Dr. Akhil P. T.	Faculty Advisor of B. Tech 2020-2024
	Member- B Tech Project Evaluation Committee
	Department Exam Coordinator
Dr. Rakesh R. T.	Faculty Advisor of B. Tech 2022-2026
Dr. Jailsingh Bhookya	Member in ECED Exam Vigilance committee
	Member in Interview & Document Verification committee
Dr. Srinivasarao C.	Faculty Advisor of B. Tech 2022-2026
	Member of the M. Tech (Telecom) Seminar Evaluation Committee
	Member - Department & M. Tech (Telecom) NBA accreditation committee
Dr. Raghu C. V.	Associate Dean (Academic) - Till December 2022
	Programme coordinator (M. Tech, Electronics Design and Technology)
Dr. Gopi Krishna S.	Faculty Coordinator, ECEA/IEEE activities
	PSoc lab, Microelectronics & VLSI Lab Incharge
	M. Tech Admission and Coordination
	FA of B. Tech 2019-2023
	Departmental Under-Graduate Committee (DUGC)
Dr. Nujoom Sageer Karat	Liaison Officer for ECE Alumni Matters
	Member: Coordination of Interview & Document Verification
	Faculty Advisor of B. Tech 2022-2026
	Overall Programme Coordinator-B. Tech (ECED)
	Member: Centre for Public Relations, Information and Media Exchange (CPRIME) NITC
	Member- B Tech Project Evaluation Committee
	Member - Department & M. Tech (Telecom) NBA accreditation committee
Dr. Ashutosh Mishra	Member- CIIR
	Member-UBA
	Member-OLIC (B. Tech First Year)

	Member-IMS Student Portal
	B. Tech First Year Coordinator
	FA of B. Tech 2021-2025
	Member in ECED Exam Vigilance committee
	Nodal Officer RACS NIT Suratkal, NIT Calicut
	Member- B Tech Project Evaluation Committee
	Coordination of Interview & Document Verification
	DC member in Biotech, Mechanical
Dr. Chithira P. R.	Member- B Tech Project Evaluation Committee
	Department level iSTEM Coordinator
	Member, Department Timetable Committee
	Member: Coordination of Interview & Document Verification
Dr. Bini A. A.	Member, Department Timetable Committee
	Member: Coordination of Interview & Document Verification
	Faculty-in-charge of SPCOM Lab
	Member of the M. Tech(SP) Seminar Evaluation Committee
Dr. Deepthi P. P.	NBA Coordinator
	Internal Quality Assurance Cell Department Coordinator
	Vice Chair, Centre for Quality Assurance and Enhancement
Dr. Chandan Yadav	Member OLIC (ECED)
	FA of BTech 2022-24 batch
	Coordinator BTech Final Year Project Evaluation
	Member ECED store
	Member: Coordination of Interview & Document Verification
Dr. M. Surya Prakash	Member of Stock Verification Team for Annual Stock Verification 2021-22
	Committee Member for preparation of Self-Assessment Report (SAR) for M. Tech Telecommunications specialization
	Member of NITC's Inter-College Festival Ragam 2022 Core Committee
	Time-table In-Charge of ECED (jointly with Dr. Lintu Rajan and Dr. Bini A. A.)
	Faculty In-Charge for Electronic Circuits Laboratory course of ECED
	Faculty Advisor for the 2019-23 batch of ECE students (Jointly with Dr. Praveen Sankaran, Dr. Suja K. J. and Dr. Gopikrishna S.)
	Member of the General Arrangements Committee and Faculty Contributions Criteria Committee for the NBA Visit of 2022
	Faculty In-Charge for Electronic Circuits Laboratory course of ECED
	Faculty Advisor for the 2019-23 batch of ECE students
	Committee Member for Disposal/Write-Off of unserviceable items

Dr. Sudeep P. V.	NITC Coordinator, Ente Keralam Expo, Kozhikode
	Convenor, IIC NITC
	Faculty in Charge, ECED Department Library
	Faculty in Charge, DSP Lab
	DC Member, Architecture, CSED, EED
	Coordinator, Mtech (SP) Seminar
	Member, B. Tech ECE NBA accreditation committee
	FA of B. Tech 2021-2025
	Liason Officer for ECE Alumni Matters 2022
	Member, M. Tech Admission and Coordination 2022
	Member, ECED UG & M Tech (SP) Syllabus Revision Committee
	Mentored students for Hackathons (Smart India Hackathon, National Level Project Competition at Bangalore)
	Coordinated 12 IIC activities in the NITC campus
	Attended IIC Annual Meeting at KMEA College, Kochi
Dr. Sameer S. M.	Dean (Academic), NIT Calicut
Dr. Waquar Ahmad	Faculty Advisor (2022-2026 Batch)
	Member in ECED Exam Vigilance committee
	Member- B Tech Project Evaluation Committee
Dr. Aswathi R. Nair	Department Council Secretary
	Member - Department curriculum revision committee
	Member - Department NBA accreditation committee
	Member – M Tech (VLSI) project evaluation committee
	Faculty Advisor BTech 2021-25 Batch
	Member of Doctoral committee in EED
Dr. Dhanaraj K. J.	Associate Dean Academic
	IMS Core Committee Member
	LMS Core Committee Member
	Purchase Coordinator, ECED
	Purchase Committee Member, CCD
	FA, 2020-24 batch
Dr. Jaikumar M. G.	Head of the Department, ECED

**c. Conferences/Summer/Winter School/Short term Courses/ Workshops conduct**

SL.NO	TITLE	COORDINATORS	DURATION & PERIOD
1.	Mastery Program for Youths 2023: "Continuous Wavelets and Wavelet Transforms: Principles and Applications". Jointly Organized by the IEEE SP Society (SB) Chapter, NIT Calicut, and the ECE Association, Department of ECE.	Dr. G. Abhilash, Sri. Subodh Raj M. S. (Research Scholar)	20 -24 January 2023

**d. Expert lectures delivered in Conferences/Seminar/workshops**

SL. NO.	NAME OF STAFF	TITLE OF THE PROGRAMME	DURATION AND PERIOD	ORGANIZATION
1.	Dr. G. Abhilash	Mastery Program for Youths 2023: Lectures on Continuous Wavelets and Wavelet Transforms	20 - 24 January 2023	IEEE SP Society (SB) Chapter NIT Calicut and the ECE Association, department of ECE
2.	Dr. Sreelekha G.	Image Processing for biomedical applications	4 <sup>th</sup> May 2022	Government Medical College Calicut
3	Dr. Gopi Krishna S.	Faculty Development Program "Design and Implementation of advanced VLSI Architectures"	13 <sup>th</sup> – 18 <sup>th</sup> March 2023	Lakireddy Bali Reddy College of Engineering, Mylavaram, NTR (Dt.), Andhra Pradesh.
4	Dr. Chandan Yadav	One-Week hybrid Short Term Course (STC) on "Advancement in Microwave Technology for VLSI and Communication System",	November 07 <sup>th</sup> 12 <sup>th</sup> 2022	NIT Delhi
5	Dr. Chandan Yadav	IEEE International Conference on Emerging Electronics (ICEE), Bangalore, Dec 11th to Dec 14th 2022	11 <sup>th</sup> - 14 <sup>th</sup> Dec 2022	IEEE and IISc Bangalore
6	Dr. Deepthi P. P.	FDP on " Python and SDR -A hands on approach for Communication Engineers"	13 <sup>th</sup> - 17 <sup>th</sup> February 2023	ECE Department, GEC Thrissur
7	Dr. Dhanaraj K. J.	FDP on "Recent Research Trends in VLSI Design"	21 <sup>st</sup> - 25 <sup>th</sup> November 2022	School of Electronics Engineering, Vellore Institute of Technology
8	Dr. Gopi Krishna S.	Faculty Development Program "Design and Implementation of advanced VLSI Architectures"	13 <sup>th</sup> – 18 <sup>th</sup> March 2023	Lakireddy Bali Reddy College of Engineering, Mylavaram, NTR (Dt.), Andhra Pradesh.

**e. Details of Faculty who acquired Higher Qualification**

SL. NO	NAME OF FACULTY	QUALIFICATION ACQUIRED	INSTITUTE
1	Dr. Bhuvan B.	Ph.D.	IIT Delhi



**f. Consultancy and testing**

SL. NO	NATURE OF SERVICE	ORGANIZATION	REVENUE EARNED	STATUS
1	Contributed to design, implementation and IPR related to wireless-wireline convergence	PhyTunes Inc	Rs 16,76,053.00	Ongoing

**g. Student achievements**

SL.NO	NAME	ACHIEVEMENT
1	Dan Mani Binu	Part of IIT Bombay research team on FPGA for EDGE Finished as 10th for Koder Kombat conducted as part of Tathva 2022
2	Mayookha S Lekshmi	Project Intern under SSR scheme of SERB for the project titled 'Development of Diagnostic tools for Cold Atmospheric Plasma' under the Department of Electronics and Communication Engineering, National Institute of Technology Calicut
3	Udumula Sai Teja Reddy	Interbranch Kabaddi winner
4	Aswin Sekhar C. S.	Research Internship at Centre for Brain Research, IISc Bangalore
5	Bathula Sushma	Participated in Inter NIT Kabbadi(W) Sport Tournament, Senior Coordinator of PC Ragam 2023, Participated in some of the Club Events.
6	Jithin Mohammed Khan	Runner up in Inter branch Table Tennis Tournament
7	Udumula Sai Teja Reddy	Secured first position in Kabaddi tournament during the inter-branch sports competition.
8	Chandu Guthavelli	1.Runners up (Second position) in Inter NIT Volleyball tournament held in NIT Surathkal 2.Runners up in Strick-3 volleyball tournament held during ragam in our college 3. Secured 3rd position in Inter Department volleyball tournament held in our college 4. Participated in inter University volleyball tournament held in SRM University, Chennai and few more tournaments
9	Shaik Thasheem Pasha	GATE AIR RANK 1444
10	Rithu Rajesh	Inter Department Swimming Competition Second position- 50m freestyle Third position- 25m breaststroke Third position-25m freestyle Third position-25m backstroke Third position-50m breaststroke
11	G. Roy, N. Mohan, V. C. Shubin	Presented a paper titled 'Generation of Synthetic Computed Tomography from Magnetic Resonance Images: A Literature Review' at International Conference on Power, Instrumentation, Control and Computing (PICC), Thrissur, India, 2023

12	Bhanu Prakash Pebbeti	Published a paper titled ‘Deep Cleaner—A Few Shot Image Dataset Cleaner Using Supervised Contrastive Learning’ in IEEE Access Published a paper titled ‘DeepBindPPI: Protein-Protein Binding Site Prediction Using Attention Based Graph Convolutional Network’ in The Protein Journal
13	Kurumella Vamsidora	Inter Department Kabaddi Winner
14	Macharam AravindKumar Reddy	Inter Department Kabaddi Winner
15	Mano Kaushik Medboina	Ragam streetplay team competition winner streetplay competition runner at saarang, IITM streetplay competition winner at incident,NITK
16	Dhruv Rajeev	Inter department chess tournament runner up
17	Rahul Ganesh S.	Finalist - Smart Indian Hackathon 2022 Finalist - Ramaiah National Level Hackathon
18	Balabhadra Niketh	Finalist - Smart Indian Hackathon 2022
19	Somashekhar Dehury	Finalist - Smart Indian Hackathon 2022 Finalist - Ramaiah National Level Hackathon
20	Pranav Kandukuru	Finalist - Smart Indian Hackathon 2022 Finalist - Ramaiah National Level Hackathon 1st in Blueprint event Tathva 2nd in E-Racer Tathva 3rd in Enigma Tathva Ragam Streetplay team competition Winner Ragam Swararaaga 3rd place Sarang IITM Streetplay team Runner-up

## DEPARTMENT OF ELECTRICAL ENGINEERING

### a. Community Services

NAME OF STAFF	COMMUNITY SERVICES
Dr. Sunitha R.	Advisory Committee Member of Universal Engineering College, Trissur Ph. D Viva Voce Board Member, APJ Abdul Kalam Technological University Doctoral Committee member for other universities
Dr. K. M. Arun Neelimegham	Reviewer for International Journal of Automation and Control Reviewer for International Conference on CONTROL, DECISION AND INFORMATION TECHNOLOGIES CoDIT 2023
Dr. Sanjay M.	Member, Board of Studies, Electronics and Biomedical stream, APJ Abdul Kalam Technological University Thiruvananthapuram since January 2021.
Dr. Mija S. J.	Reviewed many articles for IEEE Transactions on Systems, man and Cybernetics: Systems, Elsevier ISA Transactions, Ocean Engineering, Neural Processing letters Question paper setter & evaluator for comprehensive Exam (written) and subject expert for comprehensive Exam (oral) of 1 Ph d scholars, Amal Jyothi College of Engineering, KTU
Dr. Subhash K. M.	Reviewer – MYSURUCON-2022

	Reviewer - International Conference on Emerging Trends in Engineering, Science and Technology, ICETEST 2023
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**b. Other Academic and Administrative Services**

<b>Name of Staff</b>	<b>Academic and Administrative Services</b>
Dr. K. M. Arun Neelimegham	<ol style="list-style-type: none"> <li>1. Faculty In-charge Control systems lab,</li> <li>2. Co ordinator of Instrumentation M. Tech Specialization 2021-2023</li> <li>3. Co ordinator Enquire quiz club,</li> <li>4. Co ordinator Kerala Block Chain Academy Innovation Club,</li> <li>5. Innovation Ambassador,</li> <li>6. Member of Academic Quality Monitoring Committee,</li> <li>7. Faculty Advisor, B.Tech 2020 admission</li> </ol>
Dr. Sanjay M.	<ol style="list-style-type: none"> <li>1. Faculty In-charge – Electronics Lab and Biosignal Processing Laboratories</li> <li>2. Department Website in-charge</li> <li>3. Faculty Advisor B. Tech 2022 Admissions</li> <li>4. Faculty representative to Centre for Career Development</li> </ol>
Dr. Sunitha K.	<ol style="list-style-type: none"> <li>1. Member ICC</li> <li>2. Vice chairperson CYHW</li> <li>3. Member CCAR</li> <li>4. In charge of institute thematic dance group</li> <li>5. In charge of institute non-thematic dance group</li> </ol>
Dr. Mithun M. S.	<ol style="list-style-type: none"> <li>1. Warden – F Hostel</li> <li>2. Member – CCAR</li> <li>3. FA – UG 2020 Admission</li> <li>4. Lab in Charge – Instrumentation Systems lab</li> <li>5. EEA coordinator</li> </ol>
Dr. Subha D. P.	<ol style="list-style-type: none"> <li>1. Dept data Facilitation coordinator,</li> <li>2. UG Project coordinator,</li> <li>3. Faculty in charge of Biosignal processing lab,</li> <li>4. FA 2022 admissions (NITC)</li> </ol> <p>Outside NITC Member of PG BOS at KTU, IQAC member KMCT College of Engineering for Women, DC member of RS at Manipal Mahe, NSS Palakkad, Secretary of IEEE EMBS Women in Biomedical Engineering, Member of core committee for IEEE EMBS Kerala Virtual Post Doctoral Fellowship Program</p>
Dr. Nikhil Sasidharan	<ol style="list-style-type: none"> <li>1. Associate Dean (Student Welfare)</li> <li>2. Faculty i/c: Electrical Machines lab</li> <li>3. Faculty i/c: Real Time Simulation (PSPE) Lab</li> <li>4. Faculty i/c: UG Power Electronics Lab</li> <li>5. Faculty Advisor 2021 Admission</li> </ol>
Dr. Preetha P.	Head of the Department, EED
Dr. Shreelakshmi M. P.	<ol style="list-style-type: none"> <li>1. Coordinator of Centre for Electric Vehicle Engineering, NIT CALICUT</li> <li>2. Industry Institute Interaction, Dept. of Electrical Engineering, NIT Calicut</li> <li>3. UG project Coordination, Dept. of Electrical Engineering, NIT Calicut</li> </ol>

	<ol style="list-style-type: none"> <li>4. PG Coordinator: Power Electronics, Dept. of Electrical Engineering, NIT Calicut</li> <li>5. Faculty Advisor, UG, Dept. of Electrical Engineering, NIT Calicut</li> </ol>
Dr. Rijil Ramchand	<ol style="list-style-type: none"> <li>1. Chairman Ordinance and Regulation Committee 2022</li> <li>2. Curriculum Planning &amp; Coordination (UG)</li> <li>3. Curriculum/course- Planning &amp; Coordination (PG/PhD)</li> <li>4. Faculty Advisor 2019 Admission</li> <li>5. Class committee Chair – Sem. I, M.Tech.</li> </ol>
Dr. Sunitha R.	<ol style="list-style-type: none"> <li>1. Faculty in charge of Institute Time Table</li> <li>2. Advisor of Equal Opportunity Cell of the Institute</li> <li>3. Institute Liaison Officer</li> <li>4. Chairman, AQMC EED</li> <li>5. PG Programme Coordinator (Power Systems)</li> <li>6. Faculty i/c: Power Systems Lab</li> <li>7. Faculty i/c: Power Systems &amp; Power Electronics Real Time SimulationLab</li> <li>8. Faculty i/c: Hybrid Energy Systems Lab</li> </ol>
Dr. T. K. Sunil Kumar	<ol style="list-style-type: none"> <li>1. Faculty Advisor, 2020 Batch B. Tech Electrical and Electronics Engg,</li> <li>2. Deputy Chairperson, UGadmissions (2020-21) to Present</li> <li>3. Ph. D Program coordinator (2017 admission onward)</li> <li>4. M. Tech Industrial Power and Automation Program co-coordinator 2021 batch</li> <li>5. Faculty in Charge: Embedded Systems Application Lab</li> <li>6. Faculty In Charge: Indian Cultural Association</li> </ol>
Dr. Jagadanand G.	<ol style="list-style-type: none"> <li>1. PG Coordinator M. Tech Power Electronics</li> <li>2. Faculty Advisor B. Tech 2021 admission</li> <li>3. CITRA (purchase coordinator),</li> <li>4. Faculty in charge of PE Lab</li> <li>5. Faculty-in-charge of CNC/CITRA,</li> </ol>
Dr. Kumaravel S.	<ol style="list-style-type: none"> <li>1. President, IIC - NITC</li> <li>2. Member of Centre for Industry - Institutional Relations (CIIR)</li> <li>3. Member of Centre for Quality Assurance and Enhancement</li> <li>4. Board of studies Member, Kongu Engineering college, Erode</li> <li>5. Board of studies Member, Sri Krishna College of Engineering, Coimbatore</li> <li>6. Advisor, IEEE PES Student Branch Chapter NITC</li> <li>7. CAB Member, IEEE Kerala Section</li> <li>8. DC Member in KTU, VIT, and SRM Universities</li> <li>9. PhD Thesis Evaluator in Anna University, Amrita University, and Kalasalingam University</li> </ol>
Dr. Mija S. J.	<p><b>Administrative Services:</b></p> <ol style="list-style-type: none"> <li>1. Warden Ladies Hostels,</li> <li>2. Coordinator, Student Innovative Projects, Center for Innovation, Entrepreneurship and Incubation,</li> <li>3. General convener for convocation,</li> </ol> <p><b>Academic Services:</b></p> <ol style="list-style-type: none"> <li>1. Programme Coordinator P Tech (ICS) -2022-'24 batch,</li> <li>2. Faculty in chage – Control Systems, advanced Control</li> <li>3. Systems and Instrumentation Systems Labs</li> </ol>

	4. Coordinator, Department PTA,
Dr. Subhash K. M.	1. PG Coordinator M. Tech Control Systems and Instrumentation (2021 Admission) 2. National Academic Depository and Academic Bank of Credits- Nodal Officer 3. Department consultative committee - secretary

**c. Conferences/Summer/Winter School/Short term Courses/ Workshops conducted**

SL.NO	TITLE	COORDINATORS	DURATION & PERIOD
1	Workshop on “Recent Trends in High Voltage Engineering and Insulation Diagnostics”	Dr. Nasirul Haque and Dr. Preetha P.	18 <sup>th</sup> July to 24 <sup>th</sup> July, 2022, 7 days
2	Application of computational intelligence in modelling and control (CIMC - 2023)	Dr. K. M. Arun Neelimegham, Dr. Shihabudheen K. V., Dr. Rakesh R. Warier	23 <sup>rd</sup> -29 <sup>th</sup> Jan 2023
3	SERB sponsored High-end workshop on Recent trends in soft sensing and State estimation	Dr. S. Kanagalakshmi	18 <sup>th</sup> – 24 <sup>th</sup> July 2022.
4	Electric Vehicle workshop	Dr. S. Kanagalakshmi, Dr. Ashok S.	March 3 <sup>rd</sup> – 5 <sup>th</sup> , 2023
5	FDP on Holistic Living	Dr. Sunitha K., EED , Dr. Jayachandran, CED	5 <sup>th</sup> -9 <sup>th</sup> June 2023
6	Aerobics for well being	Dr. Sunitha K., EED , Dr. Jayachandran, CED, Dr. Kasthurba A. K.	05 <sup>th</sup> Jan 2023
7	A Talk on Mindfulness	Dr. Sunitha K., EED , Dr. Kasthurba A. K.	07 <sup>th</sup> Nov 2022
8	Yoga for wellbeing	Dr. Sunitha K., EED, Dr. Kasthurba A. K.	09 <sup>th</sup> Jan 2023
9	Skill Development Training Series on “Modern Electric Vehicles”	Dr. Jagadanand G., Dr. Nikhil Sasidharan, Dr. Shreelakshmi M. P.	24 <sup>th</sup> to 26 <sup>th</sup> May 2023
10	SERB Sponsored High-End workshops Under Karyashala scheme -Recent Trends in High Voltage Engineering and Insulation Diagnostics (RTHVID 2022)	Dr. Preetha P., Dr. Nasirul Haque	July 18 <sup>th</sup> to 24 <sup>th</sup> , 2022
11	SERB Karyashala High end Workshop on Application of Artificial Intelligence in Power System Operation and Control	Dr. Deepak M., Dr. Shihabudheen K. V., Dr. Sunitha R.	25 <sup>th</sup> –31 <sup>st</sup> July, 2022
12	SERB Karyashala High end Workshop on Data Analytics in Electrical Energy System	Dr. Deepak M., Dr. Shihabudheen K. V.	22 <sup>nd</sup> – 28 <sup>th</sup> March, 2023
13	Data Analytics in Electrical Energy Systems	Dr. Deepak M., Dr. Shihabudheen K. V.	22 <sup>nd</sup> -28 <sup>th</sup> March 2023
14	Applications of Computational Intelligence in Modelling and Control (CIMC-2023)	Dr. K. M. Arun Neelimegham,	23 <sup>rd</sup> -29 <sup>th</sup> , January, 2023

		Dr. Shihabudheen K. V., Dr. Rakesh R. Warier	
15	Application of Artificial Intelligence in Power System Operation and Control	Dr. Deepak M., Dr. Shihabudheen K. V., Dr. Sunitha R.	25 <sup>th</sup> –31 <sup>st</sup> July, 2022
16	Applications of Computational Intelligence in Modelling and Control (CIMC-2023)	Dr. K. M. Arun Neelimegham, Dr. Shihabudheen K. V., Dr. Rakesh R. Warier	23 <sup>rd</sup> -29 <sup>th</sup> , January, 2023
17	Advanced Entrepreneurship Skill Development Program in Electric Vehicle Technologies	Dr. Kumaravel S.	27 <sup>th</sup> February to 04 <sup>th</sup> March 2023

**d. Expert lectures delivered in Conferences/Seminar/workshops**

SL. NO	NAME OF STAFF	TITLE OF THE PROGRAMME	DURATION AND PERIOD	ORGANIZATION
1.	Dr. Vivek Mohan	FDP on “Recent Trends in Power Electronics and Power Systems”	20 <sup>th</sup> March 2023 - 2 Hours	NIE, Mysore
		FDP on “Recent Advances and Research Challenges in Electric Vehicle System Design”	31 <sup>st</sup> Jan 2023 – 2 Hours	Sahrdaya College of Engineering, Kodakara, Thrissur, Kerala
2.	Dr. Jeevamma Jacob	Recent Advancements in Intelligent control systems	30 <sup>th</sup> Jan - 3rd Feb 2023	Jyothi Engineering College, Cheruthuruthy, Thrissur
3.	Dr. Nikhil Sasidharan	Expert Lecture For Dst-Serb Sponsored High-End Workshop	2022	NITK Surathkal
		Expert Lecture In The Sttp	2023	CUSAT Recent Advances In Energy Science And Engineering
4.	Dr. Preetha P.	Partial discharge for condition monitoring of power equipment	July 18-24, 2022	NITC
		Prospects of new generation dielectric materials in High Voltage Equipment	17/11/2022	Online training programme conducted by Corporate R&D BHEL
		Partial discharge for condition monitoring of power equipment	July 18-24, 2022	NITC
5.	Dr. Shreelakshmi M. P.	Expert Lecture For DST-SERB Sponsored High-End Workshop	2022	NITK Surathkal
		Expert Lecture For The STP	2022	National Institute Of Technical

				Teachers' Training & Research, Chandigarh
		Expert Lecture in the STTP	2023	Cusat Recent Advances In Energy Science And Engineering
6.	Dr. Rijil Ramchand	Faculty Development Program (FDP) on Emerging trends in Power Electronics and Control for Electric Vehicle and Smart Grid	September 19 <sup>th</sup> to 23 <sup>rd</sup> 2022	Government Engineering College Palakkad
		2 <sup>nd</sup> Edition of National Symposium and Research Colloquium	October 8 <sup>th</sup> to 9 <sup>th</sup> 2022	Government Engineering College Wayanad
		Faculty Development Programme (FDP) on Application Oriented Design and Control of Electric Motor Drives	January 16 <sup>th</sup> to 20 <sup>th</sup> 2023	Muthoot Institute of Technology and Science Ernakulam
7.	Dr. Rakesh R. Warier	Multi-agent Systems	16-20 January, 2023	Advanced Control Methods for Engg Application, GEC Wayanad
		Modelling and control of Unmanned aerial Vehicles	30 <sup>th</sup> January-3 <sup>rd</sup> February, 2023	Recent Advances in Intelligent control systems, Jyothi Engg College, Cheruthuruthy.
8.	Dr. Jagadanand G.	FDP on Smart Grid and integration of renewable sources	22-02-2023 to 24-02-2023	IES College Thrissur
		ATAL FDP on Emerging Control Technique in Smart Grid Empowering EV	10-10-2022 to 21-10-2022	Perumon College of Engineering, Kollam
9.	Dr. Kumaravel S.	Recent Trends in Power Converters for Solar PV Integration.	2 hrs, 12.04.2023 - 13.04.2023	Amrita College of engineering and Technology
		Power Converters for integration of Renewable Energy Resources.	2hrs, 02.02.2023	Govt. Engineering College Idukki
		Design Aspects and IoT Applications in Electric Vehicles	2hrs, 28.02.2022 - 09.03.2022	NIT Warangal
10.	Dr. Shihabudheen K. V.	Expert lecture for an FDP at TKMCE on the Topic Applications of AI in Engineering – Theory and Practices	3 hour, 03-03-2023	TKM College of Engineering, Kollam
		Expert lecture for KTU sponsored FDP at Jyothi Engineering College	3hour, 03-02-2023	Jyothi Engineering College

## DEPARTMENT OF MECHANICAL ENGINEERING

### a. Community Services

SL. NO.	NAME	DESCRIPTION OF THE WORK
1	Dr. V. Madhusudanan Pillai Since September 16 <sup>th</sup>	Vice Chairman, Indian Institution of Industrial Engineering Kozhikode Chapter
2	Dr. V. Madhusudanan Pillai April 2021 – March 2022	Reviewer of reputed international journals like Computers and Industrial Engineering, Journal of Manufacturing Systems, European Journal of Industrial Engineering, Journal of Competitiveness, etc.
3	Dr. V. Madhusudanan Pillai	Member of Indian Academic Committee (IAC) by state 2nd Indian International Industrial Engineering and Operational Management Conference, NIT Warangal, India, August 16-18, 2022
4	Dr. Deepak Lawrence K.	External Examiner for the B. Tech program Production engineering Project Work viva-voce examination, Production Engineering, PSG College of Technology Coimbatore
5	Dr. Deepak Lawrence K.	External Examiner for the M. Tech program Product Design and Commerce Project Work viva-voce examination, Production Engineering, PSG College of Technology Coimbatore
6	Dr. Deepak Lawrence K.	Technical subcommittee member for the Ministry of Electronics and Information Technology's Future Skills project at National Institute of Electronics and Information Technology (NIELIT), Kozhikode in the domain of Additive Manufacturing / 3D printing

### b. Other Academic and Administrative Services

NAME OF STAFF	ACADEMIC AND ADMINISTRATIVE SERVICES
Dr. A. Shaija	<ul style="list-style-type: none"> <li>Presiding Officer, ICC</li> </ul>
Dr. Arun P.	<ul style="list-style-type: none"> <li>Warden-Hostel Office, NITC Hostels</li> <li>Convenor-Purchase Committee, Dept. of Mechanical Engg.</li> <li>Member-CQAE NITC</li> <li>IRCC Member, Department of Mechanical Engg, NITC</li> <li>Faculty Adviser, 2021 Admission Batch of B.Tech. Mechanical Engg.</li> </ul>
Dr. Sandip Rudha Budhe	<ul style="list-style-type: none"> <li>Hostel Warden</li> <li>Department Member of Official Language Unit</li> <li>Department Time Table Coordinator</li> <li>Metrology Lab Incharge</li> <li>B. Tech Project Evaluation Committee</li> </ul>
Dr. Jose Mathew	<ul style="list-style-type: none"> <li>Chairman, Centre for Industry Institutional Relations (CIIR)</li> </ul>



	<ul style="list-style-type: none"> <li>• Represented NITC in KMTC Meets</li> </ul>
Dr. R. Manu	<ul style="list-style-type: none"> <li>• Chief Warden, NITC Hostels</li> <li>• Member, Board of Governors, NITC</li> </ul>
Dr. Saleel Ismail	<ul style="list-style-type: none"> <li>• Associate Dean (Alumni and Corporate Relations)</li> <li>• Member of Media Cell – Administration of institute</li> </ul> <p>LinkedIn account and alumni portal</p>
Dr. Murali K. P.	<ul style="list-style-type: none"> <li>• Institute Vehicle in-charge</li> </ul>
Dr. R. Sridharan	<ul style="list-style-type: none"> <li>• Chief Editor, MECHNEWS, MED Newsletter</li> <li>• Chairperson – Centre for Indian Knowledge Systems</li> <li>• Chairman – Plantation Committee</li> </ul>
Dr. Vinay V. Panicker	<ul style="list-style-type: none"> <li>• Vice-Chairperson (Training), Centre for Career Development</li> <li>• Chairperson, Centre of Excellence in Logistics and Supply Chain Management</li> </ul>
Dr. V. Madhusudanan Pillai	<ul style="list-style-type: none"> <li>• Dean (Research &amp; Consultancy)</li> <li>• Coordinator for the adoption of National Innovation &amp; Startup Policy in NIT Calicut</li> <li>• Development of National Innovation &amp; Startup Policy document for NIT Calicut</li> </ul>
Dr. Sumer B. Dirbude	<ul style="list-style-type: none"> <li>• Faculty in Charge-Office computers, accessories, and Audio-Video Equipment's</li> <li>• Committee Member, Centre for Computational Modelling and Simulation (CCMS)</li> <li>• Department Web Manager &amp; Faculty-in-Charge of Information and Facilitations</li> <li>• Lab-in-charge, Fluid Mechanics, Fluid Machinery Laboratory and CFD Laboratory</li> <li>• Faculty Advisor (FA), E1 (first Year)/E (1-30) (Second to Fourth Year)-Batch, B Tech ME (2019-2023 Batch)</li> </ul>
Dr. Ratna Kumar K.	<ul style="list-style-type: none"> <li>• Faculty Advisor</li> <li>• PG and UG Project Evaluation Committee member (IE stream)</li> <li>• Swayam Course Mentor</li> <li>• Dept PTA Coordinator</li> <li>• Faculty-incharge IE Lab</li> <li>• Alumini and International affairs dept. coordinator</li> <li>• Dept. Time table committee member</li> <li>• Liaison officer with Main Library</li> <li>• EOC Member</li> <li>• Core Committee member, LMS</li> <li>• IQAC Member</li> </ul>
Dr. Simon Peter	<ul style="list-style-type: none"> <li>• FIC: Information and Facilitations, FMM &amp; CFD Lab.</li> <li>• FA to ME/PE 2019</li> </ul>
Dr. Deepak Lawrence K.	<ul style="list-style-type: none"> <li>• Associate Dean (Alumni and Corporate Relations) Convener of the Coordination committee for IMS implementation</li> </ul>
Dr. Sandip Rudha Budhe	<ul style="list-style-type: none"> <li>• Hostel Warden</li> <li>• Departmental Member: Official Language, IMS, Time Table &amp; UG Project Evaluation Committees</li> </ul>

	• FIC Metrology Lab.
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**c Conferences/Summer/Winter School/Short term Courses/Workshops conducted**

SL.NO	TITLE	COORDINATORS	DURATION & PERIOD
1	NITC-KMTC Connect Meet on Medical devices innovation	Dr. Jose Mathew	07 March 2023
2	AICTE Training and Learning (ATAL) Academy Sponsored Online Faculty Development Programme on PM's Gati Shakti Thrust Areas "DECISION MODELLING IN TRANSPORTATION AND LOGISTICS INDUSTRY"	Dr. Vinay V. Panicker (MED) and Dr. Harikrishna M. (CED)	One week, between February 27 and March 03, 2023
3	AICTE Training and Learning (ATAL) Academy Sponsored Faculty Development Programme on PM's Gati Shakti Thrust Areas "STRATEGIC MANAGEMENT IN RAIL AND ROAD TRANSPORTATION SYSTEM"	Dr. Harikrishna M. (CED) and Dr. Vinay V. Panicker (MED)	One week between March 06 and March 10, 2023
4	Online Certification Course on "Port Development, Operations and Management" organized online	Dr. Yogeshwar Vijayakumar Navandar (CED), Dr. Nishant Mukund Pawar (CED) and Dr. Vinay V. Panicker (MED)	Between March 05, 2023 – April 22, 2023.
5	ATAL FDP on Digital supply chain management	Dr. V. Madhusudanan Pillai & Dr. Hiran V. Nath	Two weeks, 19th to 30th of September 2022
6	Advanced Entrepreneurship and Skill Development Program on Introduction to Industrial 3D Printing	Dr. Basil Kuriachen	6 Days, 20 <sup>th</sup> March-25 <sup>th</sup> March 2023

**d. Expert lectures delivered in Conferences/Seminar/workshops**

SL. NO.	NAME OF STAFF	TITLE OF THE PROGRAMME	DURATION AND PERIOD	ORGANIZATION
1	Dr. Rohinikumar B.	Renewable Energy Sources-Benefits and Challenges	18-11-2022	Annamacharya Institute of Technology and Sciences(Autonomous), Rajampeta, Andhra Pradesh
2	Dr. Sajan T. John	KTU sponsored FDP on Data analytics for decision making'	27-02-2023 to 03-03-2023	Viswajyothi College of Engineering and Technology, Vazhakulam, Ernakulam, Kerala
3	Dr. Sajan T. John	Career Expo	28-01-2023	Career Guidance & Adolescent Counselling Cell (Kottayam), Directorate of General Education (Higher

				Secondary Wing), Govt. of Kerala
4	Dr. Devendra K. Yadav	ATAL FDP on “Agri Food Supply Chain” under Gati Shakti in hybrid mode organized by MANIT Bhopal	from March 13-24, 2023.	MANIT Bhopal
5	Dr. Sandip Rudha Budhe	FDP on “Composite Materials: Latest Trends and Advancements”	January 30 <sup>th</sup> 2023 (1-week program)	Amal Jyothi College of Engineering
6	Dr. R. Sridharan	ATAL FDP on Strategic Management in Rail and Road Transportation System	March 06 – 10, 2023.	Centre of Excellence in Logistics and Supply Chain Management, NIT Calicut (AICTE Sponsored)
7	Dr. R. Sridharan	ATAL FDP on Decision Modelling in Transportation and Logistics Industry	February 27 - March 03, 2023.	Centre of Excellence in Logistics and Supply Chain Management, NIT Calicut (AICTE Sponsored)
8	Dr. R. Sridharan	ATAL FDP on Sustainable and Robust Electrochemical Technologies for Industrial Applications	November 21 to December 2, 2022.	NIT Calicut (AICTE Sponsored)
9	Dr. R. Sridharan	ATAL FDP on Foundations of Modern Cryptography and Blockchain (FMCB-2022)	December 19 – 30, 2022.	NIT Calicut (AICTE Sponsored)
10	Dr. R. Sridharan	ATAL FDP on Digital Supply Chain Management	September 19 – 30, 2022.	NIT Calicut (AICTE Sponsored)
11	Dr. Sharu B. K.	National Conference on Materials Science and Green Technology	9-10 March 2023	Noorul Islam Centre for Higher Education, Kumaracoil-629180
12	Dr. Sharu B. K.	Faculty Development Programme on “Energy-Fundamentals to Research”	2 <sup>nd</sup> March 2023	Govt. Engineering College Kozhikode, West Hill, Calicut-6730005
13	Dr. V. Madhusudanan Pillai	Keynote speaker in the 5th International Conference on “Advances in Steel, Power and Construction Technology (ICASPCT-2022)”	June 15-17, 2022	OP Jindal University, Raigarh (CG), India
14	Dr. V. Madhusudanan Pillai	Keynote speaker at the Second edition of International Conference on Advances in	7-9 July 2022	Muthoot Institute of Technology & Science (MITS), Varikoli, Puthencruz, Ernakulam

		Manufacturing and Material Science 2022		
15	Dr. V. Madhusudanan Pillai	Impact Lecture Series 2022-23, organized by Institution's Innovation Council (IIC) of Kannur University, in association with Ministry of Education's Innovation Cell (MIC) and All India Council for Technical Education (AICTE) on the topic: Fostering R&D and Industrial consultancy in Academia	12th July, 2022	Kannur University, Kerala
16	Dr. V. Madhusudanan Pillai	ATAL FDP on Digital supply chain management	19th to 30th of September 2022	NIT Calicut
17	Dr. Vineesh K. P.	4th Structural Integrity Conference and Exhibition	14th - 16th December 2022	IIT Hyderabad
18	Dr. Simon Peter	TWO-DAY NATIONAL SEMINAR On FOUNDATIONS OF COMPUTATIONAL FLUID DYNAMICS FOR MARINE TECHNOLOGY	17, 18 March 2023	Department of Ship Technology, CUSAT, Kochi
19	Dr. Amit Kumar Singh	Advanced Entrepreneurship Skill Development Course on 3D Printing	March 20-March 25, 2023	NIT Calicut
20	Dr. Deepak Lawrence K.	Fundamentals of 3-D data files for additive manufacturing as part of Skill Development program on Introduction to Industrial 3D Printing	20-25 March 2023	NIT Calicut
21	Dr. Sandip Rudha Budhe	FDP on "Composite Materials: Latest Trends and Advancements"	January 30 <sup>th</sup> 2023 (1-week program)	Amal Jyothi College of Engineering
22	Dr. Vinod Kumar Sharma	Research methodology and how to write a good scientific research paper	10-14 Jan 2023	Bansal Institute of Science and Technology Bhopal
23	Dr. Vinod Kumar Sharma	Pathways to sustainable future	15-17 Nov 2022	Energy Management Centre, Kerala

24	Dr. Vinod Kumar Sharma	Energy – Fundamentals to research	27 Feb to 4 March 2023	GEC Calicut
25	Dr. Vinod Kumar Sharma	Hydrogen for future energy applications	14 Oct 2022	MDIT Calicut
26	Dr. Vinod Kumar Sharma	Hydrogen storage for future energy applications	2 Feb 2023	GEC Raipur
27	Dr. Vinod Kumar Sharma	Research Methodology	3 Feb 2023	REC Bhilai
28	Dr. Vinod Kumar Sharma	Renewable energy technologies for sustainable systems	4-5 March 2023	VIT Vellore

**e. Consultancy and testing**

SL. NO	NATURE OF SERVICE	ORGANIZATION	REVENUE EARNED	STATUS
1	3D Optical Profilometer	IIT Kurnool	2,832 /-	Completed
2	3D Optical Profilometer	Gujarat Technological University	10,620 /-	Completed
3	3D Optical Profilometer	Government Dental College, Kozhikode	5,664 /-	Completed
4	3D Optical Profilometer	University of Calicut	1,062 /-	Completed
5	3D Optical Profilometer	Cochin University of Science and Technology	12,744 /-	Completed
6	3D Optical Profilometer	NIT Calicut	16,500 /-	Completed
7	High Speed Camera	NIT Calicut	3,750 /-	Completed
8	Thermal Imager -FLIR	NIT Calicut	900 /-	Completed
9	Consultancy Service	VIT Vellore	1,06,200/-	Ongoing

**f. Students achievements**

SL.NO.	NAME OF THE STUDENT	PROGRAMME OF STUDY (B.TECH./ M.TECH./ PH.D.)	DETAILS OF HIS/HER ACHIEVEMENTS DURING THIS PERIOD
1	Atul A P	M Tech (Thermal Sciences)	Secured first position in PG innovative projects in NIT Calicut in the year 2022-23
2	Shyam Mohan K P	M.Tech	Best paper award in the Third international conference on Advances in Physical Sciences and Materials (ICAPSM 2022), Coimbatore, August 18-19, 2022
3	Ms. Satakshi Singh	B.Tech	Attended conference at IIM Indore
4	Ajin, Trilokesh and Abel	B.Tech	Started a company based on their project work: Start Up

**DEPARTMENT OF MATHEMATICS****a. Community Services**

<b>NAME OF STAFF</b>	<b>ACADEMIC AND ADMINISTRATIVE SERVICES</b>
Dr. Satyananda Panda	Warden A-Hostel, Member CIRFL, Member R&C
Dr. Ashish Awasthi	President, NITC Staff Club
Dr. Lineesh M. C.	Member of Ethics committee of MVRCRC

**b. Other Academic and Administrative Services**

<b>NAME OF STAFF</b>	<b>ACADEMIC AND ADMINISTRATIVE SERVICES</b>
Dr. Neetu Garg	Innovation Ambassador
Dr. Vibhuti Arora	Official Language Implementation Committee
Dr. Ashish Awasthi	Center for Indian Knowledge System Committee
Dr. Ashish Awasthi	Center for Yoga and Holistic Wellness Committee
Dr. Ashish Awasthi	Center for Industry and Institutional Relations Committee
Dr. Suresh Kumar Nadupuri	Deputy Chairperson, UG admissions, NIT Calicut.

**c. Conferences/Summer/Winter School/Short term Courses/ Workshops conducted**

<b>SL. NO.</b>	<b>COORDINATORS</b>	<b>TITLE</b>	<b>DURATION &amp; PERIOD</b>
1	Dr. Tamal Pramanick	VRITIKA Internship on “Finite Element Method and Industrial Applications” supported by SERB.	27th Jun - 27th Jul, 2022
2	Dr. Satyananda Panda, Dr. Neetu Garg	Workshop on “Mathematics for Artificial Intelligence (MAI2023)”	January 16-20, 2023
3	Dr. Neetu Garg	Institute’s Innovation Council Workshop on “Entrepreneurship/Innovations in Artificial Intelligence”	January 18, 2023

**d. Expert lecturers delivered in Conferences/Seminar/workshops**

<b>SL. NO.</b>	<b>NAME OF STAFF</b>	<b>TITLE OF THE PROGRAMME</b>	<b>DURATION AND PERIOD</b>	<b>ORGANIZATION</b>
1	Dr. Satyananda Panda	Longwave modeling of thin film flow of a generalized second-grade fluid down an inclined plate–Seminar Talk	June 2022	University of Koblenz, Germany

2	Dr. Satyananda Panda	Hyperbolic Conservation Laws-Invited Talk	July 2022	VSSUT Burla Sambalpur
3	Dr. Satyananda Panda	Hyperbolic Conservation Laws and numerics-Invited Talk	July 2022	KIIT University Bhubaneswar
4.	Dr. Satyananda Panda	Unravelling surfactant transport on a thin liquid film, -Invited Talk-Int. Conference on Recent Developments in Mathematics, ICRDM 2022	August 24 <sup>th</sup> - 26 <sup>th</sup> , 2022	Canadian University, Dubai,
5.	Dr. Satyananda Panda	Tidal wave simulation in the Gulf of Khambhat, GUDMAA - Shri Kalyanprasad Mamorial Lectures 2022, National Mathematics Day,	December 2022	Department of Mathematics Gujarat University, Ahmedabad
6.	Dr. Satyananda Panda	Longwave modelling of thin film flow of a generalised second-grade fluid down an inclined plate–Ket Note Talk-ICAMM 2023	January 2023	PSG Tech, Coimbatore
7.	Dr. Satyananda Panda	Longwave Modelling of Thin Film Flow of a Generalized Second-Grade Fluid Down an Inclined Plate, Invited Talk-National Conference on Applied Mathematics and Numerics (NCAMN 2022)	March 8 <sup>th</sup> - 10 <sup>th</sup> , 2023	Mar Ivanios College (Autonomous), Thiruvananthapuram & Department of Mathematics, IIST Trivandrum
8.	Dr. Deepesh K. P.	Workshop on Inverse Problems and Applications	March 8 <sup>th</sup> , 2023	Department of Mathematical and Computational Sciences, National Institute of Technology Karnataka, Surathkal
9.	Dr. Deepesh K. P.	Ganitha Garima A Workshop on core areas of Mathematics	March 23 <sup>rd</sup> - 24 <sup>th</sup> , 2023	Department of Mathematics, University of Kerala
10.	Dr. Neetu Garg	A National Workshop on Current Research Scenario in Mathematics	March 27 <sup>th</sup> - 31 <sup>st</sup> 2023	Department of Mathematics, VIT Chennai
12.	Dr. Vibhuti Arora	A National Workshop on Current Research Scenario in Mathematics	March 27 <sup>th</sup> - 31 <sup>st</sup> , 2023	VIT Chennai

## DEPARTMENT OF CHEMISTRY

### a. Community Services

1. Training students and public to make biocomposites as an alternative of synthetic plastic materials
2. Writing science articles in magazines and news papers
3. Edumission core committee member, Govt. of Kerala

### b. Other Academic and Administrative Services

Name of Staff	Academic and Administrative Services
Dr. Suni Vasudevan	Head, Department of Chemistry, NIT Calicut (July 2022 – till date) Chairperson, Centre for Women Welfare and Social Empowerment, NIT Calicut (Feb 2023 – till date) Coordinator, PG Curriculum revision, Dept. of Chemistry, NIT Calicut
Dr. A. Sujith	Secretary, Technology Business Incubator, NIT Calicut (2022 onwards) Head, Department of Chemistry, NIT Calicut (2020 - 2022) Governing Body Member, Institute of Human Resources Development (IHRD), Govt. of Kerala Faculty in Charge, ISTE, NIT Calicut Chapter PhD Coordinator, Department of Chemistry SWAYAM course coordinator, Department of Chemistry Library in Charge, Department of Chemistry
Dr. Mausumi Chattopadhyaya	B.Tech. Coordinator in Chemistry department for the academic year 2022-2023 + the same was served for the Monsoon Semester 2021-2022s
Dr. Mausumi Chattopadhyaya	NBA coordinator nominated from the department for the recent accreditation held on 2023
Dr. Mini Mol Menampambath	Faculty-in-charge of student club-IGNITE Warden of Mega Hostel for Ladies Member: Institute level Research & Consultancy Committee (IRCC) Advisory Committee Of Centre For Materials Characterization (Cmc) Faculty Advisor for MSC 2021 Chemistry admissions Supervising 5 Phd Students Supervised 10 Pg Students
Dr. Chinna Ayya Swamy P.	Faculty In Charge For Departmental Time Table Member, Scrutiny Committee For The Msc Admission Member, Scrutiny Committee For The Phd Admission Member, Scrutiny Committee Chairman For The Lab Technician Inorganic Laboratory In Charge In Charge Of Departmental Instruments Purchase committee member
Dr. Janardhan Banothu	Warden B-Hostel Faculty advisor of M.Sc. Chemistry 2022-2024 batch Faculty In-charge for IR Instrument
Dr. Parameswaran Pattiyil	Chairman ETL Faculty-in-charge CCMS



**c. Conferences/Summer/Winter School/Short term Courses/ Workshops conducted**

SL.NO	TITLE	COORDINATORS	DURATION & PERIOD
1	Entrepreneurship development programme on 'Biocomposites from Rubber and Plastic' Sponsored by MSME, Govt. of India	Dr. A. Sujith	6-02-2023 to 11-02-2023 (6 days)
2	Prof. Sitaraman Science Quiz programme	Dr. A. Sujith	31-01-2023
3	Workshop for PSMO College, Malappuram, Kerala	Dr. A. Sujith	3-01-2023
4	Workshop for school students	Dr. A. Sujith	27-12-2022
5	Swatch Sagar, Surakshith Sagar, sponsored by Govt of India	Dr. A. Sujith	15-09-2023
6	Moon day celebration, sponsored by UL Space Club	Dr. A. Sujith	21-07-2023
7	Research Facility Training	Dr. Raju Dey	One day (15.12.22)
8	Research Facility Training Programme	Dr. Janardhan Banothu	28/02/2023

**d. Expert lecturers delivered in Conferences/Seminar/workshops**

SL. NO.	NAME OF STAFF	TITLE OF THE PROGRAMME	DURATION AND PERIOD	ORGANIZATION
1	Dr. A. Sujith	National Science Day celebration	28-02-2023	St. Joseph's College, Devagiri, Kozhikode
		Edumission Innovation Club Inauguration	19-02-2023	GHSS Naduvannur, Calicut
		MBIFL 23 Speech on 100 years of Mathrubhumi	20-01-2023	Mathrubhumi
		Gifted Children's programme, Kerala Education department	24-12-2023	Munderi GHSS, Kannur
2	Dr. Lisa Sreejith	5 th International Conference on Material Science, London, UK	Oct. 4-7,2022	Univrsty of Roehampton, London
3	Dr. Muniyandi Sankaralingam	The seminar on Recent Trends in Chemical Research	February 09, 2023	Farook College, Kozhikode
4	Dr. Muniyandi Sankaralingam	International Conference on Recent Trends in Materials and Magnetism (RTMM – 22)	December 15-16, 2022	Loyola College, Chennai
5	Dr. Muniyandi Sankaralingam	UGC-HRDG Kannur University Refresher Course Winter School in Physics and Chemistry, Kannur,	December 09, 2022	Kannur University

6	Dr. Muniyandi Sankaralingam	Invited Lecture at the CEA-CNRS-University Grenoble Alpes	September 16, 2022	CEA-CNRS-University Grenoble Alpes, Grenoble, France
7	Dr. Muniyandi Sankaralingam	The National Conference: Emerging Trends in Chemistry (ETC).	April 13, 2022	Department of Chemistry at SBK College, Aruppukottai, Tamil Nadu
8	Dr. Anuj A. Vargeese	Smart and Functional Materials	08.04.2022	St. Agnes College, Mangluru
9	Dr. Anuj A. Vargeese	DST-STUTI	14.11.2022-20.11.2022	NIT Calicut
10	Dr. Janardhan Banothu	9th Research Meet And Awards	07/01/2023	Vinus International Foundation
11	Dr. Chinna Ayya Swamy P.	National Level Virtual FDP on Recent Advances in Chemical Sciences	26.09.2022	Thiagarajar College, Madurai, Tamilnadu
12	Dr. Chinna Ayya Swamy P.	National Webinar on Recent trends in Chemical and Forensic Science	21.04.2022	Karunya Institute of Technology and Sciences, Coimbatore

**e. Consultancy and testing**

SL. NO	NATURE OF SERVICE	ORGANIZATION	REVENUE EARNED	STATUS
1	Mentorship for car polish development	M/s RaHS Innovations	The company is being incubated.	Product launching expected by the end of August 2023

**f. Student achievements**

1. Thasnim P. Mohammed, secured prize for oral presentation in international conference on “International Conference on Recent Trends in Materials and Magnetism (RTMM - 22)” from 15 & 16 December, 2022, organized by the Department of Chemistry, Loyola College, Chennai.
2. Athulyadas, secured third prize in poster making competition on the topic “Current research technologies (physical, chemical, biological, mathematical, computational, engineering etc.) in advancing frontiers of molecular genetics: Where does India stand?” on the occasion of Gregor Mendel’s 200<sup>th</sup> year birth anniversary celebration held on 15 September, 2022, organized by School of Biotechnology, NIT Calicut.
3. Thasnim P. Mohammed, secured prize for oral presentation in international conference on “Emerging Frontiers in Chemical Sciences, EFCS - 22)” from 19 & 20 January, 2023, organized by the Department of Chemistry, Farook College (Autonomous), Calicut.
4. Anjana Rajeev, secured the best poster award at the national conference on” Frontiers in Chemical Sciences (FCS 2023) from 1-3 February 2023, organised by the Department of Chemistry, University of Calicut.”
5. Athulyadas, secured best poster award in the international conference on “Emerging Frontiers in Chemical Sciences, EFCS - 22)” from 19 & 20 January, 2023, organized by the Department of Chemistry, Farook College (Autonomous), Calicut.
6. Athulyadas, secured best oral presentation award in the national seminar on “Frontiers in Chemical Sciences, FCS - 2023” from 1-3 February 2023, organized by the Department of Chemistry, University of Calicut.

7. Nesleena P. - Best paper award (oral presentation) at the first International Conference on "Advancements in Materials, Manufacturing and Automation (AMMA- 2023)" organized by Amrita Vishwa Vidyapeetham Chennai
8. Nesleena P. – First prize for Poster Presentation in Frontiers in Chemical Sciences 2023, organized by Calicut University, Kerala India.
9. Rasha Rahman P. K. – First prize for Oral Presentation in emerging Frontiers in Chemical Sciences, EFCS 2022 organized by Farook College, Calicut, India
10. Nesleena P. – First prize for Poster Presentation in 2nd International Conference (iCAM-2022) organized by Sathyabama Institute of Science and Technology, India
11. Rasha Rahman P. K. – First prize for Oral Presentation in 2nd International Conference (iCAM-2022) organized by Sathyabama Institute of Science and Technology, India
12. Rasha Rahman P. K. – First prize for Oral Presentation in World Sensor Congress 2022 organized by C-MET Thrissur
13. Nesleena P. - Received the support to the Researchers with the Catalytic Grant (Reverse funding) provided by the I-STEM for an amount of Rs. 1,10,000/- for a duration of 6 months) Feb 2022-July 2022.

## DEPARTMENT OF PHYSICS

### a. Other Academic and Administrative Services

Name of Staff	Academic and Administrative Services
Prof. Chandrasekharan K.	Chairperson, DASA Admission
Prof. Raghu Chathanathodi	Chairperson, Centre for Holistic Teaching & Learning
Prof. M. K. Ravi Varma	1. Head of the Department of Physics 2. Chairperson, Centre for International Relations & Foreign Languages
Dr. Vari Sivaji Reddy	1. Faculty Advisor, B.Tech. Engg Physics, 2020 – 24 2. Deputy Chairperson, PG Admissions 3. Dept UG Curriculum & Syllabi Coordinator
Dr. P. K. Madhavan Unni	1. Faculty Advisor, B. Tech (Engg Physics), 2021 – 25 2. B.Tech. (Engg Physics) Program Coordinator 3. Placement Cell – Department Representative 4. NITC – PTA Coordinator 5. Department NBA Coordinator
Dr. Suchand Sangeeth C. S.	1. Department LAC Coordinator 2. Department Exam coordinator 3. Warden, NITC Hostels
Dr. Ram Ajor Maurya	1. Faculty In-charge, Computational Physics Lab 2. Programme Coordinator, M.Sc. (Physics) 3. Member of the Institute Official Language Implementation Committee (OLIC) for, (i) Department of Physics, and (ii) Center for Indian Knowledge System (CIKS) 4. Member of the Center for the Indian Knowledge System (CIKS) 5. DC member for research scholar, Ms. Sherin Jose T (P180041MA), Department of Mathematics, NIT Calicut. 6. DC member for research scholar, Mr. Sasikiran Suddarsi (P190139EC), Department of Electronics and Communication Engineering

	7. DC member for research scholar, Mr. Arun Thomas (P190082PH), Department of Physics DC member for research scholar, Ms. Sidfa C. (P210114PH), Department of Physics
Dr. Goutam Kumar Chandra	1. Faculty advisor MSc 2020 batch 2. Class Committee Chairman (BTech EP 2022 Batch) 3. Optics Lab in-Charge, Department of Physics, NITC 4. Innovation Ambassador, IIC, NITC 5. Member of Project Implementation Group (DST-FIST), Department of Mathematics, NITC.
Dr. Saurabh Gupta	1. Faculty Advisor, MSc (Physics) - 2022 admission 2. Class committee chairman S7 & S8 B.Tech. (EP) 3. GeM consignee, Physics Department, NITC 4. Member of Academic Quality Monitoring Committee - Department of Physics, NITC 5. Member, Department NBA committee 6. Member, PG curriculum committee
Dr. Subramanyan Namboodiri Varanakkottu	1. IRCC Member from the Department 2. Innovation Ambassador, IIC, NITC
Dr. Aswathi G.	1. Class Committee Chairman (S4-B-Tech) 2. Member of Time Table Committee, Dept. of Physics, NITC 3. Alumni Affairs Coordinator, Dept. of Physics, NITC
Dr. P. N. Balasubramanian	1. CC Chairperson (MSc 23 Batch) 2. Time Table in charge 3. CSAS Member 4. Dept PG Curriculum & Syllabi Coordinator 5. IMS Academic Module Team member
Dr. Sreeraj T. P.	1. Member of department NBA coordination committee 2. Member of department website committee 3. FA (2021 admission MSc Physics)
Dr. N. Yogesh	1. Ph. D Coordinator 2. Electronics Lab-in-charge 3. Member of UG curriculum committee 4. Satellite program coordinator 5. Ansys software coordinator 6. Member of space committee
Dr. Sayani Chatterji	1. Member of departmental website committee 2. Member of computational lab committee 3. Member of UG curriculum committee 4. Member of departmental Students Guidance Cell.
Dr. Anoop Varghese	1. First year B.Tech. Physics course coordinator 2. Member of UG curriculum committee.

Dr. Anirban Sarkar	1. B.Tech. First year Physics lab coordinator 2. Member of Centre for International Relations and Foreign Languages 3. Faculty-in-Charge for I-STEM
Dr. Raman Namboodiri	1. Faculty Advisor, B.Tech. Engg Physics, 2022 – 26 2. UG Admission Official

**b. Conferences/Summer/Winter School/Short term Courses/ Workshops conducted**

SL.NO	TITLE	COORDINATORS	DURATION & PERIOD
1	Hands-on Training Workshop on Sophisticated Instruments for Materials & Device Fabrication and Characterization (STUTI)	Dr. Maneesh Chandran, PHY, NITC (Convener) Dr. Anuj A. Vargeese, CHY, NITC (Co-Convener) Dr. Vinod E. Madhavan, SMSE, NITC (Co-Convener)	14-20 November 2022

**c. Expert lectures delivered in Conferences/Seminar/workshops**

SL. NO.	NAME OF STAFF	TITLE OF THE PROGRAMME	DURATION AND PERIOD	ORGANIZATION
1.	Dr. Ram Ajor Maurya	Solar Physics Workshop on “Multi-scale Phenomena on the Sun: Present Capabilities and Future Challenges”	30 min (April 4, 2022)	Udaipur Solar Observatory, Physical Research Laboratory, Udaipur
2.	Dr. Goutam Kumar Chandra	Hands-on Training Workshop on Sophisticated Instruments for Materials & Device Fabrication and Characterization	November 14-20, 2022	Organized by National Institute of Technology Calicut In Association with Banasthali Vidyapith, Rajasthan

**SCHOOL OF BIOTECHNOLOGY**

**a. Other Academic and Administrative Services**

NAME OF STAFF	ACADEMIC AND ADMINISTRATIVE SERVICES
Dr. Rathinasamy K.	Head, School of Biotechnology <ul style="list-style-type: none"> <li>• Faculty advisor 2019 batch</li> <li>• Class Committee chairman 2019 batch</li> <li>• Faculty In-charge downstream process Laboratory</li> </ul>
Dr. Rajanikanth G. K.	<ul style="list-style-type: none"> <li>• Dean (Students’ Welfare)</li> <li>• Chairperson – Centre for Cultural and Art Relations (CCAR)</li> <li>• Chairperson – Centre for Students Activity and Sports (CSAS)</li> <li>• Faculty In-charge Biochemistry Laboratory</li> </ul>
Dr. Md. Anaul Kabir	<ul style="list-style-type: none"> <li>• Member Secretary Institutional Biosafety Committee (IBSC)</li> <li>• Phd Program coordinator</li> <li>• Faculty In-charge Molecular Biology Laboratory</li> </ul>
Dr. Santhiagu A.	<ul style="list-style-type: none"> <li>• Faculty In-charge Bioprocess Laboratory</li> </ul>

Dr.Suresh P. S.	<ul style="list-style-type: none"> <li>• Faculty advisor 2018 batch</li> <li>• Class Committee chairman 2018 batch</li> <li>• Member of Centre for Industry- Institutional relations</li> <li>• Member of the Institutional Biosafety committee</li> <li>• Anti-ragging squad member</li> <li>• 18th convocation registration committee member</li> <li>• Biodiversity students club faculty coordinator</li> <li>• Dean academic nominee for malpractice committee</li> <li>• I-Stem coordinator for the School of Biotechnology</li> <li>• Co-ordinator Industry-Interaction cell</li> <li>• Faculty in charge for departmental Journal Club</li> <li>• Faculty member for student guidance cell, School of Biotechnology</li> <li>• Doctoral committee member for internal and external institutes</li> <li>• Ph. D thesis evaluator for external universities</li> <li>• Resource Person, UGC-HRDC</li> <li>• Single point of contact/Investigator MoU between KMC Mangalore and NIT Calicut</li> <li>• Coordinator for Technical staff selection, School of Biotechnology</li> <li>• Evaluator for Minor project, BTech Biotechnology</li> <li>• Evaluator of poster competition</li> <li>• Coordinator student industry tour to Malabar Cancer centre</li> <li>• Coordinator of Co-teaching for elective course cancer Biology</li> <li>• Editorial board member, reviewer and guest editor for Cancer research journal</li> <li>• Departmental Committee member for NBA accreditation</li> <li>• Departmental Vigilance squad member</li> <li>• In charge for the Immunology laboratory</li> <li>• Invited speaker and delivered lectures in external institutes</li> </ul>
Dr. Tom Skaria	<ul style="list-style-type: none"> <li>• Acting as PI for externally sponsored research grant (from DST SERB)</li> <li>• Sponsored research (sanctioned in Dec 2021)</li> <li>• Funding agency: DST SERB, SRG 2021</li> <li>• Project title: Cathepsin-S as a novel direct drug target for preventing barrier and tissue destructive proinflammatory IL-1 beta signaling in primary, vascular endothelium: an in vitro study</li> <li>• Granted amount: Rs. 2962650/ (approved duration: 2 years)</li> <li>• Faculty Advisor and class committee chairman for BTech Biotechnology 2020- 24 batch since December 2020</li> <li>• Course Coordinator and REX/ Make up exam coordinator for Introduction to Life Sciences (BTech first year core course, offered across all BTech branches) for Monsoon and Winter Semester 2022-2023</li> <li>• Member of Committee for Centre for Material Characterization (CMC), NIT Calicut to oversee the usage policy and activities of the centre</li> <li>• Member of Committee for Disposal of Obsolete and Unserviceable items for School of Biotechnology</li> <li>• 6) NBA 2023 co-coordinator</li> </ul>

Dr. Suchithra T. V.	<ul style="list-style-type: none"> <li>• NBA coordinator Member,</li> <li>• Board of studies of Biotechnology, University of Calicut</li> <li>• Faculty In-charge Microbiology Laboratory</li> </ul>
Dr. Ravindra Kumar	<p>Departmental Duties</p> <ul style="list-style-type: none"> <li>• Sports coordinator</li> <li>• Faculty In-charge for Alumni (NITC)</li> <li>• Faculty Coordinator (T&amp;P)</li> <li>• Faculty in charge for Bioinformatics Lab</li> <li>• Faculty in charge for Time table</li> <li>• Faculty in charge for Exam time table</li> <li>• Faculty Advisor for Batch 2022</li> <li>• IMS Coordinator</li> <li>• Institutional Duties</li> <li>• Member - Library Advisory Board</li> <li>• Convener Unnat Bharat Abhiyan Committee</li> <li>• Member of Institute Official language implementation Committee</li> <li>• Outreach Activities</li> <li>• Worked as Pre-Screening Evaluator for SMART India Hackathon, 2022, conducted by MOE.</li> <li>• Acted as Exyernal Examination for the comprehensive exam for the PhD Scholar of Sahrdaya, College of Engineering &amp; Technology</li> </ul>
Dr. K. Rajasekhara Reddy	<ul style="list-style-type: none"> <li>• Internal Audit coordinator from Department</li> <li>• UG admission Official to provide services (online and offline) to UG admission process</li> <li>• Faculty in-charge of chemical waste management</li> </ul>
Dr. Ilanila I. P.	<p>Department Level:</p> <ul style="list-style-type: none"> <li>• co-representative for the Vision 2047 document</li> <li>• co-representative for department webpage maintenance</li> <li>• co-coordinator for internal audit</li> <li>• NBA co-coordinator</li> </ul> <p>Outside the institute:</p> <ul style="list-style-type: none"> <li>• Board of Studies member for “Kamaraj College of Engineering and Technology, Virudhunagar, Tamil Nadu” from Jan2023 - Dec2024.</li> <li>• Session Chair in the International Conference on Recent Advances in Biotechnology (icRAB 2022) conducted by Department of Biotechnology &amp; Department of Chemical Engineering in association with Science Technology &amp; Innovation (STI) Hub from 2-4 December 2022</li> </ul>
Dr. Cecil Antony	<ul style="list-style-type: none"> <li>• Coordinator for First Year course- Introduction to Life Sciences,</li> <li>• MEMBER OF NAAC COMMITTE,</li> <li>• Faculty Advisor 2021 Batch</li> </ul>
Dr. Baiju G. Nair	<ul style="list-style-type: none"> <li>• Vice chairperson of Center for international relations and foreign languages</li> <li>• Innovation ambassador –MIC</li> <li>• Purchase coordinator of the Department</li> </ul>

**b. Conferences/Summer/Winter School/Short term Courses/ Workshops conducted**

SL.NO	TITLE	COORDINATORS	DURATION & PERIOD
1	GCP and NDCT rules, issues in research with traditional system of medicine, ICMR national ethics guidelines and role and responsibilities of ethics committee.	Department of Homeopathy, GoK and FERCI	1 day; 6.8.2022
2	Conducted a webinar and poster-making contest celebrating 200 years of Mendelian Genetics. Speaker: Professor Vivekanandan Perumal, Kusuma School of Biological Sciences, IIT Delhi, on Title-"Epigenetics: a sneak peek into the hidden controls of life	Dr. Suresh P. S.	September 26th, Monday, 2022 4.00-5.00 pm
3	Poster competition on the theme of current research technologies (physical, chemical, biological, mathematical, computational, engineering, etc.) in advancing frontiers of molecular genetics: Where does India stand?	Dr. Suresh P. S.	26/9/2022
4	Hands-on workshop for school students on modern biotechnology techniques	Dr. Md. Anaul Kabir	4-5 November 2022
5	Conducted webinars by Dr. Aniruddha Chatterjee, University of Otago, New Zealand and Dr. Srikanth Nama, Syngene, Bangalore.	Dr. Suresh P. S.	18/3/2023

**c. Expert lectures delivered in Conferences/Seminar/Workshops**

SL. NO.	NAME OF STAFF	TITLE OF THE PROGRAMME	DURATION AND PERIOD	ORGANIZATION
1	Dr. Rajanikant G. K.	Invited Talk "A Roadmap for Research in Translational Neuroscience". Continuing Medical Education Program on "Homeopathic Evidence based Advanced Research and Training (HEART)" as part of the World Hahnemannian Day Celebrations, commemorating the 267th Birth Anniversary of Dr. Samuel Hahnemann.	April 12, 2022	The Directorate of Homoeopathy, Department of AYUSH, Government of Kerala
2	Dr. Ravindra Kumar	Delivered a lecture on Identification of potential targets using Protein-Protein interactions network and Gene Ontology analysis" in International conference on Data Science computational Intelligence and Bioinformatics-ICDCB 2023.	90 Minutes 24 <sup>th</sup> - 25 <sup>th</sup> March 2023	Department of Computer Science, Electronics and Biotechnology, University College of Science, Tumkur University, Tumakuru,



				Karnatka, India during.
3	Dr. Ravindra Kumar	Delivered a lecture on “Fundamentals of Machine Learning and its Applications in Biology” in the workshop entitled “Mathematics for Artificial Intelligence (MAI2023).	90 Minutes, 16 <sup>th</sup> - 20 <sup>th</sup> Jan 2023	Department of Mathematics, NIT Calicut, Kerala, India- 673601
4	Dr. Ravindra Kumar	Given an online lecture and Hands on training on " Type of Biological Databases and their Importance in Drug Design and Discovery" in the workshop entitled " Data Mining from Biological Databases: An Important Step in Drug Discovery and Development"	90 Minutes, 25 <sup>th</sup> -27 <sup>th</sup> Nov 2022	DBT-Sponsored Bioinformatics Centre, Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, Panjab 147002
5	Dr. Suresh P. S.	Manuscript writing webinar	26/11/2022	Satya Bham Institute of Technology, Chennai
6	Dr. Suresh P. S.	Refresher program-UGC	24-09-2022	Kannur University
7	Dr. Cecil Antony F.	An interactive session on "Recent research challenges and opportunities in Life Sciences” with Padma Shri. Dr. Virander Singh Chauhan, Ex-Director, ICGEB,	4 <sup>th</sup> Sep 2022	School of Biotechnology, NIT Calicut

**d. Student Achievements: (2022-23)**

1. Rajesh Kumar Memorial award, best outgoing student with all round abilities for Raidha Anwar
2. Devika S., Worked as Research Associate at Blue Marble Space Institute of Science (BMSIS), USA, as part of the Young Scientist Program 2021.
3. Dimple Patel, Worked as Research Associate at Blue Marble Space Institute of Science (BMSIS), USA, as part of the Young Scientist Program 2021.

**SCHOOL OF MATERIALS SCIENCE AND ENGINEERING**

**a. Community Services**

- Dr. Shijo Thomas was a member of the evaluation panel for the Kerala State Level Inspire Projects (SLEPC) held at Ernakulam on 28th January 2023.
- Dr. Sajith V., was a member of judging panel for the Grand Finale -WE 4 U Award for Best Out Going Female Engineer, GCEK held on 29th March 2023
- Dr. Sajith V., was the coordinated the activities of the NITC in the Higher Studies Expo - DISHA 2023 organized by Career Guidance and Adolescent Counseling Cell of Higher Secondary Wing under the Directorate of General Education, Govt, of Kerala, from January 3 to 7, 2023 at Kozhikode Beach.

**b. Other Academic and Administrative Services**

<b>NAME OF STAFF</b>	<b>ACADEMIC AND ADMINISTRATIVE SERVICES</b>
Dr. C. B. Sobhan	Joint Secretary, Indian Society of Heat and Mass Transfer
Dr. Hanas T.	Associate Dean, Academics section, NIT Calicut
Dr. Shijo Thomas	ViceChairman, C-PRIME
Dr. Sajith V.	Chairperson, Centre for Career Development, NIT Calicut

**c. Conferences/Summer/Winter School/Short term Courses/ Workshops conducted**

<b>SL.NO</b>	<b>TITLE</b>	<b>COORDINATORS</b>	<b>DURATION &amp; PERIOD</b>
1	Workshop on Advanced materials for Affordable Healthcare	Dr. N. Sandhyarani, Dr. Shyam Kumar	25, 26 February 2023
2	First International Conference in Fluid, Thermal and Energy Systems (ICFTES'22)	Dr. Shijo Thomas	6th -11 th June, 2022

**d. Expert lecturers delivered in Conferences/Seminar/workshops**

<b>Sl. No.</b>	<b>Name of Staff</b>	<b>Title of the Programme</b>	<b>Duration and Period</b>	<b>Organization</b>
1	Dr. Shijo Thomas	FDP on Energy-Fundamentals to Research	01-03-2023	Govt Engineering College, Kozhikode
2	Dr. Shijo Thomas	Nanotechnology-Fundamentals to Application	14-02-2023	Govt Engineering College, Kozhikode
3	Dr. Shijo Thomas	Nano Materials: Developments, applications and future outlook	09-01-2023	St Joseph's College of Engineering, Pala
4	Dr. Shijo Thomas	Application of Nanotechnology in Mechanical Engineering	06-02-2023	KMEA Engineering College, Ernakulam
5	Dr. Sajith V.	Nanotechnology-Fundamentals to Application	17-02-2023	Govt Engineering College, Kozhikode
6	Dr. Aparna Zagabathuni	International conference on Biomaterials, Regenerative Medicine, and Devices	14 <sup>th</sup> -18 <sup>th</sup> Dec, 2022	Indian Institute of Technology Guwahati
7	Dr. Aparna Zagabathuni	MSME-sponsored workshop on "Advanced materials for affordable health care"	20 <sup>th</sup> -26 <sup>th</sup> Feb, 2023	National Institute of Technology Calicut
8	Dr. Hanas T.	MSME-sponsored workshop on "Advanced materials for affordable health care"	20 <sup>th</sup> -26 <sup>th</sup> Feb, 2023	National Institute of Technology Calicut

## SCHOOL OF MANAGEMENT STUDIES

### a. Community Services

NAME OF STAFF	OUTREACH PROGRAM	LOCATION	DATE
Dr. Althaf Shajahan	Seeking Ikigai: Envisioning Holistic Education	Payyannur College, Kannur	June 2023
Dr. Althaf Shajahan	Ikigai – Reliving with a purpose	C M College, Panamaram, Wayanad	Feb 2023
Dr. Nithya M.	FDP on Data Analytics for Advanced Research using R and Tableau (Online)	Electronics and ICT Academy NIT Warrangal	May 2023
Dr. Nithya M.	Faculty Development Program on "Business Applications of SPSS, R, and Tableau	GITAM School of Business, Hyderabad	April 2022

### b. Other Academic and Administrative Services

NAME OF STAFF	ACADEMIC AND ADMINISTRATIVE SERVICES
Dr. Sunitha S.	Faculty-in-charge, SpicMacay NITC
Dr. Sunitha S., Dr. Manju Mahipalan, Dr. Nithya M.	Member, Centre for Cultural and Art Relations; Member, Centre for Industry Institute Relations Member, Centre for Indian Knowledge Systems
Dr. Vrinda Varma	Member, Centre for Women Empowerment & Social Welfare
Dr. Althaf Shajahan	Innovation Ambassador, Institute's Innovation Council
Dr. Sunitha S., Dr. Manju Mahipalan	Member, Centre for Women Empowerment & Social Welfare Member, Centre for Indian Knowledge Systems Member, Curriculum and Syllabi, ITEP
Dr. Nithya M.	Organizing Committee Member, Cluster 1(IIT Madras, IIT Tirupati, NIT Calicut and NIT Puducherry), Workshop on Public Policy in Amrit Kaal, 2022-23 Formulation of Vision @ 2047 of NIT Calicut Institute Coordinator, 2022-23 Institute Equal Opportunity Cell member, 2022 Organized 'Igniting Minds" Talk for Students from Disadvantaged Sections, April 2023

### c. Expert lectures delivered in Conferences/Seminar/Workshops

SL. NO.	NAME OF STAFF	TITLE OF THE PROGRAMME	DURATION AND PERIOD	ORGANIZATION
1	Dr. Vrinda Varma	Business Communication: Etiquette and Manners MDP: Entrepreneurship Skill Development Programme (MSME Funded)	3/3/23	NITC

2	Dr. Vrinda Varma	Invited Lecture: Literature for our Time	02/03/2023	Zamorin's Guruvayurappan College, Calicut
3	Dr. Althaf Shajahan	Excel Workshop- Empowering Academic Leaders	May 2023	Palakkad
4	Dr. Althaf Shajahan	National Research Methodology Workshop,	Feb 2023	C M College, Panamaram, Wayanad
5	Dr. Nithya M.	FDP on Data Analytics for Advanced Research using R and Tableau (Online)	May 2023	Electronics and ICT Academy NIT Warangal
6	Dr. Nithya M.	Faculty Development Program on "Business Applications of SPSS, R, and Tableau	April 2022	GITAM School of Business, Hyderabad

## 7 FINANCIAL ASSISTANCE TO STUDENTS

### 7.1 SCHOLARSHIPS/ ASSISTANTSHIPS

SI No.	Name of Scholarship under NSP	Numbers
1	Scholarship For Top Class Education For Students With Disabilities – fresh	10
2	Scholarship For Top Class Education For Students With Disabilities Renewal	12
3	National Fellowship And Scholarship For Higher Education Of ST Students - Scholarship (Formally Top-Class Education For Schedule Tribe Students) Fresh	55
4	National Fellowship And Scholarship For Higher Education Of ST Students - Scholarship (Formally Top-Class Education For Schedule Tribe Students) Renewal	110
5	Post Matric Scholarship For Students With Disabilities- Fresh	6
6	Post Matric Scholarship For Students With Disabilities- Renewal	8
7	Central Sector Scholarship Of Top-Class Education For SC Students- Fresh	9
8	Central Sector Scholarship Of Top-Class Education For SC Students Renewal	50

### 7.2 CONCESSIONS FOR SC, ST, OBC, DIFFERENTLY ABLED STUDENTS

All concessions for SC, ST & PwD are provided to students of the Institute as per the Government of India guidelines from time to time.

All scholarships for these categories of students are processed and facilitated by the Institute. Major scholarships are Scholarships provided by various Ministries of the Central Government through the National Scholarship Portal (NSP).

We process all the applications for scholarships provided through NSP.

Various State Government scholarships to Backward class are also processed by the Institute.

E- Grantz scholarship for Kerala State SC, ST, OEC & OBC (H) category students are also processed through the Institute. We also provide documentary support to all students for availing Educational Loan eligible for them.

SI No.	E Grants for Kerala State Students	Numbers
1	ST Category Students	65
2	SC Category Students	279
3	OBC (H) Category Students	28
4	OEC Category Students	1
5	PWD (HS) Students	30
6	PWD (OS) Students	41

### 7.3 CREC SILVER JUBILEE ENDOWMENT TRUST SCHOLARSHIP

CREC Silver Jubilee Endowment Trust (SJET) of the Institute, a registered body with the Director as Chairman, Deans & Heads of Departments as ex-officio and other nominated members as Trustees, currently awarded 93 scholarships worth Rs. 5000 to 10000/- each per annum to the students. The number and the value of the scholarships for a year will vary depending on the availability of funds and the sponsors. The SJET invites applications from the students and Heads of the departments/ a sub-committee will scrutinize the applications, and verifies the data with the students and others. The scholarships are awarded to the deserving students based on their academic merits, economic backwardness and other performance parameters. The SJET scholarships include.

Sl. No.	SCHOLARSHIPS
1.	Prof. A. O. Kunjipaulo Endowment Scholarship
2.	Class of 1992 Computer Engineering Alumni Scholarship
3.	RECCAA, Singapore Scholarship
4.	RECCAA, USA Scholarship
5.	RECCAA, Bahrain Scholarship
6.	REC 1 <sup>st</sup> Batch Scholarship
7.	RECCAA, Mumbai Scholarships (2 Nos.)
8.	CSAI (Class of 2000) Scholarships (4 Nos.)
9.	REC 76 – 81 Batch Scholarships (2 Nos.)
10.	10 years of XXXII <sup>nd</sup> Batch (CREC 96) Scholarship
11.	REC Calicut 1982 Batch Scholarship
12.	NITC (REC) 1983 Batch Scholarship
13.	REC Calicut, Class of '84 Trust Scholarship
14.	CREC 80-85 Batch Scholarship
15.	Padmanabhan Scholarship in Memory of All Departed Souls of 77 Batch, CREC
16.	Capt. Mohammed Memorial Endowment Scholarship
17.	Nitin Sharma Memorial Scholarship
18.	1997 – 2001 CSE B. Tech. Batch Scholarship
19.	Josephus M T, John Sebastian & Luthufi K T Memorial Scholarship 2004-08 Batch
20.	Mariveetil Raghunath Memorial Endowment Scholarship
21.	1984-88 Batch of REC/NITC Scholarship

## 8 CENTRAL FACILITIES AND SERVICES

### 8.1 COMPUTER AND IT SERVICES

#### 8.1.1 Central Computer Centre

Central Computer Centre (CCC) is the central facility in NIT Calicut which caters for the computing requirements of the whole community of this institution. The Centre has state of the

art infrastructure with three fully operational terminal rooms spanning over two floors of the building. Decision Support System (DSS) of the institute also operate from the Computer Centre building. The Centre has nearly 200 client machines & 40 workstations for usage. CCC hosts some of the high-end servers and a parallel computing cluster machine. Servers include four DELL PowerEdge T620 which has a dual Hexa-core processor, Lenovo Think System SR650 V1 with 32GB of V100 GPU and HP ProLiant Rack server which has a dual Quad-core processor. Latest server Lenovo Think System SR650 V2 having a A100 GPU card can run Deep Learning tasks. A state-of-the-art Super Computing Facility with 25 Tera FLOPS computing power meet the research needs of the institute. This Hybrid cluster contains 1 master node and 13 compute nodes (out of which 6 nodes are GPU enabled) are interconnected through infiniband. Each GPU compute nodes contains 2 Tesla K20 GPU cards. All Compute nodes carry dual E5-2640 Intel chip as processors. The facility can be accessed by all the departments and schools anywhere in the campus through networking. All Post graduate, Ph. D scholars and UG students (those who have computationally intensive projects) are using this facility for research activities. Some of the computational softwares and packages for the other departments run from the servers maintained in the CCC as well. Centre is fully air-conditioned and has UPS power backup for the whole setup. The Centre works 16 hours a day (8am – 12am) 7 days a week except national holidays unless instructed otherwise.

Location: ITL 303, IT Laboratory Complex

Faculty-in-Charge: Dr. Jayaraj P. B., Assistant Professor, CSED

Centre Administrator: Mr. A. Rajagopalan

Technician: Mr. G. Sasidharan Pillai

### **8.1.2 Campus Networking Centre**

The Campus Networking Centre (CNC) is the Central Facility providing networking, software and hardware support to the entire student and staff community of NITC Campus spread around 400 acres. CNC manages the Internet connectivity (both wired and wireless), cybersecurity, IP phones' network, servers, and also provides hardware, software and many other IT related solutions for the entire Institute. Presently the campus network is served by 1 Gbps of Internet connectivity provided under the NKN scheme of MHRD, and 4 Gbps leased lines drawn from M/s. BSNL. The campus is interconnected with about 30 kms of fiber-optic backbone network. All the hostels are served with Internet connectivity through wired mode. The campus network has 80 routed internal networks, managed by the Unified Threat Management system. CNC is equipped with Firewall, Authentication Server, Log Analyser, Routers, Core Distribution switches, Domain Name Server, Web Server, Proxy Servers, Antivirus central server and IP Phone Server etc. The Institute website is managed by CNC. IP Phones are installed in all academic and administrative sections. The IP Phones and IP Phone servers are also implemented, configured and managed by CNC. Hardware maintenance unit of CNC provides quality service support to minimize system downtime in the entire campus. The services include installation, troubleshooting and maintenance of computer and peripheral devices, software and operating system installations. CNC functions on a 24x7 basis 365 days without any holidays.

## **8.2 WORKSHOPS**

### **CENTRAL WORKSHOP - FACILITIES AND WORKS UNDERTAKEN**

The Central Workshop under the Department of Mechanical Engineering forms a central facility and it caters to the requirements of all departments. The facilities in Central Workshop are effectively utilized for the conduct of practical class for the students of all first year

undergraduate programmes. The primary motive is to impart them with the basic ideas of manufacturing. For the UG students of Mechanical Engineering and Production Engineering programmes, advanced training in various skills during the higher semesters builds up their confidence in practical fields of design and manufacturing. Workshop facilities are extended for carrying out UG/PG project works, research works requiring fabrication, assembly & testing, and consultancy related works from various departments. Apart from the regular practical classes, Institute-wide requirements involving fabrication are carried out in central workshop with the help of experienced technical staff of the workshop. This centre has ample facilities to undertake consultancy and fabrication works in all manufacturing fields. The Workshop is divided into seven sections such as:

1. Machine Shop
2. Carpentry Section
3. Welding Section
4. Fitting Section
5. Sheet Metal Section
6. Black Smithy
7. Foundry

### 8.3 EDUCATIONAL TECHNOLOGY & LIBRARY

Educational Technology & Library (ETL) presently comprises Central Library and Digital Library. Both the Library & Digital Library are working from 9 am to 12 pm on all days except Sundays and Public Holidays.

**8.3.1 CENTRAL LIBRARY** offers its services to more than 8,350 users comprising undergraduate, postgraduate students, research scholars, faculty and employees from various Departments of the Institute/ Centres/ Sections. The Library uses open source software KOHA for its operations. Collection is fully RFID tagged and offers Web OPAC service throughout the internet.

#### Current Print Holdings: -

##### a. Print Books

SL. NO.	CATEGORY	BOOKS AT THE END OF THE YEAR 2020-21	BOOKS ADDED DURING THE YEAR 2021-22	TOTAL BOOKS AS ON 31 <sup>ST</sup> MARCH 2022
1.	General books	1,07,589	1,035	1,08,624
2.	Special section books for SC/ST	16,410	23	16,433
3.	Reference books	8,179	13	8,192
<b>Total</b>		<b>1,32,178</b>	<b>1,071</b>	<b>1,33,249</b>

**b. Online Journals/Print Journals / Magazines/ Dailies**

Sl. No.	Category	Online & Print Journals / Magazines / Dailies during the year 2020-21	Online & Print Journals / Magazines / Dailies during the year 2021-22	Online & Print Journals / Magazines / Dailies as on 31 <sup>st</sup> March 2022
1	National journals/Dailies/Weekly	25	23	23
2.	International Online Journals	4,457	4,975	4,975
	<b>Total</b>	<b>4482</b>	<b>5000</b>	<b>5000</b>

**8.3.2 Digital Library ( [www.library.nitc.ac.in](http://www.library.nitc.ac.in) )**

The Digital Library - NALANDA- serves members of the campus in meeting their academic & research needs by providing timely and up-to-date information with value added services in all the areas of Science/Engineering/Technology. Apart from the Digital Library Reading Room, members can access Nalanda from the entire campus.

Other services:

- Web-OPAC: Allowing access from inside as well as outside the campus
- DSpace: For the project / thesis reports of NITC students an ETD server (electronic theses and dissertations) maintained using Dspace (an open-source institutional repository package) has been initiated. All abstracts are visible for everyone within NITC and privileged access is given to the full contents. International standards (BIS and ASTM) could also be accessed from this server; access being restricted to NITC intranet.
- NPTEL (National Program on Technology Enhanced Learning): A local copy of all NPTEL course materials (provided by IIT Madras, already available in public domain) which could be accessed from within the Digital Library.
- Turnitin - online plagiarism checker for the use of researchers of the institute.
- Grammarly - An online grammar checking, spell checking, and plagiarism detection platform for the English language developed by Grammarly. Premium Account facility for all students, faculty.
- Eduserver: An educational server on the open source moodle platform is customized for the faculty of all departments to run their courses. This server will be accessible outside NITC too. This will provide a facility for faculty to offer common and additional online topics/subjects as part of the curriculum including on-line tutorials, evaluation and simulation etc.
- VuFind: E-Book Search Facility
- E4TP -English for technical Professionals Online course by **IEEE** enables professional engineers, and technical professionals whose first language is not English to improve their language
- CAS Scifinder-Chemical Abstracts Service is a division of the American Chemical Society. It is a source of chemical information.

☐ **EDUSERVER**

This will provide facilities for faculty to offer common and additional online topics/subjects as the part of the curriculum including on-line tutorials, evaluation and simulation etc.

**KNIMBUS**

A Complete Digital Library Platform for Personalized Learning and Research. Remote access to all the eResources on any device is a personalized and convenient experience for users.



Knimbus integrates our institute subscriptions, open access content, library holdings, academic and skill- oriented courses on an "easy-to-find" platform empowering libraries and classroom teaching.

### 8.3.3 E-Source Subscription

Category	Total as on March 2022	Total as on 31 <sup>st</sup> March 2023
Online e-Journals (through ESS consortia)	2,144	2,144
E-books	4,827	5,844
E-Journals	2,313	2,831
Databases/Software/Standards	16	16
NITC Resources (PG, UG and PHD Students thesis)	7,207	8,553
<b>Total</b>	<b>16,507</b>	<b>19,388</b>
Journal Back Vol.s	14,411	14,411
<b>Grand Total</b>	<b>30,918</b>	<b>33,799</b>

### Major Hardware / Facilities of Digital Library

3 Dell Precision T3610 Workstations 1 Dell Poweredge T620 Server  
 3 Dell Poweredge T320 Server  
 36 Dell Optiplex 7010 Client Machines 14 HP AIO Client machines  
 18 RDP AIO Client machines  
 2 Optiplex 5270 Client machines  
 2 HP ProOne 400 Client Machines  
 16 IP Camera, Network video recorder, 28 port Dlink switch 2 Canon MF 244DW Printer  
  
 2 Epson printer M2120  
 2 Datamax Barcode Printer  
 30 KVA Socomec MASBC UPS 5 Cisco SRS 2024 switches  
 2 WiFi Router

### 8.3.4 Programmes Organized by ETL 2020-2021

- Grammarly Training Webinar on 15-06-2022
- Training session for E4TP on 05-05-2022

### Staff Position

Chairman (ETL) : Dr. Parameswaran P.  
 Vice Chairperson (ETL) : Dr. Pournami P. N.

Shri. Ashok Kumar Dev	Officer-in-Charge
Smt. J. Sobhana	Librarian Gr IV (Librarian in-charge, Rtd on 31.05.2022)
Shri. T. Jayarajan	Asst. Librarian (Librarian in-charge, Rtd on 31.05.2023)
Shri. K. P. Shaju	Technical Assistant (Supervisor-in-charge)
Shri. K. Jayaraman	Technical Assistant SG I
Shri. M. K. Chandramohan	Graphic Artist (Rtd on 29.07.2022)

## Supporting office staff

Shri. Vinod K. P.	Office Attendant SG II
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Project Digital Library Technical Assistant	: 5
Project Digital Library Computer Assistant	: 5 (1 Post vacant) Adhoc Library
Assistant	: 22 (1 Post vacant)
Adhoc Library Helper	: 11 (2 Post vacant)

## 8.4 LABORATORIES

### DEPARTMENT OF ARCHITECTURE & PLANNING

- Interactive Media Design Lab
- Geo-Informatics Lab
- Material Testing Lab
- Building Science Lab
- CAD Lab
- Creative Arts Lab
- Materials Museum

### DEPARTMENT OF CHEMICAL ENGINEERING

- Chemical analysis laboratory
- Fluid mechanics laboratory
- Heat transfer laboratory
- Mechanical operations laboratory
- Mass transfer laboratory
- Chemical reaction engineering lab
- Process dynamic and control lab
- Instrumentation lab
- Computer lab

### DEPARTMENT OF CHEMISTRY

Services and consultancy related to NMR, IR, Uv-Vis., DSC, TGA, UTM testing

### DEPARTMENT OF CIVIL ENGINEERING

- Strength of Materials Laboratory
- Structural Engineering Laboratory
- Concrete Laboratory
- Surveying Laboratory
- Geotechnical Engineering Laboratory
- Environmental Engineering Laboratory
- Transportation Engineering Laboratory
- Pavement Engineering Laboratory
- CAD Laboratory

- PG Computing Laboratories
- Water Resources Engineering Laboratory
- Offshore Structures Laboratory
- Geology Laboratory

## **DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

- Software Systems Laboratory
- Network Systems Laboratory
- Hardware & Embedded Systems Laboratory
- Big Data and Biocomputing Laboratory
- Cloud Computing Laboratory
- Machine Learning Laboratory
- Image Processing and Multimedia Laboratory
- Image Processing and Multimedia laboratory
- Secure Computing Laboratory

## **DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

- Electronics Circuits Lab
- Communication Lab
- Integrated Circuits Lab
- Digital Signal Processing Lab
- Embedded Systems Lab
- Electronics Workshop
- Microelectronics and VLSI Lab
- Telecommunication Lab
- Research Lab I & II
- Signal Processing and Communication (SPCom) Lab
- R& D Lab
- Project Lab
- PSoC Lab

## **DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

### **UG Laboratories**

1. Electrical Workshop
2. Electronics Workshop
3. Electronics Laboratory
4. Electrical Measurements Laboratory
5. Electrical Machines Laboratory
6. Control Systems Laboratory
7. UG Power Electronics Laboratory PG/Research Laboratories

8. Electrical Simulation Laboratory
9. Power Systems Laboratory
10. Power Electronics Laboratory
11. DCS Applications Laboratory
12. Process Automation Laboratory
13. Embedded Systems Applications Laboratory
14. Power Electronics Research Laboratory
15. Advanced Control Systems Laboratory
16. Power Systems & Power electronics Real-Time Simulation Laboratory
17. High Voltage Engineering Laboratory
18. Bio-Signal Processing Laboratory
19. Non-destructive testing Laboratory
20. Instrumentation Systems Laboratory
21. Centre for Testing and Consultancy

#### **Sponsored Research Laboratories**

1. LVDC Microgrid Laboratory (CDAC)
2. Distributed Energy Research Laboratory (DST-FIST)
3. Industrial Drives Laboratory

### **DEPARTMENT OF MECHANICAL ENGINEERING**

#### **Laboratories under Department of Mechanical Engineering associated with the Curriculum**

- Central Workshop
- Fluid Mechanics Laboratory
- Fluid Machinery Laboratory
- Heat Engines Laboratory
- CAD/CAM Centre
- Metrology Laboratory
- Production Engineering Laboratory
- Industrial Engineering Laboratory
- Heat Transfer Laboratory

#### **Other Laboratories under Department of Mechanical Engineering associated with Research/Consultancy/Testing**

- Advanced Manufacturing Centre
- Centre for Precision Measurements & Nano-mechanical Testing
- Sophisticated Instruments Centre
- Materials Science Laboratory

- Mechatronics / Robotics Laboratory
- Supply Chain and Systems Simulation Laboratory
- Tribology and Vibration Laboratory
- Solar Energy Centre
- Thermal Science Laboratory
- Centre for Advanced Studies in Cryogenics
- Fuel Cell Laboratory
- Green Energy Laboratory
- Design Innovation Centre
- Jets and Flow Acoustics Lab
- Combustion Lab

#### **DEPARTMENT OF PHYSICS**

- First Year B. Tech Lab
- Computer Lab
- Electronics Lab
- Optics Lab
- Solid State Physics Lab
- Wet chemistry lab
- General Physics Lab
- Laboratory for Molecular Photonics and Electronics
- Applied Optics and Instrumentation Lab
- Organic and Nano Electronics Lab
- Laser and Nonlinear Optics Lab
- Critical Point Phenomena and Polymer Dynamic lab
- Computational Material Science Lab
- Photonic Materials and Devices Lab

#### **SCHOOL OF BIOTECHNOLOGY**

- Biochemistry Laboratory
- Microbiology Laboratory
- Bioprocess Laboratory
- Molecular Biology Laboratory
- Immunology Laboratory
- Bioinformatics Laboratory

- Plant Biotechnology and Enzyme Kinetics Laboratory
- Downstream Processing Laboratory

## **SCHOOL OF MATERIALS SCIENCE AND ENGINEERING**

- Microscopy centre, SMSE

### **8.5 HOSPITAL**

Institute has a Health Care providing the medical needs of students, staff and their families. Following are the staff details:

1. Dr. Celine A. A. - RMO
2. Dr. Balasubramanyan - (Physician Visiting Doctor)
3. Dr. Akhil Raj M. P. - RMO (Adhoc)
4. Dr. Midhun A. R. - RMO (Adhoc)
5. Dr. Anju B. Nair - RMO (Adhoc) (Covid Help Desk)
6. Faculty in Charge: Dr. Vineesh Ravi

Adhoc Staff

- a. Staff Nurse - 2+2 (Covid Helpdesk)
- b. Lab-Technician - 1

NITC Health Centre has been actively working with student community proactively to improve the welfare of NITC. NITC Health Centre is equipped with AED (Automated external Defibrillator) to handle cardiac arrest emergency and provide 24 X 7 Ambulance support for any emergencies. NITC Health Centre is also equipped with a Laboratory facility and in patient facility and caters to students, faculty, staff and their families.

This annual year was quite challenging for NITC Health Centre due to COVID. NITC Health Centre worked actively during COVID times to ensure that spread of COVID was contained in the campus by formulating the policies needed for smooth run. The doctors conducted screening for employees and students so that they can work in the department. Health Centre also coordinated with the local authorities to ensure the all necessary precaution was taken for the smooth functioning of the institute. The isolation and quarantine facility within the campus was coordinated by the COVID Helpdesk. In association with MVR Cancer center 3 vaccination drive was conducted which benefitted faculty, staff and student community.

### **Bank, Post Office and Telephone Exchange**

There is a branch of State Bank of India, an India Post Office, Telegraph Office and a BSNL Telephone exchange functioning in the Institute Campus

### **SHOPPING CENTRE**

There is also a shopping centre run by the co-operative society of the employees of the institute staff functioning in the Campus.

## 8.6 STUDENTS GUIDANCE CELL

Student Guidance Cell (SGC) aims to provide guidance and counselling services to students based on their needs with assured privacy and confidential exchange of communication. SGC also provides academic support in the form of special classes for students. The formation of SGC was based on the feedback from graduated students of the institute who stressed on the need to have a facility to counsel and motivate the students. SGC helps the students to function better in all domains of life - academic, social, personal and psychological.

The motive behind SGC stems from the need to facilitate the process of growth and maintain a positive well being of the students. The counselling services offered by SGC empowers the students to have enhanced ability to solve problems, make decisions as well as make them more efficient in tackling personal problems. In a nutshell, it is aimed at enhancing their ability to utilise the best potential available in them.

The SGC avails the help of two trained clinical psychologists who are available in the institute.

## 8.7 TECHNOLOGY BUSINESS INCUBATOR

National Institute of Technology Calicut has set up a Technology Business Incubator (TBI-NITC) in 2003-04 with the support of National Science & Technology Entrepreneurship Development Board (NSTEDB) Department of Science and Technology, Govt. of India to incubate startup industries in IT and Electronics. TBI is registered as a society under the society's registration Act XXI of 1860 on 16<sup>th</sup> Sep 2009. The following table shows what TBI is so far:

1	Total number of units in Technology Business Incubator	23
2	Number of units joined during 2022– 2023	13
3	Number of units graduated from TBI during 2022– 2023	15
4	Number of units preparing to graduate	1
5	Total number of units so far assisted by TBI	101
6	Total number of employees in the incubated companies	1150

### Programmes conducted by TBI

- Ente Keralam exhibition conducted during 19<sup>th</sup> -26<sup>th</sup> Apr 2022
- Mentoring workshop on INSPIRE AWARDS – MANAK (Million Minds Augmenting National Aspirations and Knowledge conducted during 26<sup>th</sup> -27<sup>th</sup> May 2022
- Entrepreneurship Awareness Camp III 2019-20 conducted during August 2022
- AESDP – PREFAB CONSTRUCTION TECHNOLOGIES conducted during 01 Feb 2023 to 06<sup>th</sup> Feb 2023
- AESDP – BIOCOMPOSITES FROM RUBBER AND PLASTICS conducted during 06<sup>th</sup> Feb 2023 to 12<sup>th</sup> Feb 2023
- AESDP – ADVANCED MATERIAL FOR AFFORDABLE HEALTH CARE conducted during 20<sup>th</sup> Feb 2023 to 25<sup>th</sup> Feb 2023

- AESDP –LANDSCAPE AND INTERIOR DESIGN conducted during 20<sup>th</sup> Feb 2023 to 25<sup>th</sup> Feb 2023
- AESDP – HOTEL MANAGEMENT AND HOUSE KEEPING conducted during 27<sup>th</sup> Feb 2023 to 05<sup>th</sup> Mar 2023
- AESDP – ELECTRIC VEHICLE TECHNOLOGIES conducted during 27<sup>th</sup> Feb 2023 to 05<sup>th</sup> Mar 2023
- AESDP – PROCESS DESIGN AND DEVELOPMENT FOR INDUSTRIAL APPLICATIONS conducted during 06<sup>th</sup> Mar 2023 to 11<sup>th</sup> Mar 2023
- AESDP – ARTIFICIAL INTELLIGENCE conducted during 13<sup>th</sup> Mar 2023 to 18<sup>th</sup> Mar 2023
- AESDP – INDUSTRIAL 3D PRINTING conducted during 20<sup>th</sup> Mar 2023 to 25<sup>th</sup> Mar 2023

Student Entrepreneurship Initiatives supported by TBI NITC

TBI NITC has been supporting students in terms of technical & business mentorships, acted as an intermediary in connecting the students with industry experts in diverse domains along with other initiatives like arranging talks including both the technical as well as the business aspects. During 2020-21, the activities under student entrepreneurship were coordinated under the Institute Innovation Council (IIC) which is under the guidance of Ministry's (MoE) Innovation Council. At National Institute of Technology, Calicut, IIC serve as a key platform for fostering innovation and entrepreneurship among students. IIC stands for nurturing the creative and innovative ideas of students and help them transform these ideas into feasible products and services. IIC acts as the first launch pad for a student's entrepreneurial journey and provides them with access to cutting-edge technology, world-class infrastructure, high-quality mentorship, early risk capital and global exposure.

Talk On Student Entrepreneurship and TBI Operations to a group of Students	25 <sup>th</sup> April 2020
A Session On Facilities and Opportunities Provided at TBI NIT Calicut	27 <sup>th</sup> Oct 2020
Session on identifying Intellectual Property component at the early stage of Innovation	04 <sup>th</sup> Nov 2020
Panel Discussion on Factors affecting Innovation in India and how to overcome them	29 <sup>th</sup> Nov 2020
A session on how to go about with idea evaluation for the Faculty and Industry Experts	02 <sup>nd</sup> Dec 2020
Shaping Your Innovative Ideas	07 <sup>th</sup> Dec 2020
Session on Problem Solving and Ideation Workshop	13 <sup>th</sup> Dec 2020
My Story - Motivational Session by Successful Innovators	20 <sup>th</sup> Dec 2020
Orientation Session on National Education Policy (with a focus on Innovation and entrepreneurship)	24 <sup>th</sup> Dec 2020
Orientation Session on National Innovation and Startup Policy (NISIP)	26 <sup>th</sup> Dec 2020



Workshop on “Entrepreneurship and Innovation as Career Opportunity”	21 <sup>st</sup> Jan 2021
Session on Startup Pitfalls: A Technology First Approach - A Lean Canvas Model	25 <sup>th</sup> March 2021
An Orientation Session on Innovation and Entrepreneurship - An Orientation Session by the Innovation Ambassadors who received their trainings from the Ministry of Education's Innovation Cell	31 <sup>st</sup> March 2021
Formation of Innovation Club	30 <sup>th</sup> Mar 2021

### **NATIONAL INITIATIVE FOR DEVELOPING AND HARNESSING INNOVATIONS (NIDHI) PROMOTING AND ACCELERATING YOUNG AND ASPIRING INNOVATORS & STARTUPS (PRAYAS)**

NIDHI PRAYAS is a scheme for addressing the gap in the very early stage idea/proof of concept funding. The funding is given as grant for the selected ideas. The selected innovators would get access to the infrastructure, prototype grant and mentorship. TBI has got approval for a total project cost of Rs.700 Lakhs from the Project Management Unit of PRAYAS for hosting a PRAYAS Centre at NIT Calicut under the NIDHI PRAYAS Scheme of Department of Science and Technology. Out of Rs.700 lakhs, Rs. 100 Lakhs are for Capital for setting up Fab Lab, Rs.500 Lakhs for providing prototype grant to innovator over 5 years. Rs. 20 Lakhs per year for five years can be spent for annual operations, management of Fab lab. TBI inducted the first group of 8 innovators under NIDHI PRAYAS in November 2019. Later in May 2020 four more innovators were added to this group. Eight innovators are selected in Jul 2021 and 5 more innovators are selected in Jan 2022 for the second-year beneficiaries of the scheme. Eight innovators are selected in Jul 2022

### **SFURTI**

Technology Business Incubator is the Implementing Agency (IA), for the development of Balussery Coir Cluster, under the SFURTI scheme. Coir Board is the Nodal Agency (NA) and Entrepreneurship Development Institute of India (EDI) is the Technical Agency (TA) for this project. Total project cost is 130 lakhs. There are two components in the project – Soft intervention and Hard Intervention. Activities listed under soft intervention is over and a facility measuring 3000 square feet with state-of-the-art machinery is constructed. The production work has been started in this facility. Shri. Nitin Gadkari, Minister of MSME had inaugurated Balussery Coir Cluster Development Society on 22 Feb 2021 through online platform.

ASM Training Programme conducted during 31 Jul 2021 to 06 Aug 2021

### **8.8 CENTRE FOR STUDENT ACTIVITIES AND SPORTS**

NIT Calicut participated in almost all the All India Inter NIT Competitions which were conducted in various NIT's.

Below mentioned are the details of events NIT Calicut appeared for the All India Inter NIT Sports Competitions conducted during the year 2022-23

SL. No	Host	Games	Appeared by NIT Calicut	Positions achieved by NIT Calicut	Individual Prizes achieved by NIT Calicut
1	MNIT Jaipur	Athletics (M&W) Basketball (M&W) Lawn Tennis (M&W)	Athletics (M&W) Basketball (M&W)	Runners - Athletics (M)	<b>Athletics</b> <u>GOLD:</u> 1. <b>Long Jump</b> (Irshad Ibrahim - B190293PE) <u>SILVER:</u> 1. <b>400m</b> (Adil K. - B200215EE) 2. <b>High Jump</b> (Karthik B. - B200718CS) 3. <b>Triple Jump</b> (Athira Suresh - B200545CE) <u>BRONZE:</u> 1. <b>Shot Put</b> (Ali Faisal - B210426CE) 2. <b>Discus Throw</b> (Ali Faisal - B210426CE) 3. <b>Triple Jump</b> (Ananthakrishnan M. - B200712CS) 4. <b>Triple Jump</b> (Sandrima G. - B191178ME) 5. <b>4*100m Relay Men</b> (Irshad Ibrahim - B190293PE, Anooj Anil P. - B200429CH, Adil K. - B200215EE, Ananthakrishnan M. - B200712CS) 5. <b>4*100m Relay Women</b> (Mathushika Murugiah - B201309CE, G. Sandrima - B191178ME, Athira Suresh - B200545CE, Shreyasi Saha - B210553CS)
2	NIT Silchar	Table Tennis (M&W) Chess (M&W) Badminton (M&W)	Table Tennis (M&W) Chess (M&W) Badminton (M&W)	2nd Runners - Table Tennis (W)	<b>Chess</b> <u>GOLD</u> - Aparna Prasad - B200518CE
3	NIT Calicut	Hockey (M) Handball (M&W)	Hockey (M) Handball (M&W)	Runners - Hockey (M)	-

				Runners - Handball (M&W) Winners - Handball (M&W)	
4	NITK Surathkal	Kadaddi (M&W) Yoga (M&W) Volleyball (M&W)	Kadaddi (M&W) Yoga (M&W) Volleyball (M&W)	2 <sup>nd</sup> Runners - Yoga (M) 2 <sup>nd</sup> Runners - Yoga (W) Runners - Volleyball (M)	<b>Volleyball</b> <b>Best Allrounder</b> (Choppara Avinash - M220215CE)
5	NIT Rourkela	Football (M) Kho-Kho (M&W) Swimming (M&W)	Football (M) Kho-Kho (M&W) Swimming (M&W)	Individual metals in Swimming	<b>Swimming</b> <u>GOLD:</u> 1. <b>100 m Freestyle</b> (Sujay Deepilli - B190472PE) 2. <b>50 m Freestyle</b> (Sujay Deepilli - B190472PE) <u>SILVER:</u> 1. <b>400 m Freestyle</b> (Sarah Elizabeth Paul - B220079CS) <u>BRONZE:</u> 1. <b>50 m Butterfly</b> (Sujay Deepilli - B190472PE) 2. <b>200 m Freestyle</b> (Sarah Elizabeth Paul - B220079CS) 3. <b>200 m Freestyle</b> (Zackariya Prakash - B210793EE) 4. <b>4*50 m Relay Men</b> (Sujay Deepilli - B190472PE, Zackariya Prakash - B210793EE, Krithik B. K. - B191172AR, Reuben Shibu - B221155CH)
6	NIT Surat	Powersports (M) Cricket (M)	PowerSports (M) Cricket (M)	1st Runners - PowerSports (M)	<b>Power Sports</b> <u>BODY BUILDING</u> <u>GOLD</u> Under 65 categories (Lijith P. T.) <u>SILVER</u> Under 74 categories (Jadpod Pradeep Kumar - B191161EC) <u>BRONZE</u>

					Under 60 categories (Akhileesh K. S.) <u>POWERLIFTING</u> <u>GOLD</u> 90 + Weight category (Nongmathem Sagar Singh)
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## 8.9 THEMATIC CENTRES

### 8.9.1 Advanced Manufacturing Centre

Advanced Manufacturing Centre set up in the Department of Mechanical Engineering is one of the finest facilities available in manufacturing. Major equipment available include the following:

- Five axis CNC Coordinate Measuring Machine
- Three axis Integrated Multipurpose Micro-Machining Centre
- Four axis CNC Machining Centre
- Rapid Prototyping Machine/ 3D Printers
- CNC turning centres
- CNC Surface Roughness Tester
- Six component and Mini Cutting Tool Dynamometers.

The fully-fledged CAD/CAM Centre opens round the clock conducts free training programmes to NITC students. Popular CAD/CAM software available includes: SOLIDWORKS, Creo, CATIA, Siemens NX, MSC Adams, Mastercam, Ansys, and Abaqus. Further details are available at <http://www.amc.nitc.ac.in/>

### 8.9.2 Biomechanics

The Centre for Biomechanics, inaugurated on 10<sup>th</sup> September, 1998, is a unique centre in which active and useful academic interactions take place between doctors and engineers. Such centres, although essential for the benefit of society, unfortunately is not common in our country. R & D work of an interdisciplinary nature is carried out here, with Faculty drawn from various departments of this Institute and Adjunct Faculty from other institutions.

### 8.9.3 Centre for Computational Modelling and Simulation

Centre for Computational Modelling and Simulation (CCMS) aims to promote and support computational modelling as a mainstream research activity amongst the faculty and researchers of NIT Calicut. A High-Performance Computing (HPC) Cluster and NVIDIA DGX Station purchased under HEFA are the major computing facility under this centre. The facility consists of 31 CPU nodes and 2 GPU nodes. The NVIDIA DGX Station has four V100 GPU accelerators. The facility is mainly for developing and running parallel codes for research purposes. The HPC system installed has been ranked as the 38<sup>th</sup> in the list of top 100 computing machines in India, in January 2021, a list maintained by CDAC, Bangalore (<https://topsc.cdacb.in/topsc.php/filterdetails?slug=January2021>)

#### Faculty in Charge:

Dr. Parameswaran Pattiyil

### 8.9.4 Centre for Materials Characterization

The Centre for Materials Characterization (CMC) to host highly sophisticated testing, characterization and analysing facility to boost up the cutting-edge research in Material Engineering, Chemistry, Nanotechnology and allied areas.

The facilities are open to NIT community and other academic institutes, industries and R&D labs.

### **CMC - Facilities**

• Powder X-ray diffractometer

#### **Faculty in Charge:**

Dr. Lakshmi. C

#### **FACILITIES & SERVICES**

- Confocal Raman Spectrometer
- Nuclear Magnetic Resonance Spectrometer
- Powder X-ray Diffractometer

### **8.9.5 Centre for Scanning Microscopy**

Microscopic Centre established in 2009 and managed with School of Nano Science and Technology. Centre is equipped with advanced microscopic equipment's like Scanning Electron Microscope (SEM) and Scanning Probe microscope (SPM). Centre is actively contributing to the research and consultancy of the institute.

Centre is equipped with Hitachi make SU 6600 Variable Pressure Field Scanning Electron Microscope having Secondary Electron Imaging (SE), Backscattered Electron Imaging (BSE) and Energy dispersive spectroscopy (Horiba EMAX.137 ev) for elemental analysis. Scanning probe microscopy includes a Park XE-100 Atomic Force Microscope (AFM) having capability of performing various analysis like Electrostatic microscopy, Magnetic force microscopy, Lateral Force microscopy, Conductive AFM, Nanolithography, Nanoindentation etc. Centre is analyzing variety of samples from different department of the institute as well as the facility is open for consultancy service. Different academic, Industrial and R&D organizations from all over the country was using the facility under consultancy basis. Centre is always promoting the industry, R&D interactions with our institute

#### **Faculty in Charge:**

Dr. Soney Varghese

#### **FACILITIES & SERVICES**

- Scanning Electron Microscopy Centre
- Scanning Probe Microscopy Centre

### **8.9.6 Sophisticated Instruments Centre**

The Sophisticated Instrument Centre uses state-of-the art technology in measurements and metrology and has facilities for carrying out the measurements of industrial products. Most of the instruments like CNC Coordinate Measuring Machine (CMM), CNC surface roughness tester and measuring software have been imported from Japan with the financial assistance of the Ministry of Human Resources Development, Govt. of India. It aims to enable small industrialist to obtain certification of quality for their products at a reasonable cost. This centre also offers various training, testing and consultancy services to industries and academic institutions.

The DST- FIST Centre for Precision Measurements and Nanomechanical Testing is one of the latest additions set up at the cost of **Rs 2.51 Crores** under the FIST scheme. This centre has sophisticated facilities like 3D Profilometer, Nanoindenter, High Speed Camera, Thermal imager, etc. to help the research in design and manufacturing.

### **8.9.7 Centre for Transportation Research**

The Centre for Transportation Research (CTR) is a Centre of Excellence funded by the Ministry of Human Resources Development, under the scheme ‘Establishment of 50 Centres of Excellence in frontier areas of Science and Technology’, in the year 2013.

The objectives of the Centre are to

- undertake research in various aspects of transportation and develop solutions that lead to sustainable transportation,
- create a pool of quality conscious and qualified transportation engineers sensitive to societal requirements,
- enhance the skills and knowledge of working transportation professionals and
- bring awareness among public for their active and informed participation.

#### **Faculty in Charge:**

Dr. M. V. L. R. Anjaneyulu

#### **FACILITIES & SERVICES**

- Equipments
- Computational Facilities

### **8.10 MULTIDISCIPLINARY CENTRES**

#### **8.10.1 Centre for Career Development**

National Institute of Technology Calicut (NITC) is one of the premier technical institutes in the country (NIRF 2021 Rank: Engineering stream - 25, Architecture stream - 03; ARIIA Rank: 09). The motto of NIT Calicut is “International standing of the highest calibre”. Our mission is to develop high quality technical education and personnel with a sound footing on basic engineering principles, technical and managerial skills, innovative research capabilities and exemplary professional conduct to lead and to use technology for the progress of mankind, adapting themselves to changing technological environment with the highest ethical values as the inner strength.

The Centre for Career Development was formed in 1988, with an aim to interact with the corporate for possible employment to the students graduating from the Institute. The Centre for Career Development also explores the possibilities for summer training and internship for the students of the Institute. National Institute of Technology Calicut has maintained a good placement record over the years. The graduates and post graduates of NITC have been selected by some of the world’s leading business corporations. The highly dedicated faculty, coupled with world class infrastructure facilities, prepares the meritorious students to take up the challenges of the rapidly growing globalised techno-economic scenario in the country

#### **Vision**

Inculcate a career-oriented campus culture that moulds the undergraduate, postgraduate and doctoral research students of the Institute to pursue their academic and professional goals

#### **Mission**

- Liaison with talent acquisition teams of industries, consultant firms and research organisations for placement and internship opportunities.
- Collaborate with alumni to facilitate exploration of career options for students.

- Enhance the skill sets of students through training programmes so as to make them career-ready.

#### **Chairperson**

**Dr. Praveen Sankaran**

#### **Vice Chairpersons**

**Dr. Deepthi Bendi**

**Dr. Prateek Negi**

**Dr. Vijayaraj K.**

### **8.10.2 Centre for Cultural and Art Relations**

It goes without saying that creativity and innovation are indispensable qualities in the engineering field. Even though engineering students are introduced to the engineering design process, this does not necessarily translate into the development of creative ability that can be applied more broadly. Introducing performing arts such as dance, music, drawing, painting, and drama as an integral part of engineering curriculum and encouraging students to learn may help to develop and train engineers to be creative. Furthermore, practicing performing arts may improve engineers' discipline, dedication, focus, and confidence. The ability to innovate and communicate, which can be developed through music and the arts, is what leads to scientific excellence. Indeed, ancient Indian universities like Takshashila, Vallabhi, Vikramshila, and Nalanda used holistic approaches in education system, combining arts, communication, vocational skills with science and medicine.

Hobbies are an excellent way to deal with mental health issues, and significantly improve the overall fitness and well-being. Engineers are hard workers, so taking up a new hobby in the form of arts, dance, music, or drama may be just what they need to relieve stress. Furthermore, hobbies are one of the defining factors that employers now use to determine personality type because they indicate a well-rounded nature of a candidate. As a result, learning performing arts not only improves the overall fitness and well-being but also increases employability.

Following the new National Education Policy (NEP) 2020, the emphasis on multidisciplinary learning, as well as the need to nurture creative disciplines such as classical and folk arts in technical institutes, has become imperative. Engineers benefit from creative fields such as performing arts because they help them think from a broader perspective and boost their confidence.

The Centre for Cultural and Art Relations (CCAR) was established with the primary goal of making engineering education more multidisciplinary and improving students' learning experiences through the incorporation of fine and performing arts into the curriculum, both of which are clearly aligned with the NEP2020 vision statements. The centre aims to provide holistic education with innovation and style by combining arts and engineering, which may give our young minds a new way of seeing, perceiving, and interacting with their world, leaving an indelible impression on their senses. It aspires to be a hub of art in practice and discourse within NITC. Public event programmes, workshops, research, and pedagogy are all expected to help build a community of artistic-engineers interested in the intersections of art, culture, and technology. The centre strives to collaborate with cultural and artistic talents at the regional, national, and international levels in order to build bridges with the community in novel and exciting ways.

#### **Chairperson**

**Dr. Rajanikant G. K.**

## **Vision**

- Encourage young minds to appreciate and learn traditional performing and creative arts forms in order to develop concentration, coordination, confidence, and creativity, all of which are enablers for excellence in science and engineering.
- The center strives to create a holistic educational system by integrating Indian and Foreign fine and performing arts into engineering curricula.
- The center serves as a platform for collaboration between the arts and engineering fields through a series of courses that will generate new educational opportunities and encourage creative teamwork among engineering and art students, faculty, staff, as well as visiting artists and scholars.
- The center's goal is to blur the boundaries between disciplines and give students the freedom to exercise their choice and pursue their hobbies and dreams without sacrificing academic careers.

## **Mission**

- The center provides micro-credit courses in areas connecting music, fine arts and technology apart from lectures and workshops.
- To equip students with the creative and intellectual tools necessary for success in the engineering and science.
- To instill in students, the importance of valuing, comprehending, and questioning traditional concepts.
- To provide world-class and multicultural arts experiences for both students and community members.
- To develop a programme that encourages and supports collaborations between artists and engineers to stimulate creative teamwork and promote research and innovation.
- Additionally, the center encourages enrolment from participants from all over the world who are interested in learning about the unique aspects of Indian culture, music, and fine arts.
- Assist in the advancement of scientific research and innovation by combining engineering technologies (AI and ML) with creative and performing arts.

## **The events of CCAR**

- An evening of Indian Carnatic music-VEena concert by Smt. Anuradha Mahesh on 1 April 6:00 pm to 7:30 pm
- Swaraa Classical Music programme by Indian Cultural Association on 1<sup>st</sup> April from 7:30 pm to 9:00 pm
- Nadayoga -A musical experience towards wellness by Smt. Anuradha Mahesh on 2<sup>nd</sup> April 2022 from 10:00 am to 11:50 am
- CCAR in association with Spic Macay NITC Rudra Veena Concert by UStad Mohi Bahauddeen Din Dagar on 16 August 2022.
- Violin Duo by Edappally Ajith Kumar and Krishna Ajith on the Institute Foundation DAY on 01/09/2022
- CCAR in association with Spic Macay NITC Lecture demonstration-Carnatic vocal by Shri. Sreevalsan J Menon on 1<sup>st</sup> Nov 2022.



- CCAR in an association with SOMS Research Forum organised a lecture series on Cinematography and Film appreciation by Dr. Rajesh James, Award winning documentary filmmaker on 30<sup>th</sup> January 2023 at 1:30 pm.
- CCAR in association with I ink organised Tholpavakoothu by Harisree Kannan Tholpavakoothu Kalakendram on 10<sup>th</sup> March 2023 at 6:00 pm.
- CCAR initiated the Fresher's Day Event Aaravam 2022 to identify the extracurricular talents of first year students between 18<sup>th</sup> and 19<sup>th</sup> June 2022.
- A musical event named 'Symphony Night' was organized by CCAR on 18.06.2022 in which, renowned musician 'Joy Alleppey' presented different compositions in Saxophone and flute.

### **8.10.3 Centre for Holistic Teaching and Learning**

#### **Vision**

To facilitate a holistic approach for teaching and learning process

#### **Mission:**

To develop an ambience of comprehensive teaching and learning, through research and innovation

#### **Members:**

Dr. Raghu Chatanathodi (Chairman), Professor, Department of Physics

Dr. Jayadeep U. B., Associate Professor, Department of Mechanical Engineering

Dr. Chithra N. R., Associate Professor, Department of Civil Engineering

Dr. Subashini R, Associate Professor, Department of Computer Science and Engineering

Dr. Sanjay P. K., Associate Professor, Department of Mathematics

Dr. Raghu C. V., Assistant Professor, Department of Electronics and Communication Engineering

Dr. Deepak M., Assistant Professor, Department of Electrical and Electronics Engineering

Programs Conducted in 2022-23: Outcome Based Education (OBE) one-day workshop for newly recruited faculty, January 7, 2023. Prof. R. V. Ranganath and Prof. D. Seshachalam, from BMS Engineering College conducted sessions for newly recruited faculty of NIT Calicut to familiarize them with OBE concepts, writing course outcomes, evaluation etc.

### **8.10.4 Centre for Industry – Institution Relations**

Ongoing interaction between the Industry and Institute is an essential one. We, as an institution, put great emphasis on Industry-Institute Interaction activities. We put in every effort required to provide the industry with highly qualified and skilled fresh engineers. To strengthen the relationship between industry and our institute, the Center for Industry Institution Relations (CIIR) was established in the year 2022 and led by a leader with over 30+ years of R & D experience.

CIIR encourages industry experts to continuously partake in curriculum design and career development programs which play a significant role in honing the students' skill set towards the industry's expectations. Towards upscaling the academia in the Global knowledge index, ample industrial exposure is provided to the faculty members to enhance the Teaching Learning Process and enable the Institution to produce quality students. It provides an excellent platform for both the students and faculty members to be aware of industry expectations from the graduates. CIIR serves as a podium to highlight the best practices, the latest technologies from an industry standpoint, and their implementation.

## **Vision**

To enable NITC to produce industry ready graduates and relevant world class research addressing real problems.

## **Mission**

To improve the curriculum, research and teaching process in NITC by collaborating with industry and research institutes so as to produce engineering/science/management graduates who are industry ready and have leadership qualities and are willing to develop sustainable solutions for real/practical issues

## **Objectives**

- To establish a centre of excellence by industry/ corporate to provide real-time exposure to technologies, industrial training, campus recruitment opportunities, and internships
- To have a bonding between Industry – Institute relationships
- Visits of industry executives and practicing engineers to the Institute for seeing research work and laboratories, discussions, and delivering lectures on industrial practices, trends, and experiences.
- Joint Research Work and Consultancy by Faculty, Students, and Experts from Industries
- To Involve Students in Industrial Projects
- Workshops, conferences, and symposia with joint participation of the faculty, students, and the industries
- To enhance the student’s interest in entrepreneurship and business strategies
- To work as a platform to mold the students according to the requirements of the corporate world as well as Research & Development concern
- To Organize In-Plant Training for Students
- To assist the department to establish R & D Laboratories sponsored by industries
- To establish convergence with industrial and research organizations from various fields through MOUs as a form of interaction.

## **Chairman: Dr. Jose Mathew**

NIT Calicut has been involved in many activities connected with industry academia connect in terms of MoU, collaborative projects, workshops, etc.

During last one year, we have signed 24 MoUs with Govt. and private institutions like Medical Colleges and allied Institutions such as Govt. Medical College Kozhikode, Sree Chitra Institute of Medical Sciences (SCTIMST) Thiruvanthapuram, KMC, Manipal, etc.

### **Details of MoU signed during March 2022- May 2023**

<b>SL NO</b>	<b>NAME (S) OF THE INSTITUTE TO WHOM MOU WERE SIGNED</b>	<b>DATE OF SIGNING</b>
1	Govt. Medical College, Kozhikode	27 <sup>th</sup> April 2022
2	Oxford Brookes University, UK	28 <sup>th</sup> April 2022
3	Dr. Moopen’s Medical College Wayanad, Kearala	16th May 2022
4	MVR Cancer Centre & Research Institute, Kozhikode	17 <sup>th</sup> May 2022
5	M/s MiZone Incubator & Accelerator, Kannur, and Startup	24 <sup>th</sup> May 2022
6	M/s Tata Elxsi Ltd (TE), Bangalore	24 <sup>th</sup> May 2022

7	Kasturba Medical College, Mangalore	15 <sup>th</sup> June 2022
8	MSME, GoI, New Delhi	20 <sup>th</sup> June 2022
9	Chanakya University, Bengalure	19 <sup>th</sup> August 2022
10	C-MET, Thrissur	7 <sup>th</sup> September 2022
11	Umagine Hydrogen Pvt. Ltd, Ahmedabad	19 <sup>th</sup> September 2022
12	Quazat Technologies, New Delhi	20 <sup>th</sup> September 2022
13	IITDM Kurnool	27 <sup>th</sup> September 2022
14	KMCT Medical College, Kozhikode	09 <sup>th</sup> January 2023
15	KMCT Dental College, Kozhikode	09 <sup>th</sup> January 2023
16	CPRI Bengaluru	22 <sup>nd</sup> February 2023
17	SCTIMST Thriruvanathapuram	23 <sup>rd</sup> February 2023
18	ASAP, Govt of Kerala	6 <sup>th</sup> March 2023
19	INUP-i2i IISc Bengaluru	8 <sup>th</sup> May 2023
20	KMTC Govt of Kerala	23 <sup>rd</sup> May 2023
21	SCTIMST Thriruvanathapuram	31 <sup>st</sup> May 2023
22	CWRDM Govt of Kerala	23 <sup>rd</sup> May 2023
23	IIT Hyderabad	23 <sup>rd</sup> May 2023
24	KILA, Govt of Kerala	28 <sup>th</sup> May 2023

### Workshop conducted

<https://www.thehindu.com/news/cities/kozhikode/kmct-joins-hands-with-nit-calicut-to-boost-medical-technology-research/article66596117.ece>



# KMTC joins hands with NIT Calicut to boost medical technology research

130 delegates including heads of major hospitals, medical colleges, and about 50 doctors from Govt. Medical College Kozhikode took part in the event

March 08, 2023 08:07 pm | Updated 08:07 pm IST - KOZHIKODE

THE HINDU BUREAU

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NIT Calicut Director Prof. Prasad Krishna inaugurating the KMTC Connect Meet held at NIT -C on Tuesday. Dr. Navas K.M. (Chairman, KMCT Group of Institutions), C. Padmakumar (Special Officer, KMTC), Dr. E.V. Gopi (Principal, Govt. Medical College, Kozhikode), Dr. Gopakumar Kartha (Dean, Dr. Moopen's Medical College, Wayanad), and Dr. Narayanan Kutty Warriar (Medical Director, MVR Cancer Centre and Research Institute, Kozhikode) are also seen. | Photo Credit: Special Arrangement

## 8.10.5 Centre for Indian Knowledge Systems

In line with the National Education Policy 2020, NITC has established the Centre for Indian Knowledge Systems (CIKS, Bharatheeya Gyana Parampara Kendram) to promote education, training and research in traditional Indian Knowledge Systems (Science, Mathematics, Economics, Astronomy, Astrology).

### Vision

Intellectuals empowered with Indian Knowledge Systems to address technological challenges.

### Mision

Enable students, faculty and staff to engage in education and research on Indian Knowledge Systems for developing appropriate technologies/practices and products for sustainable growth.

### Chairperson

**Dr. R. Sridharan**

### Workshop Conducted

SL.NO	TITLE	COORDINATORS	DURATION & PERIOD
1.	Workshop on Introduction to Indian Knowledge Systems: concepts and applications	Dr. R. Sridharan	05-04-2022
2.	Workshop on Contribution of Kerala to the World of Mathematics	Dr. Ashish Awasthi	23-06-2022

3.	Workshop on Introduction to Indian Knowledge Systems	Dr. R. Sridharan	20-08-2022
4.	Workshop on Indian Philosophical Systems and Knowledge Framework	Dr. Jayachandran K.	27-08-2022
5.	Workshop on Linguistics	Dr. R. Sridharan	15-10-2022
6.	Relevance of Swami Vivekananda's Views for Self-Reliant Bharat	Dr. Devendra Kumar Yadav	12-01-2023
6.	Building World-class "Valuable" Start-ups and Companies in India: Learning from our Amazing Heritage for our Amazing Future	Dr. Devendra Kumar Yadav	20-01-2023

### Student achievements

SL. NO	NAME OF THE STUDENT	PROGRAMME OF STUDY (B.TECH./ M.TECH./ PH.D.)	DETAILS OF HIS/HER ACHIEVEMENTS DURING THIS PERIOD
1	Ms. Athira S. B.	Ph. D.	Successfully completed the AICTE's IKS Internship during July – September, 2022. The project title is “Assessing the cultural dimensions in the sustainable built environment: development of a framework based on Indian Knowledge Systems with specific reference to residential architecture”.

### Research Projects and Consultation jobs

SL. NO	TITLE OF THE PROJECT	INVESTIGATORS	SPONSORING AGENCY	YEAR OF STARTING	AMOUNT (IN INR)	STATUS
1	Indian Knowledge Systems Approach to Deep Ecology: Integrating Sacred Geography and Sustainability	Dr. Anjana Bhagyanathan, Asst. Professor, Department of Architecture and Planning, NITC, Dr. Ramesh Krishnamurthy, WII Dr. A. Srivatsan, CEPT Dr. Chithra K., Associate Professor, Department of Architecture and Planning, NITC, Dr. Deepak Dhayanithy, IIMK Dr. Gauri Mahulikar, Chinmaya	IKS Division of Ministry of Education @ AICTE	2022	Rs. 25 lakhs	Ongoing

		International Foundation  Dr. M. D. Subashchandran, IISc., Bangalore				
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### **Initiatives of the Centre**

#### **MoUs signed with the following institutions:**

- Chanakya University, Bengaluru
- Central Sanskrit University, New Delhi

#### **Collaboration**

- NIT Calicut is a centre for Non-Formal Sanskrit Education of Central Sanskrit University, New Delhi to offer Certificate Program (Level 1) and Diploma Program (Level 2) in Sanskrit.
- Central Sanskrit University, New Delhi has deputed one faculty to offer the Certificate Program in Sanskrit.
- The Certificate Program (Level 1) started on 18<sup>th</sup> August with 61 participants. Classes are held on all Mondays, Tuesdays and Thursdays from 6 to 7 pm.

#### **Elective Courses**

The following 3-credit open elective courses for Under Graduate Programmes are offered in Monsoon and Winter 2022-23:

- IK3001D Basic Sanskrit
- IK3002D Introduction to Indian Knowledge System

### **8.10.6 Centre for Information Technology, Research, and Automation**

CITRA is the Multidisciplinary Research Centre Established in March 2022 with focus on Training, Research and Consultancy in the area of Information Technology. The vision of CITRA is to elevate NIT Calicut to the smartest T- School in the country through intelligent and automated IT Enabled services in a sustainable manner for all academic, research, co-curricular and outreach activities.

#### **Vision**

Elevate NIT Calicut to the smartest T- School in the country through intelligent and automated IT Enabled services in a sustainable manner for all academic, research, co-curricular and outreach activities.

#### **Mission**

- Master Plans with scientific and futuristic planning and procurement of Network Infrastructure for the Campus Networking Centre and Central Computer Centre
- Completed Automation of all the activities of the Institute
- Creating Opportunity for students who are interested in IT to do projects on campus related problems and help them to earn while they learn
- State of the art Research infrastructure in the Area of Network and Cyber Security available to interested members from all the departments
- Training programmes/certificate courses and consultancy in the areas of Cyber Security, Campus Automation and related areas

- Industry sponsored research positions /scholarships for Ph.D. Scholars.
- Guiding Doctoral candidates in multi-disciplinary areas where IT has a major role

Here is a brief report of the activities of CITRA during the period (April 2022-to March 2023).

#### (a) IT Infrastructure Development


1. Added eleven workstations and one server class machine in the Central Computer Centre (Appx. Cost: Rs. 31 lakhs).
2. Campus Connectivity: Upgraded the Bandwidth of the Internet connection to the campus from 1.01 Gbps to 5 Gbps.
3. Purchase and installation of Core Switches for upgrading the switching network of entire campus (Appx. Cost: Rs. 2.45 Cr)
4. Purchase and installation of Smart Rack (Appx. Cost: Rs. 47 Lakhs)
5. Upgraded nearly 450 Network switches with modules from 100 Mbps to 1 Gbps (Appx. Cost – Rs. 90 Lakhs)
6. Upgraded all fiber links in campus to support 10Gbps from Core Switch by changing 120 Network Switches (Approx. Cost: Rs. 40 Lakhs)
7. Purchase and Installation of Video Conferencing Setup in Board Room and Senate Halls (12L)
8. Purchase and installation of Server Class Machines for institute firewall (Apprx. Cost: Rs. 10 Lakhs)
9. Installation and configuration of the backup intercom PBX Server using Open Source FreePBX software.

#### (b) Automation Projects (Software) completed


1. Online Portal for faculty recruitment
2. Online Scrutiny portal for faculty recruitment
3. Online interface for selection board members for the faculty recruitment
4. Online portal for Distinguished Alumni Award applications
5. Academics module of IMS
6. Software for the Non-Teaching Staff recruitment

#### (c) Continuing Education and Outreach Activities


1. Hosted online examinations for JEE Main, UGC NET, CUET
2. Hosted Online examination for Kerala Police Officers promotion Test
3. Conducted Workshop on IBM Cloud Essentials (Around 250 students participated)
4. Organized an interactive session on with Dr. V. P. Joy, Chief Secretary of Kerala on 14<sup>th</sup> January 2023.


**CENTRE OF INFORMATION TECHNOLOGY RESEARCH & AUTOMATION**  
 NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

AN INTERACTIVE SESSION WITH  
**Dr. V.P. JOY, IAS**  
 CHIEF SECRETARY,  
 GOVERNMENT OF KERALA



**COSMOLOGICAL VIEW OF LIFE**


**SATURDAY**  
**JANUARY 14, 2023**  
**4.00PM**  
**BOARD ROOM**  
**ADMIN BLOCK**

Hosted By  
**CITRA**

[www.citra.nitc.ac.in](http://www.citra.nitc.ac.in)



1. Hosted an Interactive Session with **Sri. Thummala Vikram IPS, Additional Director General of Police (Cyber Operations)** on collaboration with Kerala Police on 10<sup>th</sup> January 2023. MoU with Cyberdrome of Kerala Police is to be signed soon.



Discussions on research collaborations are in progress with Intel, Radisys Bangalore and ID Fresh Bangalore

#### **Chairperson**

**Dr. S. D. Madhu Kumar**

FACILITIES & SERVICES

[Decision Support System \(DSS\)](#)

[Campus Networking Centre \(CNC\)](#)

[Central Computer Centre \(CCC\)](#)

#### **8.10.7 Centre for Innovation, Entrepreneurship, and Incubation**

The Centre for Innovation, Entrepreneurship & Incubation (CIEI) – is an initiative by NIT Calicut to foster innovation and entrepreneurship culture among the students, faculty and staff to enable them to transform their innovative business ideas into reality.



The centre aspires to develop individual talent, skills and personality to give each business the best possible start, thus fostering entrepreneurship at a local, national/international level.

CIEI offers unique and incentivized solutions, which will encourage students, staff and faculties to ideate and design novel solutions. The centre will provide a supportive entrepreneurial environment that accelerates the successful development of start-up companies through an array of adequate resources and services.

### **Vision**

International standing of the highest calibre in innovation and entrepreneurship

### **Mission**

To actively engage students, faculty and staff in innovation & entrepreneurship by creating a state-of-the-art ecosystem to solve the problems in the industry/society and the market through developing technology start-ups resulting in the regional economic development

### **Objectives**

- To conduct training programmes in the field of entrepreneurial skill development.
- To create awareness among the students/faculties regarding entrepreneurship as a career option.
- To develop entrepreneurship related course in the curriculum
- To nurture innovators to ideate in areas of societal importance
- To provide an opportunity for everyone to innovate, ideate and design solutions
- To enhance the capacity of emerging innovators in evolving technologies and designing their innovations from ideation to impactful solutions To facilitate the availability of the centre's resources to the incubatees in a mutually beneficial way
- To provide a conducive working environment for the incubatees to nurture their innovative ideas.
- To develop partnerships and networks with local industries/institutions and assist them in problem-solving by offering them innovative solutions in terms of products, services, and processes
- To coordinate with private and public sector funding sources, government agencies, industrial associations, chambers of commerce and industries to provide facilitation and networking for incubating companies

### **Chairperson: Dr. Ashok S.**

Innovation, entrepreneurship and incubation activities at NITC are coordinated by the Center for Innovation Entrepreneurship and Incubation (CIEI). Based on the data on activities submitted to ARIAA (now NIRF Innovation) NITC secured 9<sup>th</sup> rank and the only NIT in the top 10 places under innovation.

We have also secured a star ranking of 4 out of 5 for Institute innovation council.

### **x.1 Institute Innovation Council**

The Institution's Innovation Council (IIC), a unit of the Ministry's innovation council (MIC) systematically fosters the culture of innovation among faculty and students. IIC - NITC, comprising 37 Innovation Ambassadors and 5 External Members, has conducted more than 60 major activities like national workshops, Field Visits, seminars, and expert talks by industry professionals during 22-23. Our innovation ambassadors are the advisors of IIC institutes like

TKM College of Engineering, Christ College of Engineering, Veda vyasa Institute of Technology, and few selected schools nearby etc.

### **x.2 Student innovative project scheme:**

A total of 43 student innovative projects were selected for funding during 2022-23 and Rs. 26 Lakhs were spent for these projects making the prototype. 12 publications, 14 patents and 3 students' start-up are the outcome from these projects.

### **x.3 Design innovation centre (DIC)**

Facility at DIC is utilized by Ph.D. / PG and UG (total 14 in 2022-23) students for their projects, two of which resulted in patent filings. A 2-day workshop on MTAB XLMILL machine was conducted for students.

### **x.4 IPR Cell**

The IPR Cell, functioning under the Center for Innovation Entrepreneurship and Incubation (CIEI), has been instrumental in guiding the faculty and student of NIT Calicut for filing patents and trademarks, commercialization of Intellectual Property and Transfer of technology (ToT). In the year 2022-23, the centre has filed 43 patent/trademark applications. 7 Indian Patents, 2 International patents and one trademark were granted. Including the newly granted patents, the total number of patents granted to NIT Calicut stands at 25.

### **x.5 Technology Business Incubator (TBI)**

Technology Business Incubator (TBI-NITC) established in 2003-04, is registered as a society under the society registration Act. Major funding agencies of TBI are DST, MSME and MeitY. The following table shows the achievements of TBI:

1	Number of incubatees joined during 2022– 2023 (including Student startups -1, Faculty Startups - 1, Alumni Startups - 3)	13
2	Number of incubatees graduated during 2022– 2023	15
3	Total number of startups from TBI up to March 2023 (including Student startups - 10, Faculty Startups - 1, Alumni Startups -8)	101
4	Total number of employees in the incubated companies	1150+

TBI has conducted many programmes on entrepreneurship development like Three Entrepreneurship Awareness Camps, nine advanced entrepreneurship skill development programmes, Mentoring workshop on INSPIRE AWARDS – MANAK.

NIDHI PRAYAS under DST is a scheme for addressing the gap in the very early stage idea/proof of concept funding. TBI has got approval for a total project cost of Rs.700 Lakhs for hosting a PRAYAS Centre at NIT Calicut. TBI has inducted group of 8 innovators during 2022-23 and with this, a total 23 innovators are supported under this scheme. A fab lab with sophisticated facilities useful to the student projects and start ups is also set up.

### **8.10.8 Centre for International Relations, and Foreign Languages**

#### **Our Vision**

Mobilise, Collaborate and Transpire Global Educational/Academic Exchange

#### **Our Mission**

Secure a niche for NITC in the global educational paradigm, foster healthy international collaboration to facilitate research and learning of global standards and support a vigorous international exchange of academia and scholastic talent

## Objectives

- **Strengthen** international collaboration in the Academic and Research domain
- **Establish** a mechanism for the attainment of global standards among the NITC fraternity
- **Mobilise** International Academic Collaboration
- **Focus** on creating world-class teaching practices and curriculum

## The Staff

SL. NO.	NAME	DESIGNATION	QUALIFICATION
1	Dr. M. K. Ravi Varma	Chairperson, CIRFL	Professor
2	Dr. Baiju G. Nair	Vice Chairperson, CIRFL	Associate Professor
3	Dr. Satyananda Panda	Member	Professor
4	Dr. M. Sankaralingam	Member	Assistant Professor
5	Dr. Chandra Sekhar Bestha	Member	Assistant Professor
6	Dr. Shyni Anilkumar	Member	Assistant Professor
7	Dr. Sujith Kumar C. S.	Member	Assistant Professor
8	Dr. Soney Varghese	Member	Professor
9	Dr. Nikhil Sasidharan	Member	Assistant Professor
10	Dr. Sudhish N. George	Member	Associate Professor
11	Dr. Arun Raj Kumar P.	Member	Assistant Professor
12	Dr. Pramada S. K.	Member	Assistant Professor
13	Dr. Preeti Navaneeth	Member	Assistant Professor
14	Dr. Anirban Sarkar	Member	Assistant Professor
15	Dr. M. Yogesh Kumar	Member	Assistant Professor
16	Dr. Yogesh V. Navandar	Member	Assistant Professor

## Achievements that took place during the year 2022-2023

### Collaborations

- An MoU between NIT Calicut and the Faculty of Information Technology and Electrical Engineering of the Norwegian University of Science and Technology (NTNU) was Signed on 10<sup>th</sup> December 2021 for 10 years. Dr Sudhish N. George had led the MoU.
- A Sponsored Project titled CapsNetwork - International Network for Capsule Imaging in Endoscopy funded by Research Council of Norway (RCN), Amount: 716 000 NOK, Starting Date: 29<sup>th</sup> Sep 2021, Duration: 5 years.
- Dr. M. Sankaralingam, Assistant Professor, Department of Chemistry had been invited by the Université Paris Cité, France, to work with Prof. Marc Robert, Department of Chemistry at Université Paris Cité.
- Dr. Vinay Joseph, Asst Professor, Department of Electronics and Communications Engineering and has a consultancy project with PhyTunes Inc USA which started in 2021 and is ongoing. The work is related to developing advanced wireless/wireline connectivity solutions.

## MoUs

- An MoU between NIT Calicut and Royal Melbourne Institute of Technology (RMIT), Australia, was signed on 16<sup>th</sup> of May 2023 in Melbourne. The MoU was signed by our Director from the NITC side, and Dr. Saskia Loer Hansen, Deputy Vice-Chancellor International & Engagement, from the RMIT University side. Prof. P. P. Anilkumar, our Dean of Alumni and Corporate Affairs, currently visiting RMIT, Katherine Johnson- Dean, school of global urban and social studies, RMIT, Ron Wakefield- Dean, school of Property, construction and project management, RMIT, and Dr. Priya Rajagopalan, Professor, Property and Construction management, RMIT (also our alumnus from Department of Architecture and Planning), were at the function in Melbourne where RMIT organised their signing function.
- A MoU between NIT Calicut and Mahatma Gandhi College of Mass Communication (MAGCOM) was Signed on 24<sup>th</sup> February 2023.
- An MoU between NIT Calicut and the Faculty of Information Technology and Electrical Engineering of the Norwegian University of Science and Technology (NTNU) was signed on 10<sup>th</sup> December 2021 for 10 years.

## Japanese Language Programme

CIRFL launched a Japanese language Certificate program jointly with Japan Foundation (JF), New Delhi, with their partial funding. The course is designed as a 93 hours instruction-based contact program focusing on Katsudo and Rikai for registered participants. After completing the program, participants will receive a certificate from Japan Foundation, New Delhi and NIT Calicut in collaboration.

- A batch of 14 students from NITC completed the Japanese Language Course.

## Our Activities

- A Talk on "Spacecraft Autonomy: Current Research (including Artificial Intelligence and Big Data Analytics) and Future Challenges" 28th April 2023.



- Consulate General of Japan, H. E. TAGA MASAYUKI visited National Institute of Technology Calicut (NITC) on Monday, 24th April 2023. The Center for International Relations and Foreign Languages (CIRFL) organized the event to honor the Consulate General. The programme focused on promoting cultural and academic exchange between India and Japan. H. E. TAGA MASAYUKI delivered the keynote address, focusing on the Indo-Japan relationship as a special strategic and global partnership. He praised the efforts of NITC in promoting Japanese language education and expressed his hope for further collaboration in the future. The event also included an interactive session with the Consulate General, where participants could ask questions and share their views on the Indo-Japan relationship.



- A brainstorming session on the possibilities of starting a program on International media studies on 29<sup>th</sup> March by Dr. T. P. Sreenivasan.
- Shri. V. Muraleedharan, Honorable Minister of State for External Affairs and Parliamentary Affairs Inaugurated CIRFL office on 24<sup>th</sup> February 2023.
- A talk on 'Development of Chemical Microsorbent Devices for Detection of Diseases' was delivered by Dr. Chiranjit Ghosh from the Division of Infectious Disease, Harvard Medical School, USA on 6-10-2022.
- Dr. Will Cantrell, Assistant Provost & Dean of Graduate School, and Prof. Ravindra Pandey, Chair of Dept of Physics, Michigan Technological University (MTU), USA, visited NITC on the 19<sup>th</sup> of September.
- The researchers and faculty members in Computer Science and Engineering Department, NITC are working on a collaborative project on 'Federated Learning for Cancer Research' with MVRCCRI and Maastricht University/Maastricht Clinic, Netherlands. Clinical Data Scientist and Medical Physicist Dr. Andre Dekker is heading the project.
- The Honourable Union Minister for State for Electronics, Information Technology, Skill Development and Entrepreneurship, Shri. Rajeev Chandrasekhar's visited NIT Calicut for a "Fireside" chat with NITC students: Shri. Rajeev Chandrasekhar, Union Minister of State for Electronics, Information Technology, Skill Development and Entrepreneurship visited the National Institute of Technology Calicut on 30.08.2022.



- P. A. Muhammed Basheer, a distinguished Professor and Chair in Structural Engineering at the University of Leeds, United Kingdom, visited NITC on 26.8.2022. He has been an educationalist and researcher in the field of civil (structural) engineering for more than 30 years. He delivered a lecture titled 'Developing and delivering a vision to become internationally leading in academia' at 2:30 pm in MED Seminar Hall.



- Shri. V. Muraleedharan, Honorable Minister of State for External Affairs and Parliamentary Affairs visited NIT Calicut to launch various projects on 13.08.2022. Hon'ble Minister inaugurated the office complex for the newly established multidisciplinary centres, laid the foundation stone for an International Hall of Residence and officially launched an international seminar on the theme of 'Internationalisation of Higher Education in the light of NEP 2020' at the NITC campus. Hon'ble MP Shri. M K Raghavan and Hon'ble MLA Shri. P T A Rahim felicitated the gathering.



- Dr. Arantza Aldea and Dr. Mahak M., from Oxford Brookes University (OBU), facilitated by the British Council Exploratory Funds, visited NIT Calicut during 4 - 5 July 2022. Dr. Aldea and Dr. Mahak, delivered talks on 4<sup>th</sup> July 2022 at 3 pm about collaboration information and joint ventures between OUB and NITC. The main aim of this seminar is to identify possible teaching and learning collaboration and potential research collaboration opportunities with NIT Calicut.
- As a result of the research collaborations of NITC researchers in CSED with MVRCCRI and Maastricht University, Clinical Data Scientist and Medical Physicist Dr. Andre

Dekker and his colleague Dr. Leonard Wee of Maastricht University/Maastro Clinic, Netherlands, are visiting NITC on 26<sup>th</sup> May 2022 (Thursday), along with researchers from MVR Cancer Centre.



- Dr. Olusola Akinrinola, INSA-JRD-TATA Fellow, visiting during 13<sup>th</sup> May 2022 – 12<sup>th</sup> July 2022, mentored by Prof. P. Predeep, Physics Department.
- Open-house with the visiting Professor Dr. Thomas Goetz from Koblenz University Germany for aspirants of NITC community to forge academic relations or higher studies in Madhava Hall in Mathematics during 3 - 4 pm on 5/5/2022.
- Mr. Jackson Ondiko, visiting during 28 April 2022 - 28 May 2022, mentored by Dr. Sujith Kumar C. S., MED, under a Indo-South Africa bilateral project.
- High-level delegation led by Dy. Director to Israel to study academia-startup ecosystem interaction - March 12<sup>th</sup> – 19<sup>th</sup> 2022.

### **8.10.9 Centre for Public Relations, Information, and Media Exchange**

The Centre for Public Relations, Information and Media Exchange (C-PRIME) envisions to ensure proper assimilation and dissemination of information about our Institute. The activities of the centre include liaison with the media world, publication of Institute Newsletter, management of the information on the Institute website, fostering public relations etc. Media Cell is a subsidiary wing of C-PRIME which aims to convey information about various events, achievements and activities of the Institute to the outside world, effectively and efficiently. We are committed to establishing and maintaining a cordial, fruitful and mutually beneficial relationship with the media world. We request all the esteemed friends in the media to feel free to contact us for any information about the Institute.

#### **Objectives**

- Coordinate proper dissemination of all the official communications of the Institute with the print, electronic and social media platforms. A subsidiary wing of C-PRIME named 'Media Cell' shall undertake this activity
- Publish the Information Brochure and the official Newsletter of the Institute at regular intervals, as the case may be, highlighting the major features, events and achievements of the Institute
- Coordinate, facilitate and manage all the postings to the Institute Website.

## **Chairperson**

**Dr. Abdul Nazeer K. A.**

### **8.10.10 Centre for Quality Assurance, and Enhancement**

#### **Vision**

- Create an ethos towards holistic quality enhancement in academic, research and administrative practices of the Institute.

#### **Mission**

- Identify and apply benchmarks for assessment of quality in academic, research and administrative spheres in the Institute.
- Develop a system for conscious, consistent and catalytic action to improve the performance by the conduct of audits in Academics, Research, Administration, Equipment utilisation, Energy consumption and Environmental sustainability.
- Promote measures for institutional functioning towards quality enhancement through internalisation of quality culture and institutionalisation of best practices.
- Function as a nodal agency to ensure continuous improvement of quality culture in the Institute.

#### **Memers**

- Dr. P. S. Sathidevi, Professor, ECED: Chairperson
- Dr. A. P. Shashikala, Professor (HAG), CED
- Dr. P. P. Deepthi, Professor, ECED
- Dr. Ameer P. M., Associate Professor, ECED
- Dr. Arun P., Associate Professor, MED
- Dr. George K. Varghese, Associate Professor, CED
- Dr. Kumaravel S., Associate Professor, EED
- Dr. Noel Jacob K., Assistant Professor, CHED
- Dr. Parameswaran P., Professor, CHY
- Dr. Sameer S. M., Professor, ECED
- Dr. Sunil Jacob John, Professor, MAT
- Dr. Vinay V. Panicker, Associate Professor, MED
- Dr. Harikrishna M., Associate Professor, CED

The Centre for Quality Assurance and Enhancement was set up with a vision to create an ethos towards holistic quality enhancement in academic, research and administrative practices of the Institute. The Centre has taken up multi-faceted activities to realise this vision during the academic year 2022-2023. The Centre has taken up the activities relating to the accreditation of the Undergraduate and Postgraduate programmes of the Institutes, by the National Board of Accreditation, during the academic year 2022-2023. It was indeed a proud moment for the Centre when the Undergraduate programmes in Civil Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, Mechanical Engineering, Production Engineering and Chemical Engineering were awarded accreditation for a period of six years, which is the maximum period of accreditation awarded by the NBA for a programme. The Undergraduate programme in Biotechnology was awarded accreditation for a period of three years. Moreover, the Postgraduate programme in Telecommunication was awarded a six-year accreditation, while the postgraduate programme in Energy Engineering and Management was accorded three years accreditation. The Centre also took proactive measures to collect data for the NIRF Ranking framework, and it is gratifying to note that the NIRF rank of the Institute



has improved from 31 to 23, for the year 2023. Moreover, a committee headed by Prof. Ravi Varma was constituted to take up a performance audit of high-value equipment in all the departments, schools and centres of the Institute. In order to sensitise the faculty of the Institute on various challenges in modern education methodologies, an expert talk by Dr. Elizabeth Elias, Professor (Retired), Department of Electronics and Communication Engineering, NIT Calicut was arranged on September 21, 2022, on the topic “Outcome Based Education”. Moreover, Dr. C. R. Muthukrishnan, Professor (Retd.), IIT Madras, delivered an online talk on the topic "How to frame Good Course Outcomes" on May 16, 2023. The Centre for Quality Assurance and Enhancement is striving hard to realise the vision of the Institute “International standing with highest calibre”.

#### **8.10.11 Centre for Sustainable Technologies**

##### **Vision**

To be a center of excellence In catering the global demands by innovative sustainable technologies

##### **Mission**

To provide the quality of life through potential emerging technologies for environmental sustainability, waste management, renewable energy systems, water harvest, pesticide free organic farming as a model ecosystem and designs.

##### **Chairperson**

**Dr. Lisa Sreejith**

##### **Activities**

###### **a) Completed**

1. 20 kg Plastic to Power (P2P) plant is commissioned to full capacity
2. Rain water harvesting completed from the roofs of ECLC building, Segregation yard, P2P plant and part of Science department to the East campus well
3. Established 3 acres of pesticide free vegetable garden, VIBHAV in East campus.
4. Cleaned and cleared the well near DAP and SMSE for use for agriculture

###### **b) Ongoing:**

1. Electrification work for the pumphouse near to DAP and SMSE
2. Pilot-scale P2P plant (100 kg per day)

###### **c) Proposed:**

1. Solar panel work on the rooftop of Plastic to Power (P2P) plant
2. Total waste management of the campus, including chemical waste
3. Scaling up of P2P plant and its commercialisation
4. Renewable energy driven campus in line with MNR policy

#### **8.10.12 Centre for Women Welfare and Social Empowerment**

Women empowerment has been identified by the Government of India as a prerequisite not only for family and societal development, but also for the entire nation building and sustainable world. Affirmative legislations, plans and systematic programs are introduced in recent times by the Government with support from NGO's and Corporate Social Responsibility initiatives

to cater the diverse domains constituting the United Nations identified Sustainable Development Goals (SDGs).

India has now endorsed the global effort of women welfare along with its preparations to achieve the UN sustainable development goal SDG-5 in a fast-track progression by 2030 itself. Hence there is an urgent need of assessing the above-mentioned affirmative actions, giving fresh impetus on empowering girls and women not only through conventional education but also hand holding for skill acquisition and skill development and providing them with equitable economic and social opportunities.

As a premier higher education institute in engineering, technology and scientific domain, National Institute of Technology Calicut is rightly positioned to support the women welfare and empowerment drive in the multiple segments the government have identified. The present proposal clearly identifies the various segments which directly constitutes with the women empowerment drive and proposes new programs, measures and action steps to implement the fast-track action plan. For the systematic implementation, continuous operation and regular monitoring and assessment and feedback measures aimed at societal development, a new dedicated Centre for Women Welfare and Social Empowerment is established at the institute.

### **Vision**

An inclusive space for women of all backgrounds, ages, and experiences, providing workshops, training programs, and mentorship opportunities to help women develop leadership, communication, and entrepreneurial skills.

### **Mission**

Provide a variety of programs and services to help women develop their skills, knowledge, and confidence through public speaking, financial literacy, networking, and digital skills. Deliver resources and services to support women's physical, emotional, and mental well-being. Establish a space that empowers and uplifts women, equipping them with the expertise and knowledge they need to succeed in all areas of life.

### **Objectives**

As an institute of national importance, NIT Calicut can help to assure women's empowerment in multiple ways. Encourage diversity and inclusion in the NITC community is a major part of this initiative. By promoting a diverse and inclusive culture at NIT Calicut, the institute can help to create a welcoming and supportive environment for women and other under represented groups. Initiatives such as providing scholarships, mentorship programs, and support services can help women succeed academically and professionally. The major objectives of the Centre for Women Welfare and Social Empowerment, CWSE include, but not limited to the following:

1. Encourage women's leadership and participation
2. Advocate for gender equality
3. Promote a culture of lifelong learning
4. Offer technical training and professional development programmes
5. Offer health, wellness and self-defence training sessions
6. Partner with industry and organisations
7. Provide mentorship, coaching and engage women in entrepreneurship.

### Conferences/Summer/Winter School/Short term Courses/ Workshops conducted

SL.NO	TITLE	COORDINATORS	DURATION & PERIOD
1.	International Women's Day celebrations at NIT Calicut Campus Walkathon on 07.03.2023 Elocution competition for students on 08.03.2023 Expert Lectures and CWSE centre inauguration on 10.03.2023	Dr. Suni Vasudevan	07.03.2023 to 10.03.2023

### Expert lecturers delivered in Conferences / Seminar / workshops

SL. NO.	NAME OF STAFF	TITLE OF THE PROGRAMME	DURATION AND PERIOD	ORGANIZATION
1.	Dr. Rajalakshmi Menon	International Women's Day Celebration at NIT Calicut	10. 03.2023; 11.15 am to 12.15 pm	Defence Research and Development Organisation, CABS, Bangalore
2.	Lt. (Cdr.) Kulbir Kaur	International Women's Day Celebration at NIT Calicut	10. 03.2023; 12.15 pm to 12.30 pm	Indian Naval Academy, Ezhimala, Kerala.

### 8.10.13 Centre for Yoga and Holistic wellness

In line with the National Education Policy 2020, NITC has established the Centre for Yoga and Holistic Wellness (CYHW) to promote Yoga and Wellness training and research

#### Mission

To enable and empower students, faculties and staff to enhance their capability in academics, research and profession through yoga and practice leading to a health-conscious community, contributing to the society and nation building.

#### Vision

To empower academic community through Yoga and Mindfulness Practice for holistic wellness to address challenges in profession and life.

#### Collaborations

- Indian Yoga Association (An industry cum - self regulatory body of leading yoga institute and organisation in India)
- Patanjali Yoga Research Centre, Kozhikode

#### Chairperson

**Dr. Kasthurba A. K.**

### 8.10.14 Centre of Excellence in Logistics and Supply Chain Management

**About CoELSCM at NIT Calicut:** National Institute of Technology Calicut launched a **Centre of Excellence in Logistics and Supply Chain Management (CoELSCM)** on 19<sup>th</sup> September, 2022, to support the Logistics Human Resource Development and Capacity

Building initiatives under the PM Gati Shakti Scheme, a Govt. of India. Partnering with NITIE Mumbai, this centre has developed courses in the domain of Logistics and Supply Chain Management. This Centre of Excellence is a multidisciplinary centre that works across various research groups such as Industrial Engineering, Transportation Engineering, Remote Sensing and Geospatial Technology, Construction Management and Cyber Security. Faculty members and their research team will be a part of this centre. This team will focus on new and emerging technologies with multidisciplinary and translational research relevant to achieving PM Gati Shakti's objectives of improving the supply chain's operational efficiency and minimizing logistics costs. This centre will initiate steps in disseminating advanced knowledge and promote digitisation, analytics, IoT applications, Artificial Intelligence and Machine Learning applications among the practising professionals in the organizations involved in the logistics sector and will share the best practices. *For more details about CoELSCM, please do use the link <https://nitc.ac.in/coelscm/>*

#### ACADEMIC STAFF

SL. NO.	NAME	DESIGNATION	DEPARTMENT	QUALIFICATION	SPECIALIZATION
1	Dr. Vinay V. Panicker	Chairperson and Associate Professor	Mechanical Engineering	Ph.D.	Industrial Engineering and Management
2	Prof. R. Sridharan	Professor (HAG)	Mechanical Engineering	Ph.D.	Industrial Engineering and Management
3	Prof. V. Madhusudanan Pillai	Professor	Mechanical Engineering	Ph.D.	Industrial Engineering and Management
4	Prof. T. Radha Ramanan	Professor	Mechanical Engineering	Ph.D.	Industrial Engineering and Management
5	Dr. Ratna Kumar K.	Assistant Professor	Mechanical Engineering	Ph.D.	Industrial Engineering and Management
6	Dr. Devendra Kumar Yadav	Assistant Professor	Mechanical Engineering	Ph.D.	Industrial Engineering and Management
7	Dr. Pradeepmon T. G.	Assistant Professor	Mechanical Engineering	Ph.D.	Industrial Engineering and Management
8	Dr. Sajjan T. John	Assistant Professor	Mechanical Engineering	Ph.D.	Industrial Engineering and Management
9	Cdr. (Dr.) Shamasundara M. S.	Registrar	Main Office	Ph.D.	Supply Chain Management
10	Prof. M. V. L. R. Anjaneyulu	Professor (HAG)	Civil Engineering	Ph.D.	Transportation Engineering
11	Dr. Harikrishna M.	Associate Professor	Civil Engineering	Ph.D.	Transportation Engineering
12	Dr. Yogeshwar	Assistant Professor	Civil Engineering	Ph.D.	Transportation Engineering

	Vijaykumar Navandar				
13	Dr. Nishant Mukund Pawar	Assistant Professor	Civil Engineering	Ph.D.	Transportation Engineering
14	Dr. Munavar Fairouz C.	Assistant Professor	Civil Engineering	Ph.D.	Transportation Engineering
15	Dr. Hillol Chakravarty	Assistant Professor	Civil Engineering	Ph.D.	Transportation Engineering
16	Dr. Jayachandran K.	Assistant Professor	Civil Engineering	Ph.D.	Construction Engineering and Management
17	Dr. Agilan V.	Assistant Professor	Civil Engineering	Ph.D.	Water Resources Engineering; Remote Sensing & GIS
18	Dr. Resmi S. R.	Assistant Professor	Civil Engineering	Ph.D.	Water Resources Engineering; Remote Sensing & GIS
19	Prof. Naseer M. A.	Professor	Architecture and Planning	Ph.D.	Remote Sensing and Geospatial Technology
20	Dr. Bimal P.	Assistant Professor	Architecture and Planning	Ph.D.	Remote Sensing and Geospatial Technology
21	Dr. Sanil Kumar	Assistant Professor	Architecture and Planning	Ph.D.	Remote Sensing and Geospatial Technology
22	Dr. Gopakumar G.	Associate Professor	Computer Science and Engineering	Ph.D.	Bioinformatics, Machine Learning, Data Mining
23	Dr. Hiran V. Nath	Assistant Professor	Computer Science and Engineering	Ph.D.	Cyber Security
24	Dr. Sreekanth V. K.	Assistant Professor	Management Studies	Ph.D.	Systems Thinking and Analytics
25	Dr. S. Saravana Kumar	Assistant Professor	Management Studies	Ph.D.	Operations Management
26	Dr. Chandra Shekar Bestha	Assistant Professor	Chemical Engineering	Ph.D.	Process Control

### Courses Offered

During the stated period of this report, the following 15 courses are developed by the Centre of Excellence in Logistics and Supply Chain Management (CoELSCM) at NIT Calicut, focusing on Logistics Human Resources Development and Capacity Building to Promote PM Gati Shakti Scheme.

<b>SL NO</b>	<b>COURSES OFFERED</b>	<b>COURSE NAME</b>
1.	GS3001D	Warehouse Automation
2.	GS3002D	Port Management
3.	GS3003D	E-Commerce Supply Chain
4.	GS3004D	Health Care Supply Chain
5.	GS3005D	Humanitarian Logistics
6.	GS3006D	Shipping Logistics Management
7.	GS3007D	Retail Supply Chain Management
8.	GS3008D	Multimodal Transportation Systems
9.	GS4001D	Transportation Systems and Network Design
10.	GS4002D	Supply Chain Finance
11.	LS4001D	Supply Chain Operation Simulation
12.	GS6001D	Air Cargo Logistics Management
13.	GS6002D	Digital Innovations and Technology in Supply Chain Management
14.	GS6003D	Agri-Food Supply Chain Management
15.	GS6004D	Sustainable Supply Chain
16.	ME3126D	Supply Chain Management
17.	CE3036D	Transportation Planning
18.	ME6102D	Inventory and Supply Chain Management

During the Winter Semester 2022-23, the following five courses were offered as Open electives for the undergraduate students of NIT Calicut.

<b>Sl. No.</b>	<b>Course Code</b>	<b>Course Name</b>
1.	ME3126D	Supply Chain Management
2.	GS3002D	Port Management
3.	GS3008D	Multimodal Transportation Systems
4.	LS4001D	Supply Chain Operation Simulation
5.	CE3036D	Transportation Planning

#### **WORKSHOPS CONDUCTED**

<b>SL.NO</b>	<b>TITLE</b>	<b>COORDINATORS</b>	<b>DURATION &amp; PERIOD</b>
1.	AICTE Teaching and Learning (ATAL) Academy sponsored FDP on Digital Supply Chain Management	Prof. V. Madhusudanan Pillai and Dr. Hiran V. Nath	Two Weeks, September 19 -30, 2022
2.	AICTE Teaching and Learning (ATAL) Academy sponsored FDP on Decision Modelling in	Dr. Vinay V. Panicker and Dr. Harikrishna M.	One Week, February 27 – March 03, 2023

	Transportation and Logistics Industry		
3.	AICTE Teaching and Learning (ATAL) Academy sponsored FDP on Strategic Management in Rail and Road Transportation Systems	Dr. Harikrishna M. and Dr. Vinay V. Panicker	One Week, March 06 – March 10, 2023
4.	Online Certification Course on Port Development, Operations and Management	Dr. Yogeshwar Vijayakumar Navandar, Dr. Nishant Mukund Pawar and Dr. Vinay V. Panicker	30 Hours, March 05 – April 11, 2023
5.	Webinar series on “National Logistics Policy: Shaping Indian Logistics for improving Competitiveness”. Episode 1 of this Webinar series was on the topic “Opportunities and Challenges of Rail Freight Operations in India” by Shri. Siva R., Deputy Chief Operations Manager Freight, Southern Railways.	Dr. Vinay V. Panicker, Dr. Harikrishna M., and Dr. Sanil Kumar	January 19, 2023, AN
6.	Webinar series on “National Logistics Policy: Shaping Indian Logistics for improving Competitiveness”. Episode 2 of this Webinar series was on the topic “National Logistics Policy: Opportunities in Maritime sector” by Shri. Rajesh Menon, Maritime Expert.	Dr. Yogeshwar Vijayakumar Navandar and Dr. Nishant Mukund Pawar	March 05, 2023 FN
7.	Webinar series on “National Logistics Policy: Shaping Indian Logistics for improving Competitiveness”. Episode 3 of this Webinar series was on the topic “Introduction to Gati Shakti” by Shri. Rajesh Menon, Maritime Expert.	Dr. Yogeshwar Vijayakumar Navandar and Dr. Nishant Mukund Pawar	March 05, 2023 AN
8.	Webinar series on “National Logistics Policy: Shaping Indian Logistics for improving Competitiveness”. Episode 4 of this Webinar series was on the topic “Port Operations, Importance and role of the Port sector – Challenges faced by Port Management” by Dr. C. Unnikrishnan Nair Head,	Dr. Yogeshwar Vijayakumar Navandar and Dr. Nishant Mukund Pawar	March 09, 2023 FN

	Maritime Logistics - Logistics Sector Skill Council		
9.	Webinar series on “National Logistics Policy: Shaping Indian Logistics for improving Competitiveness”. Episode 5 of this Webinar series was on the topic “Port Performance Evaluation and Benchmarking” by Dr. C. Unnikrishnan Nair Head, Maritime Logistics - Logistics Sector Skill Council.	Dr. Yogeshwar Vijayakumar Navandar and Dr. Nishant Mukund Pawar	March 09, 2023 AN
10.	Webinar series on “National Logistics Policy: Shaping Indian Logistics for improving Competitiveness”. Episode 6 of this Webinar series was on the topic “Development of Ports & Shipping in India” by Dr S V Madabhavi Director, Vadhavan Port Project Ltd..	Dr. Yogeshwar Vijayakumar Navandar and Dr. Nishant Mukund Pawar	March 17, 2023 FN
11.	Webinar series on “National Logistics Policy: Shaping Indian Logistics for improving Competitiveness”. Episode 7 of this Webinar series was on the topic “Container Traffic & Logistics Cost” by Dr S V Madabhavi Director, Vadhavan Port Project Ltd.	Dr. Yogeshwar Vijayakumar Navandar and Dr. Nishant Mukund Pawar	March 17, 2023 FN
12.	Webinar series on “National Logistics Policy: Shaping Indian Logistics for improving Competitiveness”. Episode 8 of this Webinar series was on the topic “Port Planning and Engineering” by Dr S V Madabhavi Director, Vadhavan Port Project Ltd.	Dr. Yogeshwar Vijayakumar Navandar and Dr. Nishant Mukund Pawar	March 18, 2023 FN
13.	Webinar series on “National Logistics Policy: Shaping Indian Logistics for improving Competitiveness”. Episode 9 of this Webinar series was on the topic “Environmental Process for Port Project” by Dr S V Madabhavi Director, Vadhavan Port Project Ltd.	Dr. Yogeshwar Vijayakumar Navandar and Dr. Nishant Mukund Pawar	March 18, 2023 FN
14.	Webinar series on “National Logistics Policy: Shaping Indian Logistics for improving Competitiveness”. Episode 10	Dr. Yogeshwar Vijayakumar Navandar and Dr.	March 25, 2023 FN



	of this Webinar series was on the topic “Port Management” by Shri. Rajesh Menon, Maritime Expert.	Nishant Mukund Pawar	
15.	Webinar series on “National Logistics Policy: Shaping Indian Logistics for improving Competitiveness”. Episode 11 of this Webinar series was on the topic “Green Shipping” by Shri. Rajesh Menon, Maritime Expert.	Dr. Yogeshwar Vijayakumar Navandar and Dr. Nishant Mukund Pawar	March 25, 2023 AN
16.	Webinar series on “National Logistics Policy: Shaping Indian Logistics for improving Competitiveness”. Episode 12 of this Webinar series was on the topic “Port Performance Evaluation and Benchmarking” by Shri. Rajesh Menon, Maritime Expert.	Dr. Yogeshwar Vijayakumar Navandar and Dr. Nishant Mukund Pawar	March 26, 2023 FN
17.	Webinar series on “National Logistics Policy: Shaping Indian Logistics for improving Competitiveness”. Episode 13 of this Webinar series was on the topic “Economic Evaluation of Minor Port Development - A Case Study” by Dr. M. V. L. R. Anjaneyulu, Professor & Head, Centre for Transportation Research (CTR), NIT Calicut.	Dr. Yogeshwar Vijayakumar Navandar and Dr. Nishant Mukund Pawar	March 26, 2023 AN

### 8.11 ENGINEERING UNIT FOR CIVIL AND ELECTRICAL WORKS

National Institute of Technology, Calicut		
<u>Engineering Unit</u>		
Ref:- Eng Unit/D1/18		31.07.2023
<b>Annual Report 2022-23</b>		
<b><u>Civil works</u></b>		
Sl No.	Name of Work	Status
1	Construction and raising of compound wall with top fencing for Director Bungalow	Completed
2	Urgent maintenance work of collapsed compound wall at Ladies Hostel near recreation club	Completed
3	Construction of collapsed compound wall in various locations from STP near LH, through 12 <sup>th</sup> mile Palakutty road- NITC	Completed

4	Reconstruction of collapsed compound wall in new Vegetable Garden near to Director Bungalow	Completed
5	Providing Barbed wire fencing above existing compound wall near G Hostel	Completed
6	Providing aluminium partition and work table for medical chemistry lab at second floor of Chemistry department	Completed
7	Construction of additional pits for existing STP near ladies hostel	Completed
8	Providing rain water drain near road side of E2&E3 quarters premises- (120 meter) and repair of damaged road by providing interlock tiles near E-type quarters	Completed
9	Providing aluminium partition at various locations of Central Library	Completed
10	Providing new work table with inside storage and floor tile work in instrumentation system lab of EED	Completed
11	Providing aluminium partition for new Faculty rooms near room no. 306, New exam cell in room no.304 and providing gypsum ceiling in conference room (No.304-2) of School of Biotechnology	Completed
12	Providing gallery, false ceiling, interior decor finishing work in seminar hall (room no - 201) Chemical Engineering department	Completed
13	Construction of walkway from Mega Ladies Hostel premises to SOMS	Completed
14	Construction of a new steel staircase for high performance computer lab in old central library building first floor	Completed
15	Providing parking area for new administrative block, NITC 2022	Completed
16	Providing an extra wooden door to the structure lab, CED for accommodating Ph.D. scholars in structures lab including providing shade interlock tile extra	Completed
17	Urgent maintenance work of Veg and non-Veg mess at MLH	Completed
18	Urgent repair works to main building including replacement of damaged roof sheet, above the CSED block	Completed
19	Providing interlock pathway connecting director's bungalow and guest house	Completed

## 8.12 SPRING VALLEY SCHOOL

Spring Valley School is a Senior Secondary Co-educational English Medium School, functioning in the institute campus as one of the staff welfare measures. The school is affiliated to the Central Board of Secondary Education, New Delhi with code No.930100. School is being managed by REC SPECTRA (Society for Promotion of Educational, Cultural and Training Activities), a charitable society registered under the Societies' Act (1860), the members of which are the faculty members of the institute. Most of the infrastructure facilities of the school like land, buildings, laboratories, playgrounds, etc. have been made available by the institute. The School has always excelled in academics since its inception and could achieve 100% pass both in Class X and XII CBSE Examinations. Digitally enabled classroom facilities and the School Band have been provided to strengthen the academic and co-scholastic abilities of the students. The School celebrated its Silver Jubilee during the academic year 2017-18.

The school had excellent and cent percent result in CBSE Class X & XII Board Examination 2023, Out of 22 students in class X, 4 students got 90% and 16 students got distinction, 1 got First Class and 1 got 55% Class X: School Topper: Vinodha S. 99%, Vinodha S. and Anlyn Elsa George scored 100 marks in English). Out of 11 students in class XII, 5 students scored 93% & above, 5 students scored distinction and one student scored 65%. (Toppers of Class XII Maryam Ameen 97.4%, Priscilla Nancy 96.6%, Adith Manoj 95%, Angith S 94% and Banusree S 93%) Maryam Ameen has scored 100 marks in Maths and Priscilla Nancy has scored 99 in English.

47 students participated in 100 items in CBSE Kalotsav 2022-23 conducted by Malabar Sahodaya. The following students bagged first 3 places at district level. Dyuthi R. of II std. bagged first in painting crayons, Ameya M. S. 2<sup>nd</sup> in Sanskrit Recitation, Avanthika N. P. 2<sup>nd</sup> in versification English and 3<sup>rd</sup> in versification Hindi, Vinodha S. 2<sup>nd</sup> in Story writing Hindi, Hridya Rajesh 1<sup>st</sup> in Recitation Hindi and story writing and 2<sup>nd</sup> in painting oil colour Akamsha Vinod 3<sup>rd</sup> in light music, Anlyn Elsa George and Devanda R. Sudheer bagged 2<sup>nd</sup> place in Power Point presentation. Our kids also participated in Malabar Sahodaya sports meet and were able to showcase good performance. Vaishnav bagged 3<sup>rd</sup> place in 100 mts running and shot put, Mayurswamy bagged 3<sup>rd</sup> place in long jump and Akamsha Vinod secured 3<sup>rd</sup> place in Javelin, in district level.

The school has always tried to keep and has been projecting high academic standards and discipline right from its inception.

Several infrastructure projects which were going on in the school was completed during this academic year. The computer lab-cum-smart class room sponsored by the 1969 batch alumni of the REC Calicut was inaugurated on 27<sup>th</sup> August 2022. This was a project worth Rs. 10 lakhs approximately. In addition to this the water tank of the school got renovated and a new fire safety system came into existence. The chemistry lab of the school was renovated by providing fresh gas pipeline system. Renovation works were carried out as part of annual maintenance in the B block executed by Engineering Unit of NIT Calicut. The construction work of the multi-purpose court in the assembly hall sponsored by the 1972 batch alumni is in progress.

Office Bearers as on 31.03.2023:

- Dr. Prasad Krishna, Director, NITC, Chairman, REC SPECTRA NIT Calicut
- Dr. R. Manu, Vice Chairman, REC SPECTRA & President, School Managing Committee.
- Dr. Sajith A. S., Secretary, REC SPECTRA & Manager cum Correspondent, Spring Valley School.
- Dr. George K. Varghese, Vice President, School Managing Committee.
- Dr. Ashish Awasthi, Joint Secretary cum Treasurer, REC SPECTRA
- Smt. Shiny A., Principal

## **9. INITIATIVES AGAINST DIFFERENT GOVERNMENT SCHEMES**

### **9.1 SWACHH BHARAT ABHIYAN**

NITC believes in the mission and vision of Swachh Bharat Abhiyan launched by the honorable Prime Minister on 2<sup>nd</sup> October 2014 on the occasion of Mahatma Gandhi's 145<sup>th</sup> birth anniversary. NITC community took the pledge for a clean India. Institute conducted several activities to make the entire campus and surroundings cleaned. The activities are getting

organized to aware the people about the Swachh Bharat Abhiyan and motivates to keep the surroundings neat and clean.

## 9.2 EK BHARAT SHRESHTHA BHARAT

### INTRODUCTION

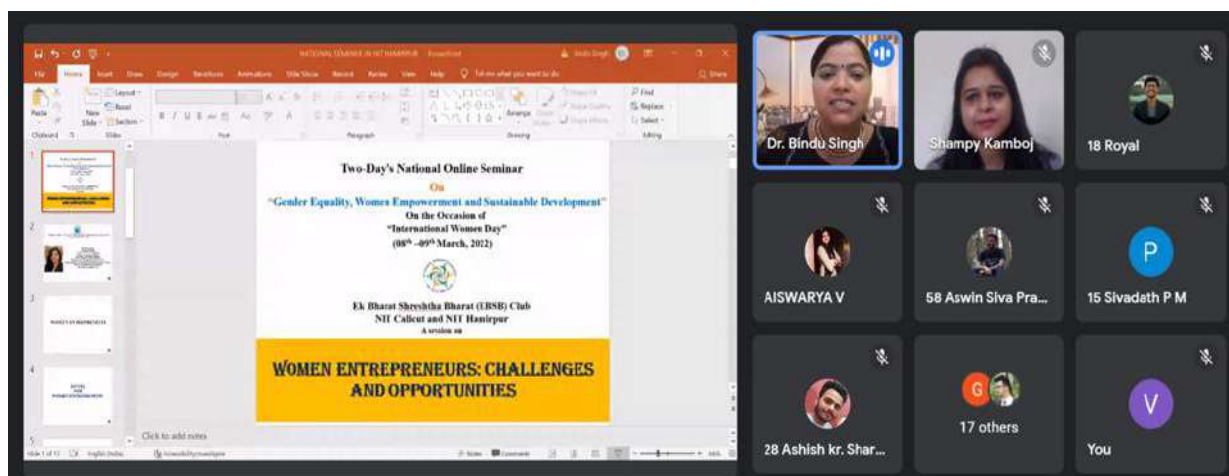
It is with great pleasure and pride that we present to you our club's annual report, capturing the remarkable achievements, milestones, and growth we have experienced over the past year. As we delve into the pages of this report, we invite you to join us in celebrating the collective efforts, dedication, and passion that have propelled our club to new heights.

This past year has been a testament to the unwavering commitment of our members. Your enthusiasm, talent, and relentless pursuit of excellence have shaped our club's success. Whether it was organizing events, spearheading initiatives, or fostering a welcoming and inclusive environment, your contributions have left an indelible mark on our club's fabric.

### EVENTS OF THE YEAR

On 31<sup>st</sup> October 2015, Sardar Vallabhai Patel's 140<sup>th</sup> birthday, the government launched the Ek Bharat Shresth Bharat programme. To discuss cultural differences, the programming pairs several states and Union Territories. This strengthens the integrity and cohesion of the Indian people.

The first programme event of the year 2022 was a two-day national online seminar on "Gender Equality, Women Empowerment, and Sustainable Development" from March 8–9. It was organised by the Ek Bharat Shreshtha Bharat (EBSB) clubs of NIT Hamirpur and NIT Calicut.



The National Seminar was a well-organized, two-day event that featured six unique, excellent learning sessions. After listening to the lectures, the students gained a thorough understanding of the gender disparities that exist in society and the steps that may be taken to address them in order to create a more gender equal world. On 22<sup>nd</sup> April, 2022, Friday, the Ek Bharat Shreshtha Bharat (EBSB) clubs from NIT Calicut and NIT Hamirpur collaborated to host an online poster competition with the theme "Go Green: Reduce, Reuse, Recycle." To honour the efforts of the winning competitors in both categories, students and staff, the EBSB clubs of NIT Hamirpur and NIT Calicut gave generous cash rewards. Faculty members, researchers, and various student communities all participated actively in this programme. The programme was a huge success overall because to the participants' innovative ideas and recent research advances.

On Sunday, 28<sup>th</sup> August, at 5 pm, the Ek Bharath Shresth Bharat clubs of NIT Calicut and NIT Hamirpur jointly staged their third event of the year, an online quiz competition between the students of the respective institutions on the culture and legacy of Himachal Pradesh and Kerala. The competition was successfully over, with the winners receiving cash awards totaling up to Rs. 6,000 and the results being announced via mail.

‘Sanskriti’ a cultural program, was hosted by NIT Calicut under the Ek Bharath Shresth Bharath cultural exchange program, in which the students and faculty of NITC conducted a cultural exchange program with NIT Hamirpur, as a part of this program from the 4<sup>th</sup> of October to the 10<sup>th</sup> of October 2022. The NIT Hamirpur representatives visited various places of varying degrees of history and heritage within Kerala. There was also the exhibition of various cultural events and programmes of both the states to the audience.



The Ek Bharath Shresth Bharath clubs of NIT Calicut and NIT Hamirpur jointly organised the first event of 2023, an online webinar on Makar Sakranti, dated 14<sup>th</sup> January, from 11 am. The event was celebrated with great zeal and enthusiasm. The webinar was held through online mode via Google Meet. The webinar was inaugurated with welcome speeches from the Nodal Officer of EBSB wing, NIT Hamirpur, Dr. Supriya Jaiswal, followed by the Dean (Student Welfares), Dr. Pardeep Kumar, and the inaugural session was concluded by Dr. Sudev Das, Nodal Officer of EBSB wing, NIT Calicut.



As part of the Annual Cultural Exchange Programme Aikyam'23 of the Ek Bharath Shresth Bharath, a group of 15 students with 3 faculties went to NIT Hamirpur, Himachal Pradesh from 16-03-2023 to 25-03-2023. The team visited several culturally important places of Himachal Pradesh too. Aikyam'23 witnessed cultural performances of both Kerala and Himachal Pradesh.

Student's Experience in Inter-State Living (SEIL) is an initiative to interact and experience the culture of various states. The Ek Bharath Shresththa Bharat (EBSB) club of NIT Calicut welcomed around 30 - 40 students from the North-East state on 8<sup>th</sup> February, 2023. The Director of NIT Calicut, Dr. Prasad Krishna gave the presidential address and talked about SEIL program, and how it was a pleasure to have them in the campus.



For the Earth Day 2023, EBSB Clubs of both NITC and NITH conducted Poster Making Competitions online. The posters were hand made by the students of both institutes. The competition was judged through an online meeting in which participants, club members and judges joined. The posters of NIT Calicut were judged by Dr. Samiksha, Dept. of Architecture, NITC. From NITH, the judge was Dr. Deepak Sharma, Assistant Professor, Department of Mechanical Engineering.

### **Summary**

As we bring another remarkable year to a close, we would like to express our sincere gratitude and appreciation to all our members, volunteers, faculties, and supporters who have made this year an extraordinary success for our club.

Throughout the year, we have witnessed the unwavering dedication and commitment of our members, whose passion and enthusiasm have truly elevated our club's activities and achievements. As we conclude this annual report, let us celebrate our accomplishments together and eagerly anticipate the bright future that lies ahead. Together, we will continue to inspire, connect, and make a positive impact on our club and the lives of those we touch.

## **10. STUDENTS ACTIVITIES**

### **10.1 NATIONAL SERVICE SCHEME**

The National Service Scheme (NSS) Cell at National Institute of Technology Calicut has four units working under it. Participation in NSS activities is mandatory for the completion of B Tech. credit requirements in NIT Calicut. All students Enrolled for the B Tech. programme of the Institute shall register for and complete the course requirements of NSS before they enter their third year of study, normally. The course requirement includes completion of minimum 15 hours of socially relevant activities in a semester. This, they are allowed to undertake within the campus, surrounding area of the campus or even near their home-town. Apart from this mandatory component, there are a lot of voluntary activities from students even after their period of registration in NSS.

The NSS Cell has provided abundant opportunities for its volunteers to participate in the various events and activities for the greater good of the community. Through its drives and fundraisers, NSS Cell has provided for the needy, while through its events, NSS has fostered creativity and fun, be it through cultural activities or promoting knowledge.

A brief report of activities conducted in the academic year 2021-22 is provided below.

### **Redefining gender roles - @facismslayer**

On 12th August 2021, NSS, NITC conducted a webinar led by @facismslayer, who gave an insightful perspective on all the prejudices that every woman is subjected to since birth, including restricting women from physical activities, female foeticides, and underestimating women's intelligence.

### **Tug-of-Words**

As part of Teacher's Day celebrations of 2021, NSS, NITC had organized an online debate competition, 'Tug-of-Words', from 3<sup>rd</sup> to 4<sup>th</sup> of September. All participants actively participated on the topic, 'Is technology on board to hit the mark in replacing a teacher's role?'.

### **EENGINEERS**

'EENGINEERS' is an online reels submission event that was organized by NSS NIT Calicut as part of National Engineers' Day on September 15<sup>th</sup>, 2021. Being open to all college and school students with no language constraints, the participants were supposed to shoot a reel where personified appliances talk from their perspective.

### **Shaking of the Inertia**

On 24<sup>th</sup> September 2021, NSS Day, the NSS unit of NITC had put forth a NSS Day Challenge, 'Shaking Off the Inertia' with an aim of propounding together a message of love and care for our fellow beings. Apart from being separated by online screens, NSS volunteers accepted the challenge and shared their tiny activities in Instagram stories with the hashtags' #sharetheday and #nssdaychallenge.

### **Nexus - Redefining your thought process**

In collaboration with VIT-AP, IIT Roorkee, NIT Surat, D. J. Sanghvi and in partnership with L.H.S. NATION, NSS NITC organized a free event Nexus, as a part of NSS day. The main motive of this event was to raise awareness on mental health and support it as much as we can.

### **MOZHI (Short Film)**

On International Sign Language Day, a group of NSS volunteers of NITC had put forth an initiative to portray a glimpse of the lives of people with speaking and hearing disability, through a short film, 'Mozhi'. It reminds us of the importance of learning sign language and being linguistically united so that we can create a better world around them.

### **'Physical and Mental Health During Pandemic'- Webinar**

The NSS unit of NITC with an urge to bring back a healthier world, had organized a webinar session on 13<sup>th</sup> October through webex platform. The session was led by Dr. Sayana Usman (BAMS, DBCM) a consultant at Ashtanga Ayurveda, Chathamangalam. The webinar instilled how important it is to maintain both our mental and physical health.

### **Health is everything - Webinar**

On 15<sup>th</sup> October, NSS, NITC in collaboration with ANS Trust conducted a webinar on the topic 'Health is Everything' which was led by Ms. Neeki Singh, a renowned International Yoga Coach. The webinar mainly focused on human anatomy, immune system and mind power.

### **On-Campus Cleaning**

As the students started to return to the campus, the NSS NITC volunteers took up the initiative to clean the campus and its surroundings. The Campus Cleaning was conducted on November 21 with the active participation of volunteers.

## **NSS FARM WORK**

Due to the pandemic and closing of the college to students, the NSS farm was unfortunately left uncared and unattended. One of the top priorities that the volunteers undertook as they returned to campus was cleaning and clearing the farm work site, which was overgrown by lush green grass to make the land cultivable as earlier.

### **Bed Donation**

A bed donation drive was conducted on 22<sup>nd</sup> November. The student volunteers collected beds from the willing 2021 graduates and donated more than 50 beds to the Grace Palliative Care, Mukkam.

### **Children's day**

We observed Children's day on 14<sup>th</sup> November to celebrate the curious cherubins around. We took an oath to make a difference and bring light to the darker shades of lives of the suffering children.

### **National Constitution Day**

We observed National Constitution Day on 26<sup>th</sup> November to celebrate the constitution of our nation and commemorated the great leaders behind it who made India, the Democratic Republic as we know it today.

### **Memento Distribution**

NSS NITC applauded Deepak Mecheri, the B16 EC student, by giving a token of appreciation for his benevolent act of donating stem cells in the camp organized by NSS NITC and HVG, as part of Avishkar, the social initiative of Tathva.

### **Akale Release**

Our magazine, 'Akale' for the year 2019-21, was officially released by the Director, Prof. Prasad Krishna, on 29<sup>th</sup> November. The magazine is a treasure trove of stories, poems, letters, pictures of volunteers of NSS NIT Calicut and is a visual treat and a worth read-alike.

### **Kit Distribution**

As part of our 'Let's teach' program, NSS NIT Calicut conducted a kit distribution campaign at Puthoor UP School. We handed over kits containing pens, notebooks, and writing pads made by NSS volunteers and students of NIT Calicut.

### **Palliative Care Day Celebration**

On 2<sup>nd</sup> January, 2022 the NSS NITC extended its support to the Palliative Care membership campaign organized by Grace Palliative Care, Mukkam, which has been a constant pillar to many cancer patients.

### **Republic Day Celebrations**

On the historic day of 26<sup>th</sup> January 2022, NSS NITC celebrated the 72<sup>nd</sup> Republic day.

### **Freedom Shots Photography Contest - A tribute to farmers**

On this Republic day, NSS NITC conducted a photography contest to zoom into the farmers of our country, to honour their struggle and faith in our Constitution that kept them going.

### **Music Video**

NSS NITC volunteers also made a music video on the revered National song 'Vande Mataram.'

### **Dance Video**

NSS NITC, through the dance video, tried to emphasize the significance of Republic day through a patriotic dance



### **Short film - WHITE RABBIT**

NSS NITC released the short film, 'White Rabbit' on February 6. The motive behind the short film was to create awareness and remind everyone that drug consumption is dangerous and is something that requires a solution. This short film secured a third place in the short film competition conducted by Vimukthi, the anti-narcotics campaign launched by Govt. of Kerala

### **Basics of LGBTQ and Gender-Neutral Campus (25-02-2022)**

NSS NITC conducted a webinar on creating awareness about LGBTQ community headed by Dr. Arjun P. C., a certified SOGIESC trainer and renowned medico – social activist.

### **AAVISHKAR'22**

In collaboration with Tathva'21, NSS NITC organized Aavishkar, a 2-day event at EMRS Pookode, Wayanad. The team focused on demonstrating science experiments and organizing fun games, career guidance sessions and activities for students of classes 8<sup>th</sup>, 9<sup>th</sup>, and 10<sup>th</sup>.

### **International Women's Day (08-03-2022)**

On the International Women's day, we embraced the very essence of all strong, powerful and resilient women.

### **Talk On CPR (13-03-2022)**

NSS NITC put up a webinar headed by Dr. Rani Balamurali (MBBS, MS, FRCS), a working ophthalmologist and the Associated Medical Director of Amardeep Eye Care, to educate the crowd on how to give CPR in an emergency.

### **Blood Donation Drive**

On 6<sup>th</sup> April, NSS NITC in association with Government women and children hospital and Kozhikode District Co-operative Hospital, conducted the blood donation camp in the campus.

### **Beach Cleaning Drive**

NSS NIT Calicut in association with Ragam team organized the Beach Cleaning Drive on Calicut Beach on April 10<sup>th</sup> in an effort to leave behind a greener future.

### **Stem-Cell Donor Registration Camp**

NSS NIT Calicut in association with HVG and Datri Stem Cell Donor Registry presented a Stem Cell Donor Registration Camp on April 12 at Bhaskara Hall.

## **10.2 NATIONAL CADET CORPS**



### **NATIONAL INSTITUTE OF TECHNOLOGY CALICUT 9(K) NAVAL UNIT NCC KOZHIKODE**

In 2022-2023, the National Cadet Corps (NCC-NITC) organized a series of events showcasing patriotism, unity, and skill development. These events included the Sea Attachment Camp, Har Ghar Tiranga Campaign promoting the national flag, Independence Day celebrations, Institute Convocation Day, Know Your Navy sessions to make students aware of Navy.

IGC-NSC 2022 camp (Attended by POC Anjaly Ajayan and CC George Stephen Lam), Special National Integration Camp (Attended by Shri. L. C. Ishan Zalpuri), All India Navy Sainik Camp 2022 (Attended by Shri. C. C. George Stephen Lam), Navy Exhibition on Tathva,

Unity Run, Flash Mob (On Occasion of Antinarcotics Day), Kindness Challenge, CATC 2022.

Ek Bharat Shreshtha Bharat Camp (Attended by Shri. L. C. Devikrishna Madhu) promoting cultural integration, Republic Day celebrations, KL22 Induction SSB Training Camp, Self Defence Training Program, and the Puneet Sagar Abhiyan environmental initiative. These initiatives aimed to foster a sense of pride, teamwork, and social responsibility among the participants while celebrating the spirit of the nation.

### Annual Training Camp

The NCC camp at NITC was a dynamic and vibrant event that brought together over 600 enthusiastic cadets. The camp was filled with a range of exciting activities that kept everyone on their toes. From morning PT to parade, physical tests, and lectures on navigation, seamanship, and weapon training, there was never a dull moment. The senior cadets showed exceptional leadership skills as they mentored and coached the junior cadets on the nuances of NCC, teaching them about parade, semaphore, and other NCC basics.



Esteemed members like the Director of NITC, Group commander of Kerala and Lakshadweep directorate, and Commanding officer were all present to enlighten and inspire the cadets with their lectures.

The camp culminated with a selection for the best cadet and a drill test, which were the highlight of the event. Overall, the NCC camp at NITC was a great success, fostering camaraderie, leadership, and teamwork among the cadets



### Har ghar Tiranga Campaign

A walkathon was organised by NCC NITC on 11/08/2022 at 7:50 am from East Campus to the centre circle as a part of Har Ghar Tiranga. It was a small initiative by the cadets to celebrate "Azadi ka Amrit Mahotsav". White T-shirts with "Azadi ka Amrit Mahotsav"

and “NITC logo” were distributed to the cadets and individuals who actively participated in the event. All the cadets waved and held the National flag high throughout the walkathon. They sang patriotic songs as they proceeded.



## INDEPENDENCE DAY 2022

NIT Calicut celebrated the 75<sup>th</sup> Independence Day themed at AzadiKa Amrit Mahotsav on 15th August 2022. The Director, Guest of Honour, Professors, Deans, Registrar, Deputy Director, students gathered around the flag post at 08.55 am. The programme commenced at 9.05am with the flag hoisting and a marchpast by the NCC cadets. This was followed by the speeches of the Guest of Honour and the Director. The Dean SW presented awards to students for cultural and academic achievements followed by a procession by the NIT Community around the Campus. The event concluded with the cultural programmes and refreshment distribution.



## 10.3 CLUBS AND CHAPTERS

### 10.3.1 CP Hub

CP HUB Annual Club Report (2022-23) CP Hub is formed to promote the Competitive Coding Culture among the students of NITC.

#### **CLUB MEMBER COUNT**

1. Fourth Years (B20) – 10

2. Third Years (B21) – 9

B22s will be inducted in the upcoming inductions

#### **OFFICE BEARERS**

Club President - G Gautham Krishna (B200739CS)

Club vice-president - Kaustubh Bahl (B200833CS)

All the other posts are rotated among the other club members.

#### **ACTIVITIES DURING 2022-23**

- Conducted programming workshops on
  - Introduction to C++ & STL
  - Intro to Competitive Programming
  - Two Pointers
  - Binary Search
- Conducted 6 Beginner contests on Vjudge
- Conducted a programming contest, “Koder Kombat”, in collaboration with Tathva, with a prize pool of 16K, in which over 150 students from various colleges registered.

#### **ACHIEVEMENTS**

- Three students from our club G Gautham Krishna, Kaustubh Bahl and Amit Kumar, participated in ICPC Amrithapuri regionals and secured a rank of 49.

### 10.3.2 CLUB AEROUNWIRED

#### **OFFICE BEARERS**

SL NO	POSITION	NAME	EMAIL ID	CONTACT NUMBER
1.	Secretary	K. Komal Singh	KATEWAD K...	8498072102
2.	Deputy Secretary	Naveen Sunil Kumar	NAVEEN SUN...	7902832752
3.	Treasurer	Cyriac Joy	CYRIAC JOY	8590442661
4.	Financial Advisor	Jofin Jose	JOFIN JOSE	7594932048
5.	Technical Advisor	Sai Vivek Dabbiru	SAIVIVEK D	7981449377

6.	Marketing Secretary	Ayush Gupta	AYUSH GUPTA	8529744807
7.	SAE Captain	Ayush Singh	AYUSH SINGH	9170339600

### Club Activities

#### Inductions

Inducted 20 students from B21 batch as full time club members after four rounds process- test, report submission, group discussion and interview.

### EVENTS IN ASSOCIATION WITH TATHVA

#### a. Albatross '22

A 3 round open-to-all competition conducted by Tathva in association with the club to design and fabricate a lightweight, electric motor-powered, remote-controlled aircraft that can navigate the arena with accuracy in the shortest amount of time and land gently on the ground.

#### b. Tathva Stall/Expo

A 3-day stall during Tathva to showcase various interesting and unique working aero models made by the club members while also being able to explain the aerodynamic theory of their flights.

#### c. Pre-tathva workshop

A 2-day workshop focussed on basic aerodynamics and 3D modelling was conducted exclusively for B21 batch. The students who attended the workshop was introduced to XLF5, an airfoil analysis and aircraft configuration tool, and Solidworks, a 3D Modelling software. They were also guided on how to make an RC Aircraft and given hands-on experience.

#### d. Post-tathva workshop

A 1-day workshop was conducted for B22 batch students, teaching them the basics of Autodesk Fusion 360, a CAD Modelling software.

### 10.3.3 AI CLUB

#### Team Members

Dr. Jayaraj P. B. (CSED)	Faculty in-charge
Dr. Pournami P. N. (CSED)	Faculty in-charge
Dr. Raghu C. V. (ECED)	Faculty in-charge
Bhanu Prakash Pebbeti	Secretary
Joel Mathew Cherian	Project Coordinator
Prathamesh	Treasurer
Paul P. Varghese	Junior Executive
Sidharth Deepesh	Junior Executive



### Expert Talks

As a part of our ‘Distinguished Lectures in AI’ series, we invited both academicians and industry professionals to deliver a series of informative lectures for the budding artificial intelligence community in NITC.

#### Modern Techniques in Autonomous Driving Perception

**Date:** 20<sup>th</sup> August, 2022

**Speaker:** Shri. Nikhil Nakhate (Technical Specialist at Lucid Motors, NITC Alumni)

**Abstract:** Modern perception of cars is majorly achieved with the help of two sensors: LiDAR and cameras. This talk predominantly focused on camera perception. Different types of objects on the road and various lane topologies from different regions and countries can make the tasks even more challenging. Through this session, he answered the question of how modern deep learning techniques can be used to address these challenges.

#### AI in Fashion E-Commerce

**Date:** 9<sup>th</sup> November 2022

**Speaker:** Mr. Sandeep Narayanan P. (Senior Data Scientist at Myntra, NITC Alumni)

**Abstract:** Artificial Intelligence (AI) is used extensively across a range of applications today, largely pervading all facets of our lives, with varying levels of sophistication. Such applications and processes have hugely benefited the fashion e-commerce industry and has improved the shopping experience of customers shopping on these platforms. In this talk, we looked into some AI powered applications that are being used across multiple fashion e-commerce platforms, and the benefits it provides the platforms and its customers.



### **10.3.4 The Adventure Club**

#### **Introduction:**

The Adventure Club is a group that organizes wide range of adventure events and share a passion for outdoor activities and challenging themselves physically and mentally. This report covers the details of the recent events and provides information about the upcoming event.

#### **Teamwork:**

It gives us great pleasure to present the outstanding achievements of our club during the academic year. The club's unparalleled activity and productivity have been nothing short of remarkable. We have conducted 48 meetings to ensure that each and every event was organized with perfection and professionalism.

#### **Recent Events:**

ADRENALINE, organized on October 12<sup>th</sup> and 13<sup>th</sup> 2022, was an incredible and awe-inspiring adventure extravaganza that left every participant on the edge of their seats. Despite the downpour, the organizers boldly decided to proceed with the event, defying all odds and pushing the limits of human endurance. The games, including dodge ball, and danger, with participants navigating treacherous obstacles and dodging lightning bolts to emerge victorious. The safety of every participant was ensured by a team of volunteers who ensured that no harm came to the intrepid adventurers. It was a once-in-a-lifetime experience that left everyone in attendance breathless with excitement and awe.

On 3<sup>rd</sup> February, 2023, The Adventure Club hosted two events, CAMPUSCAPE and PLAYSCAPE, exclusively for B21s within the campus which was an epic treasure hunt event that saw an unprecedented 98 teams of 2-4 members register for the events. The competition was fierce, with only 68 teams making it to the final round. The winners of this gruelling and intense event were rewarded with a treasure trove of gifts, coupons and the club edition hoodi. The event was successful and the participants provided positive feedback.

PLAYSCAPE, another exciting event organized by The Adventure Club on February 3<sup>rd</sup> 2023, was a massive hit, attracting a large number of participants who were eager to test their physical abilities. The event featured an array of challenging activities such as pushups, pullups, Ronaldo header challenge, arm wrestling. The participants were fired up and gave it their all, pushing themselves to the limit and showcasing their strength and endurance. The event was a huge success with everyone having a great time and cheering on their fellow participants.

### **10.3.5 AUDIO VISUAL CLUB**

#### **MAJOR ACTIVITIES**

- **Movie Screenings**

The club conducted three movies screening in the past one year. The details of the same shown below

- Movie Name: The Shining Screening Date: 29/10/22 Venue: Auditorium
- Movie Name: Love Simon Screening Date: 14/01/2023 Venue: Auditorium
- Movie Name: Knives Out Screening Date: 04/02/2023 Venue: Auditorium

#### **OTHER ACTIVITIES**

The club conducted the following activities in the past one-year period

- Rise to Radiant Vol-IV

Type of Event: Online Gaming Tournament

Number of participants: 32

Date and time of Event: 24/06/2022 to 27/06/2022 Venue:

Online

- Loren Ipsum

Type of Event: In campus open mic x movie screening x sports screening

Number of participants: 500+

Date and time of Event: 10th April 7PM

Venue: Creative Zone

- Ikigai-Open Mic Type of Event: Karaoke

Number of participants: 700+

Date and time of Event: 8PM August 24, 2022

Venue: Electronic Lecture Hall Complex Pits

- Audio Odyssey

Type of Event: The club releases a Spotify playlist every 2 week or so and posts it on our Instagram page.

Number of participants: N/A

Date and Time of Event: Ongoing

Venue: Spotify/Instagram

- Obscura

Type of Event: The club started an Instagram page where we post photos of major events that happened in campus Number of participants: N/A

Date and time of Event: Ongoing

Venue: Instagram

- Rise to Radiant Vol.-V

Type of Event: Online Gaming Tournament

Number of participants: 15

Date and time of Event: 27/12/2022 to 29/12/2022 Venue: Online

### **10.3.6 CLUB MATHEMATICA**

#### **Best performing Club**

Club Mathematica was selected as the best performing club for the academic year 2021-2022, during this year's Independence Day celebration. This recognition is a testament to the club's dedication and hard work throughout the year.

#### **Mock CAT**

On 11<sup>th</sup> October 2022, Club Mathematica, the mathematics club of NITC, in association with the TIME Institute, conducted a Mock CAT exam for second- and third-year students of NITC as a part of the pre-Tathva event. The exam aimed to give students an idea of the CAT exam and its format. Around 250 students participated in the event, making it a huge success.



The Mock CAT exam was conducted offline, and it provided students with a simulated environment similar to that of the actual CAT exam. The students had to answer the questions using pen and paper, which made it a more challenging and realistic experience. The exam was proctored by trained invigilators, and the students had to follow the exam rules strictly.

The event received an overwhelming response from the students of NITC, who were eager to test their skills and knowledge in a competitive environment. The offline format of the exam added to the challenge and made it a more intense and engaging experience for the participants. The students could assess their strengths and weaknesses in each section of the exam and get a better understanding of the CAT exam's pattern and format. The event was an opportunity for the students to experience the expertise of the TIME Institute in CAT coaching, which would be invaluable for students who plan to take the CAT exam in the future.



### LogIQ

On 23<sup>rd</sup> October 2022, Club Mathematica, the mathematics club of NITC, conducted an exciting quizzing event called LogIQ for college students as a part of Tathva. The event was designed to test the participants' mathematical aptitude and logical reasoning skills. The event offered prizes worth ₹10K for the winners, which added to the excitement of the participants.



### 10.3.7 ENQUIRE QUIZ CLUB

As we have headed back to the campus after the pandemic, the quizzing arena opened after a long time. Our club actively worked to establish a solid quizzing culture in the campus and improve the representation of NITC at professional quizzing standards. We engaged the quizzing community with 20+ quiz events this year and reinstated our signature events that had

been suspended due to the pandemic, welcoming some of the most celebrated quizmasters. We are proud to have a good support quizzing enthusiast around the campus closely working with Team Enquire.

We actively engage with quizzers outside the campus through our **social media handles**. Our official website is under maintenance for upgrade and will go on floors soon. The quiz materials of the events set and hosted by Enquire have been attached along with the posters.

### **Queerious (25<sup>th</sup>-26<sup>th</sup> June 2022)**

Showing support for the pride month, our club collaborated with NSS for 'Queer.ious' - an online pride-themed quiz. Set combinedly by Enquire and NSS, the quiz was hosted by Abhinav K of NSS who, being a quizzer himself, has been associating with our club for quizzes in the past year. The quiz was widely accepted by the participants and gathered positive response from the LGBTQ community.

### **QFlix (25<sup>th</sup> July - 3<sup>rd</sup> August 2022)**

Towards the end of the summer break, our club conducted a week-long online movie series quiz 'QFlix' based on the trending series on the OTT platforms. The club wholeheartedly welcomed the overwhelming responses from the movie buffs for the event, which helped extend its popularity.

By the end of this event, Enquire has entered into the offline quizzing arena that has been long dormant due to online semesters.

### **Tathva '22 Quiz Festival (21<sup>st</sup> - 23<sup>rd</sup> October 2022)**

As a part of our annual techno-management fest, our club in collaboration with Tathva '22 successfully conducted 7 events (6 quizzes and a quizzing workshop). The quizzes - school level, college level, and open, received national attention and brought in students from IITs,

NITs, IIMs, and other colleges to the face of Tathva. Tathva quizzes have been a part of Enquire's legacy and this year was no different.

## **10.3.8 INDIAN SOCIETY FOR TECHNICAL EDUCATION NITC STUDENTS' CHAPTER**

The Indian Society for Technical Education is a national non-profit organization which advocates technical development and personal growth, in creative and innovative ways. As the NIT Calicut students' chapter of ISTE, we practice these values by conducting various events for students at school and college levels. Our motto is that growth happens over time, not overnight.

ISTE's primary focus this year was on improving its relationship with other student chapters of ISTE on digital platforms and delivering quality content online. We are also on our path in releasing our new website and consistently put forth creative and innovative events and content to engage their audience.

- **Tango** - an offline fun filled event in collaboration with Club Mathematica, and IPF was conducted on April 2022. ISTE hosted a fun SharkTank event involving radical ideas and quirky presentation. The event was coordinated such that each club hosting different levels of the event, where IPF conducted the first event, and the selected participants moved to ISTE's event, and finally gave the selected participants to Club Mathematica.

- **Techquila** - This year, ISTE started putting out weekly articles on Techquila. These articles revolve around a multitude of topics covering science, technology, art and more.
- **Inductions** – A brand new year brought a brand-new wave of fresh faces to our student chapter. Inductions were conducted as per tradition and interviews throughout the course of 2 days allowed us to help our juniors find their perfect fit here at ISTE NITC
- **Inquisito** – In collaboration with Tathva'22, ISTE NITC conducted Inquisito, a game of Sherlockian wits. A team event with cross-college teams, participants were given a chance to look for clues and solve a proper mystery. It involved a pen and paper round, a round for clue collection, and a final round of arriving at a prime suspect. The event turned out to be a success.
- **Blog Collaboration with ISTE NITK** – A collaboration with ISTE NITK was kickstarted for the purpose of releasing a series of blog posts with writers and the websites of the two clubs coming together to post articles on platforms of both clubs. A good association was hence possible, with a Techquila article named The Human Condition coming out as the first of many.
- **Algorythm** – As yet another collaboration with ISTE NITK, Algorythm was a 3-day extravaganza for coding fanatics. The first day saw a Capture the Flag event designed around coding challenges, followed by a DSA contest on the second day, and the curtain was closed by Kagglethon, a machine learning hackathon.

With new challenges in place, ISTE has proven to have risen to the occasion and have found new paths and collaborations to mark their presence. The will, determination and bond shared by the executives have continued to push ISTE forward and will continue to motivate them to achieve their vision. A wave of fresh faces also brings numerous potential and talent into the club to continue its fruitful activities

#### 10.4 TATHVA

Tathva'22, one of South India's biggest techno-management fests, organized by NIT Calicut, Techno Odyssey, this year's theme, showcases the transition from retro to futuristic technology. The international IT Tech-giant Cisco, is the title sponsor of Tathva'22.

The event was officially inaugurated on 20/10/2022 Thursady at 6 pm in the presence of an august audience. Mr. James Thomas, the vice president of SAP Success Factors India, an alumnus of NITC was the chief guest for the inaugural ceremony. He encouraged the youth to act towards a positive change through their ingenious ideas. Dr. Prasad Krishna, Director NIT Calicut delivered the presidential address.

The opening day marked the introduction to Tathva lectures and workshops. Dr. C. S. Shaijumon, associate professor and a scholar at IIST, delivered an insightful lecture on the structure and growth of the Indian Space Economy, to young inspiring minds. Priyanka Kasture, the founder of 'Age of Geeks' gave an engaging talk about the 'Confluence of Education and Social Media'. Various workshops featuring Game Development, Python Programming, Cybersecurity, and robotics workshops, were the centre of attraction of Tathva'22. The onset of Tathva'22 also witnessed 'Wheels', an auto expo displaying the finest automobiles featuring exotic sports cars and bikes like Lamborghini, Ferrari, and Ducati. The act of stunt artists impressed the auto-enthusiasts. 'Robowars'- South India's largest robot combat competition was another striking event where robots clashed for triumph. 'GSM Labyrinth'- the bot racing competition, attracted huge crowds.

For the second day of Tathva'22, October 22, Grace Murray Hopper award winner and the founder of Free software foundation, Dr. Richard Stallman interacted with the students.

Day 2's proshow were feature South India's most iconic band, Thaikkudam Bridge, bollywood singer, Nakash Aziz and a young presence in the pop music scene - Zephyrtone.



The second day of Tathva'22, the annual techno-management fest of NIT Calicut, showcased many intriguing events that captured the attention of the students as well as public. This year the Tathva is based on the concept of Techno Odessey which stands for technological growth

The day commenced with robowars, a rigorous battle between robots which enthralled the crowds & all the robo-enthusiasts. Teams from all across the world participated in this robotics event.

An eye-opening lecture by Richard Stallman, founder of GNU and Free Software foundation, brought awareness among the students by highlighting the injustices in the computing world.

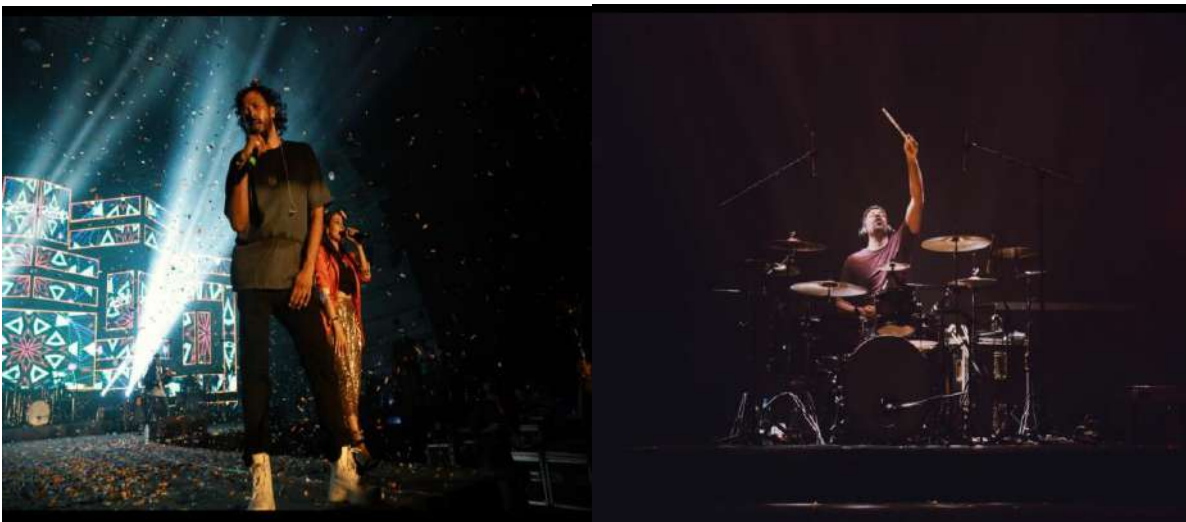
Further insightful lectures on the confluence of education and social media, problem solving in the real world, sustainable blockchain technology and future, analysing marketing in the age of data driven technology and journey entrepreneurship were given by proficient speakers. These speeches stood out from the normal convention in terms of conduct, concept and compilation.

Students from various colleges across the country participated in various events like competitions on aircraft making called Albatross, wiring/non-wiring bot making called Accelerobotx and hovercraft creation called Hover Drive.

That eventful day ended with a much awaited proshow with top singers such Nakash Aziz, who stole Indian hearts with his songs and India's youngest edm pop duo Zephyrtone. That day finally ended with an indelible performance by heartthrob band Thaikkudam bridge.

The third day witnessed the final rounds of robowar event, 'Accelerobotx', the coding contest 'Shell Seige' and 'DeBugger'. Expositions by the Indian Army, Navy and Airforce showcased various weapons for public display. Multiple exhibitions on virtual reality and robotics were also showcased.

The finals of 'E-Racer' and 'Circuit race', organised by the circuit branches also generated large interest and were well attended. Quizzes by one of India's best quiz master, Major Chandrakant Nair pulled a good crowd. The crowd-favorite event of the day was the treasure hunt, which had students bring out their inner explorers to try and find the 'treasure'.



The event concluded with the much awaited proshow by the performance of the popular Bollywood singer, Shreya Ghoshal, marking her 20th year in the industry. The performance of DJ Shaan followed mesmerised the audience which marked the end for Tathva 2022

### **10.5 RAGAM**

The flagship cultural fest "Ragam" was organized with great enthusiasm and passion. This event showcased the complete potential of the festival, offering a diverse range of cultural performances, competitions, and workshops.

#### **Ragam '23 Quiz Festival (10<sup>th</sup> - 12<sup>th</sup> March 2023)**

This Ragam '23, our club successfully conducted 4 quizzes, both college level and open, as a part of the annual cultural festival. From starting as 'Crossroads', Kerala's first quiz festival by Enquire in 2004, to being the core of Ragam, enquire continues to associate with Ragam to sustain the legacy of 19 years.

#### **College General Quiz (11<sup>th</sup> March 2023)**

Our club conducted the much-awaited College General Quiz on the Day 2 of Ragam '23. Hosted by two of Enquire's proud alumni, Ashwin Menon and Shafeeq Syed, the quiz encompassed a wide range of topics. The quiz presented a formidable challenge to the finalists and captivated the audience in a thrillingly close finish on the podium.

### **College Sports Quiz (11<sup>th</sup> March 2023)**

The Day 2 of Ragam '23 also witnessed **College Sports Quiz**, set and conducted by our club. Hosted by Team Enquire - Nikhil Sreeraj and Abhiram K R, the quiz offered questions from a variety of sports and challenged the participants' knowledge of their most enjoyed pastime. The audience took delight in the series of interesting questions and had a blast exploring the marvellous world of sports. The prelims question set of College Sports Quiz can be viewed **here**.

### **Open General Quiz (12<sup>th</sup> March 2023)**

Welcoming some of the best quizzers of the country, Enquire Quiz Club organized an **Open General Quiz** on the Day 3 of Ragam '23. Mr. Nithish T Jacob, the founder of **Q Collective**, was the quizmaster for the day and presented a brilliant set of intriguing questions. The event proved to be a delightful experience for all, as it provided an opportunity to learn and discover new and relevant information.

### **Open Mela Quiz (12<sup>th</sup> March 2023)**

Despite being the final event of Ragam '23, the **Open MELA Quiz** conducted by Enquire did not fail to entertain as it brought together veteran quizzers facing each other in the ultimate showdown. Arun A S, a seasoned quizzer took on the role of the quizmaster as he presented 5 skilfully crafted themed rounds that delved into the vast realm of entertainment throughout the years. The evening was an enjoyable time from start to finish as its blended entertainment with a valuable learning experience.

College Mela Quiz Ragam '23, NIT Calicut - **2<sup>nd</sup> position**

College General Quiz Ragam '23, NIT Calicut - **4<sup>th</sup> position**

Open General Quiz Ragam '23, NIT Calicut - **Finalists**

Open Mela Quiz Ragam '23, NIT Calicut - **Finalists**

### **RAGAM Workshop - March 2022**

In celebration of the cultural festival at NIT Calicut, we have organized an informative session on 3D printing and additive manufacturing for the students. The event was conducted in association with Mr. Sivakumar Paneerselvan, who is the technical head at KARO 3D, a prominent name in the field of additive manufacturing. The session proved to be an engaging and interactive platform for the students to explore the world of 3D printing and understand its potential for growth in the future. The attendees actively participated in the discussion, sharing their thoughts and perspectives on the subject matter. Overall, the event was a great success, leaving the students with a better understanding of this rapidly growing field and its impact on various industries.

## **11 THE PARENT TEACHER ASSOCIATION**

CREC Parent –Teacher Association had originated as a charitable society keeping the objective of developing the educational, cultural, and training activities of students of CREC (presently NIT Calicut, NITC)) on a no-profit no loss basis. During the year 2021-22, PTA provided financial assistance to many needy students of NITC. Some of the major activities are listed below.

1. Cash awards (Rs. 5,000/- each) were given to all the branch toppers in the month of September 2021. An amount of Rs. 2,05,000/- was utilized for this purpose.
2. Scholarships were given to financially needy students to help their tuition fees. An amount of Rs.339417/- was utilized for this purpose.

3. Registration fees were given to students for presenting papers in international conferences held in India. Total amount of Rs. 5000/- was awarded from the PTA fund.
4. The annual department level PTA meeting was held on 10-07-2021 by online mode and the meeting was well attended and served as a platform for useful discussion between parents and the faculty members.

**ANNUAL ACCOUNTS**  
**2022-2023**



**NATIONAL INSTITUTE OF TECHNOLOGY, CALICUT**

**ANNUAL ACCOUNTS 2022-23**

**NATIONAL INSTITUTE OF TECHNOLOGY, CALICUT**  
BALANCE SHEET AS AT 31.03.2023

		(Amount in Rupees)		
SOURCES OF FUNDS	Schedule	Current Year	Previous Year	
CAPITAL FUND	1	6,96,26,27,464.80	5,58,36,87,973.71	
DESIGNATED/EARMARKED/ENDOWMENT FUNDS	2	1,65,50,48,187.60	1,46,84,36,291.60	
GPF & CPF	2A	38,59,12,629.54	38,19,92,287.54	
LONG TERM LIABILITIES	3D	43,67,47,178.00	51,95,15,578.00	
CURRENT LIABILITIES & PROVISIONS	3	1,21,34,97,238.73	1,71,31,57,573.34	
RESERVES AND SURPLUS		-	-	
<b>TOTAL</b>		<b>10,65,38,32,698.67</b>	<b>9,66,67,89,704.19</b>	
<b>APPLICATION OF FUNDS</b>				
<b>FIXED ASSETS</b>				
Tangible Assets		3,24,55,69,448.36	3,14,58,27,149.79	
Intangible Assets	4	5,62,48,207.64	3,32,18,694.92	
Capital Work-In-Progress		98,82,57,475.00	97,77,96,239.00	
<b>INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS</b>				
Long Term	5	1,65,37,77,505.00	85,99,74,638.00	
Short term		-	-	
<b>INVESTMENTS- OTHERS</b>	6	-	-	
<b>CURRENT ASSETS</b>	7	3,84,70,55,517.25	3,75,61,32,404.60	
<b>LOANS, ADVANCES &amp; DEPOSITS</b>	8	86,29,24,545.42	89,38,40,577.89	
<b>TOTAL</b>		<b>10,65,38,32,698.67</b>	<b>9,66,67,89,704.19</b>	

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SIGNIFICANT ACCOUNTING POLICIES

24

CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS

*R. Rasheed*

*[Red Signature]*



निदेशक  
Director  
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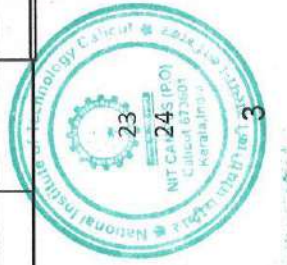
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# NATIONAL INSTITUTE OF TECHNOLOGY, CALICUT

## INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2023

PARTICULARS		Schedule	Current Year	Previous Year
(Amount in Rupees)				
<b>INCOME</b>				
Academic Receipts	9		53,30,23,552.55	43,78,78,326.97
Grants/Donations/Subsidies	10		1,83,63,91,309.00	1,50,56,29,297.00
Income from investments	11		11,36,44,407.00	7,34,28,759.00
Interest earned	12		2,73,35,107.00	3,35,15,891.00
Other Incomes	13		13,05,21,247.50	2,31,47,413.50
Prior Period Income	14		1,15,52,872.00	16,44,31,638.96
<b>TOTAL (A)</b>			<b>2,65,24,68,495.05</b>	<b>2,23,80,31,326.43</b>
<b>EXPENDITURE</b>				
Staff Payments & Benefits (Establishment expenses)	15		1,28,68,97,394.00	1,27,38,54,147.00
Academic Expenses	16		27,88,69,564.04	30,31,88,579.44
Administrative and General Expenses	17		12,84,94,483.10	5,51,26,859.00
Transportation Expenses	18		19,17,476.00	13,38,252.00
Repairs & Maintenance	19		12,62,15,799.68	7,32,50,307.00
Finance costs	20		3,52,79,992.00	4,25,77,225.25
Depreciation/Amortization	4		17,52,21,287.69	12,95,97,154.47
Other Expenses	21		-	5,70,43,967.56
Prior Period Expenses	22		48,17,802.45	1,07,39,722.11
<b>TOTAL (B)</b>			<b>2,03,77,13,798.96</b>	<b>1,94,67,16,213.83</b>
<b>Balance being excess of Income over Expenditure (A-B)</b>			61,47,54,696.09	29,13,15,112.60
Less/(Add): Unutilised Non Plan Grant transferred to Liabilities/ (Assets)	3C			
Foreign Exchange gain/ loss				
Add: Transfers from Capital Grants			11,09,79,080.41	8,99,16,838.00
<b>Balance Being Surplus / (Deficit) Carried to Capital Fund</b>			<b>72,57,33,776.50</b>	<b>38,12,31,950.60</b>

**SIGNIFICANT ACCOUNTING POLICIES  
CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS**



  
कलसचिव  
Registrar  
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National Institute of Technology Calicut  
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**निदेशक**  
Director  
राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
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**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31.03.2023**

**SCHEDULE -1 CAPITAL FUND**

Particulars	(Amount in Rupees)	
	Current Year	Previous Year
Balance at the beginning of the year	5,58,36,87,973.71	5,19,81,89,588.11
Add: Contributions towards Capital Fund	1,20,45,840.00	-
Add: Grants from UGC, GOI & State Govt. to the extent utilized for capital expenditure	28,58,00,000.00	7,44,00,000.00
Add: Assets purchased out of earmarked funds	-	-
Add: Assets purchased out of Sponsored Projects, where ownership vests in the institution	3,17,29,093.00	79,25,507.00
Add: Assets donated/Gifts received	-	-
Add: Interest on Term Deposits and Savings account	-	0.00
Less: Bank charges	-	-
Less: Transfer to earmarked funds - TEQIP	-	-
Add/(Less): Excess/(Deficit) of Income over Expenditure transferred from Income and Expenditure account	72,57,33,776.50	38,12,31,950.60
<b>Total</b>	6,63,89,96,683.21	5,66,17,47,045.71
Less/ (Add): Unspent Plan Fund transferred to Liabilities	(47,98,16,429.00)	(1,18,57,766.00)
Less: Transfers from Capital Fund	15,61,85,647.41	8,99,16,838.00
<b>Balance at the year end</b>	<b>6,96,26,27,464.80</b>	<b>5,58,36,87,973.71</b>



*(Signature)*  
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Registrar

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*(Signature)*

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SCHEDULE 2 – DESIGNATED/EARMARKED/ENDOWMENT FUNDS

Particulars	(Amount in Rupees)											TOTAL				
	TECIP	TECIP-II	TECIP-I (Furniture)	TECIP-I (Research)	TECIP-III	FBS	GROWTH FUND	STUDENTS FUND	GYMKHANA	TBI	TB-II		TB-I/IDBI/DBALAC	H.W.D	Endowment	Current Year
<b>A.</b>																
a) Opening balance of the funds	23,54,832.00	3,94,391.00	0.00	1,18,79,744.00	7,33,488.00	62,624.00	1,37,64,839.696.40	4,07,49,404.20	4,15,307.00	1,76,47,793.00	48,36,194.00	1,16,85,894.00	26,85,448.00	-	1,46,94,05,293.60	1,15,07,37,785.26
b) Additions during the year	-	-	-	-	20,225.00	-	3,31,62,500.00	2,03,27,277.00	33,03,927.00	54,50,482.00	0.00	30,12,947.00	0.00	-	6,52,77,353.00	3,71,89,479.00
c) Income from investments made out of funds	-	-	-	-	-	-	17,07,09,394.00	55,912.00	-	2,83,771.00	-	-	-	-	17,10,47,077.00	3,10,02,845.00
d) Accrued interest on Investments/Advances	-	-	-	-	-	-	-	-	-	41,888.00	-	-	-	-	41,888.00	6,67,67,076.00
e) Interest on Savings Bank, etc	-	-	-	1,66,096.00	-	-	54,11,758.00	-	-	-	-	-	-	-	55,77,854.00	1,10,47,886.00
f) Other additions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total(A)</b>	<b>23,54,832.00</b>	<b>3,94,391.00</b>	<b>0.00</b>	<b>1,20,45,840.00</b>	<b>7,53,694.00</b>	<b>62,624.00</b>	<b>1,58,57,23,348.40</b>	<b>6,06,32,593.20</b>	<b>37,19,224.00</b>	<b>2,34,21,436.00</b>	<b>48,56,194.00</b>	<b>1,46,99,841.00</b>	<b>26,85,448.00</b>	<b>-</b>	<b>1,71,13,49,466.60</b>	<b>1,49,71,25,172.26</b>
<b>B.</b>																
Utilisator/Expenditure towards objective: Funds																
I) Capital Expenditure	-	3,94,391.00	-	1,20,45,840.00	-	-	-	-	-	-	-	-	-	-	1,24,40,231.00	6,51,000.00
II) Revenue Expenditure	-	0.00	-	-	7,53,694.00	-	1,00,000.00	2,79,05,187.00	11,534.00	32,86,129.00	-	1,18,37,238.00	67,330.00	-	4,39,65,047.00	2,80,37,881.00
<b>Total(B)</b>	<b>-</b>	<b>3,94,391.00</b>	<b>-</b>	<b>1,20,45,840.00</b>	<b>7,53,694.00</b>	<b>-</b>	<b>1,00,000.00</b>	<b>2,79,05,187.00</b>	<b>11,534.00</b>	<b>32,86,129.00</b>	<b>-</b>	<b>1,18,37,238.00</b>	<b>67,330.00</b>	<b>-</b>	<b>5,63,01,278.00</b>	<b>2,86,88,881.00</b>
<b>C.</b>																
Amount paid back to the authority																
<b>Total(C)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.00</b>	<b>0.00</b>
<b>Closing balance at the year end (A-B)</b>	<b>23,54,832.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>62,624.00</b>	<b>1,58,55,23,348.40</b>	<b>3,28,27,406.20</b>	<b>37,07,690.00</b>	<b>2,03,35,307.00</b>	<b>48,56,194.00</b>	<b>28,62,588.00</b>	<b>26,18,194.00</b>	<b>-</b>	<b>1,65,50,48,187.60</b>	<b>1,46,84,36,291.50</b>

NOTE: In financial year 2024-27, Mediclaim was shown in the Growth Fund now it is reclassified under Current liability/Opening balance difference in Growth Fund is 969002.34



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 कलसचिव  
 Registrar

निदेशक  
 Director  
 राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
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**SCHEDULE 2(A) GPF & CPF**

	GPF	CPF	TOTAL	
			Current year	Previous year
<b>A.</b>				
a) Opening balance of the funds	36,88,80,689.72	1,31,11,597.63	38,19,92,287.54	36,17,39,975.35
b) Additions during the year	4,18,47,149	10,17,18,501	14,35,65,650	12,83,78,234.00
c) Income from investments made out of funds	3,19,02,231.00		3,19,02,231.00	2,13,74,184.00
d) Accrued interest on investments/Advances				
e) Interest on Savings Bank A/c	8,72,118		8,72,118	13,70,449.00
f) Other additions				
<b>Total(A)</b>	<b>44,35,02,187.72</b>	<b>11,48,30,098.63</b>	<b>55,83,32,286.35</b>	<b>51,28,62,842.35</b>
<b>B.</b>				
Utilisation/Expenditure towards objectives funds				
i) Capital Expenditure				
ii) Revenue Expenditure	7,36,70,670.00	9,87,48,987	17,24,19,657.00	13,08,70,555.00
<b>Total(B)</b>	<b>7,36,70,670.00</b>	<b>9,87,48,987</b>	<b>17,24,19,657.00</b>	<b>13,08,70,555.00</b>
<b>Closing balance at the year end (A-B)</b>	<b>36,98,31,517.72</b>	<b>1,60,81,111.63</b>	<b>38,59,12,629.54</b>	<b>38,19,92,287.54</b>



*(Handwritten Signature)*  
 कलमचिव  
 Registrar

*(Handwritten Signature)*  
 निदेशक  
 Director

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**SCHEDULE 3 - CURRENT LIABILITIES & PROVISIONS**

(Amount in Rupees)		
Particulars	Current Year	Previous Year
<b>A. CURRENT LIABILITIES</b>		
1. Deposits from staff		3,36,59,214.00
2. Deposits from students		
3. Sundry Creditors		
a) For Goods & Services	41,463.00	41,463.00
b) Others	10,94,483.00	10,94,483.00
4. Deposits - Others (including EMD, Security Deposit)	6,13,91,611.90	6,07,81,517.60
5. Statutory Liabilities (GPF, TDS, WC TAX, CPF, GIS, NPS):		
a) Overdue		
b) Others	19,01,002.84	15,40,690.64
6. Other current Liabilities		
a) Salaries		
b) Receipts against sponsored projects	14,10,63,383.43	17,56,47,320.03
c) Receipts against sponsored fellowships & scholarships	4,20,97,104.94	4,21,73,766.44
d) Unutilised Grants	2,62,73,376.99	51,69,53,569.00
e) Grants in advance		
f) Tuition fee	46,15,975.53	46,15,975.53
g) Other liabilities	12,02,91,071.10	13,33,40,928.10
<b>Total (A)</b>	<b>44,09,99,186.73</b>	<b>96,98,48,927.34</b>
<b>B. PROVISIONS</b>		
1. For Taxation		
2. Gratuity	30,87,93,151.00	27,20,04,846.00
3. Superannuation/Pension	0.00	0.00
4. Accumulated Leave Encashment	31,45,67,047.00	33,05,68,616.00
5. Expenses payable	14,91,37,854.00	14,07,35,184.00
6. Trade Warranties/Claims		
7. Others		
<b>Total (B)</b>	<b>77,24,98,052.00</b>	<b>74,33,08,646.00</b>
<b>Total (A+B)</b>	<b>1,21,34,97,238.73</b>	<b>1,71,31,57,573.34</b>

*R.Rasheed*

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**SCHEDULE 3A- SPONSORED PROJECTS**

1.Sr. No	2. Name of the Project	Opening Balance		5. Receipts during the year	6. Total	7. Expenditure during the year	Closing Balance	
		3. Credit	4. Debit				8. Credit	9. Debit
1	Linear & Non Linear Optical (Dst)		11,153.00	5,34,377.00	5,23,224.00	5,23,224.00		
2	Stable Isotopic Investigation	1,98,524.00		2,067.00	2,00,591.00	2,00,591.00		
3	Experimental Investigation	2,60,895.00		2,835.00	2,63,730.00	2,63,730.00		
4	Development Of Transparent Conducting Polymer Films For Electrode							
5	Information Security Education							
6	Multifunctional Plasmonic Nanoparticles - Nano Composites - Targeted Drug Delivery	5,429.00		5,724.00	11,153.00	11,153.00		
7	Strengthen The Research Facilities In Networking And Security Area	100.00			100.00	100.00		
8	DR.ELIZABETH ELIAS SMDP. II SPEC.	3,98,311.00		5,767.00	4,04,078.00	4,04,078.00		
9	Enhancement Of The Sensivity Of Peptide Nanotube Based Biosensors ....	18,808.00		1,797.00	20,605.00	20,605.00		
10	Development Of An Interoperable Spatial Database Of Road Network For Cit	14,55,515.00		3,41,494.00	17,97,009.00	87,329.00	17,09,680.00	
11	Fast Development Of Chitosan Reinforced Polymer Nanocomposites	8,914.00		329.00	9,243.00	9,243.00		
12	Development Of Tools & Techniques For Modeling & Analysis	31,60,016.00		6,35,657.00	37,95,673.00	37,95,673.00		
13	Strengthen The Research And Post Graduate In Area Power Quality							
14	Thermo Responsive Ion Track Membrane	2,168.00			2,168.00	2,168.00		
15	Fast Track Project Treatment Of Effluent Using Biomembran Techniques		2,02,140.00	2,02,140.00				
16	Synthesis And Grafting Of Thermo Responsive Hydrogels On Nano Porous Membranes- Irradiation-Drug			5,574.00	95,922.00	95,922.00		
17	Design Development And Optimization Of Miniature And Micro							
18	Fast Track Development Of An Extractive Fermentation Process For Enhanced Alkline Phosphatase	12,863.00		2,209.00	15,072.00	2,064.00	13,008.00	
19	Molecular And Functional Characterization Of Putative Zingiber Zerumbt-Ginger		6,496.00	7,096.00	600.00	600.00	600.00	
20	Regulation Of L- Sorbose Utilization In Human Fungal Pathogen Candida Albicans							
21	Molecular Cloning And Characterization Of Terpene Synthas-Zingiber Zerumbet	1,00,990.00		13,335.00	1,14,325.00	1,14,325.00		



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22	Simulation Of Solid Rocket Exhaust Plumes	-	-	-	-	-	-	-	-	-	-	-
23	Devilmt. Of Activity Based Models For Forecasting Of Travel Demand	-	-	-	-	-	-	-	-	-	-	-
24	Development Of A Toolbox For Evaluation And Identification Of Urban Road Safty Improvement Measures	-	-	-	-	-	-	-	-	-	-	-
25	Investigation Of Distributed Generation Strm. Integration	-	-	-	-	-	-	-	-	-	-	-
26	Identification And Characterization Of Phytochemicals From Indian Medicinal Herbs	-	-	-	-	-	-	-	-	-	-	-
27	Design & Devlp. Of Electro-Magnetically Driven Miniature- Ir Sensor Array Phase I	236.00	20.00	256.00	35.00	221.00	-	-	-	-	-	-
28	Development Of Pro-Fluorophore Scaffolds To Probe Peptide Aggregation And-Transition	7,64,819.00	8,44,259.00	16,09,078.00	16,09,078.00	-	-	-	-	-	-	-
29	Study On Long Term Performance Pavements With Coir Geotextiles	23,26,166.00	67,241.00	23,93,407.00	5,22,643.00	18,70,764.00	-	-	-	-	-	-
30	Use Of Coir Pith For Airport Soft-Ground Arrestor System	-	77,134.00	74,769.00	25,886.00	48,883.00	-	-	-	-	-	-
31	Pufa Therapy Ameliorates Cognitive Impairment And Mitochondrial Dysfunction In Caeno	-	-	-	-	-	-	-	-	-	-	-
32	Productivity Monitoring And Wage Analysis For Nreg Works	1,670.00	331.00	2,001.00	50.00	1,951.00	-	-	-	-	-	-
33	Production Management System	3,910.00	217.00	4,127.00	-	4,127.00	-	-	-	-	-	-
34	Establishment Of Bif - Btbi	389.00	2.00	391.00	391.00	-	-	-	-	-	-	-
35	Electron C Structure Studies Of Adsorption Of Unsaturated Hydrocarbons	-	-	-	-	-	-	-	-	-	-	-
36	Combination Of Therapy In Ischemic Cavity - Enhanced Absorbition Spectroscopy For Trace Gas	722.00	46.00	768.00	768.00	-	-	-	-	-	-	-
37	Pollutant Monitoring	2,489.00	68.00	2,557.00	-	2,557.00	-	-	-	-	-	-
38	Novel Functionalized Porphyrinic Coordination Arrays, Polymers And Frameworks	-	17,369.00	4,025.00	4,025.00	-	-	-	-	-	-	-
39	Tunable Hierarchical Zeolites Using Polymer Macro-Theoretical Study Onysis By Methane Mono-Oxygenase The	-	13,344.00	-	-	-	-	-	-	-	-	-
40	Enzymatic Castal	-	-	-	-	-	-	-	-	-	-	-
41	Novel Triazole Bridged Metalloporphyrins Formed Via Click Chem.	-	40,792.00	-	-	-	-	-	-	-	-	-
42	Nonlinear Analysis Of Eeg Signals Of Patients With Alzheimer's Disease	8,63,158.00	48,788.00	9,11,946.00	9,09,255.00	2,691.00	-	-	-	-	-	-
43	Design Uranium Based Catalyst For Activation And Functionalisation A Computational Quantum	-	-	-	-	-	-	-	-	-	-	-
44	Design And In Vitro Evaluation - Hif Prohyl Hydroxylase	12,088.00	12,160.00	24,248.00	24,248.00	-	-	-	-	-	-	-
45	Oleamide As Novel Neuroprotectant Against Ischemic Stroke	6,503.00	55,954.00	62,457.00	62,457.00	-	-	-	-	-	-	-



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46	Assessment Of Effectiveness Of Nh-47 Gye Pass Road In Coimbatore (Los)	1,25,295.00			35,410.00	1,60,705.00	-	1,60,705.00
47	Biodegradability Enhancement Of Low Density Polyethylene By Using Biopolymer Nano-		6,16,139.00		6,99,793.00	83,654.00	14,804.00	68,850.00
48	Nrb Project - Design And Development Of A Protocol Stack For Underwater.	17,698.00			10,000.00	27,698.00	27,698.00	-
49	Project Antibiotics Removal From Waste Water							
50	A Genetic Approach Towards Understanding	4,26,645.00				4,26,645.00	4,26,645.00	-
51	Fest Track Project	3,04,647.00			643.00	3,05,290.00	3,05,290.00	-
52	Poly (3,4-Ethylenedioxythiophene ) Poly (Methyl Methacrylate)		2,87,035.00		3,19,741.00	32,706.00	-	32,706.00
53	Investigation On Bio-Hydrogen Production By Thermo-Chemical Method	1,66,938.00			26,695.00	1,93,633.00	-	1,93,633.00
54	Centre For Transportation Research	40,63,093.25			76,408.00	41,39,501.25	12,76,522.00	28,62,979.25
55	Development Of Distable Memory Devices Based On Organic Semi-Conductors	5,52,686.00			92.00	5,52,778.00	5,52,778.00	-
56	Rational Design And Synthesis Of Metalloporphyrin-Lanthanoid Hybrid Material For Dna Binding	13,85,798.00			1,577.00	13,87,375.00	13,87,375.00	-
57	Photo Switchable K Ion Channel Blockers	19,972.00			2,427.00	22,399.00	-	22,399.00
58	Experimental And Deterministic Model Studies In Regeneration Of Microbial Biosorbents After Heavy Metal Desorption	19,603.50			47.50	19,651.00	19,651.00	-
59	Devt Of Low Cost Elastomeric Fullerene Derivatives Using Electron And Gamma Irradiation For Organic Electronic Applications	6,29,407.00			1,95,221.00	8,24,628.00	8,01,264.00	23,364.00
60	Design And Implementation Of Secure Communication System	8,059.00			1,303.00	9,372.00	-	9,372.00
61	Inhibition Of Mitochondrial Dynam In Relates Protein One	1,907.00			11.00	1,918.00	1,918.00	-
62	High Energy Density Photochemical Fules Based On Nanomaterial Hybrids	496.00			12.00	508.00	-	508.00
63	Transparent Flexible And Conducting Electrodes Based On Graphene- Nanometal Hybrids		7,60,445.00		7,61,524.00	1,079.00	-	1,079.00
64	Ruthenium (II) Osmium (II) And Gold (I) Alkaloids: Active Targets For Dna Intercalation Interactions	11,82,628.00			43,679.00	12,26,307.00	11,86,432.00	39,875.00
65	Investigation Of Optical Nonlinearity By Defect State In One Dimensional Photonic Crystals		13,121.00		15,229.00	2,108.00	17.00	2,091.00
66	Characterizing The Interactions Of Chlorpromazine With The Mitotic Kinesin Eg5 And Tublin							
67	Design And Fabrication Of Anechoic Test Facility And Characterization Of Acoustic Emission From Airfoils In Flow Field	65,384.00			12.00	65,396.00	65,000.00	395.00



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68	Ultrasensitive, Rapid & Low Cost Detection Of Cancer Biomarkers	377.00			48.00	425.00	-	425.00
69	Development Of Nanocomposites Ethylene	6,61,747.00			37,399.00	6,99,146.00	30,000.00	6,69,146.00
70	Investigation-Scrap Tyre Shreds -Cement Concrete	62,308.00			-	62,308.00	-	62,308.00
71	Investigation Of Performance	-			-	-	-	-
72	Development Of Attached Media-Treatment Of Domestic-Coir Geotextiles.	61,301.00			28,357.00	89,658.00	89,658.00	-
73	Studies On Ground Water Pollution By Heavy Metal Disch & Ex	37,247.00			7,877.00	45,124.00	45,124.00	-
74	Investigation On Power Quality Issues Of Drives	-			-	-	-	-
75	Mesophasse Formation And Characterisation Of Organised Assemblies	13,386.00			2,985.00	16,371.00	244.00	16,127.00
76	Stand. Of Engi. Properties	-	9.00		9.00	-	-	-
77	Implementation Of Multy.	-			-	-	-	-
78	Seismic Evaluation Of Existing Multy - Storey Buildings In Kozhikode Dist.	-			-	-	-	-
79	Development Of Risk Management Tool In Green Construction Sites	-			-	-	-	-
80	Transcript Profiling Of Differentially Expr.	-	20,000.00		20,000.00	-	-	-
81	Experimental Investigation For Potential Use Of Coir Path In Making Value Added Products	-			-	-	-	-
82	Development Of Intelligent Robot For Fault Diagnosis Of Power	12,679.00			1,403.00	14,082.00	7,200.00	6,882.00
83	Low Density Polyethylene / Nanochitosan Biodegradable Films For Food-	33,804.00			43,158.00	76,962.00	76,962.00	-
84	Development Of Low Cost Polymer Electrolyte Membranes	4,06,866.00			1,555.00	4,08,421.00	4,08,421.00	-
85	Investigation On Absorption Of Flouride From Water Using Nano Material	-			-	-	-	-
86	Comprehensive Computational Analysis Of Anti- Diabetic Phytotherapeutics	2,87,726.00			-	2,87,726.00	2,87,726.00	-
87	Flexible Nanomaterial Doped Polymer Dispersed Liquid Crystal (Pdlc) Devices For Switchable Window Applications	-	9,97,824.00		11,01,573.00	1,03,749.00	1,03,749.00	-
88	Devl And Analysis Of Model For Green Operations In Supply Chain Management	-			-	-	-	-
89	Enhancement Of Third-Order Optical Nonlinearity In Photonic Crystallinity For Optical Switching	14,737.00			980.00	15,717.00	15,717.00	-
90	Development Of Organic Solar Cells Based On Transition Merial Oxide Anode Buffer Layers	921.00			9.40	930.40	930.40	-
91	Temperature Dependant Optical Switch From Organized Assemblies	1,594.00			21.00	1,615.00	1,615.00	-
92	Investigation On The Application Of Catalytic Nanoparticles As Diesel	21,04,189.00			57,391.00	21,61,580.00	-	21,61,580.00



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93	Devt Of A Model Framework For Land Use Based Estimation And Prediction Of Solid Waste Generation	1,692.00			206.85	1,898.85	-	1,898.85
94	Implementation Of Habitat Devt. Prgrme. Of Three Oorus In Attapadi							
95	Investigation Over The Experimental And Mathematical Modelling Of Novel Plant Based Biosorbents For The Sequestration Of Hexavalent Chromium	8,399.00			10,143.00	18,542.00		18,542.00
96	Development Of A Hybrid Electrochemical Discharge Machine And Its Performance Analysis	2,675.00			5.00	2,681.00	2,681.00	
97	Security Assessment Of Microgrids In Isolated And In Grid Connected Mode	2,57,340.00			40,968.00	2,98,308.00		2,98,308.00
98	Setting Up Design Innovation Centre	14,90,980.00			28,247.00	15,19,227.00	8,82,204.00	6,37,023.00
99	Special Manpower Development - Chip To System Design (SMDP-C2Sd) - Department Of Electronics And Information Technology Mit	5,039.00			822.00	5,861.00		5,861.00
100	Synthesis Of Novel Electrochemical Nanoparticles And Nanocomposites For Fuel Cell Application	13,853.00			1,169.00	15,022.00		15,022.00
101	Development Of Recombinant Phages For Paucimobilis Of Gellan Gum Production..... Delivery System	35,346.00			14,416.00	49,762.00		49,762.00
102	Power Electronics For Grid Connected Renewable Energy System Under Nampet Phase II	2,99,884.00			1,20,225.00	4,20,109.00	300.00	4,19,809.00
103	Production Of Bio Diesel From Chlorobella Vulgaris	81,374.00			1,725.00	83,099.00	22,772.00	60,327.00
104	Investigation Over The Experimental and Mathematical Modelling Of Aerosols In the Kde Dist.	1,18,026.00			3,098.00	1,21,124.00	4,464.00	1,16,660.00
105	Development Of Cost Effective 3-Axis Intelligent Platform Stabilization System"	1,70,171.00			9,410.00	1,79,581.00		1,79,581.00
106	Inspire Faculty/Ced - Inspire Research Project		2,053.00		8,722.00	6,669.00		6,669.00
107	Strength Improvement Of Locally Available Soft Clays In Construction Of Highways Using Lime-Enzymatic		79,093.00		80,612.00	1,519.00	1,519.00	
108	Development Of Advanced Fibre Reinforced Polymer Nanocomposites For		2,15,925.75		2,16,193.00	267.25		267.25
109	DEVELOPMENT OF STABLE NANOFUIDS..... THERMAL POWER PLANTS	30,52,748.00			29,48,182.00	60,00,930.00	44,22,314.00	15,78,616.00
110	DEVELOPMENT OF SMART CONTROLLER FOR SWITCHED RELUCTANCE MOTOR		15,294.00		28,552.00	13,258.00		13,258.00
111	FIST PROGRAM-2015 IF DST TO STRENGTHEN THE .....MED	82,17,366.46			1,25,006.00	83,42,372.46	83,41,142.00	1,230.46
112	DEVELOPMENT OF SOLID STATE TRANSFORMER AS..... INTERFACING DEVICE	66,471.00			3,676.00	70,147.00		70,147.00
113	DEVELOPMENT OF NANO LUBRICANT FOR DIESEL ENGINE	8,59,072.00			11,174.00	8,70,246.00	8,33,719.00	36,527.00



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114	HIGH VALENT TRANS-METALLOPORPHYRINS WITH GLYCODIC LINKAGES	18,565.00		2,270.00	20,935.00	-	20,935.00
115	SYNTHESIS, CHARACTERIZATION AND APPLICATION OF NOVEL, MAGNETICALLY DESIGN, SYNTHESIS	1,599.00		44.00	1,643.00	-	1,643.00
116	AND EVALUATION OF SOLID-EMISSIVE SERB (DST) PROJ. "NAKED CARBON AS A BRIDGING A MULTI-WAVE LENGTH INTEGRATING NEPHELOMETER	5,12,990.00		44,040.00	5,57,030.00	3,83,957.00	1,73,073.00
117		2,33,011.00		19,641.00	2,52,652.00	-	2,52,652.00
118		-		-	-	-	-
119	STUDENT PROJECT (GEORGE K.V)	-		-	-	-	-
120	A MULTI-WAVE LENGTH INTEGRATING NEPHELOMETER	7,943.00		58,669.00	66,612.00	66,612.00	30.00
121	DEVELOPMENT OF STEEL FIBRE REINFORCED...SEISMIC RESISTANT DESIGN	1,974.00		24,627.00	26,601.00	26,601.00	-
122	POLYMER AND HYBRID ELECTRONICS... APPLICATIONS	4,75,142.00		21,000.00	4,96,142.00	4,69,047.00	27,095.00
123	SIMULTANEOUS REMOVAL OF ORGANIC... BIO-ELECTRO CHEMICAL CELL	(1,06,894.00)		1,42,090.00	35,196.00	34,825.00	371.00
124	MICRO-RNA-9 REGULATION OF NEURO...FOR ISCHEMIC STROKE		4,07,414.00	6,03,290.00	1,95,876.00	1,92,062.00	3,814.00
125	MS.SREEJA M "CHETAS"	3,321.00		124.00	3,445.00	3,445.00	-
126	MODEL FOR PART BASED...TRAFFIC OPERATION IN INDIA	1,67,017.00		4,796.00	1,71,813.00	-	1,71,813.00
127	DEVELOPMENT, TESTING AND STANDARDISATION OF HEAT PUMP .....THERMAL HYBRID EVAPORATORS		15,109.00	20,133.00	5,024.00	-	5,024.00
128	CAPACITY BUILDING IN DAM...REHABILITATION & IMPROVEMENT	46,35,655.00		52,30,102.00	98,65,757.00	92,36,763.00	6,28,994.00
129	CATIONIC MESOTHIENYLPORPHYRINS...DNA INTERACTION	10,855.00		-	10,855.00	10,839.00	16.00
130	TECHNOLOGICAL INNOVATION UNDER THE BANNER "BRIDGING THE INNOVATION GAP"		1,14,329.00	2,38,418.00	1,24,089.00	-	1,24,089.00
131	DR.LISA SREEJITH "MHRD SWACCHATA ACTION PLAN"	4,46,618.50		17,228.00	4,63,846.50	4,62,244.00	1,602.50
132	MHRD GIAN COURSE DR.A V BABU "KEY ENABLING OTHER PROJ.DR.SAMEER S M "HIST. PROGR OF		1,24,374.00	1,26,852.00	2,478.00	2,478.00	-
133	OTHER PROJ.DR.SANJAY P K SERB PROJ."A STUDY	17,19,866.00		13,87,457.00	31,07,323.00	27,35,142.00	3,72,181.00
134	OTHER PROJ.(SERB) DR.MI PRABHU"A LONG TERM	1,49,241.00		2,087.00	1,51,328.00	1,18,534.00	32,794.00
135	OTHER PROJ.DR.SATYANANDA PANDA "A	(244.95)		1,039.00	794.05	794.05	0.00
136	MHRD GIAN COURSE DR.SUBRAMANIAN NAMBOODIRI SERB		22,602.00	33,000.00	10,398.00	1,303.50	9,094.50
137	OTHER PROJ.DR.SUBRAMANIAN NAMBOODIRI SERB	13,96,406.00		40.00	13,96,446.00	13,94,889.90	1,556.10

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138	OTHER PROJ.DR.RAMYA K (UNDER MENTORSHIP OF	26,301.00				26,301.00		26,301.00	
139	OTHER PROJ. MS.ATHULYA DAS "INSPIRE	58,985.00			1,416.00	60,401.00	58,985.00	1,416.00	
140	OTHER PROJ.DR.DHANYA RAM V SERB	5,18,033.25			30,699.00	5,48,732.25	5,48,732.00	0.25	
141	OTHER PROJ.DR.ARUN RAJ KUMAR PARTHIBAN		23,945.00		28,042.00	4,097.00	4,097.00		
142	OTHER PROJ.DR.MAHESH KUMAR SERB		62,318.00		62,504.00	186.00		186.00	
143	OTHER PROJ.DR.ANJANA BHASI SERB	8,07,130.00			22,688.00	8,29,818.00		8,29,818.00	
144	OTHER PROJ.DR.DEEPAK LAWRENCE K SERB	2,84,008.00			7,743.00	2,91,751.00	90.00	2,91,661.00	
145	OTHER PROJ. DR.SURESH P S DBT		3,15,014.00		7,27,563.00	4,12,549.00		4,12,549.00	
146	INSPIRE FACULTY AWARD TO DR.MUNIYANDI	11,74,394.00			7,67,257.00	19,41,651.00	12,27,257.00	7,14,394.00	
147	OTHER PROJ.DR.N.SANDHYARANI DST	80,727.50			57,581.00	1,38,308.50	1,38,026.00	282.50	
148	OTHER PROJ.DR.PANNEERSELVAM RANGANATHAN	765.00			20.00	785.00		785.00	
149	OTHER PROJ.MS.AKSHAYA M V DST (WOS-B)	1,24,306.00			966.00	1,25,272.00	1,24,958.00	314.00	
150	OTHER PROJ.DR.M.A.NASEER DST TRAINING	16,573.00			453.00	17,026.00		17,026.00	
151	STUDENT PROJECT (GEORGE K.V)	5,640.00				5,640.00		5,640.00	
152	REFUNDABLE FOR WORKSHOP FROM KSEB HRM								
153	IMPLEMENTATION OF BREATH ANALYZER FOR DIABETES DETECTION"	38,01,596.50			156.00	38,01,752.50	38,01,299.00	453.50	
154	DEVELOPMENT OF BIO-MODIFIED CARBON PASTE.....METALS FROM WASTE WATER"	4,12,006.50			4,836.00	4,16,842.50	4,16,837.00	5.50	
155	"A HIGHLY FLEXIBLE PIEZO-TRIBO NANOGENERATOR.....CAPTURING HUMAN	4,436.50			2,782.00	7,218.50	6,661.50	557.00	
156	MODELING AND SIMULATION OF FLUID MOTION....."MICRO.FDM"	7,739.00			188.00	7,927.00	7,898.00	29.00	
157	PROCESS INTENSIFICATION OF POST-COMBUSTION.....BED REACTOR CONCEPT"	8,91,221.00			41,969.00	9,33,190.00	9,29,598.00	3,592.00	
158	TURNING THE PERFORMANCE OF THIN FILM COMPOSITE.....OSMOSIS IN WATER		8,45,155.00		10,10,328.00	1,64,173.00	1,64,173.00		
159	INTELLIGENT SYSTEM FOR RETINOPATHY.....SCREENING AND DIAGNOSIS"	3,89,533.00			2,038.00	3,91,571.00	3,62,682.50	28,888.50	
160	ATTITUDE TOWARDS THE ENVIRONMENT.....POST 2018 FLOODS"	11,537.00			315.00	11,852.00		11,852.00	
161	A RESILIENT DC COMMUNITY GRID.....SERVICES TO LOCAL GRID"	47,359.00			764.00	48,123.00	47,691.00	432.00	
162	INITIATIVES TO RESOLVE SOCIO-ECONOMIC ISSUES	2,46,129.25			6,712.00	2,52,841.25		2,52,841.25	



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163	"COMPUTATIONAL INVESTIGATIONS ON THE MECHANISM.....DEGRADATION WITH AGEING	(80,626.00)		5,14,549.00	4,33,923.00	3,76,693.00	57,230.00
164	"MICROBIAL RECOVERY OF BIOGENIC METHANE.....AND RECLAMATION OF THE SITE"	1,12,042.00		910.00	1,12,952.00	1,05,251.00	7,701.00
165	"VLSI IMPLEMENTATION.....SATELLITE APPLICATIONS"	2,09,991.25		42,642.00	2,52,633.25	-	2,52,633.25
166	"SYNTHESIS & CHARACTERIZATION OF CARBON BASED FUNCTIONAL....."	1,77,260.00		2,42,201.00	64,941.00	-	64,941.00
167	UMMAT BHARAT ABHIYAN	1,70,910.00		-	1,70,910.00	-	1,70,910.00
168	DEVELOPMENT AND CHARACTERISATION OF BIO DEGRADABLE METALLIC IMPLANTS"	1,12,724.00		10,43,062.00	11,55,786.00	9,74,994.00	1,80,792.00
169	DEVELOPMENT OF ELECTROSPUN.....MEMBRANE DISTILLATION"	3,98,393.00		94,344.25	4,92,737.25	4,89,813.00	2,924.25
170	TWO DIMENSIONALLY TAILORED.....MULTIFUNCTIONAL APPLICATIONS"	19,39,395.00		3,687.00	19,43,082.00	18,25,081.00	1,18,001.00
171	CONTROL OF INSTABILITIES IN JEFFCOTT ROTOR"	5,37,481.00		6,456.00	5,43,937.00	4,67,291.00	76,646.00
172	DESIGN MODIFICATIONS OF TATA-JK.....MIDDLING COAL USING CFD"	1,95,764.52		5,183.00	2,00,947.52	1,90,924.00	10,023.52
173	"DESIGN AND DEVELOPMENT OF REAL TIME OPTICAL.....FOR FIELD MEASUREMENTS"	1,74,848.00		3,334.00	1,78,182.00	1,78,182.00	-
174	"DEVELOPMENT OF AN INDIGENOUS TOOL FOR THE USING DEEP NEURAL NETWORKS"	1,82,691.00		19,095.00	2,01,786.00	1,13,938.00	87,848.00
175	DEVELOPMENT OF KITCHEN LAYOUT FOR PARAPLEGIC PERSONS"	9,35,413.00		2,25,609.00	11,61,022.00	4,55,720.50	7,05,301.50
176	DESIGN AND DEVELOPMENT OF AN.....CLIMATE CHANGE AND NON STATIONARITY"	31,031.00		847.00	31,878.00	-	31,878.00
177	RATIONAL DESIGN AND DEVELOPMENT.....OXYGEN REDUCTION REACTION"	22,09,048.00		5,25,229.00	27,34,277.00	24,10,716.00	3,23,561.00
178	STUDY AND DEVELOPMENT OF HIGHLY.....BASED METAL OXIDE COMPOSITE"	3,76,735.50		5,480.00	3,82,215.50	3,80,134.00	2,081.50
179	INTEGRATED HYDRODYNAMIC CAVITATION.....FROM INDUSTRIAL EFFLUENT"	8,96,708.00		8,999.00	9,05,707.00	6,70,516.00	2,35,191.00
180	STATOR FAULT DIAGNOSIS THROUGH WAVELET.....INVERTER FED INDUCTION MOTOR"	4,95,471.00		80,365.00	5,75,836.00	5,40,939.00	34,897.00
181	SOCIOTYPE MAPPING AS A TOOL FOR POLICY FRAMEWORK IN AN URBAN CULTURAL LANDSCAPE	7,145.00		51,334.00	58,479.00	23,500.00	34,979.00
182	DESIGN AND FABRICATION STRATEGIES.....HYBRID PEROVSKITE SOLAR CELLS"	2,353.00		2,00,029.00	2,02,382.00	2,01,617.00	765.00
183	"PROACTIVE MONITORING OF ONLINE.....WOMEN AND CHILDREN"	16,41,249.00		10,31,907.00	26,73,156.00	11,20,664.00	15,52,492.00
184	"TO DEVELOP A SOFTWARE FOR LINEAR.....APPLIED ELEMENT METHOD"	7,20,526.00		2,24,593.00	9,45,119.00	2,08,047.00	7,37,072.00
185	DST MATHEMATICS FIST PROGRAM 2020	4,03,871.00		2,861.00	4,06,732.00	3,69,545.00	37,187.00



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186	"TUNING THE PERFORMANCE OF THINFILM.....OSMOSIS IN WATER REMEDIATION"	11,65,399.00		24,438.00	11,89,837.00	11,87,794.00	2,043.00
187	"DEVELOPMENT OF DESALINATION SYSTEM.....SOLA ABSORBER"	5,52,184.00		12,556.00	5,64,740.00	2,81,522.00	2,83,218.00
188	"GAN BASED HIGH GAIN DC/DC CONVERTER.....UPS APPLICATION"	12,19,002.00		18,004.00	12,37,006.00	9,62,788.00	2,74,218.00
189	"FLOOD FORECASTING USING.....WAVELET-SVM MODELS"	3,86,887.00		8,410.00	3,95,297.00	3,73,697.00	21,600.00
190	"DEVELOPMENT OF AN ALTERNATIVE FLUID TO TRANSFORMER MINERAL OIL"	2,97,878.50		50,571.00	3,48,449.50	3,34,342.00	14,107.50
191	"IMAGE BASED SMART PARKING.....TRANSPORTATION SYSTEM"	6,09,862.00		26,961.00	6,36,823.00	6,05,852.00	30,971.00
192	"RISK ASSESSMENT OF NANOPARTICLE.....PHYTOTOXICITY USING GENOMIC APPROACHES"	1,10,236.50		47,554.00	1,57,790.50	1,21,717.00	36,073.50
193	"ARYAKA NETWORKS INDIA PVT LTD"	2,76,932.00		7,553.00	2,84,485.00	-	2,84,485.00
194	"INVESTIGATION OF SHORELINE STABILITY.....COASTAL PROTECTION MEASURES"	5,38,562.00		38,493.00	5,77,055.00	5,00,615.00	76,440.00
195	"FABRICATION AND CHARACTERIZATION.....PHOTO SENSORS"	15,73,907.50		3,93,783.00	19,67,690.50	19,01,556.00	66,134.50
196	"FRAMEWORK FOR FLOOD MAPPING.....NORTHERN REGION OF KERALA"	2,56,259.50		1,57,733.00	4,13,992.50	4,13,666.00	326.50
197	"HOD DEPARTMENT OF CHEMISTRY DST FIST PROGRAMME"	2,06,76,187.00		5,63,935.00	2,12,40,122.00		2,12,40,122.00
198	"DEVELOPMENT OF A DIAGNOSTIC TOOL FOR COLD ATMOSPHERIC PLASMA"	13,79,614.50		4,15,920.00	17,95,534.50	17,03,726.00	91,808.50
199	"DEVELOPMENT OF ALUMINIUM-CERIUM.....EXPERIMENTAL INVESTIGATIONS"	26,85,798.00		11,286.00	26,97,084.00	26,85,798.00	11,286.00
200	"GRAPHENE-GOLD NANOCUSTER...EARLY DIAGNOSIS OF COVIDS"	9,33,326.00		12,795.00	9,46,121.00	9,13,715.00	32,406.00
201	"HOD DEPARTMENT OF PHYSICS DST FIST PROGRAMME"	1,44,14,824.00		3,93,159.00	1,48,07,983.00		1,43,07,983.00
202	"DESIGN AND SYNTHESIS OF.....C-C BOND FORMATION REACTIONS"	20,85,206.00		2,60,240.00	23,45,446.00	22,38,987.00	1,06,459.00
203	"DESIGN AND DEVELOPMENT OF A DEEP LEARNING.....SPEECH SYNTHESIS"	2,91,819.00		2,65,812.00	5,57,631.00	3,61,800.00	1,95,831.00
204	"DEVELOPMENT OF 2D HETEROSTRUCTURES.....RESISTANT COATINGS"	11,55,738.00		5,25,231.00	16,81,969.00	9,50,111.00	7,31,858.00

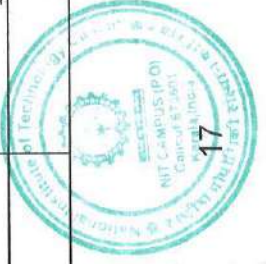
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205	"DEVELOPMENT OF ORGANICOLL.....BRAKE SYSTEM"	2,47,203.00			4,252.00	2,51,455.00	1,56,904.00	84,551.00
206	"HUMAN TOLL-LIKERECEPTOR .....HETEROCYCLIC SCAFFOLDS"	12,20,070.00			7,14,202.00	19,34,272.00	15,24,002.00	4,10,270.00
207	"ANOVEL REGENERATIVE DRIVE TRAIN....POWERFACTOR CONNECTION CAPABILITY"	9,14,423.00			3,88,586.00	13,03,009.00	10,27,810.00	2,75,199.00
208	OTHER PROJ.DR.SANDHYARANI SERB POWER	7,55,154.00			11,40,218.00	18,95,372.00	11,98,414.00	6,96,958.00
209	CSIR RESEARCH PROJ."DESIGN AND DEVELOPMENT OF SOLAR.....IRRIGATION SYSTEM"	2,66,360.00			3,422.00	2,69,782.00	2,08,561.00	61,121.00
210	NON-INVASIVE MEASUREMENT.....PULMONARY CONGESTION"	13,53,456.00			1,97,573.00	15,51,029.00	15,48,821.50	2,207.50
211	SOLAR DRIVEN COGENERATION OF .....RURAL COMMUNITIES"	6,747.00			395.00	7,142.00	7,083.00	59.00
212	ONLINE INTERNATIONAL CONFERENCE "TRANSPORTATION SYSTEMS...MANAGEMENT (CTSEM)"	90,204.00			180.00	90,384.00	649.00	89,735.00
213	"DEVELOPMENT OF SPRAY EVALUATION.....SPARY COATING METHOD"	48,99,625.00			93,029.00	49,92,654.00	38,70,856.00	11,21,798.00
214	"SUSTAINABLE LANDSCAPE .....ECOLOGY AND AESTHETICS"	1,51,423.00			1,414.00	1,52,837.00	1,50,000.00	2,837.00
215	DESIGN AND DEVELOPMENT.....ENHANCED FOR VIRTUALISATION"	34,30,737.00			65,856.00	34,96,593.00	16,60,482.00	18,36,111.00
216	INSPIRE FELLOWSHIP MS.DHILSHANA	10,346.00			4,55,335.00	4,65,681.00	4,60,510.00	5,171.00
217	EXPERIMENTAL INVESTIGATIONS.....TURBINE BLADES AND VANES"	10,75,123.00			20,778.00	10,95,901.00	6,36,845.00	4,59,056.00
218	"COMPUTER AIDED DIGNOSIS.....TUMOR CLASSIFICATION"	13,20,216.00			7,10,337.00	20,30,553.00	14,70,105.00	5,60,448.00
219	DEVELOPMENT OF ..... WARM HUMID CLIMATE"	18,44,533.00			1,78,179.00	20,22,712.00	3,28,332.00	16,94,380.00
220	INTEGRATED ELECTRO OXIDATION.....CARBON BASED POLLUTANTS"	13,16,586.00			1,14,545.00	14,31,131.00	13,42,405.00	88,726.00
221	INSPIRE FELLOWSHIP MR.MUNUGALA CHANDRAKANTH	25,263.00			4,31,286.00	4,56,549.00	4,56,199.00	350.00
222	FIST PROGRAMME UNDER DEPARTMENT OF CHEMICAL ENGINEERING	60,40,839.00			1,64,762.00	62,05,601.00	-	62,05,601.00
223	SERB-CHEMICAL SYNTHESSES OF FILLED LOW DIMENSIONAL COSB3	17,72,573.00			37,231.00	18,09,804.00	7,81,797.00	10,28,007.00



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224	INSPIRE FACULTY AWARD UNDER THE INSPIRE PROGRAM DR DEEPTHI PP	15,17,614.00			25,990.00	15,43,604.00	8,26,069.00	7,17,535.00
225	"STABILIZATION OF COMPOUNDS....GROUP ELEMENTS"	24,65,533.00			62,797.00	25,28,330.00	4,54,650.00	20,73,680.00
226	"SUPRAMOLECULAR RIGID AROMATIC.....ASYMMETRIC ANALYSIS"	23,07,859.00			57,725.00	23,65,584.00	3,09,390.00	20,56,194.00
227	DST INSPIRE FACULTY PROGRAM	14,86,574.00			11,671.00	14,98,245.00	14,86,574.00	11,671.00
228	SERB AGGLOMERATION/ABATEMENT IN FLUIDISED BED	17,45,449.00			53,905.00	17,99,354.00	4,74,281.00	13,25,073.00
229	PROTOTYPE FOR DRONE BASED INTELLIGENT COCONUT HARVESTER	9,92,067.00			24,534.00	10,16,541.00	1,96,667.00	8,19,874.00
230	CONDITION ASSESSMENT OF POLYMERIC CABLE INSULATION	13,55,773.00			31,920.00	13,87,693.00	11,78,877.00	2,08,816.00
231	I ACOUSTIC EMISSIONS FROM A PREMIXED FLAME PROPAGATING IN A TUBULAR COMBUSTER	20,29,747.00			1,53,330.00	21,83,077.00	4,25,542.00	17,57,535.00
232	AS A NOVEL DIRECT DRUG TARGET FOR PREVENTING BARRIER	16,74,990.00			32,777.00	17,07,767.00	15,47,605.00	1,60,162.00
233	INVESTIGATION OF CROSS TALK OF GENE REGULATION OF L- SORBOSE AND GALACTOSE	10,31,428.00			2,14,470.00	12,45,898.00	12,09,422.00	36,476.00
234	DEVELOPMENT OF AN ADAPTIVE DISTANCE RELAYING SYSTEM	21,70,266.00			56,396.00	22,26,662.00	2,98,220.00	19,28,442.00
235	INVESTIGATION OF SOLAR ERUPTIONS	6,05,197.00			5,10,275.00	11,15,472.00	8,88,296.00	2,27,176.00
236	DEVELOPMENT OF A MODEL FOR GENERATION OF HIGH RESOLUTION	5,80,014.00			12,36,118.00	18,16,132.00	7,47,390.00	10,68,742.00
237	SERB TARE TO DR.BEENA A O	3,10,000.00			7,067.00	3,17,067.00	3,07,788.00	9,279.00
238	SOLVING A TRAJECTORY PLANNING PROBLEM	2,20,000.00			4,267.00	2,24,267.00	2,10,000.00	14,267.00
239	V SERB TARE TO DR.MIRINAL K R	3,35,000.00			9,137.00	3,44,137.00	1,99,000.00	1,45,137.00
240	S EXPLORING THE EFFECT OF SINGLE AND BIMETALLIC- DOPED GRAPHENE OXIDE	33,25,000.00			89,935.00	34,14,935.00	-	34,14,935.00
241	MODERNIZATION OF POLLUTION CONTROL SYSTEM OF STEEL INDUSTRIES	4,80,000.00			4,09,995.00	8,89,995.00	8,12,140.00	77,855.00
242	MACHINABILITY STUDIES AND DEVELOPMENT OF A STABLE MANUFACTURING	1,59,000.00			4,013.00	1,63,013.00	37,054.00	1,25,959.00



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243	DST SERB RAMANUJAN FELLOWSHIP	23,80,000.00			35,931.00	24,15,931.00	21,37,410.00	2,78,521.00	
244	COMPUTATIONAL MODELLING OF TRANSITION METAL OXIDES	29,65,000.00			71,996.00	30,36,996.00	22,56,888.00	7,80,108.00	
245	PERFORMANCE ENHANCEMENT OF TERNARY ORGANIC SOLAR CELLS	8,60,000.00			20,090.00	8,80,090.00	7,64,050.00	1,16,040.00	
246	DESIGN OF FUNCTIONAL MAIN GROUP ORGANOMETALLIC				26,08,321.00	26,08,321.00	4,69,053.00	21,39,268.00	
247	D-INVESTIGATIONS ON PROBABILISTIC FLOOD FORECASTING TECHNIQUES				11,21,423.00	11,21,423.00	8,43,408.00	2,78,015.00	
248	CP-DESIGNING AND FABRICATION OF METAL-ORGANIC FRAMEWORKS				3,42,752.00	3,42,752.00	1,50,900.00	1,91,852.00	
249	DST INSPIRE FACULTY SCHEME				3,94,199.00	3,94,199.00	3,94,199.00		
250	FIST PROGRAMME UNDER SCHOOL OF MATERIAL SCIENCE AND ENGINEERING				1,96,23,681.00	1,96,23,681.00		1,96,23,681.00	
251	NRB-DRDO PROJ."SYNCHRONIZATION IN .....COMMUNICATION ENGINEERING (UWACS)"				19,72,257.00	19,72,257.00	9,52,480.00	10,19,777.00	
252	KSCSTE PROJ."BEHAVIOUR OF STEEL FIBRE.....CONCRETE DEEP BEAMS"				6,17,037.00	6,17,037.00	6,12,466.00	4,571.00	
254	C-ELECTRIC PVT LTD PROJ "ELECTRICALLY EXCITED...EESM"				3,30,513.00	3,30,513.00	1,85,260.00	1,45,253.00	
255	SERB PROJ "MIXENE/POLYMER....SENSORS AND DEVICES"				34,01,552.00	34,01,552.00	3,98,707.00	30,02,845.00	
256	2022-23/004/CARS-DRDO/CHEP/FF-41204898778				7,40,384.00	7,40,384.00	3,07,207.00	4,33,177.00	
257	SERB PROJ."DESIGN OF GC3N4/CON4.....SENSING ABILITY"				20,80,139.00	20,80,139.00	2,48,330.00	18,31,809.00	
258	IITG-TIIT PROJ."EXPERIMENTAL INVESTIGATIONS.....SUITABLE ATTACHMENTS"				15,11,734.00	15,11,734.00	7,84,700.00	7,27,034.00	
259	DRDO-CARS PROJ."DEVELOPMENT OF HI TEMPERATURE.....RF CIRCUIT APPLICATIONS"				6,06,261.00	6,06,261.00	1,39,015.00	4,67,246.00	
260	PROJ."DEVELOPMENT OF ULTRA-HIGH PERFORMAN.....URBAN AREAS"				22,23,165.00	22,23,165.00		22,23,165.00	
261	SERB SIRE PROJ."MICROSTRUCTURAL, MECHANICAL.....HEAT TREATMENT"				12,07,234.00	12,07,234.00		12,07,234.00	
262	CEIPRA PROJ."PROVSKITE SINGLE...SOLAR CELLS"				25,47,776.00	25,47,776.00		25,47,776.00	



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263	PROJ."DEVELOPMENT OF LOW COST.....EXPERIMENTAL INVESTIGATIONS"	5,04,595.00	5,04,595.00	-	5,04,595.00	
264	KSCSTE PROJ."INVESTIGATIONS ON THE.....(NPW) PRECIPITATION FORECASTS"	4,12,062.00	4,12,062.00	-	4,12,062.00	
265	"FRACTIONAL ORDER.....IMAGE PROCESSING"	2,21,107.00	2,21,107.00	1,10,000.00	1,11,107.00	
266	KSCSTE PROJ."SYNTHESIS AND PROCESSING OF ALUMINIUM.....AEROSPACE APPLICATION"	6,43,219.00	6,43,219.00	-	6,43,219.00	
267	KSCSTE PROJ."SUSTAINABILITY ASSESSMENT OF INLAND....STUDY OF KERALA"	3,26,635.00	3,26,635.00	-	3,26,635.00	
268	PROJ."INVESTIGATIONS ON VALORISATION.....GASIFICATION"	2,56,000.00	2,56,000.00	-	2,56,000.00	
269	PROJ."INVESTIGATIONS ON THE ALTERATION.....COMPLEX NETWORK ANALYSIS"	8,15,063.00	8,15,063.00	-	8,15,063.00	
270	PROJ."INTEGRAL POINTS ON DYNAMICAL SYSTEMS"	5,79,714.00	5,79,714.00	71,980.00	5,07,734.00	
271	PROJ."A STUDY ON THE ZERO MULTIPLICITY.....SEQUENCES"	8,46,523.00	8,46,523.00	-	8,46,523.00	
272	PROJ."OPTICALLY-CONTROLLED PROGRAMMABLE.....EVAPORATING DROPLETS"	29,59,406.00	29,59,406.00	-	29,59,406.00	
273	"A STEP TOWARDS SMART CITY.....SMART CITIES OF KERALA"	12,04,479.00	12,04,479.00	94,540.00	11,09,939.00	
	<b>Total</b>	<b>8,63,34,192.00</b>	<b>25,65,89,763.28</b>	<b>11,55,26,379.85</b>	<b>14,10,63,383.43</b>	<b>0.00</b>



  
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**SCHEDULE 3B- SPONSORED FELLOWSHIPS AND SCHOLARSHIPS**

(Amount in Rupees)

1.Sr. No	2. Name of Sponsor	Opening Balance		Transactions during the year		Closing Balance	
		3. Credit	4. Debit	5. Credit	6. Debit	7. Credit	8. Debit
1	University Grants Commission	83,87,310.00	-	0.00	0.00	83,87,310.00	-
	<b>Ministry (Central Govt.)</b>	0.00	0.00				
2	Director of College Education		4,000.00				4,000.00
3	Cultural Scholarship	15,92,298.00		6,81,155.00	8,51,774.00	14,21,679.00	
4	NCERT	23,013.00				23,013.00	
5	SC/ST Scholarship	5,09,344.00				5,09,344.00	
6	NIMCET		1,04,207.00				1,04,207.00
7	Summer Course	35,16,955.00		0.00		35,16,955.00	
8	Zonasa 2003	91,685.00		0.00		91,685.00	
9	Minority Scholarship	6,70,487.00				6,70,487.00	
10	Top Class Education Scholarship for SC Students	19,52,296.00		0.00	0.00	19,52,296.00	
11	Merit Cum Means Scholarship for Minorities		3,46,467.00				3,46,467.00
12	NBHM Fellowship	61,915.00				61,915.00	
13	SPDC Scholarship	7,06,034.44		1,03,75,566.25	98,39,684.25	12,41,916.44	
14	Inspire Fellowship		57,962.00				57,962.00
15	AIEE-CCB						
16	Visweswaraya Scheme	5,610.00		43,016.00	230.00	48,396.00	
17	Inspire Fellowship - Dr. Subrahmanian Nampoothiri	37,75,284.00		4,400.00	37,70,797.00	8,887.00	
18	Inspire Fellowship - Dr. Mini Mol	1,80,911.00		2,143.00	1,80,914.00	2,140.00	
19	Post Doctoral Fellowship - Dr. Robin	2,28,873.00		7,36,924.00	9,60,700.00	5,097.00	
20	OBC Scholarship						
21	Inspire Faculty Award-Dr. Lakshmi V Nair	24,87,434.50		35,652.00	24,83,117.00	39,969.50	
22	Young Faculty research Fellowship- Dr. Kumaravel	1,13,697.00		7,390.00		1,21,087.00	
23	National post doctoral fellowship- Dr. Muhsin	46,895.00		40,760.00	87,540.00	115.00	
24	Inspire Faculty Award-Dr. Tharaknath Kobaku	18,695.00		510.00		19,205.00	
25	inspire Fellowship-Anagha Yadeendran	17,560.00		4,99,721.00	5,17,227.25	53.75	



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26	Post Doctoral Fellowship - Dr. Baby Viswambaran	(648.00)		1,226.00	268.00	310.00	
27	Inspire Faculty Award-Dr.Sreealakshmi	2,28,530.00		15,58,636.00	70,000.00	17,17,166.00	
28	OTHER PROJ.MS.SARIKA V DST INSPIRE FELLOWSHIP			4,59,566.00	4,59,540.00	26.00	
29	SULTANA ROHMAN			7,22,147.00	1,75,645.00	5,46,502.00	
30	INSPIRE FELLOWSHIP-MUHAMMED SHAFI			6,62,500.00	6,62,500.00	-	
	<b>Kerala Government</b>	0.00					
31	KSCSTE Fellowship	5,05,841.00		23,75,486.00	22,93,356.00	5,87,971.00	
32	E- Grants (For Backward Castes)	57,18,843.50		27,65,534.00	8,28,985.00	76,55,392.50	
33	Minorities Scholarship		41,595.00	-	-	-	41,595.00
	<b>Other State Governments</b>	0.00	0.00				
34	Andhra Pradesh		34,692.00	-	-	-	34,692.00
35	Bihar	4,53,384.00		0.00	0.00	4,53,384.00	
36	Karnataka	1,080.00		-	-	1,080.00	
37	Lakshadweep			-	-	-	
38	Madhya Pradesh	55,375.00		-	-	55,375.00	
39	Maharashtra		4,675.00	-	-	-	4,675.00
40	Tamil Nadu	1,000.00		-	-	1,000.00	
41	Chattisgarh	92,040.00		1,40,000.00	-	2,32,040.00	
	<b>Others</b>	0.00	0.00				
42	E- Remittance (other States)	35,08,289.00		19,86,455.00	17,33,441.00	37,61,303.00	
43	Vishakhapatnam Steel Plant Scholarship						
44	NIT - Kharakpur - GIAN		2,93,111.25	41,29,450.00	20,96,069.00	17,40,269.75	
45	QIP - Poly Grant	72,23,735.00		0.00	-	72,23,735.00	
	<b>Total</b>	<b>4,21,73,766.44</b>	<b>8,86,709.25</b>	<b>2,72,28,237.25</b>	<b>2,70,11,787.50</b>	<b>4,20,97,104.94</b>	<b>5,93,598.00</b>



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**SCHEDULE -3C UNUTILISED GRANTS FROM UGC, GOVT. OF INDIA AND STATE GOVERNMENTS**

(Amount in Rupees)

Particulars	Current Year	Previous Year
<b>A. Plan grants: Government of India</b>		
Balance B/F	47,98,16,429.00	49,16,74,195.00
Add: Receipts during the year	28,58,00,000.00	7,44,00,000.00
<b>Total (a)</b>	<b>76,56,16,429.00</b>	<b>56,60,74,195.00</b>
Less: Refunds	-	-
Less: Utilized for Revenue Expenditure	-	-
Less: Utilized for Capital Expenditure	21,17,72,238.00	8,62,57,766.00
Less: Plan Advance	16,00,00,000.00	
Less: Prior Period Advance	39,38,44,191.00	
<b>Total (b)</b>	<b>76,56,16,429.00</b>	<b>8,62,57,766.00</b>
<b>(Deficit)/Unutilized carried forward (a-b)</b>	<b>-</b>	<b>47,98,16,429.00</b>
<b>B. Plan: UGC grants</b>		
Balance B/F	-	-
Add: Receipts during the year	-	-
<b>Total (c)</b>	<b>-</b>	<b>-</b>
Less: Refunds	-	-
Less: Utilized for Revenue Expenditure	-	-
Less: Utilized for Capital Expenditure	-	-
<b>Total (d)</b>	<b>-</b>	<b>-</b>
<b>Unutilized carried forward (c-d)</b>	<b>-</b>	<b>-</b>

<b>C. Non Plan: Government of India</b>		
Balance B/F	-	-
Add: Receipts during the year	1,83,63,91,309.00	1,50,56,29,297.00
Add: Adjustment of Grant receivable from GOI	-	-
<b>Total (e)</b>	<b>1,83,63,91,309.00</b>	<b>1,50,56,29,297.00</b>

Less: Refunds	-	-	-
Less: Utilized for Revenue Expenditure	1,44,85,85,330.00	-	1,83,63,91,309.00
Less: Utilized for Capital Expenditure	-	-	-
Less: Lapsed amount	5,70,43,967.00	-	-
<b>Total (f)</b>	<b>1,50,56,29,297.00</b>	<b>1,83,63,91,309.00</b>	<b>-</b>
(Deficit)/Utilized carried forward (e-f)	-	-	-
<b>D. Non Plan: UGC grants</b>			
Balance B/F	-	-	-
Add: Receipts during the year	-	-	-
<b>Total (g)</b>	<b>-</b>	<b>-</b>	<b>-</b>
Less: Refunds	-	-	-
Less: Utilized for Revenue Expenditure	-	-	-
Less: Utilized for Capital Expenditure	-	-	-
<b>Total (h)</b>	<b>-</b>	<b>-</b>	<b>-</b>
Utilized carried forward (g-h)	-	-	-
<b>Grand Total (A+B+C+D)</b>	<b>47,98,16,429.00</b>	<b>-</b>	<b>-</b>

*R.R. Ramesh*

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**SCHEDULE 3(D) - LONG-TERM LIABILITIES**

(Amount in Rupees)

Particulars	Opening balance	Additions during the year	Repaid during the year	Closing balance	Previous year
HEFA	51,95,15,578.00	52,31,600.00	8,80,00,000.00	43,67,47,178.00	51,95,15,578.00
<b>Total</b>	<b>51,95,15,578.00</b>	<b>52,31,600.00</b>	<b>8,80,00,000.00</b>	<b>43,67,47,178.00</b>	<b>51,95,15,578.00</b>



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 Director

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SCHEDULE 4 – FIXED ASSETS

(Amount in Rupees)

S. No	DESCRIPTION	GROSS BLOCK				DEPRECIATION				NET BLOCK		
		Opening Balance 01/04/2022	Additions during the year	Deductions/Reclassification	Closing Balance	Dep't. rates	Depreciation Opening Balance	Depreciation for the year	Deductions/Adjustment	Total Depreciation	31-03-2022	31-03-2023
1	Land:											
	a) Freehold	7,69,000.00	-	-	7,69,000.00	Nil	-	-	-	-	-	7,69,000.00
	b) Leasehold	-	-	-	-	-	-	-	-	-	-	-
2	Buildings:											
	a) On Freehold Land											
	i. Residential	1,60,38,35,657.00	14,76,647.00	-	1,60,53,12,304.29	2%	2,13,55,788.53	-	52,29,17,432.82	98,24,54,871.18	1,00,33,34,012.71	
	ii. Non Residential	2,22,84,42,160.00	1,86,80,872.00	-	2,24,71,23,032.00	2%	3,28,56,216.31	-	68,27,65,247.47	1,56,43,57,784.53	1,57,85,33,128.84	
	b) On Leasehold Land	-	-	-	-	-	0.00	-	-	-	-	
	c) Ownership Flats/Premises of department/office on lease net	-	-	-	-	-	0.00	-	-	-	-	
	Tube wells & water supply	-	-	-	-	-	0.00	-	-	-	-	
	Sewerage & Drainage	-	-	-	-	-	0.00	-	-	-	-	
5	Furniture & fixtures	15,78,59,890.00	4,41,27,425.00	-	18,19,87,315.00	7.5%	7,68,68,838.80	-	8,59,73,392.46	9,60,13,922.54	6,09,91,051.20	
6	Electrical Installations	4,44,23,819.00	88,672.00	-	4,45,12,491.00	5%	3,20,17,001.00	-	8,62,727.99	1,16,32,762.01	1,24,06,818.00	
7	Plants, machinery & equipment	1,06,23,63,642.00	11,50,22,906.00	-	1,17,73,86,548.00	7.5%	60,75,05,393.89	-	64,80,58,812.25	52,99,27,735.75	45,48,56,248.11	
8	FRG-IRG equipment	10,78,453.00	55,81,144.00	-	66,59,597.00	5%	94,953.65	-	4,27,933.50	62,31,663.50	9,83,499.35	
9	Office Equipment	48,18,731.00	-	-	48,18,731.00	7.5%	45,30,167.10	-	45,57,635.38	2,61,095.62	2,89,563.90	
10	Computer & Peripherals	20,68,43,490.00	2,36,15,756.00	-	23,04,59,246.00	20%	17,94,85,216.29	-	19,38,75,942.05	3,65,83,303.95	2,73,58,273.71	
11	Vehicles	69,98,909.00	1,11,80,335.00	-	1,81,79,244.00	10%	58,21,553.56	-	71,07,780.70	1,10,71,463.31	11,77,355.45	
12	Library books	5,59,60,232.00	17,38,302.00	-	5,76,98,534.00	10%	4,98,33,032.38	-	5,08,32,666.91	68,55,847.09	61,27,199.62	
	<b>Total (A)</b>	<b>5,35,34,53,983.00</b>	<b>22,15,12,059.00</b>	<b>0.00</b>	<b>5,57,49,66,042.00</b>		<b>2,20,76,26,832.12</b>	<b>-</b>	<b>2,32,93,96,551.52</b>	<b>3,24,55,69,448.36</b>	<b>3,14,58,27,149.77</b>	
13	Capital Work-in-progress (B)	97,77,96,239.00	1,04,61,236.00	-	98,82,57,475.00	-	-	-	-	-	-	98,82,57,475.00
	<b>Total (A+B)</b>	<b>6,33,12,500,222.00</b>	<b>23,19,13,295.00</b>	<b>0.00</b>	<b>6,56,32,233,517.00</b>		<b>2,20,76,26,832.12</b>	<b>-</b>	<b>2,32,93,96,551.52</b>	<b>3,24,55,69,448.36</b>	<b>3,14,58,27,149.77</b>	
	<b>Grand Total (A+B+C)</b>	<b>6,41,62,11,743.20</b>	<b>30,84,54,335.00</b>	<b>0.00</b>	<b>6,72,46,66,078.20</b>		<b>2,25,99,69,658.40</b>	<b>17,52,21,287.68</b>	<b>2,43,45,90,946.08</b>	<b>4,29,00,75,131.00</b>	<b>4,15,68,42,083.69</b>	
14	Computer Software	3,51,85,353.00	2,56,76,722.00	-	6,08,62,075.00	40%	3,18,32,359.00	-	4,50,51,691.80	1,58,10,383.20	33,52,994.00	
15	E-Journals	4,97,76,168.20	5,08,04,818.00	-	10,05,80,986.20	40%	1,99,10,467.28	-	6,01,42,661.76	4,04,37,824.44	2,98,65,700.92	
16	Patents and Copyrights	-	-	-	-	-	-	-	0.00	-	-	
	<b>Total (C)</b>	<b>8,49,61,521.20</b>	<b>7,64,81,540.00</b>	<b>-</b>	<b>16,14,42,561.20</b>		<b>5,17,42,826.28</b>	<b>-</b>	<b>10,51,94,353.56</b>	<b>5,62,48,207.64</b>	<b>3,32,18,694.92</b>	

*Prasad*

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नितेशक  
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SCHEDULE 4A - PLAN ASSETS

(Amount in Rupees)

S. No	DESCRIPTION	GROSS BLOCK				DEPRECIATION				NET BLOCK		
		Opening Balance 01/04/2022	Additions during the year	Deductions/Reclassification during the year	Closing Balance	Dep. rates	Depreciation Opening Balance	Depreciation for the year	Deductions/Adjustment	Total Depreciation	31-03-2023	31-03-2022
<b>TANGIBLE ASSETS</b>												
1	Land:	7,69,000.00	-	-	7,69,000.00							7,69,000.00
	a) Freehold	7,69,000.00	-	-	7,69,000.00							7,69,000.00
	b) Leasehold	-	-	-	-							-
2	Buildings:	-	-	-	-							-
	a) On Freehold Land	-	-	-	-							-
	i. Residential	85,45,31,752.00	14,76,647.00	-	95,60,08,399.00	2%	58,85,74,566.19	83,88,510.43	-	59,89,42,876.62	35,90,65,522.38	36,59,57,385.81
	ii. Non Residential	2,22,84,42,160.00	1,96,80,872.00	-	2,24,71,33,032.00	2%	64,99,09,081.16	3,28,56,216.31	-	68,27,65,247.47	1,56,43,57,784.53	1,57,85,33,328.84
	b. On Leasehold Land	-	-	-	-							-
	c) Ownership Flats/ Premises	-	-	-	-							-
	d' Superstructures on Land not belonging to educational institutions	-	-	-	-							-
3	Tube wells & water supply	-	-	-	-							-
4	Sewerage & Drainage	-	-	-	-							-
5	Furniture & fixtures	13,76,59,890.00	4,26,95,082.00	-	18,05,54,972.00	8%	7,68,68,838.20	99,97,128.38	-	8,58,55,967.18	9,46,85,010.82	6,09,91,051.20
6	Electrical Installations	4,44,23,819.00	89,672.00	-	4,45,12,491.00	5%	3,20,17,001.00	8,62,727.99	-	3,28,79,728.99	1,16,52,762.01	1,24,06,818.00
7	Plans, machinery & equipment	97,28,48,064.00	8,84,18,497.00	-	1,06,12,66,561.00	8%	60,07,91,725.54	3,07,41,627.60	-	63,15,33,353.14	42,97,33,207.86	37,20,56,338.46
9	Office Equipment	48,18,731.00	2,33,36,372.00	-	48,18,731.00	8%	45,30,167.10	27,468.28	-	45,57,635.38	2,61,056.62	2,89,569.90
10	Computer & Peripherals	20,68,43,490.00	2,33,36,372.00	-	23,01,79,862.00	20%	17,94,85,216.29	1,44,84,710.76	-	19,99,19,927.05	3,62,99,995.95	2,78,58,273.71
11	Vehicles	69,98,909.00	39,77,829.00	-	1,09,76,738.00	10%	58,21,553.56	5,65,976.94	-	63,87,530.10	45,89,207.91	11,77,358.45
12	Library books	5,59,60,232.00	17,38,302.00	-	5,76,98,534.00	10%	4,98,33,032.38	9,99,654.53	-	5,08,32,686.91	68,65,847.09	61,27,199.62
	Total (A)(1)	4,61,34,96,047.00	18,04,12,280.00	-	4,79,39,08,327.00		2,18,78,30,932.02	9,78,54,020.81	-	2,28,56,84,952.83	2,50,82,23,374.17	2,42,56,65,114.99
<b>INTANGIBLE ASSETS</b>												
13	Computer Software	3,51,85,353.00	2,56,76,722.00	-	6,08,62,075.00	40%	3,18,32,359.00	1,31,25,059.60	-	4,48,57,418.60	1,59,04,656.40	33,52,994.00
14	Patents and Copyrights	-	-	-	-		-	-	-	-	-	-
	Total (A)(2)	3,51,85,353.00	2,56,76,722.00	-	6,08,62,075.00		3,18,32,359.00	1,31,25,059.60	-	4,49,57,418.60	1,59,63,377.60	33,52,994.00
15	Capital Work-in-progress (A)(3)	37,77,96,239.00	56,83,236.00	-	38,34,79,475.00		-	-	-	-	38,34,79,475.00	37,77,96,239.00
	Grand Total (A)(1+2+3)	5,62,64,77,639.00	21,17,72,238.00	-	5,23,82,49,877.00		2,21,96,63,291.02	11,09,79,080.41	-	2,33,06,42,371.43	2,90,76,66,276.77	2,80,68,14,347.99

SCHEDULE 4B - NON-PLAN ASSETS

S. No	DESCRIPTION	GROSS BLOCK				DEPRECIATION				NET BLOCK		
		Opening Balance 01/04/2022	Additions during the year	Deductions/Reclassification during the year	Closing Balance	Dep. rates	Depreciation Opening Balance	Depreciation for the year	Deductions/Adjustment	Total Depreciation	31-03-2023	31-03-2022
<b>NON-PLAN ASSETS</b>												
<b>INTANGIBLE ASSETS</b>												
16	e-journals	4,97,76,168.20	5,08,04,318.00	-	10,05,80,486.20		1,99,10,467.28	4,02,32,194.48	-	6,01,42,661.76	4,04,37,824.44	2,98,65,700.92
	Total (B)	4,97,76,168.20	5,08,04,318.00	-	10,05,80,486.20		1,99,10,467.28	4,02,32,194.48	-	6,01,42,661.76	4,04,37,824.44	2,98,65,700.92

SCHEDULE 4C - OTHER ASSETS

S. No	DESCRIPTION	GROSS BLOCK				DEPRECIATION				NET BLOCK	
		Opening Balance 01/04/2022	Additions during the year	Deductions/Reclassification during the year	Closing Balance	Dep. rates	Depreciation Opening Balance	Depreciation for the year	Deductions/Adjustment	Total Depreciation	31-03-2023
<b>PRG-IRG</b>											
<b>TANGIBLE ASSETS</b>											

17	FRG-RG equipment	10,78,453.00	55,81,144.00	66,59,597.00	5%	94,953.65	3,32,979.85	4,27,933.50	62,31,663.50	9,83,499.35
18	FRG-RG Other assets	-	13,88,989.00	13,88,989.00	8%	-	1,04,174.18	1,04,174.18	12,84,814.83	-
19	Computer & Peripherals	-	43,700.00	43,700.00	20%	-	8,740.00	8,740.00	34,960.00	-
	<b>Total [C][1]</b>	<b>10,78,453.00</b>	<b>70,13,833.00</b>	<b>80,92,286.00</b>		<b>94,953.65</b>	<b>4,45,894.03</b>	<b>5,40,847.68</b>	<b>75,51,438.33</b>	<b>9,83,499.35</b>
<b>INTANGIBLE ASSETS</b>										
20	FRG-RG Software	-	2,35,683.00	2,35,683.00	40%	-	94,273.20	94,273.20	1,41,409.80	-
	<b>Total [C][2]</b>	<b>-</b>	<b>2,35,683.00</b>	<b>2,35,683.00</b>		<b>-</b>	<b>94,273.20</b>	<b>94,273.20</b>	<b>1,41,409.80</b>	<b>-</b>
	<b>Total [C][1+2]</b>	<b>10,78,453.00</b>	<b>72,49,516.00</b>	<b>83,27,969.00</b>		<b>94,953.65</b>	<b>5,40,167.23</b>	<b>6,35,120.88</b>	<b>76,92,848.13</b>	<b>9,83,499.35</b>

S. No		Opening Balance 01/04/2022	Additions during the year	Deductions/Reclassification during the year	Closing Balance	Dep. rates	Depreciation Opening Balance	Depreciation for the year	Deduction s/Adjustment	Total Depreciation	31-03-2023	31-03-2022
21	<b>PROJECT ASSETS</b>											
	TANGIBLE ASSETS											
	Project: equipment		2,61,50,809.00	-	2,61,50,809.00	8%	-	25,61,531.52	-	25,61,531.52	2,35,89,277.48	-
	<b>Total [D]</b>	<b>-</b>	<b>2,61,50,809.00</b>	<b>-</b>	<b>2,61,50,809.00</b>		<b>-</b>	<b>25,61,531.52</b>	<b>-</b>	<b>25,61,531.52</b>	<b>2,35,89,277.48</b>	<b>-</b>
	<b>HEFA ASSETS</b>											
	TANGIBLE ASSETS											
	Capital Work-in-progress	60,00,000.00	47,78,000.00	-	60,47,78,000.00	-	-	-	-	-	60,47,78,000.00	60,00,000.00
23	Residential Building	64,93,63,905.00	-	-	64,93,63,905.00	2%	1,29,87,278.10	1,29,87,278.10	-	2,59,74,556.20	62,33,89,348.80	63,63,76,626.90
24	Equipments	8,95,15,578.00	4,53,600.00	-	8,99,69,178.00	8%	67,13,668.35	71,97,534.24	-	1,39,11,202.59	7,60,57,975.41	8,28,01,909.65
	<b>Total [E]</b>	<b>1,33,88,79,483.00</b>	<b>52,31,600.00</b>	<b>-</b>	<b>1,34,41,11,083.00</b>		<b>1,97,00,946.45</b>	<b>2,01,84,812.34</b>	<b>-</b>	<b>3,98,85,758.79</b>	<b>1,30,42,25,324.21</b>	<b>1,31,91,78,536.55</b>

S. No		Opening Balance 01/04/2022	Additions during the year	Deductions/Reclassification during the year	Closing Balance	Dep. rates	Depreciation Opening Balance	Depreciation for the year	Deduction s/Adjustment	Total Depreciation	31-03-2023	31-03-2022
	<b>OTHER ASSETS</b>											
	TANGIBLE ASSETS											
25	Furniture & fixtures	-	43,348.00	-	43,348.00	8%	-	3,251.10	-	3,251.10	40,096.90	-
26	Vehicles	-	72,02,506.00	-	72,02,506.00	10%	-	7,20,250.60	-	7,20,250.60	64,82,255.40	-
	<b>Total [F]</b>	<b>-</b>	<b>72,45,854.00</b>	<b>-</b>	<b>72,45,854.00</b>		<b>-</b>	<b>7,23,501.70</b>	<b>-</b>	<b>7,23,501.70</b>	<b>65,22,352.30</b>	<b>-</b>
	<b>Grand Total [A+B+C+D+E+F]</b>	<b>6,41,62,11,743.20</b>	<b>30,84,54,335.00</b>	<b>-</b>	<b>6,72,46,66,078.20</b>		<b>2,25,93,69,658.40</b>	<b>17,52,21,287.68</b>	<b>-</b>	<b>2,43,45,90,946.08</b>	<b>4,29,01,33,853.32</b>	<b>4,15,68,47,084.81</b>



*R. Ramesh*

*[Signature]*  
Registrar

निदेशक  
Director  
राष्ट्रीय प्रौद्योगिकी संस्थान कलिकट  
National Institute of Technology Calicut  
कलिकट / Calicut - 673601

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**SCHEDULE 5 - INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS**

(Amount in Rupees)

Particulars	Current Year	Previous Year
<b>Long term</b>		
1. In Central Government Securities	-	-
2. In State Government Securities	-	-
3. Other approved Securities	-	-
4. Shares	-	-
5. Debentures and Bonds	-	-
6. Term Deposits with Banks	1,65,37,77,505.00	85,99,74,638.00
7. Others	-	-
<b>Total (A)</b>	<b>1,65,37,77,505.00</b>	<b>85,99,74,638.00</b>
<b>Short term</b>		
1. In Central Government Securities	-	-
2. In State Government Securities	-	-
3. Other approved Securities	-	-
4. Shares	-	-
5. Debentures and Bonds	-	-
6. Term Deposits with Banks	-	-
7. Others (Letter of Credit)	-	-
<b>Total (B)</b>	<b>0.00</b>	<b>0.00</b>
<b>Grand Total (A+B)</b>	<b>1,65,37,77,505.00</b>	<b>85,99,74,638.00</b>



*RR Masad*

निदेशक  
Director

राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
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कालिकट / Calicut - 673601

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Registrar

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National Institute of Technology Calicut

**SCHEDULE 6 - INVESTMENTS OTHERS**

(Amount in Rupees)

Particulars	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. Others (to be specified)	-	-
<b>Total</b>	-	-



*[Handwritten Signature]*

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Registrar

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National Institute of Technology Calicut  
Calicut - 673601

*[Handwritten Signature]*

निदेशक  
Director

राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
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**SCHEDULE 7 – CURRENT ASSETS**

(Amount in Rupees)

Particulars	Current Year	Previous Year
<b>1. Stock:</b>		
a) Stores and Spares		
b) Loose Tools		
c) Publications	26,90,029.00	26,90,029.00
d) Laboratory chemicals, consumables and glass ware		
e) Stationary		
<b>2. Sundry Debtors:</b>		
a) Debts Outstanding for a period exceeding six months		
b) Others		
<b>3. Cash in hand</b>	<b>9,19,643.00</b>	<b>6,83,267.00</b>
(i) Cash in hand	260.00	0.00
(ii) Imprest	9,19,383.00	6,83,267.00
<b>4. Cash in Bank</b>		
a) With Scheduled Banks:		
In Current Accounts	-7,50,28,779.41	-1,37,36,044.66
In Term deposit Accounts	2,89,89,86,351.96	1,13,55,05,210.96
In Savings Accounts	1,01,38,82,810.00	2,62,53,84,479.60
In EEFC Accounts (USD)	24,88,801.70	24,88,801.70
b) With non-Scheduled Banks:		
In Term deposit Accounts	-	-
In Savings Accounts	-	-
<b>5. Post Office- Savings Accounts</b>		
<b>6. Cash in Treasury</b>	<b>31,16,661.00</b>	<b>31,16,661.00</b>
<b>Total</b>	<b>3,84,70,55,517.25</b>	<b>3,75,61,32,404.60</b>



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*Arvind*

निदेशक  
Director

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**SCHEDULE 8 – LOANS, ADVANCES & DEPOSITS**

(Amount in Rupees)

Particulars	Current Year	Previous Year
<b>1. Advances to employees: (Interest bearing)</b>		
a) Salary		
b) Festival	(1,61,485.00)	(1,61,485.00)
c) LTC	8,33,760.00	6,91,620.00
e) Special EL&LTC	8,75,403.00	13,72,674.00
e) Medical Advance	5,49,587.00	2,86,400.00
f) Travelling advance	11,98,452.67	12,18,547.67
g) Computer advance	(1,89,489.00)	(1,89,489.00)
h) Marriage advance	(66,184.00)	(66,184.00)
i) Other (Plan & Dept. advances)	16,68,39,090.83	82,50,869.30
<b>2. Long Term Advances to employees: (Interest bearing)</b>		
a) Vehicle loan	97,473.00	1,24,457.00
b) Home loan	(38,64,167.00)	(35,62,034.00)
c) Others (to be specified)	-	-
<b>3. Advances and other amounts recoverable in cash or in kind or for value to be received:</b>		
a) On Capital Account	60,39,00,468.00	60,39,00,468.00
b) To suppliers		(4,12,375.00)
c) Deficit Balance of Grants (Excess of expenditure)	-	-
d) TDS deducted on bank interest	3,15,43,166.00	2,47,61,495.00
e) Rent Receivable	1,23,79,855.00	54,08,084.00
f) Tuition Fee Receivable	97,50,558.00	-
g) Other Receivable	29,86,566.00	-
<b>4. Prepaid Expenses</b>		
a) Insurance	2,49,235.00	4,76,242.00
b) Other expenses	-	-
<b>5. Deposits</b>		
a) Telephone	-	-
b) Lease Rent	-	-



  
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 National Institute of Technology Calicut  
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c) Electricity	64,98,142.00	56,93,967.00
d) AICTE, if applicable	91,389.00	91,389.00
e) MCI, if applicable	-	-
f) Others (to be specified)	-	-
<b>6. Income Accrued:</b>		
a) On Investments from Earmarked/ Endowment Funds	41,888.00	6,67,67,076.00
b) On Investments- Term Deposits	2,85,61,665.92	17,26,94,824.92
c) On Security Deposit with KSEB	2,15,573.00	2,15,573.00
d) Others (includes income due unrealized-Rs.....)	-	-
<b>7. Other - Current assets receivable from UGC/sponsored projects/Govt. grants</b>		
a) Debit balances in Sponsored Projects	-	53,91,748.75
b) Debit balances in Sponsored Fellowships & Scholarships	5,93,598.00	8,86,709.25
c) Grants Receivable	-	-
d) Other receivables from UGC	-	-
<b>8. Claims Receivable</b>		
<b>Total</b>	<b>86,29,24,545.42</b>	<b>89,38,40,577.89</b>



  
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**SCHEDULE 9 – ACADEMIC RECEIPTS**


(Amount in Rupees)

Particulars	Current Year	Previous Year
<b>FEES FROM STUDENTS</b>		
<b>Academic</b>		
1. Tuition fee	44,36,44,712.00	38,69,96,760.92
2. Admission fee	85,65,000.00	6,45,000.00
3. Enrolment Fee	-	-
4. Library Admission fee	60,05,897.55	32,36,153.55
5. Laboratory fee	-	-
6. Art & Craft fee	-	-
7. Registration fee	61,35,650.00	29,73,500.00
8. Syllabus fee		
9. extra Curricular fee	46,03,500.00	
10. Activities fee	12,96,000.00	
11. Cultural fee	22,07,500.00	
12. Career Development fee	40,09,000.00	
13. Grade card fee	-	
14. Alumni fee	44,08,000.00	
15. Seminar fee /External expert fee	12,24,000.00	
16. Central computing facility fee	17,20,500.00	
17. Thesis fee	3,000.00	
18. Hostel seat rent	2,94,39,000.00	
<b>Total (A)</b>	<b>51,32,61,759.55</b>	<b>39,38,51,414.47</b>
<b>Examinations</b>		
1. Admission test fee	-	-
2. Annual Examination fee	1,18,70,200.00	77,25,025.00
3. Mark sheet, certificate fee	52,200.00	3,71,150.00
4. Entrance examination fee	-	-
<b>Total (B)</b>	<b>1,19,22,400.00</b>	<b>80,96,175.00</b>



  
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<b>Other fees</b>			
1. Identity card fee	1,01,800.00	11,100.00	
2. Fine/Miscellaneous fee	36,70,250.00	34,06,493.00	
3. Medical fee	-	-	
4. Transportation fee	-	-	
5. Convocation fee	-	-	
6. Academic IRG	7,59,693.00	3,25,13,144.50	
7. Internet fee	10,39,000.00		
8. Health care facility fee	10,24,000.00		
9. Other user fee charges ACDMC/ADMSNS	-		
<b>Total (C)</b>	<b>65,94,743.00</b>	<b>3,59,30,737.50</b>	
<b>Sale of publications</b>			
1. Sale of Admission forms	12,44,650.00	0.00	
2. Sale of syllabus and Question Paper, etc.	-	-	
3. Sale of prospectus	-	-	
<b>Total (D)</b>	<b>12,44,650.00</b>	<b>0.00</b>	
<b>Other Academic Receipts</b>			
1. Registration fees for workshops, programmes	-	-	
2. Registration fees (Academic Staff College)	-	-	
<b>Total (E)</b>	<b>-</b>	<b>-</b>	
<b>GRAND TOTAL (A+B+C+D+E)</b>	<b>53,30,23,552.55</b>	<b>43,78,78,326.97</b>	



  
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National Institute of Technology Calicut  
कालिकट - 673001



**निदेशक**  
**Director**

राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
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**SCHEDULE 10 – GRANTS/DONATIONS/SUBSIDIES**

(Amount in Rupees)

Particulars	Plan			Total Plan	Non Plan Govt. of India	Current Year Total	Previous Year Total
	Govt. of India	UGC					
		Plan	Specific Schemes				
Balance B/F	47,98,16,429.00	-	-	47,98,16,429.00	-	47,98,16,429.00	49,16,74,195.00
Add: Receipts during the year	28,58,00,000.00	-	-	28,58,00,000.00	1,83,63,91,309.00	2,12,21,91,309.00	1,58,00,29,297.00
Add: Adjustment of Grant receivable from GOI							
<b>Total</b>	<b>76,56,16,429.00</b>			<b>76,56,16,429.00</b>	<b>1,83,63,91,309.00</b>	<b>2,60,20,07,738.00</b>	<b>2,07,17,03,492.00</b>
Less: Refund							
<b>Balance</b>	<b>76,56,16,429.00</b>			<b>76,56,16,429.00</b>	<b>1,83,63,91,309.00</b>	<b>2,60,20,07,738.00</b>	<b>2,07,17,03,492.00</b>
Less: Utilised for Capital Expenditure	21,17,72,238.00			21,17,72,238.00		21,17,72,238.00	8,62,57,766.00
Less: Advance from Plan fund	55,38,44,191.00			55,38,44,191.00		55,38,44,191.00	
<b>Balance</b>					<b>1,83,63,91,309.00</b>	<b>1,83,63,91,309.00</b>	<b>1,98,54,45,726.00</b>
Less: Utilised for Revenue Expenditure					1,83,63,91,309.00	1,83,63,91,309.00	1,44,85,85,330.00
Less: Lapsed amount							5,70,43,967.00
<b>Balance C/F</b>							<b>47,98,16,429.00</b>



*(Signature)*  
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राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
 National Institute of Technology Calicut  
 कालिकट / Calicut - 673601

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 निदेशक  
 Director  
 राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
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**SCHEDULE 11 - INCOME FROM INVESTMENTS**

(Amount in Rupees)

Particulars	Earmarked/ Endowment Funds, GPF& CPF		Other investments	
	Current Year	Previous Year	Current Year	Previous Year
1) Interest				
a) On Govt. Securities	-	-	-	-
b) Other Bonds/Debentures	-	-	-	-
2) Interest on Term Deposits	17,10,47,077.00	3,10,02,845.00	11,36,44,407.00	7,34,28,759.00
3) Income accrued but not due on Term Deposits/ Interest bearing advances to employees	41,888.00	6,67,67,076.00	-	-
4) Interest on Savings Banks Accounts	55,77,854.00	1,14,47,986.00	-	-
5) GPF& CPF	3,19,02,231.00	2,13,74,184.00	-	-
<b>Total</b>	<b>20,85,69,050.00</b>	<b>13,05,92,091.00</b>	<b>11,36,44,407.00</b>	<b>7,34,28,759.00</b>
Transferred to Earmarked/Endowment Funds	20,85,69,050.00	13,05,92,091.00	-	-
Balance	-	-	11,36,44,407.00	7,34,28,759.00



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*R. Prasad*

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**SCHEDULE 12 – INTEREST EARNED**

(Amount in Rupees)

Particulars	Current Year	Previous Year
1. On Savings account with scheduled Banks	2,73,35,107.00	3,33,28,091.00
2. On Loans	0.00	1,87,800.00
a. Employees/Staff	-	-
b. Others	-	-
3. On Debtors and other receivables	-	-
<b>Total</b>	<b>2,73,35,107.00</b>	<b>3,35,15,891.00</b>



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**SCHEDULE 13- OTHER INCOME**

(Amount in Rupees)

Particulars	Current Year	Previous Year
<b>A. Income from Land &amp; Building</b>		
1. Hostel Room Rent	1,30,52,691.00	0.00
2. License fee	43,62,464.00	58,59,562.00
3. Hire Charges of Auditorium/Play ground/Convention Centre, etc	-	-
4. Electricity charges recovered	1,85,14,520.00	51,18,125.00
5. Water charges recovered	3,18,454.00	1,01,380.00
6. Others	3,25,044.00	5,04,502.00
<b>Total</b>	<b>3,65,73,173.00</b>	<b>1,15,83,569.00</b>
<b>B. Sale of Institute's publications</b>	-	-
<b>C. Income from holding events</b>		
1. Gross Receipts from annual function/ sports carnival	-	-
Less: Direct expenditure incurred on the annual function/ sports carnival	-	-
2. Gross Receipts from fetes	-	-
Less: Direct expenditure incurred on the fetes	-	-
3. Gross Receipts for educational tours	-	-
Less: Direct expenditure incurred on the tours	-	-
4. Others (to be specified and separately disclosed)	-	-
<b>Total</b>	<b>-</b>	<b>-</b>
<b>D. Others</b>		
1. Income from consultancy	87,06,749.00	33,30,043.50
2. RTI fees	490.00	335.00
3. Income from Royalty	-	-
4. Sale of application form (recruitment)	-	-



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5. Misc. receipts (Sale of tender form, waste paper, etc.)	8,17,39,999.50	62,90,123.00
6. Profit on Sale/disposal of Assets:		
a) Owned assets	-	-
b) Assets acquired out of grants, or received free of cost	-	-
Organizations	-	-
8. Others	35,00,836.00	19,43,343.00
<b>Total</b>	<b>9,39,48,074.50</b>	<b>1,15,63,844.50</b>
<b>GRAND TOTAL (A+B+C+D)</b>	<b>13,05,21,247.50</b>	<b>2,31,47,413.50</b>





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**SCHEDULE 14 – PRIOR PERIOD INCOME**

(Amount in Rupees)

Particulars	Current Year	Previous Year
1. Academic Receipts	-	-
2. Income from investments	-	-
3. Interest earned	-	-
4. Other income	1,15,52,872.00	16,44,31,639
<b>Total</b>	<b>1,15,52,872.00</b>	<b>16,44,31,638.96</b>



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**SCHEDULE 15 -- STAFF PAYMENTS & BENEFITS (ESTABLISHMENT EXPENSES)**

(Amount in Rupees)

Particulars	Current Year			Previous Year		
	Plan	Non plan	Total	Plan	Non plan	Total
	a) Salaries and Wages	-	86,52,10,842.00	86,52,10,842.00	-	80,38,06,468.00
b) Allowances and Bonus	-	92,40,580.00	92,40,580.00	-	94,50,919.00	94,50,919.00
c) Contribution to Provident Fund (CPF)	-	-	0.00	-	-	-
d) Contribution to Other Fund (Leave Salary & Pension contribution)	-	12,31,896.00	12,31,896.00	-	0.00	0.00
e) Contribution to New Pension Scheme	-	5,31,71,313.00	5,31,71,313.00	-	4,55,12,330.00	4,55,12,330.00
f) Staff Welfare Expenses	-	-	0.00	-	-	-
g) Retirement and Terminal Benefits	-	31,08,95,965.00	31,08,95,965.00	-	32,54,23,727.00	32,54,23,727.00
h) LTC facility	-	74,34,697.00	74,34,697.00	-	1,28,89,826.00	1,28,89,826.00
i) Medical facility	-	19,06,852.00	19,06,852.00	-	17,70,660.00	17,70,660.00
j) Children Education Allowance	-	63,82,600.00	63,82,600.00	-	80,78,378.00	80,78,378.00
k) Honorarium	-	49,26,208.00	49,26,208.00	-	17,45,820.00	17,45,820.00
l) Travelling Allowances	-	53,02,557.00	53,02,557.00	-	49,01,704.00	49,01,704.00
m) Others (Stipend to Trainees)	-	4,07,148.00	4,07,148.00	-	-	0.00
n) Provision for gratuity and leave encashment	-	2,07,86,736.00	2,07,86,736.00	-	6,02,74,315.00	6,02,74,315.00
<b>Total</b>	-	<b>1,28,68,97,394.00</b>	<b>1,28,68,97,394.00</b>	-	<b>1,27,38,54,147.00</b>	<b>1,27,38,54,147.00</b>



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**SCHEDULE 15A – EMPLOYEES RETIREMENT AND TERMINAL BENEFITS**

Particulars	(Amount in Rupees)			
	Pension	Gratuity	Leave Encashment	Total
Opening Balance as on	-	27,20,04,846.00	33,05,68,616.00	60,25,73,462.00
Addition: Capitalised value of Contributions received from other Organisations	-	-	-	-
<b>Total (a)</b>	-	<b>27,20,04,846.00</b>	<b>33,05,68,616.00</b>	<b>60,25,73,462.00</b>
Less: Actual payment during the year (b)	-	-	-	-
Balance available on 31/03/2023 (C)	-	27,20,04,846.00	33,05,68,616.00	60,25,73,462.00
Provision required as on 31/03/2023 as per Actuarial Valuation (d)	-	30,87,93,151.00	31,45,67,047.00	62,33,60,198.00
A. Provision to be made in current year (d-c)	-	3,67,88,305.00	(1,60,01,569.00)	2,07,86,736.00
B. Contribution to Pension scheme	-	-	-	-
C. Medical Reimbursement to Retired Employees	-	-	-	-
D. Travel to Hometown on Retirement	-	-	-	-
E. Deposit Linked Insurance Payment	-	-	-	-
<b>Total ( A+B+C+D+E)</b>	-	<b>3,67,88,305.00</b>	<b>(1,60,01,569.00)</b>	<b>2,07,86,736.00</b>



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**SCHEDULE 16 – ACADEMIC EXPENSES**

(Amount in Rupees)

Particulars	Current Year			Previous Year		
	Plan	Non plan	Total	Plan	Non plan	Total
	a) Laboratory expenses	-	-	-	-	-
b) Field work/Participation in Conferences	-	0.00	-	-	0.00	0.00
c) Expenses on Seminars/Workshops	-	-	-	-	-	-
d) Payment to visiting faculty	-	-	-	-	-	-
e) Examination	-	-	-	-	-	-
f) Student Welfare expenses	-	-	-	-	-	-
g) Admission expenses	-	-	-	-	-	-
h) Convocation expenses	-	28,92,279.00	28,92,279.00	-	5,87,697.00	5,87,697.00
i) Publications	-	-	-	-	-	-
j) Stipend/means-cum-merit scholarship	-	25,89,60,467.00	25,89,60,467.00	-	28,70,56,755.00	28,70,56,755.00
k) Books, periodicals, journals and e-journals	-	18,44,997.04	18,44,997.04	-	24,04,841.44	24,04,841.44
l) Others (FDP,R&D,Medals & prizes)	-	1,51,71,821.00	1,51,71,821.00	-	1,31,39,286.00	1,31,39,286.00
<b>Total</b>	-	<b>27,88,69,564.04</b>	<b>27,88,69,564.04</b>	-	<b>30,31,88,579.44</b>	<b>30,31,88,579.44</b>



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**SCHEDULE 17 – ADMINISTRATIVE AND GENERAL EXPENSES**

(Amount in Rupees)

Particulars	Current Year			Previous Year		
	Plan	Non plan	Total	Plan	Non plan	Total
<b>A) Infrastructure</b>						
a) Electricity and power	-	5,18,22,424.63	5,18,22,424.63	-	3,07,33,312.00	3,07,33,312.00
b) Water charges	-	-	-	-	-	-
c) Insurance	-	-	-	-	-	-
d) Rent, Rates and Taxes (including property tax)	-	11,68,983.00	11,68,983.00	-	1,87,782.00	1,87,782.00
<b>B) Communication</b>						
e) Postage & telegram	-	9,04,894.00	9,04,894.00	-	2,99,429.00	2,99,429.00
f) Telephone, Fax and Internet Charges	-	1,53,825.00	1,53,825.00	-	4,36,760.00	4,36,760.00
<b>C) Others</b>						
g) Printing and Stationary	-	16,82,438.00	16,82,438.00	-	15,42,213.00	15,42,213.00
h) Traveling and Conveyance Expenses	-	-	-	-	-	-
i) Hospitality	-	21,75,817.00	21,75,817.00	-	2,89,408.00	2,89,408.00
j) Auditors Remuneration	-	1,55,480.00	1,55,480.00	-	1,92,410.00	1,92,410.00
k) Professional Charges	-	-	-	-	-	-
l) Advertisement and Publicity	-	16,02,768.00	16,02,768.00	-	27,64,787.00	27,64,787.00
m) Magazines & Journals	-	-	-	-	-	-
n) Legal charges	-	35,29,000.00	35,29,000.00	-	6,05,726.00	6,05,726.00
o) Hospital contingencies	-	28,66,010.00	28,66,010.00	-	28,11,376.00	28,11,376.00
p) Department Operating Charges (DOC)	-	4,76,99,550.47	4,76,99,550.47	-	1,11,88,967.00	1,11,88,967.00
q) Others	-	-	-	-	-	-
(OE&Misc., T&P, Hindi translation)	-	1,47,33,293.00	1,47,33,293.00	-	40,74,689.00	40,74,689.00
<b>Total</b>	-	<b>12,84,94,483.10</b>	<b>12,84,94,483.10</b>	-	<b>5,51,26,859.00</b>	<b>5,51,26,859.00</b>



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**SCHEDULE 18 – TRANSPORTATION EXPENSES**

(Amount in Rupees)

Particulars	Current Year			Previous Year		
	Plan	Non plan	Total	Plan	Non plan	Total
	1. Vehicles (owned by educational institution)					
a) Running expenses	-	17,88,327.00	17,88,327.00	-	11,37,031.00	11,37,031.00
b) Repairs & maintenance	-	-	-	-	-	-
c) Insurance expenses	-	1,29,149.00	1,29,149.00	-	2,01,221.00	2,01,221.00
2. Vehicles taken on rent/lease						
a) Rent/lease expenses	-	-	-	-	-	-
3. Vehicle (Taxi) hiring expenses	-	-	-	-	-	-
<b>Total</b>	-	<b>19,17,476.00</b>	<b>19,17,476.00</b>	-	<b>13,38,252.00</b>	<b>13,38,252.00</b>



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 Kozhikode, Kerala - 673601

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**SCHEDULE 19 – REPAIRS & MAINTENANCE**

(Amount in Rupees)

Particulars	Current Year			Previous Year		
	Plan	Non plan		Plan	Non plan	
		Total	Total		Total	Total
a) Building	-	3,50,70,939.00	3,50,70,939.00	-	1,05,88,823.00	1,05,88,823.00
1. Institute building	-	1,65,196.00	1,65,196.00	-	1,92,194.00	1,92,194.00
2. Guest house	-	3,48,834.00	3,48,834.00	-	-15,000.00	-15,000.00
3. Hostels	-	11,58,562.00	11,58,562.00	-	3,34,365.00	3,34,365.00
4. Pump & filter house	-	12,74,759.00	12,74,759.00	-	14,11,172.00	14,11,172.00
5. Quarters	-	-	-	-	-	-
b) Furniture & Fixture	-	22,55,325.00	22,55,325.00	-	14,76,962.00	14,76,962.00
c) Plant & Machinery (Major)	-	-	-	-	-	-
d) Office Equipments	-	0.00	0.00	-	1,51,126.00	1,51,126.00
e) Computers	-	41,252.00	41,252.00	-	0.00	0.00
f) Laboratory & Scientific equipments (Minor)	-	-	-	-	-	-
g) Cleaning Material & Services	-	-	-	-	-	-
h) Book binding charges	-	-	-	-	-	-
i) Gardening	-	-	-	-	-	-
j) Others	-	-	-	-	-	-
1. Campus	-	7,79,08,671.00	7,79,08,671.00	-	5,64,43,582.00	5,64,43,582.00
2. Water supply	-	6,94,386.00	6,94,386.00	-	8,70,991.00	8,70,991.00
3. Electrical installations	-	72,97,875.68	72,97,875.68	-	17,96,092.00	17,96,092.00
4. Play fields	-	-	-	-	0.00	0.00
5. Campus Road	-	0.00	0.00	-	0.00	0.00
6. Staff Club	-	-	-	-	-	-
<b>Total</b>	-	<b>12,62,15,799.68</b>	<b>12,62,15,799.68</b>	-	<b>7,32,50,307.00</b>	<b>7,32,50,307.00</b>



  
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**SCHEDULE 20 – FINANCE COSTS**

(Amount in Rupees)

Particulars	Current Year			Previous Year		
	Plan	Non plan	Total	Plan	Non plan	Total
	a) Bank charges	-	88,683.00	88,683.00	-	1,16,928.25
b) Others (HEFA Interest)	-	35191309.00	35191309.00	-	4,24,60,297.00	4,24,60,297.00
<b>Total</b>	<b>-</b>	<b>3,52,79,992.00</b>	<b>3,52,79,992.00</b>	<b>-</b>	<b>4,25,77,225.25</b>	<b>4,25,77,225.25</b>



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**SCHEDULE 21 – OTHER EXPENSES**

(Amount in Rupees)

Particulars	Current Year			Previous Year		
	Plan	Non plan	Total	Plan	Non plan	Total
	a) Provision for Bad and Doubtful Debts/Advances	-	-	-	-	-
b) Irrecoverable Balances Written-off	-	-	-	-	-	-
c) Grants/Subsidies to other institutions/organizations	-	-	-	-	5,70,43,967.56	5,70,43,967.56
d) Others-Actuarial Valuation cost components	-	-	-	-	-	-
i) Interest Costs	-	-	-	-	-	-
ii) Current Service Costs	-	-	-	-	-	-
iii) Net Actuarial Gain	-	-	-	-	-	-
<b>Total</b>	-	<b>0.00</b>	<b>0.00</b>	-	<b>5,70,43,967.56</b>	<b>5,70,43,967.56</b>



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**SCHEDULE 22 – PRIOR PERIOD EXPENSES**

(Amount in Rupees)

Particulars	Current Year		Previous Year	
	Plan	Total	Plan	Total
	Non plan	Non plan	Non plan	Non plan
1. Establishment expenses	-	-	-	-
2. Academic expenses	-	-	-	-
3. Administrative expenses	-	-	-	-
4. Transportation expenses	-	-	-	-
5. Repairs and Maintenance	-	-	-	-
6. Others	-	48,17,802.45	-	1,07,39,722.11
<b>Total</b>	-	<b>48,17,802.45</b>	-	<b>1,07,39,722.11</b>



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राष्ट्रीय प्रौद्योगिकी संस्थान कलिकट  
National Institute of Technology Calicut  
Calicut / Calicut - 673601

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निदेशक  
Director

राष्ट्रीय प्रौद्योगिकी संस्थान कलिकट  
National Institute of Technology Calicut  
Calicut / Calicut - 673601

**NATIONAL INSTITUTE OF TECHNOLOGY, CALICUT**

Cash Flow Statement for the year ended 31.03.2023

	Amount(Rs.)
<b>Cash Flow from Operating Activities:</b>	
Increase/(Decrease) in Current Assets	(3,09,16,032.47)
Increase/(Decrease) in Current Liabilities	(49,96,60,334.61)
<b>Net Cash from Operating Activities</b>	<b>(46,87,44,302.14)</b>
<b>Cash Flow from Investing Activities:</b>	
(Purchase)/Sale of fixed assets	(13,32,33,047.30)
(Purchase)/Sale of investments	(79,38,02,867.00)
Interest received	-
Dividend received	-
<b>Net Cash from Investing Activities</b>	<b>(92,70,35,914.30)</b>
Contd..	
<b>Cash Flow from Financing Activities:</b>	
Additions to general fund during the year	1,37,89,39,491.09
Grants/funds in nature of founders'/promoters' contribution	-
Grants/funds related to assets not requiring fulfillment of any obligation	
Endowment fund (principal sum)	18,66,11,896.00
Cpf &Gpf	39,20,342.00
Proceeds from long term borrowings	52,31,600.00
(Repayment of long-term borrowings)	(8,80,00,000.00)
Interest paid on loans	-
<b>Net Cash Flow From Financing Activities</b>	<b>1,48,67,03,329.09</b>
<b>Net Increase / (Decrease) in Cash equivalents</b>	<b>9,09,23,112.66</b>
<b>Cash and Cash equivalent at the beginning of the period</b>	<b>3,75,34,42,375.60</b>
<b>Cash and Cash equivalent at the end of the period</b>	<b>3,84,43,65,488.26</b>

Cash and Cash equivalent represented by:-	Amount (Rs.)
Cash in Hand	9,19,643.00
Cash in Bank	
- In Current Accounts	(7,50,28,779.41)
- In Savings Accounts	1,01,38,82,810.00
- In Term Deposits	2,89,89,86,351.96
- EEFC Account	24,88,801.70
Cash in Treasury	31,16,661.00
<b>Total</b>	<b>3,84,43,65,488.25</b>

*R. Rasool*

*[Red Signature]*

निदेशक  
Director

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**NATIONAL INSTITUTE OF TECHNOLOGY, CALICUT  
RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR 2022-23**

RECEIPTS		Sch No.	Current Year	Previous Year	PAYMENTS		Sch No.	Current Year	Previous Year
(Amount in Rupees)									
<b>I. Opening Balances</b>									
a) Cash in Hand			6,83,267.00	7,94,449.50	I. Expenses			1,13,14,59,147.00	
b) Bank balances					e) Establishment expenses	37	1,23,78,53,564.00	27,00,20,729.44	
i) In Current accounts			(1,37,36,044.66)	4,63,88,638.04	b) Academic expenses	38	25,69,65,962.04	6,16,50,226.00	
ii) In Savings accounts			2,62,53,84,479.60	2,22,46,83,377.22	c) Administrative expenses	39	13,10,65,946.10	13,38,252.00	
iii) In Deposit accounts			1,99,54,79,848.96	1,89,09,64,747.96	d) Transportation expenses	40	19,17,476.00	7,29,70,324.00	
iv) EEFC Accounts			24,88,801.70	7,37,73,359.52	e) Repairs and Maintenance	41	13,22,34,512.68	4,25,77,225.25	
c) Treasury			31,16,661.00	31,16,661.00	f) Finance Costs	20	3,52,79,992.00		
<b>II. Grants received</b>									
a) From GOI	25		2,12,21,91,309.00	1,58,00,29,297.00	g) Prior period expenses	34	22,87,20,935.00	15,95,59,436.00	
b) From State Govt.					II. Payment against earmarked funds,gpf&cpf				
c) From Other sources									
<b>III. Academic Receipts</b>									
	9		53,30,23,552.55	43,78,78,326.97	III. Payment against sponsored Projects/Schemes	3A	11,55,26,379.85	6,42,79,415.20	
<b>IV. Receipts against Earmarked Endowment Funds,gpf&amp;cpf</b>									
	26		20,88,43,003.00	16,55,47,713.00	IV. Payment against sponsored Fellowships/Scholarships	3B	2,70,11,787.50	5,06,11,684.04	
<b>V. Receipts against Sponsored Projects/Schemes</b>									
	3A		8,63,34,192.00	8,46,42,594.98	V. Investments and Deposits made				
					a) Out of Earmarked/ Endowment funds				
					b) Out of own funds				
<b>VI. Receipts against Sponsored Fellowships and Scholarships</b>									
	3B		2,72,28,227.25	4,68,61,916.54	VI. Term Deposits with Scheduled Banks				
<b>VII. Income on Investments from</b>									
a) Earmarked/Endowment funds	27		37,37,04,001.08	5,31,85,304.00	VII. Expenditure on fixed Assets and Capital Works-in-Progress	4	32,81,80,794.00	1,50,31,74,861.20	
b) Other Investments					a) Fixed Assets		1,04,61,236.00	(1,36,63,97,291.00)	
<b>VIII. Interest received on</b>									
a) Bank Deposits	28		16,94,03,278.92	8,78,31,588.00	VIII. Other payments including Statutory payments	42	40,20,12,054.48	40,45,79,914.08	
b) Loans and Advances									
c) Savings Bank Accounts	29		4,04,84,628.00	3,48,68,961.00					
<b>IX. Investments encashed</b>									
					IX. Refund of Grants				
<b>X. Term Deposits with Scheduled Banks encashed</b>									
	30		9,03,37,462.50	1,82,08,417.50	X. Deposits and Advances repaid	35	57,83,684.00	45,52,777.00	
<b>XI. Other Income (Including Prior Period Income)</b>									
	31		1,49,64,278.30	59,99,278.40	XI. Deposits made (Cash Security Deposit with KSEB)	36	17,59,87,905.00	10,82,46,170.00	
<b>XII. Deposits and Advances Received</b>									
	32		1,73,68,594.47	1,36,22,229.00	XII. Loans and Advances given				
<b>XIII. Loans and Advances given repaid</b>									
	33		28,98,45,670.57	35,42,43,023.52	XIII. Closing balances				
<b>XIV. Miscellaneous Receipts including Statutory receipts</b>									
					a) Cash in Hand		9,19,643.00	6,83,267.00	
<b>XV. Any other receipts</b>									
					b) Bank balances		(7,50,28,779.41)	(1,37,36,044.66)	
					i) In Current accounts		1,01,38,82,810.00	2,62,53,84,479.60	
					ii) In Savings accounts		4,55,27,63,856.96	1,99,54,79,848.96	
					iii) In Deposit accounts		24,88,801.70	24,88,801.70	
					iv) EEFC Accounts		31,16,661.00	31,16,661.00	
					c) Treasury				
<b>TOTAL</b>			<b>8,58,71,45,221.90</b>	<b>7,12,20,39,883.81</b>	<b>TOTAL</b>		<b>8,58,71,45,221.90</b>	<b>7,12,20,39,883.81</b>	



*[Handwritten Signature]*

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*[Handwritten Signature]*

निदेशक  
Director

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National Institute of Technology Calicut

**NATIONAL INSTITUTE OF TECHNOLOGY CALCUT**  
**SCHEDULES FORMING PART OF RECEIPTS & PAYMENTS ACCOUNT FOR THE YEAR 2022-23**  
**25. GRANTS RECEIVED**

Particulars	(Amount in Rupees)	
	Current Year	Previous Year
1. Plan	28,58,00,000.00	7,44,00,000.00
2. Non Plan	1,83,63,91,309.00	1,50,56,29,297.00
	2,12,21,91,309.00	1,58,00,29,297.00
Less: Current year Grants Receivable Plan	-	-
Non Plan	-	-
Add: Previous year Grants received Plan	-	-
Non Plan	-	-
<b>Net Receipt</b>	<b>2,12,21,91,309.00</b>	<b>1,58,00,29,297.00</b>

**26. RECEIPTS AGAINST EARMARKED ENDOWMENT FUNDS, GPF & CPF**

Particulars	(Amount in Rupees)	
	Current Year	Previous Year
1. TEQIP I	0.00	0.00
2. TEQIP II	0.00	0.00
3. TEQIP III	20,225.00	20,12,846.00
4. GPF	4,18,47,149.00	4,83,07,776.00
5. CPF	10,17,18,501.00	8,00,70,458.00
6. FBS	-	0.00
7. Growth Fund	3,31,62,500.00	1,46,34,750.00
8. Students Fund	2,03,27,277.00	1,19,28,740.00
9. TBI	54,50,482.00	18,81,532.00
10. TBI II	0.00	0.00
10. TEQIP II modernisation fund	0.00	0.00
11. Teqij reserves	0.00	0.00



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*[Signature]*  
 निदेशक  
 Director  
 राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
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12. Gymkhana	33,03,922.00	1,13,300.00
13. HWD	0.00	4,09,000.00
14. TBI Nidhi Prayas	30,12,947.00	61,89,311.00
Less: non cash items	-	0.00
<b>Net Receipt</b>	<b>20,88,43,003.00</b>	<b>16,55,47,713.00</b>

### 27. INCOME ON INVESTMENTS EARMARKED FUNDS, GPF&CPF

Particulars	(Amount in Rupees)	
	Current Year	Previous Year
1. TEQIP I	-	0.00
2. TEQIP II	-	0.00
3. TEQIP III	-	0.00
4. GPF	3,27,74,349.00	2,27,44,633.00
5. CPF	-	0.00
6. FBS	-	0.00
7. Growth Fund	17,61,21,152.00	10,70,06,314.00
8. Students Fund	55,912.00	52,816.00
9. TBI	3,23,659.00	4,28,573.00
10. TEQIP II modernisation fund	-	0.00
11. Teqip reserves	1,66,096.00	17,30,204.00
12. Gymkhana	-	0.00
13. HWD	-	0.00
Add: Interest accrued in the previous year and realised in the current year	20,94,41,168.00	13,19,62,540.00
Less: Interest accrued not yet received	18,13,84,836.08	7,87,77,236.00
<b>Net Receipt</b>	<b>37,37,04,001.08</b>	<b>5,31,85,304.00</b>

### 28. INTEREST ON BANK DEPOSITS

Particulars	(Amount in Rupees)	
	Current Year	Previous Year
1. Interest on fixed deposit of Plan Fund	91,95,798.00	2,28,45,761.00
2. Interest on other Fixed Deposits	11,36,44,407.00	7,34,28,759.00



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*[Signature]*  
 निदेशक  
 Director

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Add: Interest accrued in the previous year and realised in the current year	12,28,40,205.00	9,62,74,520.00
Less: Interest accrued not yet received	5,80,44,624.92	89,87,944.00
	1,14,81,551.00	1,74,30,876.00
<b>Net Receipt</b>	<b>16,94,03,278.92</b>	<b>8,78,31,588.00</b>

### 29. INTEREST ON SAVINGS BANK DEPOSITS

Particulars	(Amount in Rupees)	
	Current Year	Previous Year
1. Interest on SB A/c of Plan Fund	1,31,49,521.00	15,40,870.00
2. Interest on other SB Accounts	2,73,35,107.00	3,33,28,091.00
3. Interest on SB Accounts of Earmarked Funds	4,04,84,628.00	3,48,68,961.00
Less: Interest accrued not yet received		
<b>Net Receipt</b>	<b>4,04,84,628.00</b>	<b>3,48,68,961.00</b>

### 30. OTHER INCOME INCLUDING PRIOR PERIOD INCOME

Particulars	(Amount in Rupees)	
	Current Year	Previous Year
1. Prior period Income	1,15,52,872.00	16,44,31,638.96
2. Other Income	13,05,21,247.50	2,31,47,413.50
3. Interest on cash security deposit with KSEB		0.00
Add: Interest accrued on cash security deposit with KSEB in the previous year realised	14,20,74,119.50	18,75,79,052.46
Less: Non Cash Items	5,17,36,657.00	16,93,70,634.96
<b>Net Receipt</b>	<b>9,03,37,462.50</b>	<b>1,82,08,417.50</b>

### 31. DEPOSITS AND ADVANCES RECEIVED

Particulars	(Amount in Rupees)	
	Current Year	Previous Year
1. EMD	26,87,587.00	6,80,900.00
2. Security Deposit & Bank Guarantee	12,48,691.30	13,77,878.40



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निदेशक  
 Director

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*[Signature]*



3. Caution Deposit	1,10,28,000.00	33,40,500.00
<b>Net Receipt</b>	<b>1,49,64,278.30</b>	<b>53,99,278.40</b>

### 32. LOANS AND ADVANCES GIVEN RECEIVED BACK

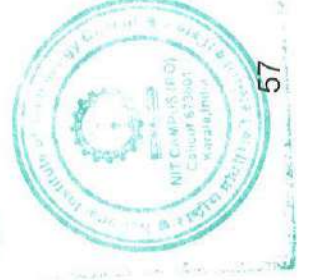
(Amount in Rupees)

Particulars	Current Year	Previous Year
1. Advances given to employees	1,73,68,594.47	1,36,22,229.00
2. Other Advances	0.00	0.00
<b>Net Receipt</b>	<b>1,73,68,594.47</b>	<b>1,36,22,229.00</b>

### 33. MISCELLANEOUS RECEIPTS INCLUDING STATUTORY RECEIPTS

(Amount in Rupees)

Particulars	Current Year	Previous Year
1. Statutory Receipts	18,18,49,354.57	15,86,06,233.00
2. Other Miscellaneous receipts	10,79,53,466.00	19,56,36,790.52
3. All other misc receipts	42,850.00	
<b>Net Receipt</b>	<b>28,98,45,670.57</b>	<b>35,42,43,023.52</b>



  
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**NATIONAL INSTITUTE OF TECHNOLOGY CALICUT**

**SCHEDULES FORMING PART OF RECEIPTS & PAYMENTS ACCOUNT FOR THE YEAR 2022-23**

**34. PAYMENTS AGAINST EARMARKED ENDOWMENT FUNDS, GPF & CPF**

(Amount in Rupees)

Particulars	Current Year	Previous Year
1. TEQIP I	0.00	0.00
2. TEQIP II	3,94,391.00	0.00
3. TEQIP III	7,53,694.00	26,89,037.00
4. GPF	7,36,70,670.00	4,55,47,836.00
5. CPF	9,87,48,987.00	8,53,22,719.00
6. FBS	0.00	0.00
7. Growth Fund	1,00,000.00	44,390.00
8. Students Fund	2,78,05,187.00	38,71,512.00
9. TBI	32,86,129.00	20,46,614.00
10. TEQIP II modernisation fund	0.00	0.00
11. Teqip reserves	1,20,45,840.00	0.00
12. Gymkhana	11,534.00	0.00
13. HWD	67,250.00	1,59,614.00
14. TBI Nidhi Prayas	1,18,37,253.00	1,98,77,714.00
<b>Net Payment</b>	<b>22,87,20,935.00</b>	<b>15,95,59,436.00</b>

**35. DEPOSITS REPAID**

(Amount in Rupees)

Particulars	Current Year	Previous Year
1. EMD	20,43,113.00	10,02,411.00
2. Security Deposit	12,83,071.00	12,46,966.00
3. Caution Deposit	24,57,500.00	23,03,400.00
<b>Net Payment</b>	<b>57,83,684.00</b>	<b>45,52,777.00</b>



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*R. Ramesh*

डायरेक्टर  
Director

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**36. LOANS AND ADVANCES GIVEN**

(Amount in Rupees)		
Particulars	Current Year	Previous Year
1. Advances given to employees	1,59,87,905.00	91,92,901.00
2. Other Advances	16,00,00,000.00	9,90,53,269.00
<b>Net Payment</b>	<b>17,59,87,905.00</b>	<b>10,82,46,170.00</b>

**37. ESTABLISHMENT EXPENSES**

(Amount in Rupees)		
Particulars	Current Year	Previous Year
Expense as per the Income and Expenditure Account	1,26,61,10,658.00	1,21,35,79,832.00
Less: Establishment expenses payable at the year end	11,48,42,180.00	8,65,85,086.00
Add: Establishment Expenses of previous year paid in the current year	8,65,85,086.00	44,64,401.00
<b>Net Payment</b>	<b>1,23,78,53,564.00</b>	<b>1,13,14,59,147.00</b>

**38. ACADEMIC EXPENSES**

(Amount in Rupees)		
Particulars	Current Year	Previous Year
Expense as per the Income and Expenditure Account	27,88,69,564.04	30,31,88,579.44
Less: Academic expenses payable at the year end	2,19,03,602.00	3,31,67,850.00
Add: Academic Expenses of previous year paid in the current year	3,31,67,850.00	26,94,248.00
<b>Net Payment</b>	<b>25,69,65,962.04</b>	<b>27,00,20,729.44</b>



*(Signature)*  
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**39. ADMINISTRATIVE EXPENSES**

Particulars	(Amount in Rupees)	
	Current Year	Previous Year
Expense as per the Income and Expenditure Account	12,84,94,483.10	5,51,26,859.00
Less: Administrative Expenses payable at the year end		25,71,463.00
Add: Administrative Expenses of previous year paid in the current year	25,71,463.00	90,94,830.00
<b>Net Payment</b>	<b>13,10,65,946.10</b>	<b>6,16,50,226.00</b>

**40. TRANSPORTATION EXPENSES**

Particulars	(Amount in Rupees)	
	Current Year	Previous Year
Expense as per the Income and Expenditure Account	19,17,476.00	13,38,252.00
Less: Transportation expense payable at the year end	0.00	0.00
Add: Transportation expense of previous year paid in the current year	0.00	0.00
<b>Net Payment</b>	<b>19,17,476.00</b>	<b>13,38,252.00</b>

**41. REPAIRS AND MAINTENANCE**

Particulars	(Amount in Rupees)	
	Current Year	Previous Year
Expense as per the Income and Expenditure Account	12,62,15,799.68	7,32,50,307.00
Less: Repairs & Maintenance expense payable at the year end		60,18,713.00
Add: Repairs & Maintenance expense of previous year paid in the current year	60,18,713.00	57,38,730.00
<b>Net Payment</b>	<b>13,22,34,512.68</b>	<b>7,29,70,324.00</b>



*[Signature]*  
कलससचिव  
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*[Signature]*

निदेशक  
Director

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42. OTHER PAYMENTS INCLUDING STATUTORY PAYMENTS

(Amount in Rupees)

Particulars	Current Year	Previous Year
1. Statutory Payments	16,94,51,448.48	13,91,94,156.00
2. Other Payments	23,25,60,606.00	26,53,85,758.08
<b>Total</b>	<b>40,20,12,054.48</b>	<b>40,45,79,914.08</b>



*[Signature]*  
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राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
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*[Signature]*

निदेशक  
 Director

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**NATIONAL INSTITUTE OF TECHNOLOGY CALICUT**  
**PROVIDENT FUND ACCOUNT**  
**BALANCE SHEET AS AT MARCH 31, 2023**

Amount	Liabilities	Amount	Amount	Assets	Amount
	<b>GPF</b>				
	Opening Balance	14,83,47,094.65		Investment	41,14,45,563.00
	Less: Subscription for March			Interest accrued as on 31/03/2023	
	Add: Subscription in the year	4,18,47,149.00		Subscription due for March 2022	
	Add: Subscription for March 2022			GPF	
	Add: Interest credited	1,15,69,442.00		CPF	
	Less: Advance/Withdrawal	7,36,70,670.00		UC due to CPF	
	Closing balance		12,80,93,015.65	NPS II	
	<b>CPF</b>			Tax recovered from interest on Investments	
	Opening Balance	51,03,997.00		pending refund from Income Tax Dept.	
	Less: Subscription for March 2023			<b>Cash at Bank</b>	
	Add: Subscription in the year			SBI Branch	
	Add: Subscription for March 2022	10,17,18,501.00		Others	
	Add: Interest credited				
	Less: Advance/Withdrawal	9,87,48,987.00			
	Closing balance		80,73,511.00		
	<b>University Contribution (CPF)</b>				
	Opening Balance				
	Less: Subscription for March 2022				
	Add: Subscription in the year				



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Add: Subscription for March 2022				
Add: Interest credited				
Less: Advance/Withdrawal				
Closing balance				
<b>NPS Tier-II Account</b>				
Opening Balance				
Less: Subscription for March 2017				
Add: Subscription in the year				
Add: Subscription for March 2018				
Add: Interest credited				
Less: Advance/Withdrawal				
Closing balance				
<b>Interest Reserve</b>				
Opening Balance		24,02,24,225.35		
Add: Excess of income over expenditure		3,50,54,811.00		
Closing Balance			27,52,79,036.35	
<b>Total</b>			<b>41,14,45,563.00</b>	<b>Total</b>
				<b>41,14,45,563.00</b>



  
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**NATIONAL INSTITUTE OF TECHNOLOGY CALICUT**  
**PROVIDENT FUND ACCOUNT**  
**RECEIPTS AND PAYMENTS ACCOUNTS FOR 2022-23**

(Amount in Rs.)	
Receipts	Amount
<b>Opening Balance:</b>	
Savings Bank Accounts	42,11,11,802.00
Term Deposits	10,68,09,737.00
MOD Balances	-
GPF Subscription	-
CPF Subscription	-
CPF University Contribution	-
NPS Tier II account	-
Investments encashed	-
Interest received	1,91,36,305.00
Other receipts	39,23,09,258.00
	-
<b>Total</b>	<b>93,93,67,102.00</b>

(Amount in Rs.)	
Payments	Amount
GPF Adv/Withdrawal	42,11,11,802.00
CPF Adv/Withdrawal	10,68,09,737.00
NPS Tier II	-
University Contribution Withdrawal	-
Investments during the year	-
Others	-
<b>Closing Balance</b>	-
Savings Bank Accounts	1,91,36,305.00
Term Deposits	39,23,09,258.00
MOD Balances	-
<b>Total</b>	<b>93,93,67,102.00</b>



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**NATIONAL INSTITUTE OF TECHNOLOGY CALICUT**  
**PROVIDENT FUND ACCOUNT**  
**INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31/03/2023**

(Amount in Rs.)

Expenditure	Amount	Income	Amount
Interest credited to: GPF account	-	Interest earned on investment Add: Interest accrued on 03/23	3,50,54,811.00
CPF account	-	Add: Tax recovered on interest- Refund to be obtained	
University Contribution (CPF)	-	Adjustment (Prior period income)	
NPS Tier-II account	-		
Excess of income over Expenditure	3,50,54,811.00	Excess of Expenditure over Income	
<b>Total</b>	<b>3,50,54,811</b>	<b>Total</b>	<b>3,50,54,811</b>



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*SRINIVAS*  
**निदेशक**  
**Director**  
 राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
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## Schedule 23

### Significant Accounting Policies

#### 1. Basis for preparation of accounts

The annual financial statements have been prepared and presented under historical cost convention on accrual basis in accordance with the Indian Generally Accepted Accounting Principles (GAAP), which comprises of Accounting Standards issued by the Institute of Chartered Accountants of India and other guidelines notified by Central Government from time to time. The financial statements for the year ended 31 March 2023 have been prepared and presented in the **Revised Format of Accounts of Central Educational Institutions**, as approved by the Comptroller & Auditor General of India and notified by the Ministry of Education (formerly MHRD), Government of India *vide* letter no. 29-4/2012-IFD dated 17 April 2015. The figures for previous financial year have been regrouped and recast, wherever necessary, for conformity with the revised format.

#### 2. Use of estimates

The preparation of the financial statements in conformity with Indian GAAP requires making estimates and assumptions that affects the reported balances of assets and liabilities and disclosures relating to contingent liabilities as at the date of the financial statements and reported amounts of income and expenses during the period. Examples of such estimates include computation of percentage of completion of Capital Work-in-progress, which requires the Institute to estimate the efforts or costs expended to date as a proportion of the total efforts or costs to be expended, future obligations under employee retirement benefit plans and the useful lives of tangible and intangible assets. Accounting estimates could change over a period of time and actual results could differ from those estimates. Appropriate changes in estimates are made as the management becomes aware of changes in circumstances surrounding the estimates. Changes in estimates are reflected in the financial statements in the period in which changes are made and, if material, their effects are disclosed in the notes to the financial statements.



*R. Prasad*

*[Signature]*  
रजिस्ट्रार  
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निदेशक  
Director

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### 3. Revenue recognition

Revenue is recognized to the extent that it is probable that the economic benefits will flow to the Institute and the revenue can be reliably measured.

Revenue from Plan (Non-recurring) grants is accounted on accrual basis and Plan (Non-recurring) grant is earmarked for the acquisition of the fixed assets and capital works. Income received on these funds by way of interest on Term Deposits and Savings Bank accounts in banks are added to the Capital Fund. Interest received on the Term Deposits held as security for opening Letters of Credit for import of fixed assets is accounted as addition to the respective earmarked funds. Non-Plan (Recurring) grant received from Government of India is recognized as income on accrual basis. Fees received from students are accounted on cash basis. Interest on Term Deposits, Savings Bank accounts, income from land and buildings and sale of application forms, tender forms, RTI fees, breakage charges and grants from other bodies are accounted on accrual basis. Interest on advances made to employees are calculated on reducing balances of loan and recognized on accrual basis.

Electricity charges recovered in respect of staff quarters and hostels are accounted as revenue and subsequently adjusted/ netted off against the electricity charges of the Institute as a whole.

### 4. Government grants-in-aid

The Institute is funded by grants-in-aid received from Ministry of Education (formerly MHRD), Government of India for meeting its annual Plan (Non-recurring) and Non-Plan (Recurring) expenditure. Government grants and other grants are accounted on realization basis. However, where a sanction order for release of grant pertaining to the financial year is received before 31 March and the grant is actually received in the next financial year, the grant is accounted on accrual basis.



  
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Capital grants received from Government, which are related to acquisition of fixed assets, are treated as deferred income and recognized in the Income and Expenditure Account on systematic and rational basis over the useful life of the assets, *i.e.*, Capital grants are allocated to Income over a period and depreciation charged in proportion thereto. Grants other than Capital grants from Government are treated as income of the Institute. Unutilized part of government grant is treated as liability to the Institute.

#### 5. Inventory

Stationery, consumables, stores and spares are valued at cost or net realizable value, whichever is less. Net realizable value is the estimated selling price in the ordinary course of business less estimated cost necessary to make the sale.

#### 6. Tangible assets and Capital Work-in-progress

Fixed assets are stated at historical cost less accumulated depreciation and impairment, if any. The cost comprises cost of acquisition including inward freight, duties and taxes and incidental and direct expenses related to acquisition, installation and commissioning. Security Deposit for performance of warranty services are included in the cost of assets only after the expiry of the warranty period and after a formal claim is made by the respective suppliers to release the security deposit.

Gifted/ donated assets are valued at declared value, where available; if unavailable, the value is estimated based on the present market value adjusted with reference to the physical condition of the asset.

Books received as gifts are valued at the selling price printed on books and where the price is unavailable; the value is based on assessment.

Assets created out of Earmarked funds and funds of sponsored projects, where the ownership of such assets vests in the Institute, are treated as fixed assets of the Institute.

Capital Work-in-progress comprises of the cost of fixed assets that are not yet ready for their intended use at the reporting date. Advances paid to C.P.W.D. towards completion of works/ fixed assets are shown as addition to capital work-in-progress.



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*R. R. R.*

Subsequent expenditure related to an item of fixed assets is added to its book value only if it increases the future benefits from the existing asset beyond its previously assessed standard of performance. All other expenses on existing fixed assets, including day-to-day repairs and maintenance and the cost of replacing parts, are charged to revenue for the period during which such expenses are incurred.

#### 7. Intangible assets

Research costs are expensed as incurred. Development costs are expensed as incurred unless the technical and commercial feasibility of the project is demonstrated, future economic benefits are probable, the Institute has an intention and ability to complete the project, use it or sell off the project findings and the costs can be measured reliably. Expenditure incurred on obtaining patents is not shown as Intangible assets and charged to Revenue. Electronic Journals (e-journals) are not in a tangible form, but temporarily capitalized and in view of the magnitude of expenditure and the benefit derived in terms of perpetual knowledge acquired by the Academic and Research Staff.

Expenditure on acquisition of software is included in the cost of acquisition of computer as a whole at the time of the purchase of computers.

#### 8. Depreciation and amortization

The institute was following the Written down value method of depreciation till (2018-19) as per the Income tax act 1961, but due to CAG audit objection No.B.1 in Separate Audit Report(SAR) for the Financial Year 2018-19 the straight-line method is been adopted by the institute from the F.Y 2019-20. Depreciation is provided for the whole year on additions made to assets during the year. Where an asset is fully depreciated, it will be carried at a residual value of Re.1 and will not be further depreciated.



  
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Security Deposit money released becomes part of the asset after the expiry of warranty period and claim made by the supplier. Depreciation is charged prospectively when it becomes part of the fixed assets. Depreciation is charged on assets created out of funds of sponsored projects and earmarked funds except for TEQIP – II, TEQIP - III and TBI.  
No depreciation is provided on freehold land.

#### 9. Impairment of assets

The Institute does not assess at each balance sheet date whether there is any indication that an asset including any goodwill may be impaired.

#### 10. Leases

Leases, on which the lessor effectively retains substantially all the risks and benefits of ownership of the leased item, are classified as operating leases. Operating lease payments are recognized as an expense in the Statement of Income and Expenditure on Straight Line Method over the lease term.

#### 11. Retirement benefits

##### *New Pension Scheme*

Employees, who joined the Institute after 2004, are eligible for New Pension Scheme of the Central Government, which is a defined contribution plan. Matching monthly contribution to the plan, equal to 10% of the covered employee's basic salary, grade pay and dearness allowance, are paid by the employees while 14% is paid by employer. The Institute's NPS fund is managed by National Securities Depository Ltd. (NSDL). The Institute has no obligations to the Plan beyond its monthly contributions.



  
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Employer's (Institute's) contribution to New Pension Scheme and Contributory Provident Fund has been recognized as an expense for the financial year 2022-2023

### **General Provident Fund**

Eligible employees receive benefits from a provident fund, which is a defined benefit plan as per the AS-15 (Revised) issued by ICAI. The provident fund is managed by the Institute with guarantee of minimum return/ interest as specified by the Government from time to time on similar provident fund schemes. The contribution is made by the employees only. The fund is invested in term deposits with nationalized banks in a manner to yield maximum interest to cover the minimum guaranteed return as notified.

### **Gratuity**

The Institute provides for gratuity, covering eligible employees. Liabilities with regard to the Gratuity Plan are determined by actuarial valuation, performed by an independent actuary, at the Balance Sheet date. The Institute recognizes the net obligation of the gratuity plan in the Balance Sheet as an asset or liability, in accordance with Accounting Standard-15 (Revised) issued by the Institute of Chartered Accountants of India. Actuarial gains and losses arising from experience adjustments and changes in actuarial assumptions are recognized in the Income and Expenditure Account for the period in which they arise.

### **Leave Encashment**


The employees of the Institute are entitled to Leave Encashment. The employees can carry forward a portion of the unutilized accrued leave and utilize it in future periods or receive cash compensation at retirement or termination of employment for the unutilized accrued leave (subject to a maximum of 300 days so earned). The Institute records an obligation for Leave encashment in the period in which the employee renders the services that increases this entitlement. Actuarial valuation is done to ascertain the expected cost of leave encashment as the additional amount that the Institute expects to pay as a result of the unused entitlement that has accumulated at the balance sheet date.



  
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Director

  
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## 12. Provisions and contingent liabilities

The Institute creates a provision when there is a present obligation as a result of an obligating event that probably requires an outflow of resources and a reliable estimate can be made of the amount of the outflow. A disclosure for a contingent liability is made when there is a possible obligation or a present obligation that may, but probably will not, require an outflow of resources. Where there is a possible obligation or a present obligation in respect of which the likelihood of outflow of resources is remote, no provision or disclosure is made.

## 13. Income tax

The income of the Institute is exempt from Income Tax under Section 10(23C)(iiiab) of the Income Tax Act, 1961. Therefore, no provision is required to be made in books of accounts towards Income Tax.

## 14. Earmarked/ Endowment funds

The following long term funds are earmarked for specific purpose, each having a separate bank account. The income from investments is accounted on accrual basis and interests on Savings Bank Accounts are credited to respective funds and not treated as income of the Institute. The assets created out of Earmarked funds where ownership vests in the Institute are merged with the assets of the Institution except TEQIP - II, TEQIP - III and TBI.

- a. Technical Education Quality Improvement Program (TEQIP)
- b. TEQIP - II
- c. Technology Business Incubator (TBI)
- d. Family Benefit Scheme
- e. Growth Fund (Corpus Fund)
- f. Students Fund
- g. Harijan Welfare Fund



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कलिकट / Calicut - 673601

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निदेशक  
Director

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### 15. Investments

Investments, which are readily realizable and intended to be held for not more than one year from 31 March of the financial year on which such investments are made, are classified as short term investments. All other investments are classified as long term investments. Long term investments are stated at cost less provision for diminution in the value of such investments. Diminution in value is provided for where the Institute is of the opinion that the diminution is of permanent nature. Short term investments are valued at lower of cost and net realizable value.

### 16. Sponsored projects

In respect of new projects and ongoing projects, the amount received from the sponsors and funding agencies towards the projects are credited to the respective project accounts and the expenses are recorded by debiting the project accounts. The assets purchased for the projects are accounted as fixed assets of the Institute.

### 17. Cash and cash equivalents

Cash and cash equivalents comprise cash and cash on deposit with banks. The Institute considers all highly liquid investments with a remaining maturity at the date of investments of three months or less and that are readily convertible to known amounts of cash to be cash equivalents.

### 18. Cash flow statement

Cash flows are reported using direct method, whereby surplus is adjusted for the effects of transactions of a non-cash nature and any deferrals or accruals of past or future cash receipts or payments. The cash flows from regular revenue generating, investing and financing activities of the Institute are segregated.





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निदेशक  
Director

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## Schedule 24

### Notes to Accounts

#### 1. RECEIPT OF GOVERNMENT GRANTS

The opening balance of Plan (Non-recurring) grants-in-aid and Non-Plan (Recurring) grants-in-aid shown in the current financial year is adjusted for the internal revenue generated in previous financial years. The internal revenue comprises of tuition fees received, interest received on Fixed Deposits and Savings Bank accounts and other miscellaneous receipts. The internal revenue added to the unutilized balance of grants in previous financial years is not segregated. Advance given from Capital Grant is shown as expenditure as per instruction from Ministry of Education vide letter No.F.No.3-15/2013-IFD(pt) dated 09.08.2023, Plan expenditure in Schedule 10 is shown to the extent of balance available in plan fund.

*(Refer Schedule 3C- Unutilized Grants from UGC, Government of India and State Governments and Schedule 10- Grants/Donations/Subsidies).*

#### 2. CAPITAL FUND

This includes grants received from Ministry of Education (formerly MHRD) to the extent incurred for capital expenditure and assets procured out of sponsored projects. It also includes interest on Fixed Deposits and Savings Bank Accounts of Plan funds and interest received on Fixed Deposits created for opening the Letter of Credit during the current financial year. Bank charges incurred on Plan Fund Savings Bank account is deducted therefrom.

*(Refer Schedule 1- Capital Fund).*



निदेशक  
Director

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### 3. DESIGNATED/EARMARKED/ENDOWMENT FUNDS

There is an Opening balance difference in Growth Fund due to reclassification of mediclaim from Designated Fund to Current liabilities to the extent of 969002.34

(Refer Schedule 2- DESIGNATED/EARMARKED/ENDOWMENT FUNDS).

### 4. FIXED ASSETS

Total addition to the assets during the FY 2022-23 was Rs. 30,84,54,335/-, Total depreciation on assets up to the period 2022-23 was Rs. 2,43,45,90,946/- and that includes depreciation for the FY 2022-23 amounted to Rs. 17,52,21,287.68/-

(Refer Schedule 4- Fixed Assets)

### 5. FIXED DEPOSITS

Disclosure for Fixed Deposits with nationalized banks shown in books of accounts is as follows:

(Amount in Rupees)

Sl. No.	Particulars	2022-23	2021-22
1	Fixed Deposits made out of Earmarked/ Designated Funds##, and GPF, CPF	232,81,27,603	135,40,58,468
2	Fixed Deposits made out of Plan	2,65,84,537	11,53,21,243
3	Fixed Deposits from Other Funds (Revenue Funds) Funds (includes FD of Rs. 1,89,41,657 pledged with Hon'ble Additional Sub-Judge, Kozhikode)	2,13,97,52,858	47,53,86,832



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Calicut - 673601

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निदेशक  
Director

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4	Fixed Deposits for Letters of Credit	38,51,000	
5	Fixed Deposits for Bank Guarantee (in favor of KSEB)	28,59,583	20,50,840
6	Fixed Deposits from ERA BG	5,44,47,858	5,07,13,344
	<b>Total</b>	<b>455,56,23,439</b>	<b>1,99,75,30,727</b>

(Refer Schedule 5 - Investments from Earmarked/Endowment Funds and Schedule 7- Current Assets- Cash in Bank in Term Deposits Accounts).

## The details of Fixed Deposits made out of Earmarked/ Designated Funds, GPF & CPF shown hereinabove is provided below:  
(Amount in Rupees)

Sl. No.	Particulars	2022-23	2021-22
1	Growth Fund	1,65,37,77,505	85,99,74,637
2	General Provident Fund	38,42,48,508	32,07,66,120
3	Contributory Provident Fund	80,60,750	57,07,029
4	Technology Business Incubator (TBI)		31,60,489
5	Students Fund	2,00,00,000	51,360
6	Refund	26,20,40,840	16,43,98,833
	<b>Total</b>	<b>232,81,27,603</b>	<b>135,40,58,468</b>

The fixed deposits created during the financial year 2022-23 and the fixed deposits for past financial years are shown in Balance Sheet as at 31 March 2023 at their principal value only.

The principal amount of all fixed deposits in the name of the Institute as on 31/03/2023 amounts to Rs. 455,56,23,439 /-



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राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
National Institute of Technology Calicut  
कालिकट / Calicut - 673601

*(Signature)*  
निदेशक  
Director

राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
National Institute of Technology Calicut  
कालिकट / Calicut - 673601

## 6. INVENTORY

The stock purchased and issued to various departments is shown under the respective departmental operating cost ledger heads.

## 7. CONTRIBUTION TO VARIOUS FUNDS

The Institute's contribution towards leave salary, Provident Fund and New Pension Scheme is shown below:

(Amount in Rupees)

Sl. No.	Particulars	2022-23	2021-22
1	Contribution to New Pension Scheme	5,31,71,313	4,55,12,330
2	Leave Salary & Pension Contribution	12,31,896	
	<b>Total</b>	<b>5,44,03,209</b>	<b>4,55,12,330</b>

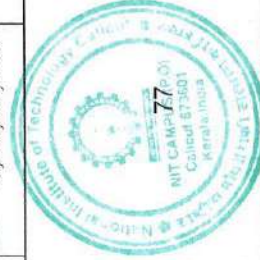
(Refer Schedule 15- Staff payments and Benefits [Establishment Expenses])

## 8. RETIREMENT AND TERMINAL BENEFITS

This includes pension, pension commutation and Death-cum-Retirement-Gratuity (DCRG) paid to employees, who retired from the service. The details for the financial year 2022-23 are as follows:


(Amount in Rupees)

Sl. No.	Particulars	2022-23	2021-22
1	Pension	24,32,76,154	24,95,88,650
2	Death-cum-Retirement-Gratuity (DCRG)	2,30,26,230	2,49,49,381



  
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3	Pension Commutation	2,38,48,849	2,94,33,671
	<b>Total</b>	<b>29,01,51,233</b>	<b>30,39,71,702</b>

(Refer Schedule 15- Staff payments and Benefits [Establishment Expenses]).

#### 9. TRANSFERS FROM CAPITAL GRANT (PLAN FUND)

As per the Income Approach of AS-12 issued by the Institute of Chartered Accountants of India, an amount equal to the proportion of the current year's depreciation on fixed assets that were purchased using Government grants has to be transferred from the Capital Grant account to Income and Expenditure Account every year.

(Refer Schedule 1- Capital Fund).

#### 10. PRIOR PERIOD INCOME

Prior period income for the current financial year Rs.1,15,52,872/-is accounted after adjusting the FD interest for the past years and from the correction in suspense accounts and Other projects.

(Refer Schedule 14-Prior Period Income).

#### 11. PRIOR PERIOD EXPENSES

Disclosure for prior period expenses for financial year 2022-23 is as under:

(Amount in Rupees)

Sl. No.	Particulars	2022-23	2021-22
1	Depreciation	NIL	NIL
2	Others	48,17,802	1,07,39,722
	<b>Total</b>	<b>48,17,802</b>	<b>1,07,39,722</b>

(Refer Schedule 22-Prior Period Expenses)



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*R. Prasad*

निदेशक  
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## 12. CONTINGENT LIABILITIES AND CONTINGENT ASSETS

- i. In respect of Central Academic Block constructed in 2013-2014, the contractor has filed a suit in the court of law (Case number O.S. 611/2011), which is *sub judice*; therefore, no quantification of the claim, if any, is made as on Balance Sheet date.
  - ii. In respect of Central Library Building, the contractor has filed three suits in the court of law. The first case (No. OS.839/2009) is towards claiming of extra rate for TMT steel used in construction of the building while the second suit (No. OS 805/2011) relates to revoking of penalty imposed by the Institute and the third case (No. OS.659/2012) pertains to termination of the construction contract at the risk and cost of the contractor. The amount in dispute is approx. Rs.2,50,00,000/- which is pending adjudication before Hon'ble Sub Court, Kozhikode. The Institute has not made any provision towards the possible liability that may arise on this account. The contractor has also filed two Writ Petitions (WP(C) 33865/2014 and WP(C) 12347/2015) for undertaking the balance construction work at the prevailing rate; the petitions are pending before the Hon'ble High Court of Kerala at Ernakulam.
  - iii. The Institute has filed an appeal (RFA No. 435 of 2014) against the judgment in Case No. OS 259/2010 in connection with the construction of building for Chemical Engineering Department and pledged a Fixed Deposit Receipt for Rs.50,00,000/- made out of Plan Fund towards additional security before the Hon'ble First Additional Sub-Judge, Kozhikode. No provision has been made in the accounts.
  - iv. As on 31 March 2019, some court cases filed against the Institute by contractors, employees, etc., are *sub judice* in various courts of law. The quantum of the claims is not ascertainable at that date and hence, no liability is recognized in the Balance Sheet.
13. Schedules 1 to 24 herein above are annexed to and form an integral part of the Balance Sheet as at 31 March 2023 and the Income and Expenditure Account for the year ended on that date.



  
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14. Schedules 25 to 42 annexed forms an integral part of the Receipts and Payments account for the year ended on that date.
15. The General Provident Fund account is owned by the members of the fund and not by the Institute. As such, this account is disclosed separately from the Institute's accounts from 1 April 2014. A Receipt and Payment Account, an Income and Expenditure Account (on accrual basis) and a Balance Sheet of the Provident Fund account for the financial year 2022-23 have been appended to the Institute's annual accounts.
16. All subscribers of New Pension Scheme (NPS) are allotted with PRA numbers and the Institute does not maintain data regarding their subscriptions and matching contributions. Therefore, separate set of accounts are not required for NPS.





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## ANNEXURE A

## Certified balances of Bank Accounts and Fixed Deposits shown in the Institute's books of accounts

(i)			Savings Accounts	
S. No	Bank & Branch Details	A/c No	Amount	(Amount in Rupees)
1	PNB, LINK ROAD	1423000105436300		52,16,292.50
2	PNB, MKV	4312000100731440		20,122.59
3	PNB, KPK MENON	4258000105056900		2,50,14,758.35
4	UCO, CALICUT	1470100010215		7,65,783.00
5	BOB, KNMGLM	74900100005753		1,01,38,724.00
6	SBI, NIT	10401159325		47,835.47
7	SBI, NIT	10401160454		1,37,32,691.73
8	SBI, NIT	30583579511		1,10,941.00
9	SBI, NIT	30705794534		2,36,747.00
10	SBI, NIT	30971545390		44,24,810.25
11	SBI, NIT	31064842240		626.00
12	SBI, NIT	31098052035		25,76,190.00
13	SBI, NIT	31444243085		3,26,805.00
14	SBI, NIT	32399109132		31,98,165.75
15	SBI, NIT	35570283919		5,01,064.50
16	SBI, NIT	35582060998		48,396.00
17	SBI, NIT	35981271500		8,64,54,254.18
18	SBI, NIT	37838333933		1,53,53,024.10
19	SBI, NIT	38224161112		70,33,136.25
20	SBI, NIT	38224161622		28,62,589.00
21	SBI, NIT	38297554301		42,45,33,061.68
22	SBI, NIT	39140066916		5,06,09,260.50
23	SBI, NIT	10401159303		87,50,923.55
24	SBI, NIT	10401159314		2,42,21,081.79



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25	SBI, NIT	10401159530	98,31,862.91
26	SBI, NIT	10401159802	2,22,890.70
27	SBI, NIT	30261390339	66,77,406.85
28	SBI, NIT	33413466990	83,11,952.56
29	SBI, NIT	37090485326	21,313.00
30	SBI, NIT	10401160396	60,937.86
31	SBI, NIT	10401160578	3,92,045.26
32	SBI, NIT	39126845507	6,61,396.00
	<b>Total</b>		<b>71,23,57,089.33</b>
<b>Current Accounts</b>			
(ii)			
1	SBI, NIT	30846292747	1,11,05,439.00
2	SBI, NIT	36379213387	47,26,933.94
3	SBI, NIT	36379215839	13,72,196.27
4	SBI, NIT	36379216015	1,44,312.49
5	SBI, NIT	10401158082	14,29,678.72
6	SBI, NIT	10401158106	26,30,717.36
7	SBI, NIT	34899799867	9,18,262.50
8	CANARA,CLT	839201000560	6,790.95
9	CANARA,CLT	839201000561	6,048.00
10	CANARA,CLT	839201000567	93,53,010.80
	<b>Total</b>		<b>3,16,93,390.03</b>
<b>Term Deposits</b>			
(iii)			
1	SBI, NIT	41753987458	37,39,00,000.00
2	SBI, NIT	41753788453	34,09,81,299.00
3	SBI, NIT	41753989217	30,61,00,000.00
4	SBI, NIT	41753866411	30,00,00,000.00
5	SBI, NIT	41753790608	30,00,00,000.00
6	SBI, NIT	41753863646	30,00,00,000.00
7	SBI, NIT	41753703240	30,00,00,000.00
8	SBI, NIT	41753868362	30,00,00,000.00
9	SBI, NIT	41753871034	18,00,00,000.00
10	SBI, NIT	41798749987	13,29,98,419.00
11	SBI, NIT	41798752934	8,20,40,840.00



  
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12	SBI, NIT	41753881010	5,44,47,858.00
13	SBI, NIT	41755175466	1,50,00,000.00
14	SBI, NIT	41755177939	1,99,57,083.00
15	SBI, NIT	41755130683	1,00,00,000.00
16	SBI, NIT	41755239104	1,00,00,000.00
17	SBI, NIT	41753999928	1,56,38,704.00
18	SBI, NIT	41753985224	80,60,750.00
19	SBI, NIT	41753994192	58,85,727.00
20	SBI, NIT	41753994839	50,60,106.00
21	SBI, NIT	36042749067	58,85,727.00
22	SBI, NIT	36043107039	1,56,38,704.00
23	SBI, NIT	36312000910	50,60,106.00
24	SBI, NIT	35293809903	28,59,583.00
25	SBI,CLT	32457363478	1,13,87,527.00
26	SBI,CLT	32457358254	1,13,87,527.00
27	UNION BANK	339803030011390	28,20,87,451.00
28	UNION BANK	339803030011391	15,72,84,939.00
29	UNION BANK	631403030005076	26,00,00,000.00
30	UNION BANK	631403030005077	29,00,00,000.00
31	BOB CLT	6710300009656	15,12,46,072.00
32	BOB CLT	6710300009608	14,00,00,000.00
33	BOB CLT	6710300009657	10,00,04,017.00
34	BOB, KNMGLM	74900300000926	28,15,000.00
35	BOB, KNMGLM	74900300000927	1,20,45,000.00
36	CANARA,CLT	0839303000302/8	1,90,00,000.00
37	CANARA,CLT	0839303000302/9	1,40,00,000.00
38	CANARA,CLT	0839303000302/10	1,10,00,000.00
	<b>Total</b>		<b>4,55,17,72,439.00</b>
(iv)	<b>Forex Accounts</b>		
S. No	Bank & Branch Details	A/c No	Amount (USD)
1	SBI, CLT	35350525917	5.00
	<b>Total</b>		<b>5.00</b>



*[Handwritten Signature]*  
कलसचिव  
Registrar

निदेशक  
Director  
राष्ट्रीय प्रौद्योगिकी संस्थान कलिकट  
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राष्ट्रीय प्रौद्योगिकी संस्थान कलिकट  
National Institute of Technology Calicut  
कलिकट / Calicut, 673601

## ANNEXURE B

## Bank Accounts for Projects shown in Books of Accounts (Savings)

S.No	Bank & Branch Details	A/c No	Amount	(Amount in Rupees)
1	SBI, NIT	30428621431		6,69,146.00
2	SBI, NIT	30458848311		17,09,680.00
3	SBI, NIT	30506640444		37,95,673.00
4	SBI, NIT	30808033649		16,127.00
5	SBI, NIT	30948537262		13,008.00
6	SBI, NIT	31091558694		600.44
7	SBI, NIT	31130641093		21,61,580.00
8	SBI, NIT	31762778358		222.12
9	SBI, NIT	31789866710		18,70,764.00
10	SBI, NIT	31789868139		48,883.00
11	SBI, NIT	31915181691		2,557.00
12	SBI, NIT	32015957716		4,127.00
13	SBI, NIT	32101535934		1,951.00
14	SBI, NIT	32563027683		2,691.00
15	SBI, NIT	32954434797		1,93,633.00
16	SBI, NIT	33015477472		1,898.85
17	SBI, NIT	33049806044		32,706.00
18	SBI, NIT	33067690208		28,62,979.25
19	SBI, NIT	33175087386		23,364.50
20	SBI, NIT	33187581587		22,399.00
21	SBI, NIT	33301926627		9,372.00
22	SBI, NIT	33368719830		39,875.00
23	SBI, NIT	33368722037		1,079.00
24	SBI, NIT	33368731461		508.00
25	SBI, NIT	33627227608		425.52
26	SBI, NIT	33869260955		2,090.25
27	SBI, NIT	34055770847		396.00
28	SBI, NIT	34743361812		73,402.00
29	SBI, NIT	34922458279		60,327.50



  
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30	SBI, NIT	34984625589	5,861.50
31	SBI, NIT	35105587080	2,98,308.00
32	SBI, NIT	35108714120	6,37,023.75
33	SBI, NIT	35256507611	15,022.50
34	SBI, NIT	35260115754	49,762.50
35	SBI, NIT	35373645311	1,16,660.00
36	SBI, NIT	35531852511	6,669.50
37	SBI, NIT	35547110999	1,79,581.50
38	SBI, NIT	34781526032	18,542.00
39	SBI, NIT	35601784856	267.68
40	SBI, NIT	35707855365	15,78,616.50
41	SBI, NIT	35712118085	13,258.50
42	SBI, NIT	35724132844	1,229.89
43	SBI, NIT	35760309489	8,887.50
44	SBI, NIT	35909407299	10,33,683.40
45	SBI, NIT	35977962286	70,148.20
46	SBI, NIT	36028528852	2,141.75
47	SBI, NIT	36076948949	36,527.25
48	SBI, NIT	36273863935	20,935.50
49	SBI, NIT	36374406306	1,644.00
50	SBI, NIT	36598636298	5,057.35
51	SBI, NIT	37186010229	5,024.25
52	SBI, NIT	37251562506	1,71,813.72
53	SBI, NIT	37286864074	6,28,995.25
54	SBI, NIT	37324305638	16.50
55	SBI, NIT	37481542974	1,24,089.00
56	SBI, NIT	37520426749	1,603.00
57	SBI, NIT	37618269594	55,34,054.45
58	SBI, NIT	37720597560	3,72,181.00
59	SBI, NIT	37747553259	1,556.85
60	SBI, NIT	37779456678	1,416.00
61	SBI, NIT	37814761399	32,794.00
62	SBI, NIT	38030654242	186.00



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63	SBI, NIT	38044293551	785.75
64	SBI, NIT	38103882462	2,91,661.75
65	SBI, NIT	38103882983	8,29,098.50
66	SBI, NIT	38132483430	4,12,549.50
67	SBI, NIT	38180891032	7,14,394.75
68	SBI, NIT	38259781306	64,941.25
69	SBI, NIT	38276476234	282.85
70	SBI, NIT	38297555305	17,026.00
71	SBI, NIT	38302334688	314.25
72	SBI, NIT	38340306789	6.25
73	SBI, NIT	38340307057	454.00
74	SBI, NIT	38358757972	557.50
75	SBI, NIT	38399582550	3,592.25
76	SBI, NIT	38399582684	29.00
77	SBI, NIT	38399582924	28,888.75
78	SBI, NIT	38415705045	39,970.00
79	SBI, NIT	38441229277	11,852.00
80	SBI, NIT	38446714927	432.00
81	SBI, NIT	38446715137	1,21,087.25
82	SBI, NIT	38475444194	2,52,842.60
83	SBI, NIT	38475444445	7,702.10
84	SBI, NIT	38543741053	115.35
85	SBI, NIT	38550040182	57,230.00
86	SBI, NIT	38590885678	17,17,166.85
87	SBI, NIT	38603503929	19,205.85
88	SBI, NIT	38711830160	2,52,633.85
89	SBI, NIT	38882570452	1,80,792.35
90	SBI, NIT	39022693751	53.75
91	SBI, NIT	39022694530	1,18,001.75
92	SBI, NIT	39022694697	2,924.25
93	SBI, NIT	39022694857	2,043.25
94	SBI, NIT	39075298670	310.25
95	SBI, NIT	39075299844	87,849.25

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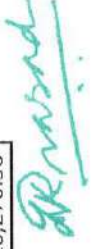


96	SBI, NIT	39075304469	7,03,216.25
97	SBI, NIT	39075304899	76,646.50
98	SBI, NIT	39075305418	10,023.77
99	SBI, NIT	39106480976	31,877.75
100	SBI, NIT	39106481288	3,23,561.25
101	SBI, NIT	39106481539	2,081.50
102	SBI, NIT	39125726125	2,35,191.25
103	SBI, NIT	39169217888	34,897.75
104	SBI, NIT	39219255091	34,654.25
105	SBI, NIT	39506730808	15,52,492.35
106	SBI, NIT	39506731880	765.00
107	SBI, NIT	39506732329	7,37,072.00
108	SBI, NIT	39532201273	2,74,218.35
109	SBI, NIT	39532201910	37,187.00
110	SBI, NIT	39553813917	4,571.00
111	SBI, NIT	39597928075	2,83,218.75
112	SBI, NIT	39639368255	30,971.00
113	SBI, NIT	39639368562	21,600.00
114	SBI, NIT	39639369112	14,107.50
115	SBI, NIT	39682643050	36,073.50
116	SBI, NIT	39691957043	2,84,485.05
117	SBI, NIT	39691957189	76,440.00
118	SBI, NIT	39798625732	326.50
119	SBI, NIT	39798626054	66,134.50
120	SBI, NIT	39820592642	33,76,335.00
121	SBI, NIT	39961039639	7,31,858.25
122	SBI, NIT	39961040736	84,551.00
123	SBI, NIT	39961041242	32,406.50
124	SBI, NIT	39961041945	11,286.00
125	SBI, NIT	39972423477	1,48,07,983.00
126	SBI, NIT	39972423874	1,95,831.25
127	SBI, NIT	39972424277	91,808.50
128	SBI, NIT	39975740517	4,10,270.50



  
 कुलसचिव  
 Registrar

राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
 National Institute of Technology Calicut




निदेशक  
 Director

राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
 National Institute of Technology Calicut  
 कालिकट / Calicut - 673601

129	SBI, NIT	39975741077	1,06,459.00
130	SBI, NIT	40032780802	2,75,199.50
131	SBI, NIT	40108343879	61,121.50
132	SBI, NIT	40136854519	6,96,958.10
133	SBI, NIT	40246973460	2,207.50
134	SBI, NIT	40393321018	58.70
135	SBI, NIT	40447651763	18,36,111.00
136	SBI, NIT	40486596952	11,21,798.10
137	SBI, NIT	40486597694	2,837.00
138	SBI, NIT	40569756904	5,171.50
139	SBI, NIT	40569757192	62,05,601.00
140	SBI, NIT	40587974657	15,61,480.50
141	SBI, NIT	40587974862	5,60,448.00
142	SBI, NIT	40598344282	4,59,056.50
143	SBI, NIT	40615978508	350.00
144	SBI, NIT	40615978734	88,726.00
145	SBI, NIT	40673159342	7,17,535.00
146	SBI, NIT	40688164264	10,28,007.00
147	SBI, NIT	40693897885	20,73,680.00
148	SBI, NIT	40704583427	20,56,194.00
149	SBI, NIT	40716271992	8,19,874.00
150	SBI, NIT	40716272486	11,671.00
151	SBI, NIT	40728095320	13,25,073.00
152	SBI, NIT	40740615538	2,08,816.00
153	SBI, NIT	40740683144	1,60,162.00
154	SBI, NIT	40740683723	17,57,535.00
155	SBI, NIT	40775884749	36,476.00
156	SBI, NIT	40779308556	19,28,442.00
157	SBI, NIT	40796510675	2,27,176.00
158	SBI, NIT	40804478339	10,68,742.00
159	SBI, NIT	40826202831	77,559.00
160	SBI, NIT	40826206030	9,279.00
161	SBI, NIT	40836489311	3,44,137.00



  
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निदेशक  
 Director

राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
 National Institute of Technology Calicut  
 कालिकट / Calicut - 673601



162	SBI, NIT	40845926102	34,14,935.00
163	SBI, NIT	40845926985	14,267.00
164	SBI, NIT	40860542253	7,91,739.00
165	SBI, NIT	40860542480	2,78,521.00
166	SBI, NIT	40860542707	1,16,040.00
167	SBI, NIT	40860542956	1,25,959.00
168	SBI, NIT	36697532901	2,52,652.00
169	SBI, NIT	36697545105	50.00
170	SBI, NIT	36699462861	1,73,073.50
171	SBI, NIT	36826070008	371.50
172	SBI, NIT	36826070213	49,993.50
173	SBI, NIT	37096085388	3,814.50
174	SBI, NIT	32276182737	7,214.00
175	SBI, NIT	32785878304	1,60,705.00
176	SBI, NIT	32785641568	74,128.00
177	SBI, NIT	40884549557	21,39,268.00
178	SBI, NIT	40884550324	2,78,015.00
179	SBI, NIT	40884550845	1,91,852.00
180	SBI, NIT	40977519754	10,19,777.00
181	SBI, NIT	40977520226	1,96,23,681.00
182	SBI, NIT	41140983562	26.00
183	SBI, NIT	41170543796	1,45,253.00
184	SBI, NIT	41167736546	30,02,845.00
185	SBI, NIT	41204898778	4,33,177.00
186	SBI, NIT	41242499778	18,31,809.00
187	SBI, NIT	41342316012	7,27,034.00
188	SBI, NIT	41342315177	4,67,246.00
189	SBI, NIT	41383694122	22,23,165.00
190	SBI, NIT	41401654498	12,07,234.00
191	SBI, NIT	41401655390	25,47,776.00
192	SBI, NIT	41353205604	5,04,595.00
193	SBI, NIT	41560682080	4,12,062.00
194	SBI, NIT	41575713705	1,11,107.00

*GR Masid*

*DR*



कलसचिव  
Registrar  
राष्ट्रीय प्रौद्योगिकी संस्थान कलिकट  
National Institute of Technology Calicut  
Kozhikode - 673601

195	SBI, NIT	41575712441	6,43,219.00
196	SBI, NIT	41560683731	3,26,635.00
197	SBI, NIT	41575713308	2,56,000.00
198	SBI, NIT	41597457370	8,15,063.00
199	SBI, NIT	41649369340	5,07,734.00
200	SBI, NIT	41649308401	8,46,523.00
201	SBI, NIT	41649370366	5,46,502.00
202	SBI, NIT	41728141906	29,59,406.00
203	SBI, NIT	41728141236	11,09,939.00
204	Bank of Mahrstra	60428661855	-
Total			13,16,20,309.94
<b>Bank Accounts for Projects shown in Books of Accounts (Current)</b>			
S.No	Bank & Branch Details	A/c No	Amount
1	SBI, NIT	37154522972	9,095.00
2	SBI, NIT	40137995865	-
3	SBI, NIT	40170034377	89,735.33
4	SBI, NIT	37021855472	27,095.00
Total			1,25,925.33



  
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निदेशक  
 Director  
 राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
 National Institute of Technology Calicut  
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**ANNEXURE C**

**List of Bank accounts and Fixed Deposits not shown in the Institute's books of accounts**

Savings Accounts			(Amount in Rupees)
S.No	Bank & Branch Details	A/c No	Amount
1	SBI, NIT	31317481538	15,549.00
2	SBI, NIT	31725977448	511.00
3	SBI, NIT	32385609903	4,20,147.50
4	SBI, NIT	33588035836	24,11,589.82
5	SBI, NIT	33605148992	20.00
6	SBI, NIT	30013250817	68.00
7	SBI, NIT	30013264671	3,417.00
	<b>Total</b>		<b>28,51,302.32</b>
(ii) Current Accounts			
1	SBI, NIT	33950524246	2,054.00
2	SBI, NIT	35725957831	-
3	SBI, CLT	31039642229	2,05,166.00
	<b>Total</b>		<b>2,07,220.00</b>



*[Signature]*  
कलसचिव  
Registrar

राष्ट्रीय प्रौद्योगिकी संस्थान कलिकट  
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*[Signature]*

निदेशक  
Director

राष्ट्रीय प्रौद्योगिकी संस्थान कलिकट  
National Institute of Technology Calicut  
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**AUDIT CERTIFICATE  
AND  
AUDIT REPORT**

**2022-2023**

**SEPARATE AUDIT REPORT OF THE COMPTROLLER & AUDITOR  
GENERAL OF INDIA ON THE ACCOUNTS OF NATIONAL INSTITUTE OF  
TECHNOLOGY, CALICUT FOR THE YEAR ENDED 31 MARCH 2023.**

We have audited the attached Balance Sheet of National Institute of Technology, Calicut as at 31 March 2023, the Income & Expenditure Account and Receipts & Payments Account for the year ended on that date, under Section 19 (2) of the Comptroller & Auditor General's (Duties, Powers & Conditions of Service) Act, 1971 read with Section 22(2) of the National Institutes of Technology Act 2007. These financial statements are the responsibility of the Institute's management. Our responsibility is to express an opinion on these financial statements based on our audit.

2. This Separate 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 and disclosure norms. Audit observations on financial transactions with regard to compliance with the Law, Rules & Regulations (Propriety and Regularity) and efficiency -cum - performance aspects, etc., if any, are reported through Inspection Reports /CAG's Audit Reports separately.

3. We have conducted our audit in accordance with auditing standards generally accepted in India. These standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements. An audit includes examining, on a test basis, evidences supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of financial statements. We believe that our audit provides a reasonable basis for our opinion.

4. Based on our audit, we report that:

i. We have obtained all the information and explanations, which to the best of our knowledge and belief were necessary for the purpose of our audit;

ii. The Balance Sheet, Income & Expenditure Account and Receipts & Payments Account dealt with by this report have been drawn up in the format approved by the Ministry of Education, Government of India;

iii. In our opinion, proper books of accounts and other relevant records have been maintained by the National Institute of Technology, Calicut as required under Section 22(1) of the National Institutes of Technology Act, 2007 relating to the establishment of NIT, Calicut in so far as it appears from our examination of such books; and

iv. We further report that:

**A. Balance sheet**

**A.1 Sources of Funds**

**A.1.1 GPF & CPF-₹38.59 crore (Schedule 2 A)**

As per format of Financial Statements for Central Higher Educational Institutions issued by the MHRD, the GPF and CPF Accounts should be separated from the main accounts of the Institute and these accounts should be shown separately along with Annual Accounts of the Institute. However, the Institute has included the GPF & CPF Accounts in Schedule 2 A of the Balance sheet of Main Accounts for the year 2022-23. This has resulted in overstatement of Liabilities by ₹ 38.59 crore in the Balance Sheet under GPF & CPF (Schedule 2A) and corresponding overstatement of Investment from Earmarked/Endowment Funds in Schedule 5.

Though similar observation was made in the previous SAR no corrective measures have been taken so far.

**A.1.2 Current Liabilities and Provisions – ₹121.35 crore (Schedule 3)**

(i) This includes ₹1.62 crore debit balances against eight items under 'Other Liabilities'. The inclusion of debit balances under 'Current Liabilities and Provisions' is contrary to Format of Accounts prescribed by MoE and has been pointed out in the previous Audit Report also. This has resulted in understatement of Schedule 3 Current Liabilities and Provisions by ₹1.62 crore with corresponding understatement of Schedule 8 Loans, Advances and Deposits to the same extent.

(ii) The above includes ₹14.91 crore being expenses payable. However, the actual ledger balance under the head is only ₹13.67 crore. This discrepancy occurred because the Institute had created excess provisions during the year 2020-21 but the same was not written back to income in succeeding years. This has resulted in overstatement of Schedule 3 Current Liabilities and Provisions by ₹1.24 crore and understatement of Schedule 1 Corpus Fund to the same extent

## **B. General**

### **B.1 Comments on Accounts of Charitable Trust-reg.**

A Charitable Trust under the name of 'Calicut Regional Engineering College Silver Jubilee Endowment Trust' had been constituted by Institute. Even though commented in the previous SAR, disclosure on this has not been made in the Notes to Accounts (Schedule 24) under 'Related Party Disclosures' as prescribed in MHRD guidelines.

### **B.2 Provident Fund Account.**

The GPF Accounts for 2022-23 including Balance Sheet and Income & Expenditure Account Statement is attached along with the Institution's Annual Accounts for 2022-23, which shows a total balance of ₹ 13.61 crore. Further GPF/CPF balances have also been included in Schedule 2A of the main accounts. However, as per Schedule 2A of the Balance Sheet of the Institute, the total balance of GPF/CPF was amounting to ₹ 38.59 crore. The difference needs to be reconciled.

### **B.3 Deposits of Designated/Earmarked/Endowment Fund ₹ 165.50 crore**

As per Schedule-2-Designated/Earmarked/Endowment funds, the closing balance is ₹165.50 crore. But balance under Schedule-5 Investments from Earmarked/Endowment Fund & Schedule-7 Current Assets is ₹ 176.57 crore. Difference between these two figures needs to be reconciled.

The balance in each fund and its corresponding bank/investment account should also needs to be shown separately in a table in Schedule 2 as stated in the MHRD format but the same has not been done.

### **B.4 Current Liabilities & Provisions ₹ 121.35 crore (Schedule-3) Maintenance of Suspense Heads**

It is observed that the Institute is maintaining a balance of ₹ 5.23 crore under four different suspense heads under Current Liabilities & Provisions. Keeping of substantial sums in suspense accounts has been commented in previous SARs also. It is to be noted that, out of ₹ 6.09 crore shown under suspense during the previous year the institute has been able to effect clearance of only ₹0.86 lakh during the current year.

### **B.5 Sponsored Fellowships and Scholarships -Schedule 3B**

The above includes three items where the balances are shown to be ₹ 72.24 lakh, ₹ 76.55 lakh, and ₹ 37.61 lakh whereas the actual balances available as per bank statements are ₹ 1.45 lakh, ₹ 111.05 lakh, and ₹ 44.24 lakh respectively. These amounts need proper reconciliation with the bank statements.

### **B.6 Difference in Cash in Treasury.**

The District Treasury Officer, Kozhikode has confirmed the balance of ₹ 22.90 lakh only whereas the cash in treasury as per Schedule-7 shows a balance of ₹ 31.17 lakh. The difference is yet to be reconciled. Moreover, DTO, Kozhikode also confirmed that two PD Accounts amounting to ₹ 20.81 lakh were transferred to lapsed deposits. Thus, the balance in Treasury shown in the accounts needs to be reconciled with the funds available in the treasury.

### **B.7 Difference in EEFC Account**

NIT Calicut is maintaining an EEFC Account for the collection of fees in foreign exchange. As per Schedule 7 there was a balance of ₹ 24.89 lakh as on 31 March 2023. However, balance of US \$ 5 was lying as per the bank confirmation. The difference has not been reconciled.

Though a similar observation was made in the previous year's SAR, no action has been taken to reconcile the difference.

### **B.8 Difference in Savings Account**

As per Schedule 7 Current Assets, there was a balance of ₹ 101.39 crore as on 31<sup>st</sup> March 2023 in Savings Accounts whereas as per the bank confirmation received, the balance was ₹ 84.39 crore only. Further, seven savings accounts having a balance of ₹ 28.51 lakh were not included in the accounts of the Institute.

On verification of Bank Reconciliation Statements prepared by the Institute, it is noticed that in 12 Reconciliation Statements, unexplained items amounting to ₹ 5,87,45,813/- were classified as "Difference in Opening balance". Also, very old debit and credit items are also pending clearance in the bank reconciliation statement.



The Institute is keeping in the books of accounts the balance of Savings Bank Accounts which were already closed/ inoperative. This includes an amount of ₹5,35,51,210 in respect of ICICI SB A/C No.44401001277 which was already closed.

#### **B.9 Schedule 3(C) - Grant-in-Aid**

According to guidelines for preparation of financial statements for Central Higher Educational Institutions, unutilized grants include advances on Capital Account.

On scrutiny of the accounts, it is observed that advances from Grant is not shown as unutilized grant. Instead, new columns viz., Plan Advance and Prior Period Advance are inserted in Schedule 3C, which is not in the prescribed format of accounts. It is also observed that interest on Grants, which is not a part of Grant, is shown as 'Unutilized Grants' in Schedule 3 as item A.6.(d). Interest on Grants, refundable to Government, needs to be shown as a separate item.

#### **B.10 Difference in Current Account.**

As per Schedule 7 Current Assets, there was a balance of ₹ (-) 750.29 lakh in Current Account as on 31 March 2023 whereas as per the bank confirmation received, the balance was ₹ 316.93 lakh. Further, three current accounts having a total balance of ₹ 2.07 lakh were not included in the accounts of the Institute.

#### **B.11 Schedule 8 Loans, Advances and Deposits ₹ 86.29 crore**

As per Form 65 issued by the implementing agency, the balance available with CPWD as on 31 March 2023 was ₹ 12.13 crore. However as per Schedule 8 Loans, Advances and Deposits, the outstanding balance is ₹ 52.09 crore. The difference has not been reconciled.

#### **C. Grant-in-Aid**

The Institute received a grant-in-aid of ₹ 219.22 crore from Ministry of Education, Government of India during 2022-23. Out of the total grant of ₹ 267.2 crore (including ₹ 47.98 crore being the unspent grant carried forward from previous year), the Institute utilized ₹ 204.82 crore during the year and refunded ₹ 7 crore to the Ministry. The balance of unspent grant-in-aid as on 31.3.2023 is ₹ 55.38 crore.

#### **D. Management Letter**

Deficiencies which have not been included in the Separate Audit Report have been brought to the notice of National Institute of Technology, Calicut through a management letter issued separately for remedial/corrective action.

v. Subject to our observations in the preceding paragraphs, we report that the Balance Sheet, Income & Expenditure Account and Receipts & Payments Account dealt with by this report are in agreement with the books of accounts.

vi. In our opinion and to the best of our information and according to the explanations given to us, the said financial statements read together with the Accounting Policies and Notes on Accounts, and subject to significant matters stated above and other matters mentioned in Annexure I to this Audit Report give a true and fair view in conformity with the accounting principles generally accepted in India.

a. In so far as it relates to the Balance Sheet, of the state of affairs of the National Institute of Technology, Calicut as at 31 March 2023 and

b. In so far as it relates to Income & Expenditure Account of the surplus for the year ended on that date.

**For and on behalf of the C& AG of India**



16.01.2024

**Principal Director of Audit (Central) Chennai**

Place: Chennai  
Date: 16 January 2024.

## Annexure I

**1) Adequacy of Internal Audit System:** Though an Internal Audit wing is functioning with an officer on special duty (audit), the duties and functions of the wing have not been defined. Now the audit is limited to pre-check of sanctions and pass-orders related to works and procurements. The internal audit does not cover the activities of all the wings/departments of the institute. A system of reporting of internal audit findings to the head of institute for taking corrective measures is not in practice.

**2) Adequacy of Internal Control System:** Internal control system is inadequate. There is no proper system of reconciliation of bank figures with that of figures in Institute's books of account. In spite of comments in previous year SARs, huge difference in balance of bank accounts and institute's accounts still persists. The institute is keeping, in the books of account, the balances of savings bank accounts, which had already been closed/inoperative.

**3) System of Physical Verification of Assets:** Annual physical verification of assets has not been conducted for the year 2022-23.

**4) System of Physical Verification of Inventory:**

The institute is not conducting physical verification of inventory items such as stores and spares, loose tools, publications, chemicals, consumables, glass ware, stationery etc. An amount of Rs.26,90,029/- shown as value of Inventory from 2020-21 onwards without any supporting documents/certificate.

**5) Adequacy of IT Controls:** There is deficiency in IT controls. Many incorrect and duplicate entries are being made at the time of initial data entry resulting in inflationary figures in Receipt & Payment Account, Income and Expenditure Account etc.

Both large number of mistakes during data entry and the ability to make corrections without sanction of responsible officers denote deficiency in IT controls.

**6) Regularity in payment of Statutory dues:** NITC is regular in payment of statutory dues.

  
Dy. Director (DT)II



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