

वार्षिक रिपोर्ट  
ANNUAL REPORT

वार्षिक लेखा  
ANNUAL ACCOUNTS

2021-2022



राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
National Institute of  
Technology Calicut

**ANNUAL REPORT  
&  
ANNUAL ACCOUNTS  
2021-2022**



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

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# **ANNUAL REPORT**

**2021-2022**

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# **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

# **2 AN OVERVIEW**

## **2.1 HISTORICAL BACKGROUND**

The National Institute of Technology Calicut (NITC), originally established in 1961 as a Regional Engineering College and got 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.

## **2.2 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.

## **2.3 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.

## **2.4 ADMINISTRATION**

### **2.4.1 GOVERNANCE**

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. Inline with the implementation of NEP 2020, NIT Calicut has started 11 multidisciplinary centers each headed by Chairperson.



## 2.5 ACADEMIC PROGRAMMES

The Institute imparts technical education at the degree and postgraduate levels viz., (1) Undergraduate (UG) programme of four years duration leading to B.Tech Degree, (2) UG programme of five years duration leading to B.Arch. degree, (3) Postgraduate (PG) programme of two years duration leading to M.Tech degree, (4) PG programme of two years duration leading to M.Sc degree (5) a programme of three years duration leading to the Master of Computer Applications (MCA) degree and (6) a two year MBA programme. All the programmes are offered in credit-semester pattern. In addition, Ph. D programmes in all disciplines are also offered. Physical education compulsory entry in NIT Calicut curriculum, unique in nature, offer to all B.Tech students as a one credit pass/fail course since 2002. In which any one major games or swimming or fitness or yoga is made mandatory for students.

## 2.6 PROGRAMMES OFFERED

<b><u>PG Programmes</u></b>		
<b>DEPT /SCHOOL</b>	<b>NO</b>	<b>M.TECH PROGRAMME</b>
<b>CIVIL ENGINEERING</b>	1	Structural Engg.
	2	Traffic & Transportation Planning.
	3	Offshore Structures.
	4	Environmental Geotechnology.
	5	Water Resources Engineering
<b>COMPUTER SCIENCE AND ENGG.</b>	6	Computer Science and Engg.
	7	Computer Science & Engg.-(Information Security)
<b>ELECTRICAL ENGG.</b>	8	Instrumentation & Control Systems.
	9	Power Systems.
	10	Power Electronics.
	11	Industrial Power & Automation.
	12	High Voltage Engineering
<b>ELECTRONICS &amp; COMMUNICATION ENGG.</b>	13	Electronics Design & Technology.
	14	Microelectronics & VLSI Design.
	15	Telecommunication.
	16	Signal Processing.
<b>MECHANICAL ENGG.</b>	17	Industrial Engg.& Management.
	18	Thermal Science.
	19	Manufacturing Technology.
	20	Energy Engg. & Management.
	21	Materials Science & Technology.
	22	Machine Design
<b>SCHOOL OF MATERIALS SCIENCE &amp; ENGINEERING</b>	23	Nanotechnology.
<b>CHEMICAL ENGG.</b>	24	Chemical Engg.
<b>ARCHITECTURE &amp; PLANNING</b>	25	M.Plan
<b>CHEMISTRY</b>	26	MSc. CHEMISTRY
<b>MATHS</b>	27	MSc. MATHS
<b>PHYSICS</b>	28	MSc. PHYSICS
<b>COMPUTER SCIENCE AND ENGG.</b>	29	MCA
<b>SCHOOL OF MANAGEMENT STUDIES</b>	30	MBA
Ph.D. Programme has been offered by all the Departments and Schools		

## 2.7 ADMISSION PROCEDURE

Admission to B. Tech /B. Arch. programmes offered at NIT Calicut is made under the following categories:

Sl. No	Category	Basis of Admission	Sanctioned Intake
1	Candidates from Kerala state (Home State Quota) †	*JEE (Main) Rank	622
2	Candidates from Other State (Other State Quota)†	* JEE (Main) Rank	622
3	Candidates from Lakshadweep & Khandvi (Home State Quota) †	* JEE (Main) Rank	33
4	Foreign Nationals \$	Marks in theQualifying Examination	16
5	MEA Welfare Scheme #	Marks in the Qualifying Examination	06
6	Study in India	Marks in the Qualifying Examination	15
7	Direct Admission of Students from Abroad(DASA) scheme	* JEE (Main) Rank	145
Total			1459

- † Reservations as per Rules of Government of India (GoI).
- \* Joint Entrance Examination (Main), conducted by the National Testing Agency (NTA).
- \$ Nominated by the Ministry of External Affairs (Students Cell), GoI, through Indian Council for Cultural Relations (ICCR).
- # Nominated by the Ministry of External Affairs, GoI

## 2.8 STUDENTS

The Students' Affairs Council (SAC) 2021-22 was elected and constituted with 42 Branch Councilors and 10 Executive Council members. The election was conducted during March 2022. The annual techno-management festival Tathva'21 was successfully conducted in Online mode during January to April 2022. 1032 people had attended the lectures hosted by the Tathva Lecture Committee. Our online workshops were attended by 2300 students. The annual cultural festival RAGAM 2022 was organized in the offline mode during April 2022 to May 2022. The event marked an all-time record in terms of external participation.

## 2.9 EXAMINATION & EVALUATION

All academic programmes of the Institute follow the credit-semester system. Minimum credits to be earned for the award of various degrees are specified in the respective curricula. The modalities for continuous evaluation of various courses being offered by the departments/schools are decided by the Institute Senate from time to time and are followed scrupulously. Slow learners are given adequate chances to pursue the studies.

## 2.10 PLACEMENT

### a) Placement and Internships 2021-'22 Summary

Number of Companies	192	
Number of Placement (2022 Graduands)	1140	UG- 756 PG-380 Ph.D-4
Number of Internships (2023 Graduands)	310	UG-183 PG-127

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

Programme	Total Placed	Total Registered	Percentage (%)	Min Salary [in lakhs INR]	Max Salary [in lakhs INR]	Avg. Salary [in lakhs INR]	Median Salary [in lakhs INR]
UG [B.Tech+ B.Arch]	756	792	95.45	4.07	67.62	12.58	9.3
PG [M.Tech+MCA+M BA+M.Sc.]	380	461	82.4	2.75	33.45	11.09	9.3
<b>TOTAL [UG+PG]</b>	<b>1136</b>	<b>1253</b>	<b>90.68</b>	<b>2.75</b>	<b>67.62</b>	<b>12.06</b>	<b>9.3</b>

\* Indicates total number of students placed [double offers not counted]

\*\* Includes students with CGPA  $\geq$  6.5 and who participated in all CCD registrations. If a company has offered a job to a student having CGPA  $<$  6.5, it is included in both placed as well registered counts

### c) UG Placement Details 2021-2022 as on 23/08/22

UG Program Details	Total Placed	Total Registered	Percentage	Min Salary	Max Salary	Avg. Salary
B.Arch	8	9	88.89	6	9	7.08
B.Tech Bio Technology	16	19	84.21	6	11.4	7.74
B.Tech Civil	86	98	87.76	4.25	11.4	7.36
B.Tech Chemical	70	80	87.5	5.5	18	9
B.Tech Computer Science	148	148	100	5	67.62	20.54
B.Tech Electrical & Electronics	120	124	96.77	5	32.16	12.1
B.Tech Electronics & Commn.	129	131	98.47	5	42.79	14.99
B.Tech Mechanical	131	134	97.76	4.25	27.51	9
B.Tech Production	35	36	97.22	4.07	19	8.97
B.Tech Engg.Physics	13	13	100	7	16.2	11
<b>Total UG</b>	<b>756</b>	<b>792</b>				

**d) PG Placement Details 2021-2022 as on 23-08-2022**

<b>PG Program Details</b>	<b>Total Placed*</b>	<b>Total Registered*</b>	<b>Percentage</b>	<b>Min Salary</b>	<b>Max Salary</b>	<b>Avg. Salary</b>
AR - M.Plan	0	0	0	0	0	0
CE - M.Tech Environmental GeoTech	6	13	46.15	4.8	12.56	8.06
CE - M.Tech Offshore Structures	14	17	82.35	4.8	6.3	5.67
CE - M.Tech Structural Engineering	9	11	81.81	5	9.5	6.39
CE - M.Tech Traffic & Transportation Planning	7	16	43.75	4.2	12.56	6.05
CE - M.Tech Water Resources Engineering	5	8	62.5	5.27	12.56	7.76
CH - M.Tech Chemical	2	5	40	4.2	7.5	5.85
CS - M.Tech Computer Science	23	23	100	9.2	33.45	17.2
CS - M.Tech Computer Science (Information Security)	22	22	100	14.38	29.6	21.55
CS - MCA	44	46	95.65	5	33.45	11.86
EE - M.Tech Power Systems	17	18	94.44	4.2	14.98	8.54
EE - M.Tech High Voltage Engineering	10	13	76.92	6.75	15	9.11
EE - M.Tech Instrumentation and Control Systems	17	17	100	6.75	24	10.87
EE - M.Tech Industrial Power and Automation	17	17	100	6.75	16	9.28
EE - M.Tech Power Electronics	19	20	95	6	29.6	10.81
EC - M.Tech Electronics Design and Technology	17	17	100	6.75	24	16.82
EC - M.Tech Signal Processing	11	13	84.62	6.33	23.1	12.93

EC - M.Tech Telecommunication	10	10	100	6.75	26	16
EC - M.Tech Micro Electronics & VLSI Design	18	19	94.74	6.75	20.46	13
ME - M.Tech Energy Engg. & Management	13	18	72.227	6	15	8.35
ME - M.Tech Industrial Engg. & Management	16	19	84.21	6	16	9.6
ME - M.Tech Machine Design	11	11	100	6	16	9.27
ME - M.Tech Material Science & Technology	12	23	52.17	6	15	9.21
ME - M.Tech Manufacturing Technology	17	19	89.47	6	16	8.74
ME - M.Tech Thermal Sciences	14	14	100	6	16	8.98
NS - M.Tech Material Science & Engineering (Nano Technology)	3	5	60	7.1	12.56	9.38
MS - MBA	22	38	57.89	5.79	12.56	8.58
PH - M.Sc. Physics	1	1	100	6.75	6.75	6.75
CY - M.Sc. Chemistry	2	5	40	2.75	6.75	4.75
MA - M.Sc. Mathematics	1	3	33.33	16	16	16
<b>Total PG</b>	<b>380</b>	<b>461</b>				
* Indicates total number of students placed [double offers not counted] ** Includes students with CGPA >= 6.5 and who participated in all CCD registrations. If a company has offered a job to a student having CGPA < 6.5, it is included in both placed as well registered counts.						

#### e) Internship Statistics 2021-'22 (As on 23/08/2022)

Programme	Total Placed	Total Registered	Percentage
UG [B.Tech]	183	910	20.10
PG [M.Tech+MCA]	127	387	32.81
<b>TOTAL [UG+PG]</b>	<b>310</b>	<b>1297</b>	<b>23.90</b>

## 2.11 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.

	<b>In India</b>	<b>Abroad</b>	<b>Total</b>
<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> <li>• etc</li> </ul>		
<b>NITC Alumni Contribution</b>	<b>Batch</b>	<b>Activity</b>	
	1994, '95 and '96 batches	ERP software named Institute Management System (IMS) is currently being developed by M/s. Cognitive Platform Solutions (CPS) at a cost of Rs. 60 lakhs	
	1980-85	Internet of Things (IoT) lab, named 'Lab8085' To facilitate research in areas such as IoT, IIoT, AI, ML, robotics etc	
	1989-93 batch, Mr. Suresh Chand Jain of 1973 batch and NITCAA	Green Amphitheatre with a seating capacity of 300 is coming up in the space between the Main Building and the Old Library Building at a cost of Rs. 21 lakhs	
Other noteworthy milestones during 2021-22 include publication of two issues of the alumni newsletter NITCONNECT and campus reunion of the students, teachers and staff members of the first batch (1961 admission) of CREC.			

## 2.12 GAMES AND SPORTS

NIT scenario has Physical Education as a compulsory entity in the curriculum. The OT program included in the time table comprise of Class-room orientation of fresher's and a One-Credit Course in Physical Education (Code: ZZ1093D). Mass participation and Interclass activities ran simultaneously aiding in talent search, formation of Institute teams and exposing them in as many interscholastic tournaments as possible. The participation percentage during 2021-22 has touched an all-time high of 45%.

In the year 2021-22, in commemoration of the Diamond Jubilee, in the One-Credit Course stressing on character development through sports & event-managerial abilities. The total number of all first-year students in 13 batches (A-N) successfully underwent and completed the credit course during 2021-22.

### 2.13 STAFF POSITION (non-teaching)

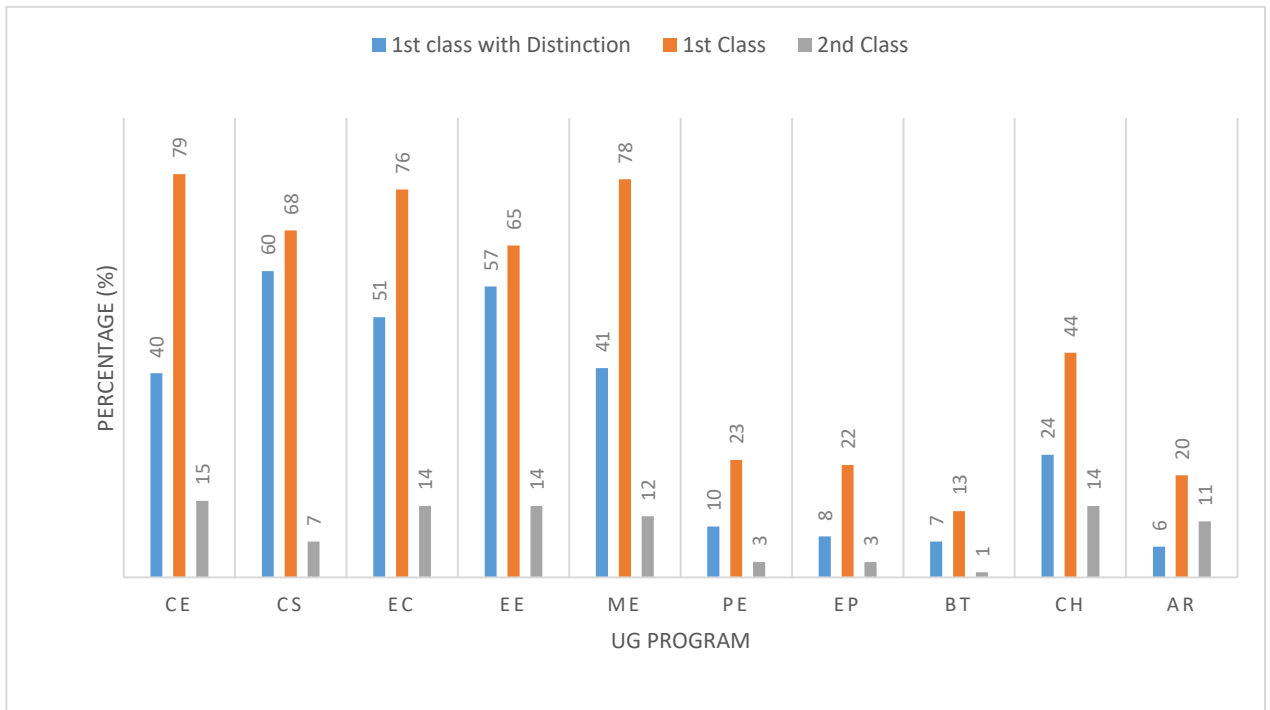
#### TEACHING STAFF

The sanctioned strength of teaching staff is 483. The department wise break-up of the sanctioned and in position strength of faculty is given below.

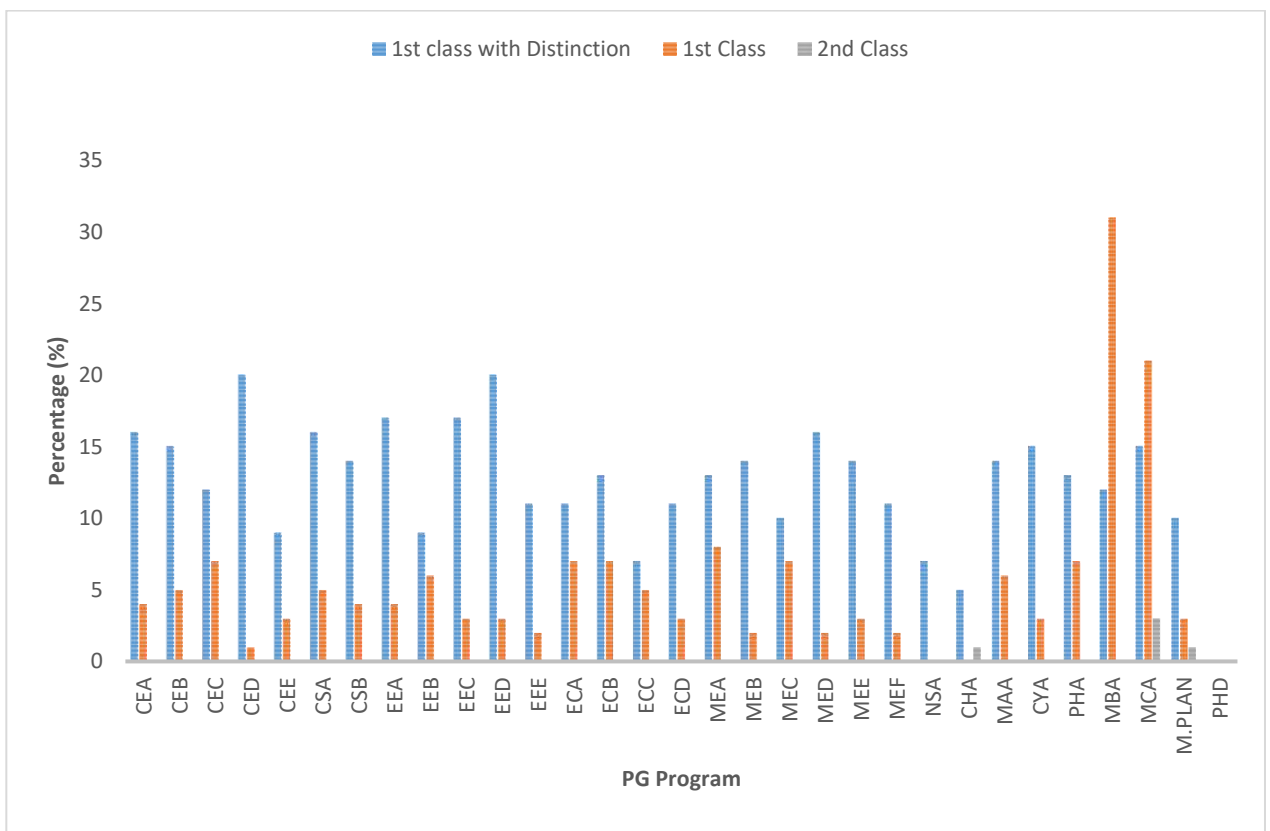
DEPARTMENT/SCHOOL	SANCTIONED	IN POSITION AS ON 31.03.2022
Architecture	23	11
Chemical Engineering	27	18
Civil Engineering	64	35
Computer Science & Engineering	58	29
Electrical & Electronics Engineering	62	30
Electronics & Communication Engineering	60	32
Mechanical Engineering	81	39
Mathematics	25	14
Physics, Chemistry and Humanities	42	29
Physical Education	6	1
Biotechnology	16	11
School of Management Studies	16	9
School of Materials Science & Engineering	6	6
<b>Total</b>	<b>483</b>	<b>264</b>

## 2.14 NOTABLE ACHIEVEMENTS

### a) Details of B. Tech / B.Arch. Students passed out in 2021-22

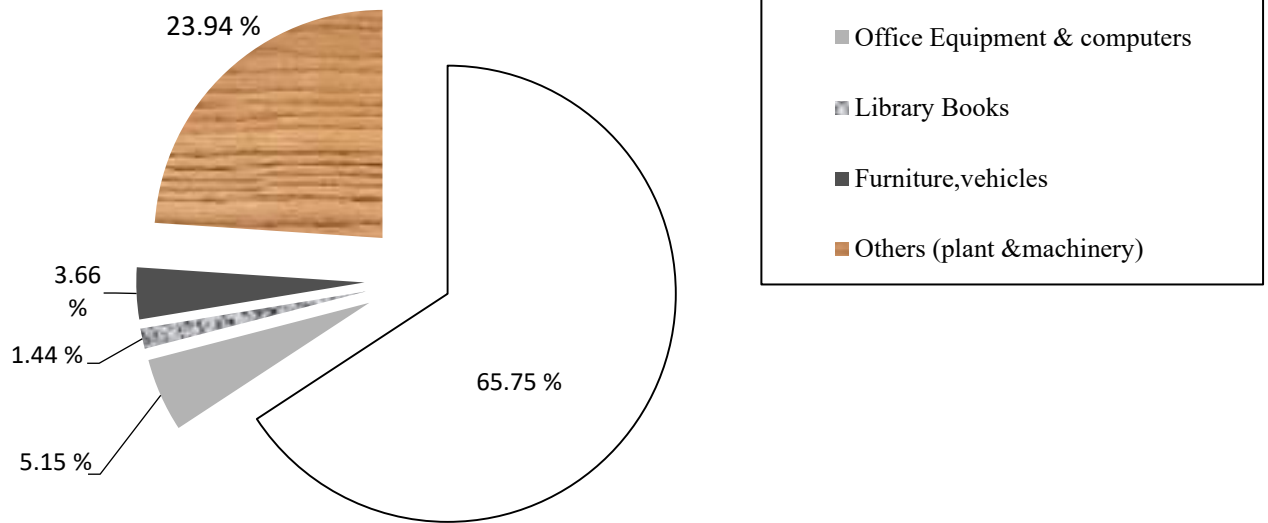


### b) Details of M. Tech, MCA, MBA & Ph. D Students passed out in 2021-2022





**c) Details of Assets as on 31.03.2022**



**2.15 VISUALS OF MAJOR STUDENT ACTIVITIES**

**(i) Foreign Professors Visit**



**Professors visit from Oxford Brookes University**

(ii) Tathva 2021



Origo Robotics Workshop (NIT Calicut - Pre-Tathva)

**(iii) Exhibitions/Training/competitions**



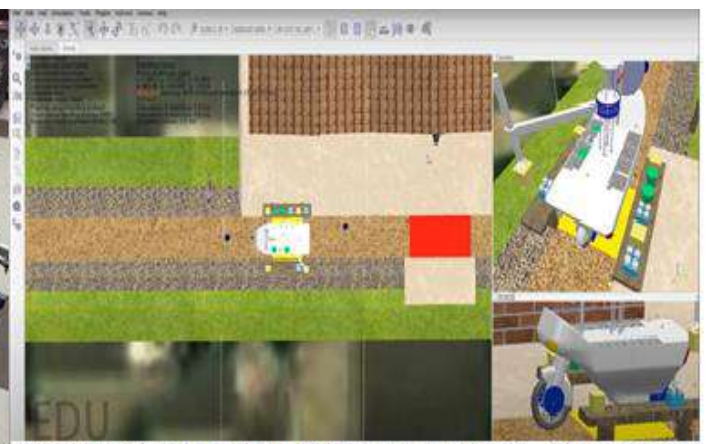
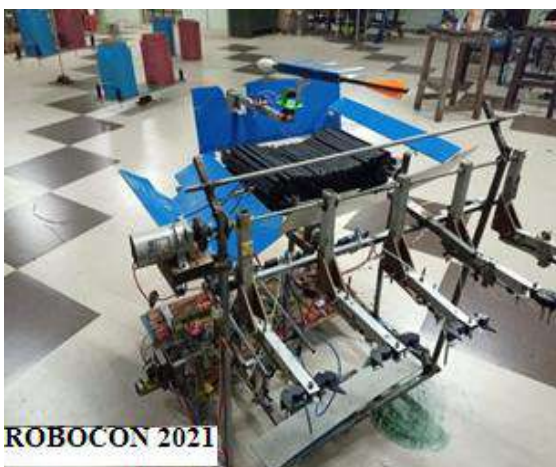
**Exhibition of Robotics projects**



**Stall at Ente Keralam Exhibition Kozhikode**



Feroke GHSS 3-days Robotics Training



E-vantra Robotics Competition 2021-2022 - All India 7th

### 3.0 STAFF DETAILS

<b>Director</b>	Dr. Prasad Krishna	18.10.2021 onwards
	Dr. Sathidevi P S (i/c)	01-04-2021 to 17.10.2021
<b>Deputy Director</b>	Dr. Sathidevi P S	01-04-2021 onwards
<b>Dean (Academic)</b>	Dr. Saly George	01-04-2021 onwards
<b>Dean (FW)</b>	Dr. Chandrasekharan K	01-04-2021 to 13.02.2022
	Dr. J. Sudhakumar	14.02.2022 onwards
<b>Dean (P&amp;D)</b>	Dr. Naseer M A	01-04-2021 onwards
<b>Dean (R&amp;C)</b>	Dr. V. Madhusudanan Pillai	01-04-2021 onwards
<b>Dean (SW)</b>	Dr. S.D. Madhukumar	01-04-2021 to 15.11.2021
	Dr. Rajanikant G.K	16.11.2021 onwards
<b>Dean (ACR)</b>	Dr. Jeevamma Jacob	01-04-2021 to 20.03.2022
	Dr Anilkumar P P	21.03.2022 onwards
<b>Registrar</b>	Lt. Col. (Retd) Pankajakshan K	01-04-2021 to 16.10.2021
	Dr. Jeevamma Jacob (i/c)	16.10.2021 onwards
<b>Asso. Dean (Academic)</b>	Dr. Sindhu T K	01-04-2021 onwards
	Dr. Raghu C V	01-04-2021 onwards
	Dr. Hanas T	10.01.2022 onwards
<b>Asso. Dean (FW)</b>	Dr. T.J Sarvoththama Jothi	01-04-2021 onwards
<b>Asso. Dean (P&amp;D)</b>	Dr. Sudheer A.P	01-04-2021 onwards
	Dr. Sathish Kumar D	01-04-2021 onwards
<b>Asso. Dean (R&amp;C)</b>	Dr. Sudhish N George	01-04-2021 to 31.01.2022
	Dr. Bindiya T S	01.02.2022 onwards
<b>Asso. Dean (SW)</b>	Dr. Muhammed Firoz	01-04-2021 to 20.12.2021
	Dr. Haribabu K	21.12.2021 onwards
<b>Asso. Dean (ACR)</b>	Dr. Shijo Thomas	01-04-2021 to 21.03.2022
	Dr. Deepak Lawrence	22.03.2022 onwards

### 3.1 ACADEMIC STAFF (Teaching)

#### DEPARTMENT OF ARCHITECTURE

SL. NO.	NAME	DESIGNATION	QUALIFICATION	SPECIALIZATION
1	Dr. Kasthurba A. K	Professor & Head	B. Arch, M. Tech, Ph. D	Sustainable Building Technology and Architectural Conservation
2	Dr. P.P	Professor	B. Tech, MCP,	Architectural Engg., City

	AnilKumar.		Ph.D.	Planning
3	Dr. Naseer M.A	Professor	B. Tech, MCP, Ph. D	Architectural Engg., City Planning
4	Dr. Mohammed Firoz C.	Associate Professor	B. Arch, M Plan, Ph. D	Architecture, Urban and Regional Planning
5	Dr. Chithra K.	Associate Professor	B. Arch, M Plan, Ph.D.	Architecture, Urban Planning
6	Dr. Shyni Anilkumar	Assistant Professor, Gr-I	B. Tech, M Plan, Ph.D.	Architectural Engg., Housing, Disaster Management
7	Dr. Bimal P	Assistant Professor, Gr-I	B. Arch, MCP, Ph.D.	Architecture, City Planning
8	Dr. Deepthi Bendi	Assistant Professor, Gr-I	B.Arch, M.Sc, Ph.D.	Architecture, Construction Management
9	Dr. Anjana Bhagyanathan	Assistant Professor, Gr-I	B.Arch, M.Arch., Ph.D.	Landscape Architecture
10	Dr. Amritha P.K.	Assistant Professor, Gr-II	B. Arch, M.Arch, Ph.D.	Architecture, Landscape Architecture
11	Ar. Ritesh Ranjan	Assistant Professor, Gr-II	B.Arch, M Urban Planning	Architecture, Urban Planning
12	Dr. Sanil Kumar	Assistant Professor, Gr-II	B. Arch, MURP, Ph.D.	Architecture, Urban and Rural Planning
13	Er. Abhijith R	Ad-hoc Faculty	M. Tech.	Marine Structures
14	Ar. Haneen Pallathodi	Ad-hoc Faculty	B. Arch, M.Arch	Sustainable Architecture
15	Er. Riya Robi	Ad-hoc Faculty	B.Tech., M.Plan.	Urban Planning
16	Ar. Suchitra Karthik	Ad-hoc Faculty	B. Arch., M.Plan.	Architecture, Urban & Regional Planning
17	Dr.Himasree P R	Ad-hoc Faculty	M.Tech, Ph.D	Structural Engineering
18	Ar.Charlie gupta	Ad-hoc Faculty	B. Arch, M.Arch	Urban Design
19	Ar. Sajida Shahnum	Ad-hoc Faculty	B. Arch., M.Plan.	Environmental planning
20	Ar.Deepa P	Ad-hoc Faculty	B. Arch., M.A	Town and regional planning
21	Dr. Tony Marcel Nisha	Ad-hoc Faculty	B. Arch, M.Plan, Ph.D.	Architectural socio cultural aspects
22	Ar. Rohith Kumar	Ad-hoc Faculty	B. Arch., M.Plan.	MCP Planning
23	Ar.Biswanath Mudi	Ad-hoc Faculty	B. Arch, M.Arch	Building engineering and management
24	Er.Sahir M	Ad-hoc Faculty	B. Tech,M. Tech	Structural Engineering
25	Ar.Piyali Debnath	Ad-hoc Faculty	B. Arch,M.Arch	Building engineering and management

### **DEPARTMENT OF CHEMICAL ENGINEERING**

SL. NO.	NAME	DESIGNATION	QUALIFICATION	SPECIALIZATION
1	Dr. Aparna. K	Associate Professor & Head of the Department	M. Tech and PhD	Effluent treatment, Biofuels, Process Control, Microwave Heating
2	Dr. Shiny	Professor	M. Tech and PhD	Separation Processes

	Joseph			
3	Dr. Sivasubramanian V	Professor	M. Tech, MBA and PhD	Fluidization Engineering, Environmental Engineering and Energy Engineering
4	Dr. Lily Alen Varghese	Professor	M. Tech and PhD	Polymer Technology, Water treatment
5	Dr. S. Bhuvaneshwari	Associate Professor	M. Tech and PhD	Waste Water Treatment, Electrochemical Technology
6	Dr. Haribabu. K	Associate Professor	ME/M. Tech and PhD	Energy and Environment
7	Dr. Vineesh Ravi	Assistant professor	M. Tech and PhD	Energy Engineering
8	Dr. Malladi V Pavan Kumar	Assistant professor	ME/M. Tech and PhD	Modelling, Simulation, Control, Water Treatment, Environmental Engineering, Adsorption, Biomass Conversion, Conventional and Renewable Energy Systems, Food Technology, Thermodynamics
9	Dr. Chandra Shekar B	Assistant professor	ME/M. Tech and PhD	Process Control
10	Dr. Noel Jacob Kaleekkal	Assistant professor	ME/M. Tech and PhD	Membrane Science and Technology
11	Dr. Sudev Das	Assistant professor	ME/M. Tech and PhD	Phase Change Heat Transfer, Solar Thermal Energy Storage
12	Dr. Vakamalla Tejaswi Sreeram Kumar Reddy	Assistant professor	ME/M. Tech and PhD	Experimental and Computational Fluid Dynamics
13	Dr. Susmita Das	Assistant professor	ME/M. Tech and PhD	Nano Technology, Fracture of Polymers
14	Dr. Panneerselvam Ranganathan	Assistant professor	ME/M. Tech and PhD	Chemical Reaction Engineering
15	Dr. Dhanya Ram V	Assistant professor	ME/M. Tech and PhD	Process Control
16	Dr. Fathima Fasmin	Assistant professor	PhD	Electrochemical Technologies
17	Dr. Swapna Reddy	Assistant professor	ME/M. Tech and PhD	Advanced Process Control
18	Dr. Praveen Kumar G	Assistant professor	PhD	Energy and Fuels
19	Dr. Yogesh Kumar	Assistant professor	M.E and PhD	Material and Process Modelling and Simulation, Environmental Engineering
20	Dr. Subhasis Mandal	Assistant professor	M.E and PhD	Process Modelling and Simulation, Thermodynamic Modelling, Gas Hydrates, Biochemical Engineering

## DEPARTMENT OF CIVIL ENGINEERING

SL. NO.	NAME	DESIGNATION	QUALIFICATION	SPECIALIZATION
1	Dr. Santosh G. Thampi	Professor (HAG) and Head	M.Tech., Ph.D	Environmental Hydrology
2	Dr. S. Chandrakaran	Professor (HAG)	M.E., Ph.D	Geotechnical Engineering
3	Dr. M.V.L.R. Anjaneyulu	Professor (HAG)	M.Tech, Ph.D	Transportation Engineering
4	Dr. P.V. Indira	Professor (HAG)	M.Tech, Ph. D	Structural Engineering
5	Dr. N. Sankar	Professor (HAG)	M.Tech. Ph.D	Geotechnical Engineering
6	Dr. A. P. Shashikala	Professor (HAG)	M.Sc (Engg), Ph.D	Structural/ Ocean Engineering
7	Dr. T. M. Madhavan Pillai	Professor (HAG)	M.Tech., Ph.D	Structural Engineering
8	Dr. J. Sudhakumar	Professor	M.Tech., Ph.D	Building Technology
9	Dr. Mohammed Ameen	Professor	M.E., Ph.D	Structural Engineering
10	Dr. K. Krishnamurthy	Professor	M.E., Ph.D	Transportation Engineering
11	Dr. Praveen Nagarajan	Professor	M.Tech., Ph.D	Structural Engineering
12	Dr. K. Sasikumar	Associate Professor	M.Tech., Ph.D	Water Resources Engineering
13	Dr. Sajith A S	Associate Professor	M.E., Ph.D	Structural Engineering
14	Dr. Kodi Ranga Swamy	Associate Professor	M.Tech., Ph.D	Geotechnical Engineering
15	Dr. Chitra N R	Asst. Professor	M.Tech., Ph.D	Hydraulics & Water Resources Engineering
16	Dr. George K Varghese	Asst. Professor	M.Tech., Ph.D	Environmental Engineering
17	Dr. Harikrishna M	Asst. Professor	M.Tech., Ph.D	Transportation Engineering
18	Dr. Sathish Kumar D	Asst. Professor	M.Tech., Ph.D	Remote Sensing & GIS, Hydrology
19	Dr. Robin Davis	Asst. Professor	M.E., Ph.D	Structural Engineering
20	Dr. Anjana Bhasi	Asst. Professor	M.S., Ph.D	Geotechnical Engineering
21	Dr. Anantha Singh T. S.	Asst. Professor	M.Tech., Ph.D	Environmental Engineering
22	Dr. M. Sivakumar	Asst. Professor	M.E., Ph. D	Transportation Engineering
23	Dr. Mini Remanan	Asst. Professor	M.Tech., Ph.D	Structural Engineering
24	Dr. Pramada S K	Asst. Professor	M.Tech., Ph.D	Water Resources Engineering
25	Ms. Reesha Bharath K	Asst. Professor	M.Tech.	Construction Technology



26	Dr. R. Arunkumar	Asst. Professor	M.Tech., Ph.D	Water Resources Engineering
27	Dr. Renjitha Mary Varghese	Asst. Professor	M.Tech., Ph.D	Geotechnical Engineering
28	Dr. K. V. Anand	Asst. Professor	M.S., Ph.D	Ocean Engineering
29	Dr. Agilan V	Asst. Professor	M.Tech., Ph.D	Remote Sensing & GIS, Hydrology
30	Dr. Aswathy E. V.	Asst. Professor	M.Tech., Ph.D	Environmental Engineering
31	Dr. Yogeshwar V Navandar	Asst. Professor	M.Tech., Ph.D	Transportation Engineering
32	Dr. Jayachandran K	Asst. Professor	M.Tech., Ph.D.	Construction Engineering & Management
33	Dr. Seethalakshmi P	Asst. Professor	M.Tech., Ph.D.	Geotechnical Engineering
34	Dr. Muhamed Safer Pandikkadavath	Asst. Professor	M.Tech., Ph.D.	Structural Engineering
35	Dr Anil Kumar Dash	Asst. Professor	M.Tech., Ph.D.	Offshore Structures
36	Dr Suman Saha	Asst. Professor	M.Tech., Ph.D.	Structural Engineering
37	Dr. E. Muthu Kumar	Adhoc Faculty	M.Tech., Ph.D.	Construction Engineering & Management
38	Mr. Jayarajan P.	Adhoc Faculty	M.Tech	Geotechnical Engineering
39	Dr. Aju C D	Adhoc Faculty	M.Sc., Ph.D.	Geology
40	Dr. Jagori Dutta	Adhoc Faculty	M.Tech., Ph.D.	Geotechnical Engineering
41	Dr. Devika Babu	Adhoc Faculty	M.Tech., Ph.D.	Transportation Engineering

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

SL.NO	NAME	DESIGNATION	QUALIFICATION	SPECIALIZATION
1	Dr. Abdul Nazeer K A	Professor	Ph. D	Artificial Intelligence, Bioinformatics, Data Mining
2	Dr. Anil Pinapati	Assistant Professor	Ph. D	Cryptography, Data Hiding and Information Security, Elliptic Curve Cryptography
3	Dr. Anu Mary Chacko	Assistant Professor	Ph. D	Big Data Analytics, Health Informatics, Computer Security

4	Dr. Arun Raj Kumar P	Assistant Professor	Ph. D	Computer Networks and Security, Vehicular Ad Hoc Networks (VANET), Internet of Things (IoTs), Machine Learning
5	Dr. Gopakumar G	Assistant Professor	Ph. D	Bioinformatics, data Mining
6	Dr. Hiran V Nath	Assistant Professor	Ph. D	Cyber Security and Digital Forensics
7	Dr. Jay Prakash	Assistant Professor	Ph. D	Machine Learning, Computational Intelligence, Data and Text Mining, Multi-objective Optimization
8	Dr. Jayaraj P B	Assistant Professor	Ph. D	High Performance Computing, Parallel computing, Machine Learning
9	Dr. Jimmy Jose	Associate Professor	Ph. D	Cryptography and Security
10	Dr. Lijiya A	Assistant Professor	Ph. D	Image Processing, Pattern Recognition, Artificial Intelligence, Machine Learning
11	Madhu Kumar S.D	Professor	Ph. D	Cloud Computing, Big Data Analytics, DBMS, Software Engineering
12	Murali Krishnan K	Associate Professor and Head	Ph. D	Algorithms and Complexity, Coding Theory
13	Pournami P N	Assistant Professor	Ph.D	Computer vision, Machine Learning
14	Prabu M	Assistant Professor	Ph. D	Image Processing, Acoustic Classification, Machine Learning
15	Pranesh Das	Assistant Professor	Ph. D	Data Mining, Computational Intelligence, Machine Learning
16	Priya Chandran	Professor	Ph. D	Computer Architecture, Algorithms
17	Raju Hazari	Assistant Professor	Ph. D	Cellular Automata: Theory and Applications, Machine Learning, Cryptography and Security

18	S Sheerazuddin	Assistant Professor	Ph. D	Logic and Formal Verification
19	Saidalavi Kalady	Associate Professor	Ph.D	Computational Intelligence, Data Mining, Operating Systems
20	Saleena N	Associate Professor	Ph. D	Program Analysis, Compilers
21	Sreenu Naik Bhukya	Assistant Professor	M. Tech	Computer Networks, WSNS
22	Srinivasa T M	Assistant Professor	M. Tech	DNA Computing
23	Subashini R	Associate Professor	Ph. D	Design and analysis of Algorithms
24	Subhasree M	Associate Professor	Ph. D	Computational Geometry
25	Sumesh T A	Assistant Professor	M. Tech	Computer Networks, Computer Vision
26	T. Veni	Assistant Professor	Ph. D	Operating systems, Cloud computing, Fog Computing and Internet of Things (IoTs).
27	Vasudevan A R	Assistant Professor	Ph. D	Computer Networks, Network Security and Internet of Things (IoTs).
28	Vineeth Kumar Paleri	Professor	Ph. D.	Programming Languages & Compilers.
29	Vinod P	Associate Professor	Ph. D	Information Security Management

### **DEPARTMENT OF ELECTRICAL ENGINEERING**

Sl. No .	Name	Designation	Qualification	Specialization
1.	Dr. Preetha. P.	Associate Professor & Head	Ph.D. (IISc Bangalore)	High Voltage Engg.
2.	Dr. Ashok S	Professor (HAG)	Ph.D. (IIT Bombay)	Power & Energy Systems
3.	Dr. Paul Joseph K.	Professor (HAG)	Ph.D. (IIT Madras)	Biomedical Instrumentation

4.	Dr. Jeevamma Jacob	Professor (HAG)	Ph.D. (IIT Bombay)	Instrumentation and Control
5.	Dr. Saly George	Professor (HAG)	Ph.D. (REC Calicut)	Power Electronics
6.	Dr. Susy Thomas	Professor	Ph.D. (IIT Bombay)	Control Systems
7.	Dr. Rijil Ramchand	Professor	Ph.D. (IISc, Bangalore)	Power Electronics
8.	Mr. P. Ananthakrishnan	Associate Professor	M.Tech. (IIT Madras)	Power Electronics & Drives
9.	Dr. Jagadanand G	Associate Professor	Ph.D. (NIT Calicut)	Power Electronics
10.	Dr. Mukti Barai	Associate Professor	Ph.D. (IIT Kharagpur)	Power Electronics
11.	Dr. Sindhu T K	Associate Professor	Ph.D. (IIT Chennai)	High Voltage Engg, Power Systems
12.	Dr. Subha. D.P	Associate Professor	Ph.D (NIT Calicut)	Power Systems, Biomedical Engineering
13.	Dr. Sunitha K	Associate Professor	Ph.D. (IISc,Bangalore)	High Voltage Engg.
14.	Dr. Sunitha R	Associate Professor	Ph.D (NIT Calicut)	Power Systems
15.	Mr. K. S. Suresh Kumar	Associate Professor	M.Tech. (IIT Madras)	Power Electronics
16.	Dr. Gopakumar P	Assistant Professor	Ph.D (NIT Trichy)	Power System
17.	Dr. Hema Rani.P	Assistant Professor	M.Tech (IIT Kanpur)	Power Electronics
18.	Dr. Kanagalakshmi S	Assistant Professor	Ph.D (Anna University)	Process Control Instrumentation
19.	Dr. Karthikeyan V	Assistant Professor	Ph.D (NIT Allahabad)	Power Electronics and Drives
20.	Dr. Kumaravel S	Assistant Professor	Ph.D. (NIT Calicut)	Power Systems

21.	Dr. Mija S J	Assistant Professor	Ph.D (NIT Calicut)	Control Systems
22.	Dr. Nikhil Sasidharan	Assistant Professor	Ph.D (Asian Institute of technology, bankok, Tailand)	Power Electronics and Power Systems
23.	Dr. Sanjay M	Assistant Professor	Ph.D (Christian Medical College, Vellore)	Electronics and Biomedical Engineering
24.	Mr. Subhash K.M.	Assistant Professor	M.Tech (NIT Calicut)	Control and Instrumentation
25.	Dr. T K Sunil Kumar	Assistant Professor	Ph.D. (IIT Kharagpur)	Power Systems
26.	Dr. Shreelakshmi M P	Assistant Professor	Ph.D (IIT Bombay)	Power Electronics and Drives
27.	Dr. Arun Neelimegham K M	Assistant Professor	Ph.D. (IIT Kharagpur)	Control Systems
28.	Dr. Deepak M	Assistant Professor	Ph.D. (IISST, Thiruvananthapuram)	Power and Energy Systems
29.	Dr. Nasirul Haque	Assistant Professor	Ph.D. (Jadavpur University, Kolkata)	High Voltage Engg.
30.	Dr. Shihabudheen K V	Assistant Professor	Ph.D. (IIT Roorkee)	Control, Computing and Renewable Energy Systems
31.	Dr. Mithun M S	Assistant Professor	Ph.D. (IIT Madras)	Instrumentation and Measurements

There are 09 ad-hoc faculty members working in the department in addition to this on temporary

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

SL. NO.	NAME	DESIGNATION	QUALIFICATION	SPECIALIZATION
1	Dr Lillykutty Jacob	Professor (HAG)	PhD	Communication Networks
2	Dr. P. S. Sathidevi	Professor (HAG)	PhD	Speech and Audio Processing
3	Dr. S. M. Sameer	Professor	PhD	Wireless Communication

4	Dr. A. V. Babu	Professor	PhD	Wireless Communications, Communication Networks
5	Dr. Deepthi P. P.	Professor	PhD	Communication, Signal processing, Cryptography
6	Dr. Sreelekha G.	Professor	PhD	Signal Processing
7	Dr. Abhilash G.	Associate Professor	PhD	Signal Theory/Processing
8	Dr. Jaikumar M. G.	Associate Professor	PhD	Microelectronics
9	Smt. Lyla B Das	Associate Professor	M.Tech.	Embedded Systems
10	Shri. Suresh R.	Associate Professor	M.Tech.	Digital Systems
11	Dr. Dhanaraj K. J.	Assistant Professor	PhD	Analog and Digital ID Design
12	Dr. Praveen Sankaran	Assistant Professor	PhD	Computer Vision, Machine Learning
13	Dr. Sudhish N. George	Assistant Professor	PhD	Computer Vision & Image Processing
14	Dr. Sakthivel V.	Assistant Professor Grade-I	PhD	Digital Signal Processing, Multirate filter and filter banks
15	Dr. Suja K. J.	Assistant Professor Gr I	PhD	Microelectronics and VLSI, EMC
16	Dr. Bindiya T. S.	Assistant Professor Gr I	PhD	Digital VLSI System Design, Digital Signal Processing
17	Dr. Ameer P. M.	Assistant Professor Gr I	PhD	Signal Processing, Communication
18	Dr. Jayakumar E. P.	Assistant Professor Gr I	PhD	Speech and Audio Processing, VLSI Architecture for Digital Signal Processing, Digital IC design
19	Dr. Vinay Joseph	Assistant Professor Grade I	PhD	Resource allocation in communication networks, Stochastic optimization
20	Dr. Bhuvan B.	Assistant Professor Grade II	PhD	CMOS image sensors, Custom integrated circuit design
21	Dr. Raghu C. V.	Assistant Professor	PhD	Electronic System Design, EMI/EMC, Intelligent systems, IoT

22	Dr. Venu Anand	Assistant Professor Gr I	PhD	Microelectronics
23	Dr. Lintu Rajan	Assistant Professor Grade 1	PhD	Semiconductor Devices
24	Dr. Sudeep P. V.	Assistant Professor Grade I	PhD	Image processing, Medical Imaging, Neural networks, Machine learning
25	Dr. Waquar Ahmad	Assistant Professor	PhD	Signal Processing
26	Dr. Gopikrishna S.	Assistant Professor	PhD.	Semiconductor Devices
27	Dr. M. Surya Prakash	Assistant Professor	PhD	VLSI Architectures for DSP Systems
28	Dr. Aswathi R. Nair	Assistant Professor	PhD	Microelectronics
29	Dr. Chandan Yadav	Assistant Professor	PhD	Microelectronics and VLSI Design
30	Dr. Lalit Kumar	Assistant Professor	PhD	RF/Microwave
31	Dr. Akhil P. T.	Assistant Professor	PhD	Communication and Networking
32	Dr. Anup Aprem	Assistant Professor	PhD	Signal Processing
33	Dr. Ashutosh Mishra	Assistant Professor	PhD	Microelectronics and VLSI Design

### **DEPARTMENT OF MECHANICAL ENGINEERING**

SL. NO.	NAME	DESIGNATION	QUALIFICATION	SPECIALIZATION
1	Dr. C Muraleedharan	Professor (HAG) & Head	Ph.D.	Refrigeration & Air Conditioning
2	Dr. Jayaraj S	Professor (HAG)	Ph.D.	Thermal Sciences, Energy Engineering & CFD
3	Dr. Sridharan R	Professor (HAG)	Ph.D.	Industrial Engineering
4	Dr. Jose Mathew	Professor (HAG)	Ph.D.	Manufacturing Science
5	Dr P.K. Rajendrakumar	Professor (HAG)	Ph.D.	Machine Design & Tribology
6	Dr. Joseph M A	Professor	Ph.D.	Production Engineering
7	Dr. Joy M L	Professor	Ph.D.	Machine Design & Tribology
8	Dr. Madhusudanan Pillai V	Professor	Ph.D.	Industrial Engineering

9	Dr. Shaija A	Professor	Ph.D.	Computational Fluid Dynamics & Heat Transfer
10	Dr. Biju T. Kuzhiveli	Professor	Ph.D.	Cryogenics
11	Dr. Manu R	Professor	Ph.D.	Manufacturing Engineering
12	Dr. Narayanan M D	Associate Professor	Ph.D.	Nonlinear Dynamics
13	Dr. Dhanish P B	Associate Professor	Ph.D.	Production Engineering
14	Dr. Arun P	Associate Professor	Ph.D.	Energy Management
15	Dr. Jinu Paul	Associate Professor	Ph.D.	Materials & Manufacturing
16	Dr. Sekar K	Assistant Professor Gr I	Ph.D.	Manufacturing Engineering
17	Dr. Sudheer A P	Assistant Professor Gr I	Ph.D.	Manufacturing Engineering / Robotics
18	Dr. Rohini Kumar B	Assistant Professor Gr I	Ph.D.	Thermal Engineering/ Thermodynamic Modelling
19	Dr. Jayadeep U B	Assistant Professor Gr I	Ph.D.	Machine Design/ Solid Mechanics
20	Dr. Varaprasad G	Assistant Professor Gr I	Ph.D.	Industrial Engineering & Management/ Marketing Management & Consumer Behaviour
21	Dr. Srinivas M	Assistant Professor Gr I	Ph.D.	Thermal Engineering/ Non-conventional Energy Systems
22	Dr. Jagadeesha T	Assistant Professor Gr I	Ph.D.	Manufacturing Engineering
23	Dr. Sarvoththama Jothi T J	Assistant Professor Gr I	Ph.D.	Energy Engineering/ Fluids and Thermal Sciences
24	Dr. Vinay V. Panicker	Assistant Professor Gr I	Ph.D.	Industrial Engineering
25	Dr. K.P. Murali	Assistant Professor Gr I	Ph.D.	Metallurgical Engineering & Materials Science/ Electronic Materials
26	Dr. Saleel Ismail	Assistant Professor Gr I	Ph.D.	Thermal Engineering
27	Dr. Ratnakumar K	Assistant Professor Gr II	Ph.D.	Industrial Engineering and Management
28	Dr. Gangadhara Kiran Kumar L	Assistant Professor Gr II	Ph.D.	Fluids and Thermal Sciences
29	Dr. Sujith Kumar C S	Assistant Professor Gr II	Ph.D.	Nanotechnology/ Thermal Engineering
30	Dr. Gangolu Srinu	Assistant Professor Gr II	Ph.D.	Material Science
31	Dr. Ashesh Saha	Assistant Professor Gr II	Ph.D.	Machine Design
32	Dr. Simon Peter	Assistant Professor Gr II	Ph.D.	Computational Fluid Dynamics
33	Dr. Deepak Lawrence K	Assistant Professor Gr II	Ph.D.	Manufacturing Engineering/ Metrology



34	Dr. Vineesh K P	Assistant Professor Gr II	Ph.D.	Mechanical Systems Design/ Finite element modeling
35	Dr. Sumer B Dirbude	Assistant Professor Gr II	Ph.D.	Mechanical-Heat Power/ Computational Fluid Dynamics, Combustion and associated areas of thermo- fluid sciences
36	Dr. Sandip Rudha Budhe	Assistant Professor Gr II	Ph.D.	Machine Design/ Composite Materials
37	Dr. Devendra K Yadav	Assistant Professor Gr II	Ph.D.	Industrial Engineering
38	Dr. Basil Kuriachen	Assistant Professor Gr II	Ph.D.	Manufacturing
39	Dr. P. V. Manu	Assistant Professor Gr II	Ph. D.	Propulsion Engineering/ IC Engines and Combustion/ Alternative fuels
40	Sri. Sreenath A M	<u>Assistant Professor</u>	M. Tech. (On deputation under QIP at IITM)	Machine Design

### **DEPARTMENT OF MATHAMATICS**

SL. NO.	NAME	DESIGNATION	QUALIFICATION	SPECIALIZATION
1	M.S. Sunitha	Professor & Head	M.Phil. PhD	Fuzzy Graph Theory
2	M.J Jacob	Professor	Ph.D.	Applied Probability
3	SatyanandaPanda	Professor	PhD	Mathematical Modeling and Scientific Computing
4	Sunil Jacob John	Professor	MSc. MPhil, PhD	Topology Set Generalizations
5	Sushama CM	Professor	Ph.D	Optimization
6	Ashish Awasthi	Associate Professor	PhD	Numerical Analysis, Singularly Perturbed ODEs and PDEs
7	Chithra AV	Associate Professor	Ph.D	Operator Theory, Graph Theory
8	Krishnan Paramasivam	Associate Professor	Ph.D.	Graph Theory and Commutative Algebra
9	Mahesh Kumar	Associate Professor	M.Sc. Ph.D.	Applied Statistics and Reliability Theory
10	Sunil Mathew	Associate Professor	Ph. D	Fractal Geometry Fuzzy Graph Theory

11	Lineesh M C	Assistant Professor	M. Sc. Ph. D	Time Series Analysis and Wavelet Theory
12	Dr. Sanjay P.K.	Assistant Professor	Ph.D	Harmonic Analysis
13	Suresh Kumar Nadupuri	Assistant Professor	M.Sc., M.Tech., Ph.D.	Numerical analysis and scientific computing
14	Tamal Pramanick	Assistant Professor(Grade II)	Ph.D, Post-Doctorate	Advance Numerical Analysis, Scientific Computing, Finite Element Methods

### **DEPARTMENT OF CHEMISTRY**

SL. NO.	NAME	DESIGNATION	QUALIFICATION	SPECIALIZATION
1	Dr. A. Sujith	Associate Professor & Head	PhD	Polymer Science
2	Dr. G Unnikrishnan	Professor	PhD	Polymer science and technology
3	Dr. Lisa Sreejith	Professor	PhD	Surface chemistry
4	Dr. Lakshmi C	Professor	PhD	Organic chemistry
5	Dr. Parameswaran Pattiyil	Associate Professor	PhD	Theoretical and Computational Chemistry
6	Dr. Suni Vasudevan	Assistant Professor Gr-I	PhD	Inorganic Chemistry
7	Dr. Janardhan Banothu	Assistant Professor Gr-II	PhD	Organic Chemistry
8	Dr. Mini Mol Menamparambath	Assistant professor Gr-II	PhD	Materials chemistry
9	Dr. Muniyandi Sankaralingam	Assistant Professor Gr-II	PhD	Bioinorganic Chemistry and Catalysis
10	Dr. Raju Dey	Assistant Professor Gr-II	PhD	Organic and organometallic chemistry
11	Dr. Anuj A Vargeese	Assistant Professor Gr-II	PhD	Energetic Materials
12	Dr. Chinna Ayya Swamy P	Assistant professor Gr-II	PhD	Main group organometallics and catalysis
13	Dr. Mausumi Chattopadhyaya	Assistant professor Gr-II	PhD	Physical Chemistry, Theoretical and Computational Chemistry

### **DEPARTMENT OF PHYSICS**

SL.NO.	NAME	DESIGNATION	QUALIFICATION	SPECIALIZATION
1	Dr. P. Predeep	Professor	Ph.D.	Organic and Molecular Electronics and Photonics (Organic, Solar Cells, OLED, OFETs, Organic Semiconductors.),
2	Dr. Chandrasekharan. K	Professor	Ph.D.	Condensed Matter Physics, Non-linear Optical Materials for Photonics

3	M K Ravi Varma	Professor	PhD	Applied Optics, Spectroscopy, Air pollution & Climate monitoring
4	Dr. Raghu Chatanathodi	Professor	Ph.D.	Computational-Condensed Matter Physics, Density Functional Theory
5	Dr. Aji A. Anappara	Associate Professor	Ph.D.	Light Matter interaction, Nano science, Energy Harvesting, Semiconductor Photonics
6	Dr. Vari Sivaji Reddy	Assistant Professor	Ph.D.	Organic Electronics & Photovoltaics
7	Dr. P.K. Madhavan Unni	Assistant Professor	Ph.D.	Critical Point Phenomenon
8	Dr. Suchand Sangeeth	Assistant Professor	Ph.D.	Charge Transport, Molecular Electronics, Organic Semiconductors, Molecular Self-assembly and Meta-materials
9	Dr. Ram Ajor Maurya	Assistant Professor	Ph.D.	Solar Astrophysics: Helioseismology, MHD Waves in Solar Atmosphere, Solar Eruptions and Associated Phenomenon
10	Dr. Aswathi G	Assistant Professor	Ph.D.	Material Science and Nanotechnology
11	Dr. Subramanyan Namboodiri Varanakkottu	Assistant Professor	Ph.D.	Optofluidics, Interface Physics
12	Dr. Maneesh Chandran	Assistant Professor	Ph.D.	Surface Science, Materials Science; Nanotechnology
13	Dr. Goutam Kumar Chandra	Assistant Professor	Ph. D.	Experimental Condensed matter Physics, Spectroscopy
14	Dr. Saurabh Gupta	Assistant Professor	PhD	Theoretical High Energy and Particle Physics, Quantum Field Theory
15	Dr. Sreeraj T. P	Assistant Professor	Ph.D.	Lattice Gauge Theory, Quark Confinement, Low Energy Aspects of QCD, Duality in Gauge Theories and Spin Systems
16	Dr. P. N Bala Subramanian	Assistant Professor	Ph.D.	Holography, Black Holes
17	Dr. Natesan Yogesh	Assistant Professor	Ph.D.	Photonic Crystals, Metamaterials, THZ Devices
18	Dr. Sayani Chatterjee	Assistant Professor	Ph.D.	Statistical Mechanics and Thermodynamics

19	Dr. Anoop Varghese	Assistant Professor	Ph.D.	Soft Matter and Statistical Physics
20	Dr. Raman Namboodiri C K	Assistant Professor	Ph.D.	Nonlinear Optics, Fluorescence Microscopy
21	Dr. Anirban Sarkar	Assistant Professor	Ph.D.	Laser Physics, Imaging through Disordered media, Optical Waveguides

### **DEPARTMENT OF PHYSICAL EDUCATION**

SL. NO.	NAME	DESIGNATION	QUALIFICATION	SPECIALIZATION
1	SUNIL M S	ASSISTANT PROFESSOR	M.Phil., M.P.Ed.	Physical Education Football, Sports Physiology, Physical Education Football Critical Analysis

### **SCHOOL OF MATERIAL SCIENCE AND ENGINEERING**

SL. NO.	NAME	DESIGNATION	QUALIFICATION	SPECIALIZATION
1	Dr. C.B. Sobhan	Professor	Ph.D	Microscale Heat transfer
2	Dr. N. Sandhyarani	Professor	Ph.D	Biosensors
3	Dr. Sajith V	Professor	Ph.D	Nanofluids, corrosion
4	Dr. Soney Varghese	Assoc. Professor	Ph.D	Nanosensors and nanocomposites
5	Dr. Shijo Thomas	Assoc. Professor	Ph.D	Nanofluids
6	Dr. Hanas T	Asst. Professor	Ph.D	Materials Science & Biomaterials

### **SCHOOL OF MANAGEMENT STUDIES**

SL. NO.	NAME	DESIGNATION	QUALIFICATION	SPECIALIZATION
1	Dr. T K Suresh Babu	Professor	PhD	Finance Management
2	Dr. T Radha Ramanan	Associate Professor	PhD	Operations Management
3	Dr. K Muhammad Shafi	Associate Professor	Ph.D.	Finance & General Management

4	Dr. Sunitha S	Assistant Professor	Ph.D.	Economics
5	Dr. Preeti Navaneeth	Assistant Professor	Ph.D.	English Studies and Communication
6	Dr. Nithya M	Assistant Professor	PhD	Marketing Management
7	Dr. Sreejith S S	Assistant Professor	PhD	Human Resource Management
8	Dr. Althaf S	Assistant Professor	PhD	Economics and Public Policy
9	Dr. Reju George Mathew	Assistant Professor	PhD	English Studies and Communication

### **SCHOOL OF BIOTECHNOLOGY**

SL. NO.	NAME	DESIGNATION	QUALIFICATION	SPECIALIZATION
1	Dr. Md. Anaul Kabir	Professor	Ph. D	Molecular Genetics, Genetic Engineering
2	Dr. Rajanikant G.K	Professor	Ph. D	Radiation biology, Neuroscience
3	Dr. Santhiagu A	Professor	Ph. D	Bioprocess Technology, Recombinant Technology, Enzymology
4	Dr. Suchithra T.V	Associate Professor	Ph. D	Microbiology, Enzymology, Biofuels
5	Dr. Rathinasamy K	Head & Associate Professor	Ph. D	Anticancer drug research, Biophysics, Apoptosis
6	Dr. Prem Raj P	Assistant Professor	Ph. D	
7	Dr. Baiju G Nair	Associate Professor	Ph. D	Nanobiotechnology and Biomaterials
8	Dr. Suresh P.S	Associate Professor	Ph. D	Endocrine cancers and signal transduction
9	Dr Tom Skaria	Assistant Professor	Ph. D	Immunology
10	Dr Cecil Antony	Assistant Professor	Ph. D	Immunology
11	Dr Ravindra Kumar	Assistant Professor	Ph. D	Biotechnology Bioinformatics

### **3.2. NON-ACADEMIC STAFF (Non-Teaching)**

SL.NO.	NAME	DESIGNATION	DEPARTMENT
1	Mr.Arun P P	Ad-hoc Tech. Assistant	DAP
2	Ms. Ashna M P	Ad-hoc Tech. Assistant	DAP
3	Ms.Neethu C K	Ad-hoc Tech. Assistant	DAP
4	Mr.Adarsh P V	Ad-hoc office Assistant	DAP

5	Mr.Edwin shaly	Ad-hoc office Assistant	DAP
6	Saroja T M	Office attendant	CHY
7	Sri. Ajaya Kumar R	Senior Mechanic	CIVIL
8	Sri. Noushad K. K.	Senior Mechanic	CIVIL
9	Sri. Sathyan P K	Senior Mechanic	CIVIL
10	Sri. Jeyesh Kumar P	Senior Mechanic	CIVIL
11	Mohammed Riyas T M	Adhoc Technical Staff	CIVIL
12	Aswin S M	Adhoc Technical Staff	CIVIL
13	Haritha K	Adhoc Technical Staff	CIVIL
14	Lansha K P	Adhoc Technical Staff	CIVIL
15	Aparna V	Adhoc Technical Staff	CIVIL
16	Surya P K	Adhoc Technical Staff	CIVIL
17	Jini M N	Ad-hoc Office Assistant	CIVIL
18	Akhil M. T.	Ad-hoc Office Assistant	CIVIL
19	Mr. V.R Ajayachandran	Computer Operator	CSED
20	Mr. Abdul Sathar V M	Senior Mechanic	CSED
21	Ms. Sreeja V	Senior Mechanic	CSED
22	Mr. Biju Francis	Senior Mechanic	CSED
23	Ms. Thanka C	Sweeper cum Sanitation Worker	CSED
24	Mr. V.R Ajayachandran	Computer Operator	CSED
25	Mr. K. P. Venugopal	Instructor, ECE	ECED
26	Mr V. Krishnan Kutty	Sr. Mechanic, ECE	ECED
27	Mr Anandan K. R.	Sr. Mechanic, ECE	ECED
28	Mr Praveen H. Babu	Sr. Mechanic, ECE	ECED
29	Mr. N. K. Mohammed Sali	Mechanic SI. Gr. EED	EED

30	Mr. K. A. Somanath	Sr. Mechanic Sl. Gr. EED	EED
31	Mr. A. R. Sasesh	Sr. Mechanic Sl. Gr. EED	EED
32	Mr. Nandakumar. K.	Sr.Mechanic, EED	EED
33	Mr. V. S. Jayan	Sr. Mechanic, EED	EED
34	Mr. Prakash Peter	Lab Assistant (Hr. Gr.)	PHY
35	Tomin Sunny	Executive Engineer	MAINTENANCE. UNIT
36	Climson C R	Mechanic	MAINTENANCE UNIT
37	Mahesan K A	Mechanic	MAINTENANCE UNIT
38	Radhakrishan M K	Mechanic	MAINTENANCE UNIT
39	Raju K P	Mechanic	MAINTENANCE UNIT
40	Santhosh Kumar M V	Mechanic	MAINTENANCE UNIT
41	Jayarajan T	Librarian Gr. IV(Hr.Gr.)	LIBRARY
42	Shaju K P	Librarian Gr.IV	LIBRARY
43	Jayaraman K	Offset Mechnine Operator (Hr.Gr)	LIBRARY
44	Chandramohan M K	Graphic Artist (Hr.Gr.)	LIBRARY
45	Anwar Sadath C	LD Steward	HOSTEL OFFICE
46	Mohan Kumar A K	Asst. Engineer	ENGG. UNIT
47	Thomas T E	Asst. Engineer	ENGG. UNIT
48	Alavikutty K	Sr.Mechanic (Sl.Gr.)	ENGG. UNIT
49	Prajith. P	Sr.Mechanic	ENGG. UNIT
50	Abdulsidheek P K	Sr.Mechanic	ENGG. UNIT
51	Mathew Varghese	Sr.Mechanic	ENGG. UNIT
52	Shibu K	Instructor	ENGG.UNIT
53	Sri. Abhilash	Sr. Mechanic, Sl. Gr. MED	MED
54	Sri. Ajayan A	Sr. Mechanic MED	MED
55	Sri. Anil Kumar P	Supervisor, MED	MED
56	Sri. Anandan P	Sr. Mechanic, Sl. Gr. MED	MED

57	. Eldho P Varghese	Sr. Mechanic MED	MED
58	Sri. Manoj KG	Sr. Mechanic MED	MED
59	Sri. George T M	Sr. Mechanic MED	MED
60	Pradeep Kumar E	Supervisor, MED	MED
61	Pradeep Kumar K K	Instructor MED	MED
62	Sri. Prasad M. V.	Sr. Mechanic MED	MED
63	Sri. Rajendran M.K	Instructor MED	MED
64	Sri. Reghu P V	Sr. Mechanic MED	MED
65	Sri. Sanal P R	Sr. Mechanic, Sl.gr (selection grade), MED	MED
66	Sri. Sasi. K K	Sr. Mechanic, Sl.Gr. MED	MED
67	Sri. Shali Joseph	Sr. Mechanic MED	MED
68	Sri. Suresh K.C	Sr. Mechanic MED	MED
69	Sri. Surendran. P.K	Sr. Mechanic MED	MED
70	Sri. Unnikrishnan R	Sr. Mechanic MED	MED
71	Sri. Vasu TC	Sr. Mechanic MED	MED
72	Sri. Velayudhan Kuttu N P	Sr. Mechanic, Sl. Gr. MED	MED
73	Sri. Hariharan C P	Programmer	MED
74	Sri. Sudheer P R	Senior Mechanic	MED
75	Sri. Unnikrishnan C	Peon	MED

### 3.3 TRAINING STATUS

#### DEPARTMENT OF ARCHITECTURE

DEPARTMENT	MEMBERS OF THE FACULTY
Architecture and Planning	<b>Dr. Anjana Bhagyanathan</b> Advances in geospatial techniques in ecosystem conservation and management, from Dec 1-23, 2021, organized by Institute of environment education and research, Bharathi vidyapeeth deemed university, Pune and sponsored by national geospatial program DST, New Delhi
Architecture and Planning	<b>Dr. Amritha P K</b> DST sponsored training 4th Training Programme on Science and Technology for Rural Societies, (March 07-11, 2022)



## DEPARTMENT OF CIVIL ENGINEERING

DEPARTMENT	PROGRAMME
Civil Engineering	Dr. Anil Kumar Dash attended RAID 2021; RAMVS 2021; and ICMMS 2022.
	Dr. Rangaswamy K attended the 7th ICORAGEE, IIT Roorkee.
	Dr. M. Sivakumar attended Online Training Programme on “Design, Construction and Quality Control in Flexible Pavements” organised by CSIR-Central Road Research Institute, New Delhi during 02-04 February 2022.
	Dr. Chithra N R participated in the Indo-US online workshop on ‘Understanding the hydrologic extremes under changing climate’ on 7-12 February 2022 organised by NIT Warangal.
	Dr. Seethalakshmi P attended the Online Workshop on How Teachers Can Make a Difference by Teaching Learning Centre conducted by IIT Madras.
	Dr. Suman Saha attended the RILEM-fib X International Symposium on Fibre Reinforced Concrete BEFIB2021, Universitat Politècnica de València, Valencia, Spain, 20 <sup>th</sup> – 22 <sup>nd</sup> September, 2021 in online mode.
	Dr. Anantha Singh T S attended the Online Workshop on How Teachers Can Make a Difference by Teaching Learning Centre conducted by IIT Madras.
	Dr. Yogeshwar V Navandar attended the 25 <sup>th</sup> International Conference of Hong Kong Society for Transportation Studies (HKTS 2021), Hong Kong, during 09 <sup>th</sup> -10 <sup>th</sup> December 2021. 24 <sup>th</sup> EURO Working Group on Transportation Meeting (EWGT 2021), Aveiro, Portugal, during 08-10 <sup>th</sup> September 2021. 8 <sup>th</sup> Online International Conference on Transportation Systems Engineering and Management (CTSEM 2021), NIT Calicut, India, during 26 <sup>th</sup> -27 <sup>th</sup> August 2021. Online Workshop on “How Teachers Can Make a Difference”, Teaching Learning Center, IIT Madras, Chennai, 19th to 24th July 2021.

## DEPARTMENT OF ELECTRICAL ENGINEERING

SL.NO	NAME OF FACULTY MEMBER	DETAILS OF TRAINING PROGRAM
1	Dr.Rijil Ramchand	IEEE International Conference for Convergence in Technology (I2CT, 2021), Pune, India
2	Dr.Jeevamma Jacob	5th International conference on Inventive systems and control (ICISC 2021)
3	Dr.Sindhu T K	IEEE Conference on Electrical Insulation and Dielectric Phenomena 2021, Canada Environmental leadership & Life Skills IIFM, Bhopal, 7-11, March 2022
4	Dr. Preetha P., Dr.Sindhu T. K.	IEEE Conference on Electrical Insulation and Dielectric Phenomena 2021,Canada

5	Dr. Preetha P., Dr.Sindhu T. K.	IEEE CATCON December 2021
6	Dr.P. Preetha	IEEE Tensymp, August 2021
7	Dr.D. P. Subha	International Conference on Artificial Intelligence and Smart Systems (ICAIS) Second international Conference on Data Science and Applications (ICDSA 2021),
9	Dr.Arun Neelimegham K M	2 <sup>nd</sup> International Conference for Emerging Technology (INCET)
10	Dr. Arun Neelimegham K M Dr.KV Shihabudheen	7th International Conference on Advances in Control and Optimization of Dynamical Systems ACODS 2022: Silchar, Assam, India, 22–25 February 2022
11	Dr.M Deepak	Second International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT)
12	Dr.Deepak M, Dr.Sunitha R	IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems (SPICES)
13.	Dr.Sunitha R	A workshop on power Engineering Research and applications (PERA-21), IIT Kanpur from 24th to 28, September 2021. International Conference for Advancement in Technology (ICONAT), Goa, India, January 2022.
14	Dr.M Deepak	IEEE International Conference on Power Electronics, Smart Grid, and Renewable Energy (PESGRE)
15	Dr.S Kanagalakshmi	IEEE 6th International Conference on Computing, Communication and Automation (ICCCA)
16	Dr.S Kanagalakshmi,	4th International Conference on Recent Developments in Control, Automation & Power Engineering (RDCAPE)
17	Dr.S Kanagalakshmi	International Conference on Intelligent Technologies
18	Dr. G Jagadanand, Dr. Nikhil Sasidharan, Dr.M. P. Shreelakshmi	IEEE International Conference on Power Electronics, Smart Grid, and Renewable Energy (PESGRE), Thiruvananthapuram, Kerala, India
19	Dr.Nikhil Sasidharan	IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems (SPICES), Thiruvananthapuram, Kerala, India
21	Dr.M P Shreelakshmi	IEEE International Power and Renewable Energy

		Conference (IPRECON)
22	Dr.T.K. Sunil Kumar	International Symposium of Asian Control Association on Intelligent Robotics and Industrial Automation, Goa
23	Dr.T.K. Sunil Kumar	2nd International Conference on Advances in Computing, Communication, Embedded and Secure Systems
24	Dr.T.K. Sunil Kumar	4th International Conference on Recent Developments in Control, Automation and Power Engineering
25	Dr.Shihabudheen K. V.	2020 3rd International Conference on Energy, Power and Environment: Towards Clean Energy Technologies
26	Dr.K V Shihabudheen	2021 International Symposium of Asian Control Association on Intelligent Robotics and Industrial Automation (IRIA)
27	Dr.K. V. Shihabudheen	2021 International Conference on Innovation and Intelligence for Informatics, Computing, and Technologies (3ICT),
28	Dr.K. V. Shihabudheen	2021 13th IEEE PES Asia Pacific Power & Energy Engineering Conference (APPEEC), ,
29	Dr.K. V. Shihabudheen	IEEE 6th International Conference on Computing, Communication and Automation (ICCCA)
30	Dr.Kumaravel S.	IEEE Delhi Section International Conference on Electrical, Electronics and Computer Engineering (DELCON-2022)
31	Dr.Kumaravel S.	47 <sup>th</sup> Annual Conference of the IEEE Industrial Electronics Society IECON 2021

#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION

DEPARTMENT	MEMBERS OF THE FACULTY
ECE	<p>Dr. V. Sakthivel</p> <ul style="list-style-type: none"> <li>Attended online ATAL FDP on Signal Processing and Machine Learning for AI-Driven Healthcare systems, from 23-06-2021 to 27-06-2021, conducted by IIT Patna.</li> <li>Attended online ATAL FDP on Deep Learning and Computer Vision, from 07-06-2021 to 11-06-2021, conducted by Kamla Nehru Institute of Technology, Sultanpur, UP</li> </ul> <p>Dr. Anup Aprem</p> <ul style="list-style-type: none"> <li>How Teachers Can Make a Difference, IIT Madras, July 19-24, 2021</li> </ul> <p>Dr. Suja K J</p> <ul style="list-style-type: none"> <li>Hello EMI&amp;EMC!! Learn to detect and decode. Conducted by CUSAT, 26th July-06th August, 2021.</li> </ul> <p>Dr. Lintu Rajan</p> <ul style="list-style-type: none"> <li>IEEE International Symposium on Smart Electronic Systems, December 2021</li> </ul>

## DEPARTMENT OF MECHANICAL ENGINEERING

DEPARTMENT	MEMBERS OF THE FACULTY
Mechanical Engineering	<p>Dr. V. Madhusudanan Pillai participated in the following:</p> <ol style="list-style-type: none"> <li>1. Webinar on Automated Logistics Solutions to improve Productivity organized by VDMA India Services Private Limited, German Engineering Federation (VDMA) on 18-06-2021</li> <li>2. Webinar on Making Sense of Bitcoin, Cryptocurrency and Blockchain organized by CENTRE FOR SOCIETY AND POLICY, IISC on 23 July 2021</li> <li>3. Professor Ravi Ravindran Endowment Lecture Program organized by INDIAN INSTITUTE OF MATERIALS MANAGEMENT BANGALORE BRANCH on 11-09-2021</li> <li>4. Application of the trans theoretical model of change to examine LPG use in rural India organized by IIM Ahmedabad on 25-10-2021</li> <li>5. How to secure a patent before publication? organized by IPR Cell NIT Calicut on 25-06-2021</li> <li>6. Connecting start-ups and Mechanical Engineering for catalyzing growth organized by VDMA India Services Private Limited, German on 18-01-2022</li> <li>7. IP Awareness/Training program organized by National Intellectual Property Awareness Mission on 17-02-2022</li> <li>8. Customs Bonded Warehouse (MOOWR Scheme) organized by INDIAN INSTITUTE OF MATERIALS MANAGEMENT BANGALORE BRANCH on 18-03-2022</li> <li>9. Research smarter and maximize your IP creation organized by Clarivate on 22-03-2022</li> </ol> <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</p>

## DEPARTMENT OF CHEMISTRY

DEPARTMENT	MEMBERS OF THE FACULTY
1. Chemistry, {NAAC - Virtual Assessors Orientation Programme (V-AOP) - Southern region ,5-6 October 2021}	Dr. G. Unnikrishnan
2. Delivered a Lecture on Supramolecular Assemblies of Rigid Multifarenes: Synthesis and Applications" in the	Dr. Chinna Ayya Swamy P  Dr. Chinna Ayya Swamy P

<p>Department of Chemistry at St. Joseph's College Moolamattom, in Association with IQAC on Sep 2021.</p> <p>3. Delivered a Lecture on "Molecular Material for the Detection of Biological Important Anions and Metal ions" in the Department of Chemistry at VVV College, Virudhunagar, Tamil Nadu, in Aug 2021.</p>	
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### 3.4 PLACEMENT OF STAFF FOR ACADEMIC EXCELLENCE

#### DEPARTMENT OF ARCHITECTURE

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

#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION

Sl. No	Name	Academic Excellence
1	Mr. B. Bhuvan	Pursuing PhD under QIP scheme at IIT Delhi
2	Dr. Jaikumar M G	Completed PhD under QIP scheme at IIT Madras

#### DEPARTMENT OF ELECTRICAL ENGINEERING

Sl. No.	Name	Academic Excellence
1	Dr. Hema Rani	Received Ph.D. degree in Control Strategies for Multi-input dc to dc converters for Renewable energy source integration.
2	Mr. Subhash K.M.	Pursuing Ph.D. in Biosignal Processing at NIT Calicut

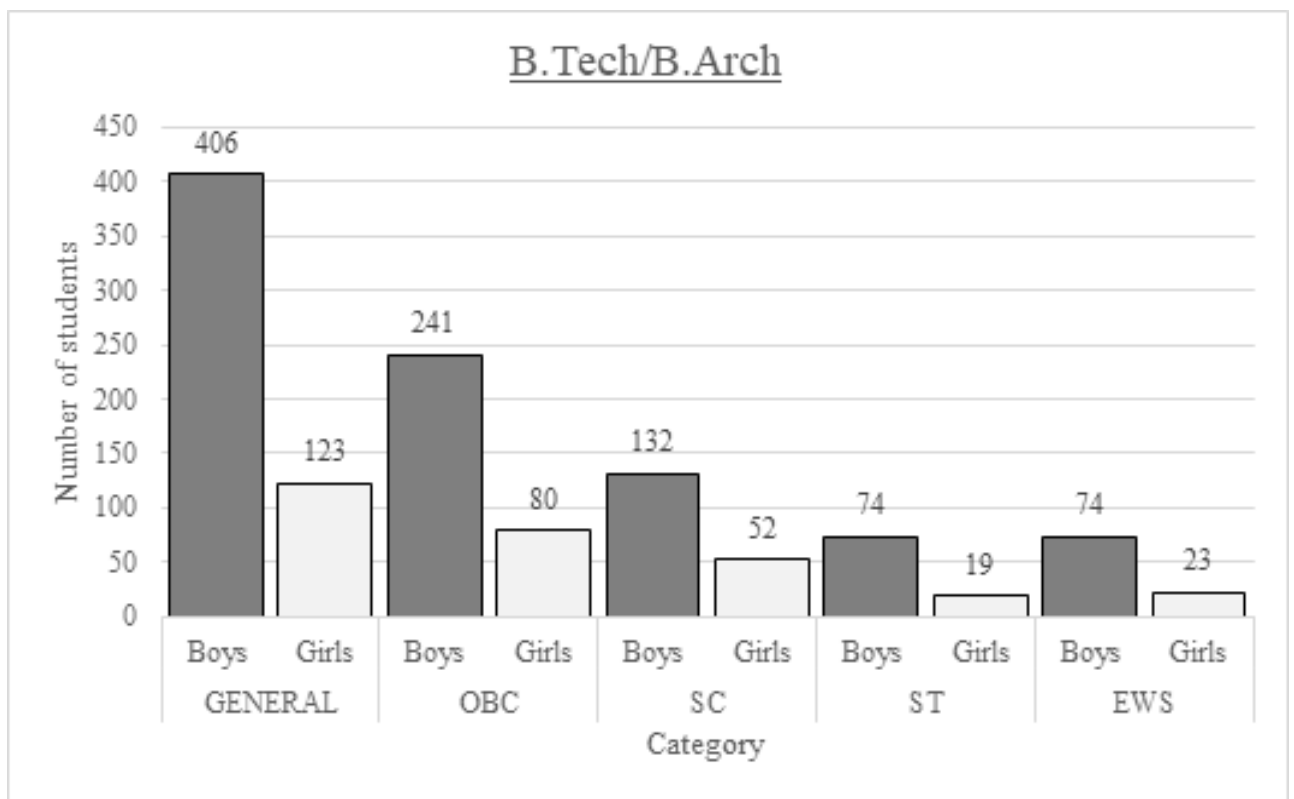
### 4. COURSES OFFERED AND COURSE WISE ENROLLMENT

#### 4.1 COURSE WISE ENROLMENT WITH GENDER, CATEGORY, BREAK UP 2021-2022

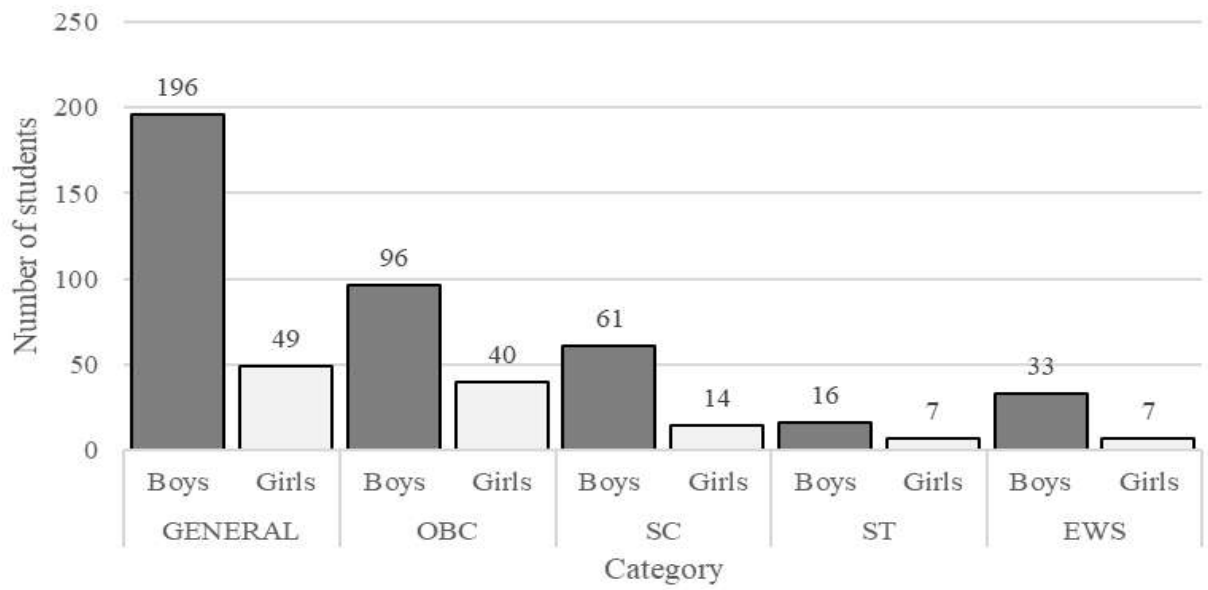
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	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	
B. Tech/	406	123	241	80	132	52	74	19	74	23	47	37	

<b>B. Arch</b>													<b>1308</b>
<b>M.Tech. / M.Plan.</b>	196	49	96	40	61	14	16	7	33	7	Nil	Nil	519
<b>MCA</b>	19	4	13	3	7	1	4	0	5	1	Nil	Nil	57
<b>MBA</b>	20	15	5	4	4	6	1	1	1	0	Nil	Nil	57
<b>M. Sc</b>	24	6	13	7	6	5	0	2	8	0	Nil	Nil	71
<b>Ph. D</b>	43	45	19	22	9	4	3	0	0	1	Nil	Nil	146
<b>Total</b>	<b>708</b>	<b>242</b>	<b>387</b>	<b>156</b>	<b>219</b>	<b>82</b>	<b>96</b>	<b>29</b>	<b>121</b>	<b>32</b>	Nil	Nil	<b>2158</b>

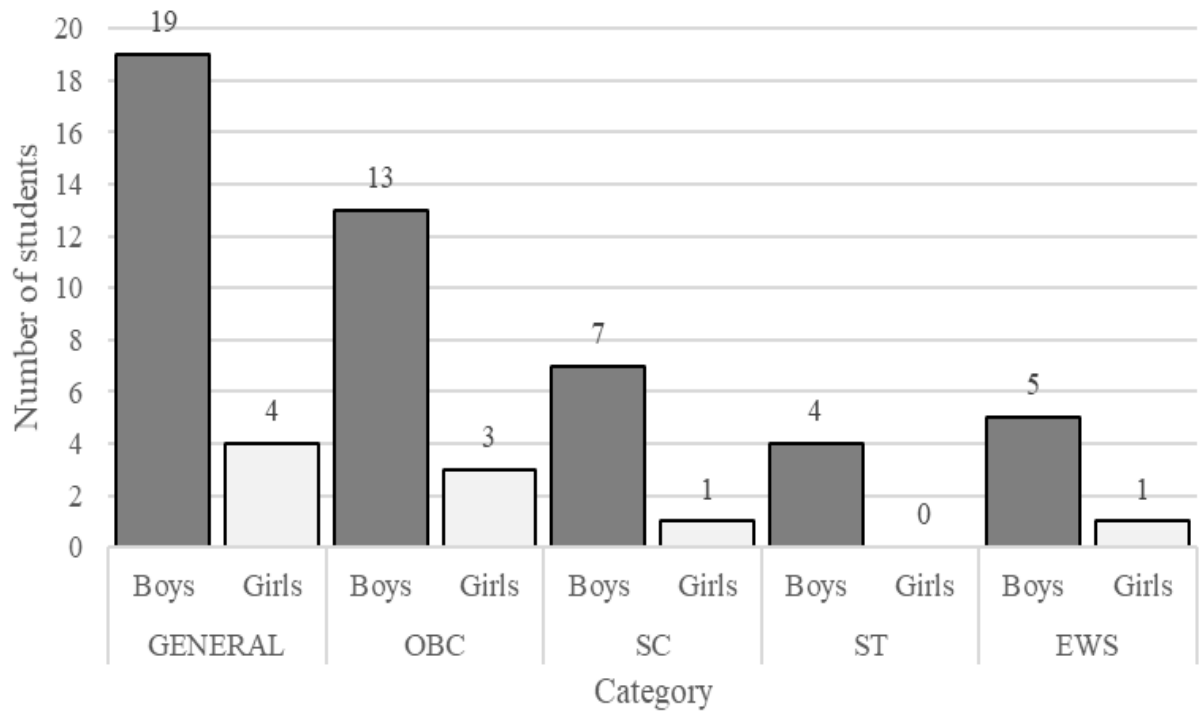
Student admission: Gender-wise

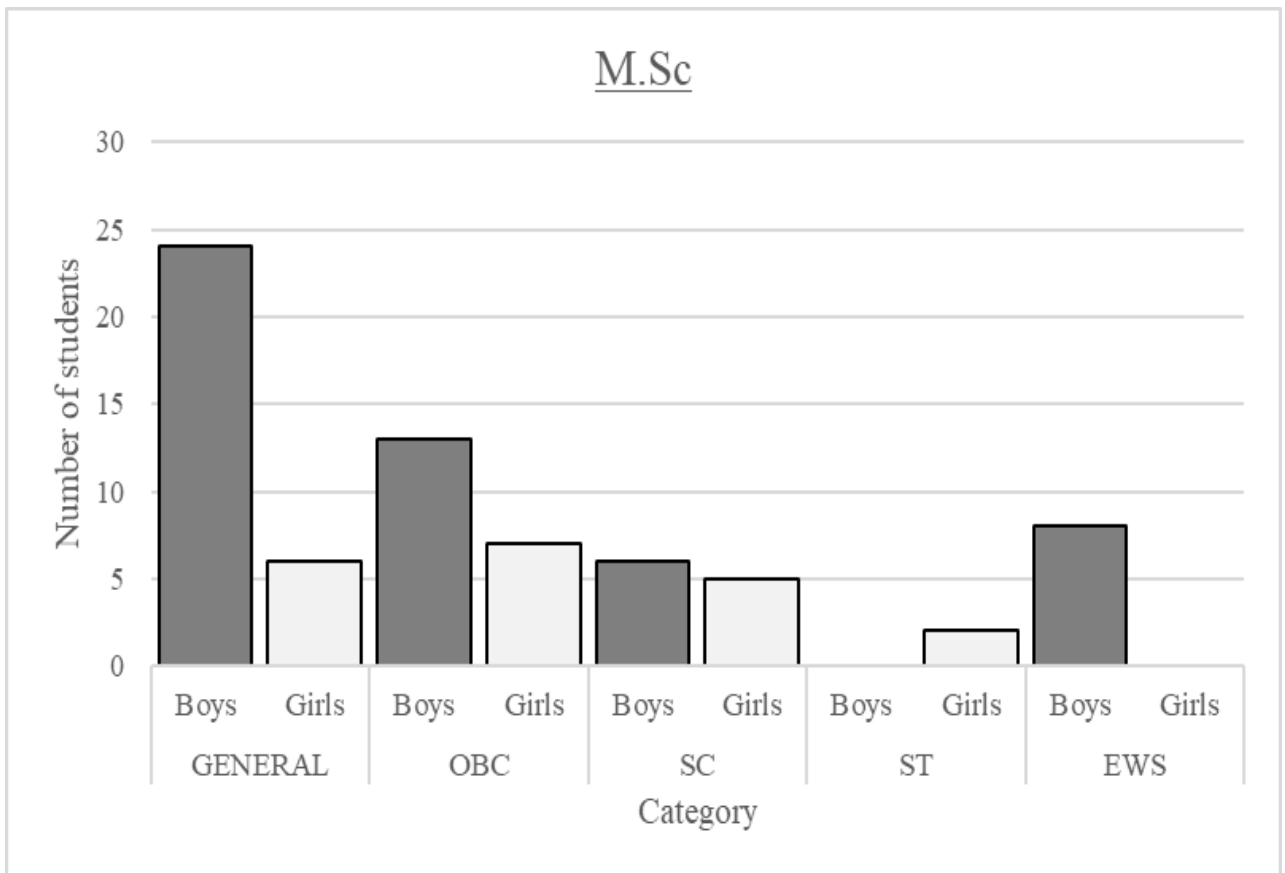
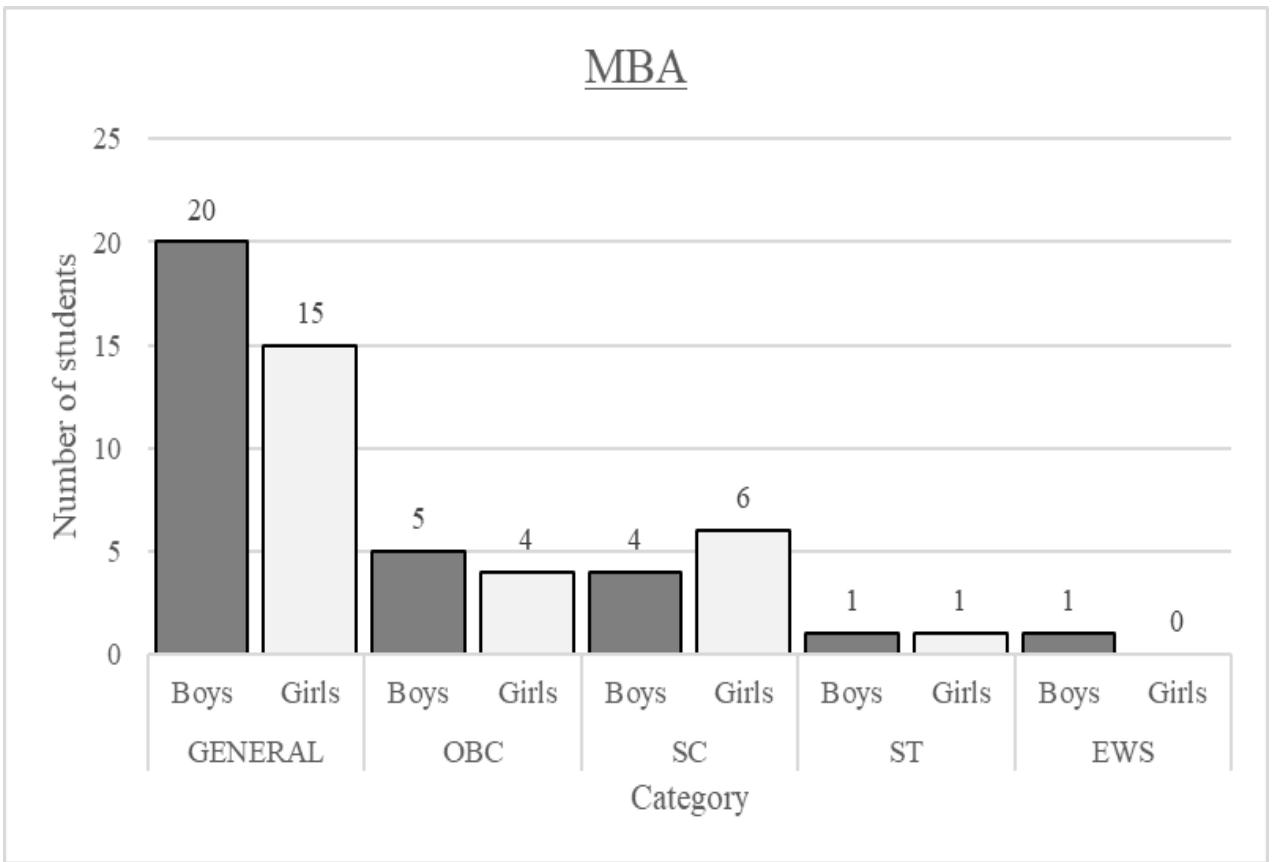


### M.Tech/M.Plan

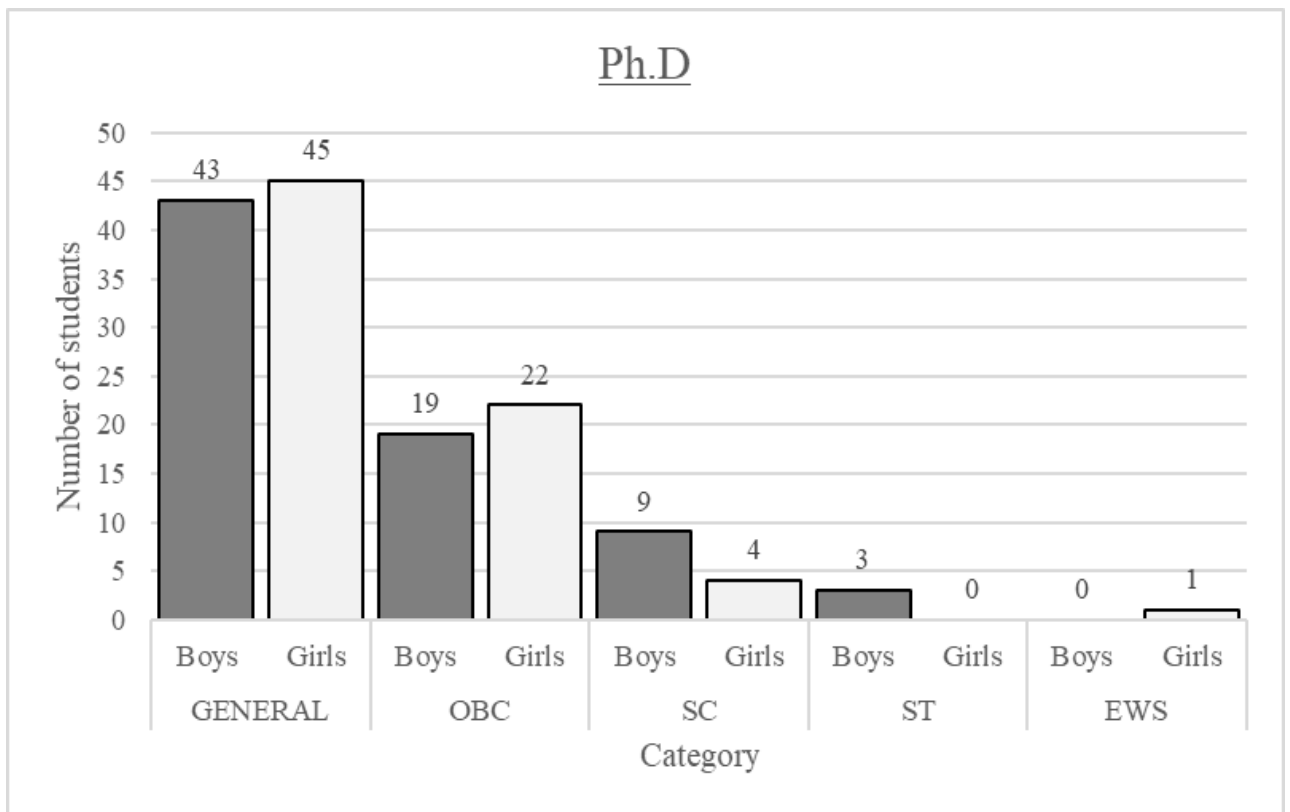


### MCA

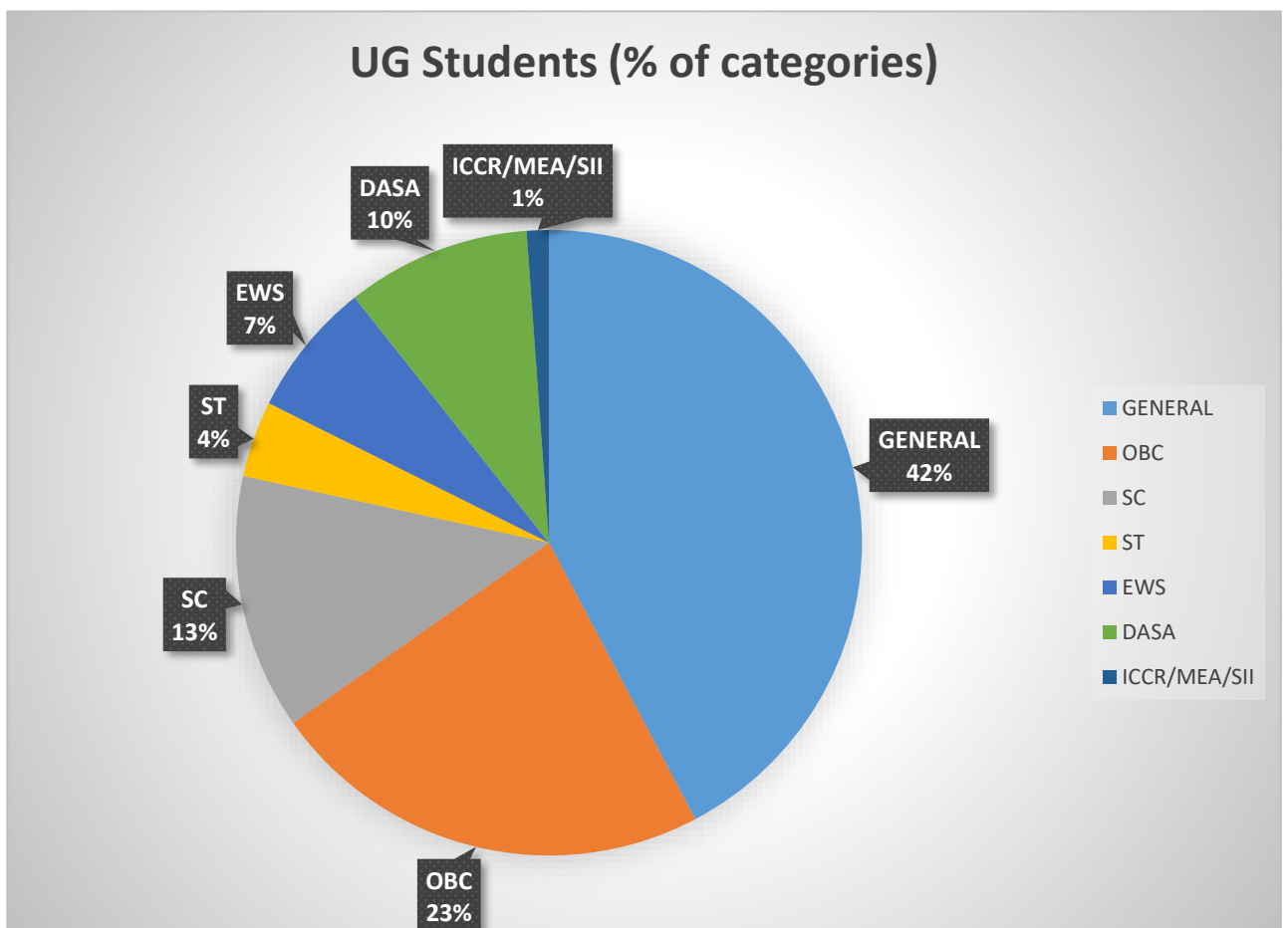




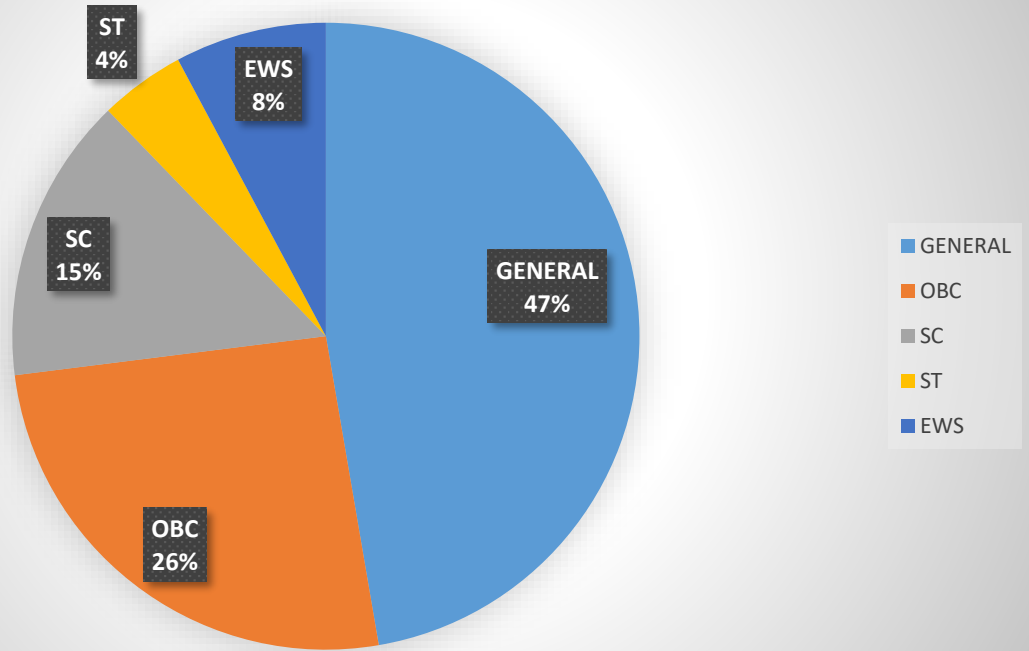




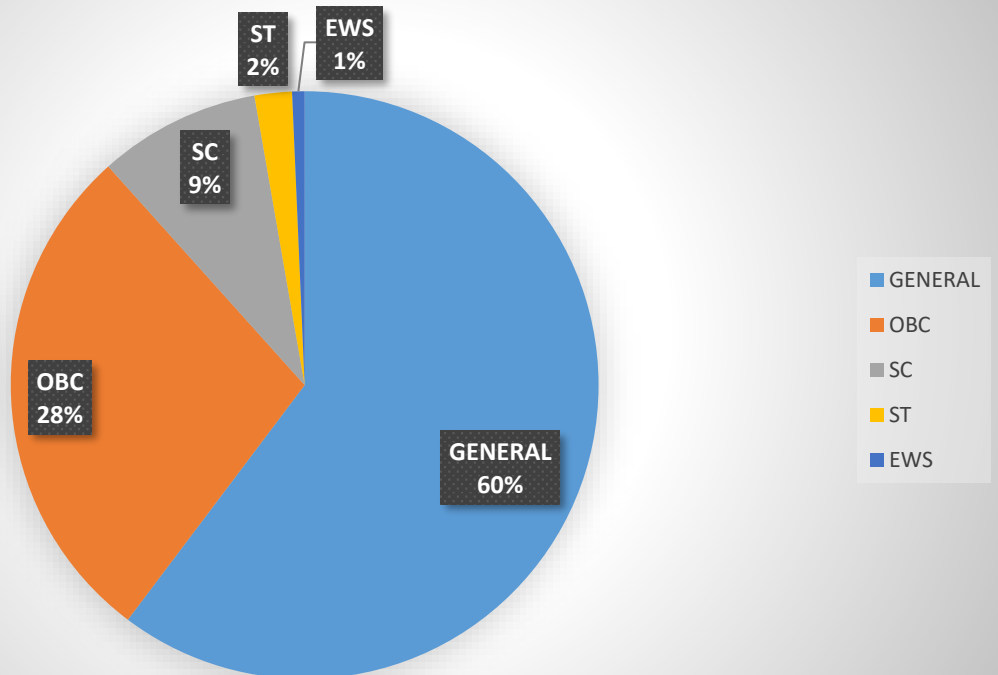
Student admission: Category-wise



### PG Students (% of categories)



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



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

### 4.2.1 1<sup>st</sup> Semester B. Tech./B. Arch – 2021-2022

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	SHI	ICCR	MEA(WELFARE)	SUPERNUMERARY	TOTAL	MALE	FEMALE	TOTAL
Architecture	10	0	0	0	12	2	0	0	6	0	16	0	9	0	4	0	6	0	1	0	1	67	34	33	67
Bio Technology	8	0	1	0	7	0	0	0	3	0	8	0	6	0	2	0	1	0	0	0	1	37	19	18	37
Civil	36	1	9	0	27	1	1	0	8	1	44	0	26	0	13	0	6	0	1	0	0	174	121	53	174
Chemical	26	0	8	0	13	2	0	0	8	0	28	1	16	0	9	0	3	0	0	0	0	114	88	26	114
Computer	53	3	7	0	10	1	0	0	18	0	46	3	26	1	12	1	21	2	0	0	1	205	160	45	205
Electrical	60	0	6	0	3	1	0	1	12	0	46	1	24	0	13	0	8	0	0	0	2	177	139	38	177
Electronics & Communication	53	2	11	1	5	0	0	0	17	1	47	2	25	1	13	0	21	3	0	1	0	203	153	50	203
Engineering Physics	9	0	1	0	4	0	0	0	3	0	8	0	5	0	3	0	1	0	0	0	0	34	26	8	34
Materials Science & Engineering	11	0	0	0	2	0	0	0	1	0	8	0	5	0	2	0	0	0	0	0	0	29	22	7	29
Mechanical	62	2	9	1	11	0	0	0	15	1	54	1	31	0	16	0	8	1	0	0	0	212	170	42	212
Production	13	1	2	0	12	0	3	0	3	0	8	0	9	0	5	0	0	0	0	0	0	56	42	14	56
<b>Total</b>	<b>341</b>	<b>9</b>	<b>54</b>	<b>2</b>	<b>106</b>	<b>7</b>	<b>4</b>	<b>1</b>	<b>94</b>	<b>3</b>	<b>313</b>	<b>8</b>	<b>182</b>	<b>2</b>	<b>92</b>	<b>1</b>	<b>75</b>	<b>6</b>	<b>2</b>	<b>1</b>	<b>5</b>	<b>1308</b>	<b>974</b>	<b>334</b>	<b>1308</b>

4.2.2 1<sup>st</sup> Semester M. Tech 2021-2022

Department	Gate Qualified											SP	QIP	QIP (POLY)	DASA	ICCR	Total		Total
	Branch	OP	OP-PH	OBC	OBC-PH	SC	SC-PH	ST	ST-PH	EWS	EWS-PH						Male	Female	
ARCHITECTURE	AR61	7	0	4	0	2	0	1	0	2	0	1	-	-	-	1	8	10	18
CIVIL ENGINEERING	CE61	10	0	7	0	4	0	2	0	2	0	-	-	2	1	-	21	7	28
	CE62	10	0	7	0	3	0	2	0	3	0	-	-	1	-	2	20	8	28
	CE63	12	0	7	0	4	0	0	0	0	0	-	-	-	-	-	15	8	23
	CE64	11	0	6	0	4	0	2	0	2	0	-	-	-	-	-	9	16	25
	CE65	8	0	5	0	2	0	0	0	0	0	-	-	-	-	-	7	8	15
CHEMICAL ENGINEERING	CH61	2	0	0	0	1	0	0	0	0	0	-	-	-	-	-	1	2	3
COMPUTER SCIENCE AND ENGINEERING	CS61	11	0	6	0	4	0	2	0	2	0	-	-	-	-	-	19	6	25
	CS62	10	0	7	0	4	0	1	0	2	0	-	-	1	-	-	18	7	25
ELECTRONICS AND COMMUNICATION ENGINEERING	EC61	10	0	7	0	4	0	2	0	2	0	-	-	-	-	-	23	2	25
	EC62	10	0	7	0	4	0	2	0	2	0	-	-	-	-	-	23	2	25
	EC63	7	0	4	0	2	0	1	0	2	0	-	-	1	-	-	11	6	17
	EC64	6	0	4	0	3	0	1	0	2	0	-	-	-	-	-	15	1	16
ELECTRICAL ENGINEERING	EE61	10	0	7	0	4	0	1	0	2	0	-	-	-	-	-	19	5	24
	EE62	10	0	7	0	4	0	1	0	3	0	-	-	1	-	-	23	3	26
	EE63	10	0	7	0	4	0	2	0	2	0	-	-	3	-	-	20	8	28
	EE64	10	0	6	0	4	0	0	0	3	0	-	-	-	-	1	18	6	24
	EE65	8	0	5	0	2	0	0	0	0	0	-	-	-	-	-	10	5	15
MECHANICAL ENGINEERING	ME61	10	0	7	0	2	0	0	0	3	0	-	-	1	-	-	21	2	23
	ME62	10	0	7	0	4	0	2	0	2	0	-	-	1	-	-	25	1	26
	ME63	10	0	6	0	2	0	0	0	3	0	-	-	1	-	-	22	0	22
	ME64	17	0	2	0	2	0	0	0	0	0	-	-	-	-	-	19	2	21

	ME65	13	0	1	0	3	0	0	0	0	0	-	-	-	-	-	17	0	17
	ME66	8	0	4	0	2	0	1	0	1	0	-	-	-	-	-	14	2	16
<b>SCHOOL OF MATERIALS SCIENCE AND ENGINEERING</b>	MT61	3	0	1	0	0	0	0	0	0	0	-	-	-	-	-	4	0	4
<b>Total</b>		<b>233</b>	<b>0</b>	<b>131</b>	<b>0</b>	<b>74</b>	<b>0</b>	<b>23</b>	<b>0</b>	<b>40</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>12</b>	<b>1</b>	<b>4</b>	<b>402</b>	<b>117</b>	<b>519</b>

#### 4.2.3 M. Sc, MCA & Ph.D. 2021-2022

Department	Branch	OP	OP-PH	OBC	OBC-PH	SC	ST	EWS	Total	SP	QIP	QIP (POLY)	Full Time	Part Time	Internal	External	Total		Total
																	Male	Female	
Mathematics (MA62)	M. Sc	10	0	7	0	4	1	2	24	-	-	-	24	-	-	-	14	10	24
Physics (PH62)		10	0	6	0	4	0	3	23	-	-	-	23	-	-	-	19	4	23
Chemistry (CY62)		10	0	7	0	3	1	3	24	-	-	-	24	-	-	-	18	6	24

Computer	MCA	22	1	15	1	8	4	6	57	-	-	-	57	-	-	-	48	9	57
Soms	MBA	35	0	9	0	10	2	1	57	-	-	-	57	-	-	-	31	26	57

Architecture	PhD	3	0	1	0	0	0	0	4	0	0	0	2	2	0	0	1	3	4
Biotechnology		2	0	4	0	0	0	0	6	0	0	0	5	1	0	0	2	4	6
Chemical Engineering		5	0	2	0	1	0	0	8	0	0	1	6	1	0	0	4	4	8
Civil Engineering		12	0	5	0	2	1	0	20	0	2	0	15	3	0	0	8	12	20
Computer Science & Engineering		7	0	3	0	0	0	0	10	0	0	1	7	2	0	0	5	5	10
Electrical Engineering		11	0	4	0	1	0	0	16	0	0	1	11	4	0	0	11	5	16
Electronics & Communication Engineering		14	0	3	0	2	1	0	20	0	2	2	13	3	0	0	10	10	20
Mathematics		4	0	2	0	2	0	0	8	0	0	0	7	1	0	0	3	5	8

<b>Mechanical Engineering</b>		13	0	5	0	3	1	0	22	0	1	0	16	5	0	0	21	1	22
<b>School of Materials Science &amp; Engineering</b>		2	0	0	0	1	0	0	3	0	0	0	2	1	0	0	1	2	3
<b>Chemistry</b>		7	0	5	0	0	0	0	12	0	0	0	8	4	0	0	4	8	12
<b>Physics</b>		3	0	3	0	0	0	1	7	0	0	0	6	1	0	0	2	5	7
<b>Management Studies</b>		5	0	4	0	1	0	0	10	0	0	0	7	3	0	0	2	8	10
<b>Total</b>		88	0	41	0	13	3	1	146	0	5	5	105	31	0	0	74	72	146

### 4.3 Student's Total strength

#### 4.3.1 B. Tech/B. Arch

Branch	OP			OP(PH)			OP(EWS)			OP(EWS)PH			OP(OB)			OP(OB)PH			OP(SC)			OP(SC)PH			EWS			EWS (PH)			OB		
	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			
AR	4	6	10	0	0	0	0	0	0	0	0	0	5	7	12	2	0	2	0	0	0	0	0	0	3	3	6	0	0	0	10	6	16
BT	4	4	8	0	0	0	1	0	1	0	0	0	4	3	7	0	0	0	0	0	0	0	0	0	1	2	3	0	0	0	3	5	8
CE	27	9	36	0	1	1	8	1	9	0	0	0	23	4	27	1	0	1	0	1	1	0	0	0	6	2	8	1	0	1	26	18	44
CH	20	6	26	0	0	0	6	2	8	0	0	0	11	2	13	2	0	2	0	0	0	0	0	0	6	2	8	0	0	0	21	7	28
CS	43	10	53	1	2	3	5	2	7	0	0	0	10	0	10	0	1	1	0	0	0	0	0	0	14	4	18	0	0	0	38	8	46
EE	47	13	60	0	0	0	6	0	6	0	0	0	1	2	3	1	0	1	0	0	0	0	1	1	11	1	12	0	0	0	37	9	46
EC	44	9	53	1	1	2	9	2	11	0	1	1	4	1	5	0	0	0	0	0	0	0	0	0	14	3	17	0	1	1	39	8	47
EP	5	4	9	0	0	0	1	0	1	0	0	0	4	0	4	0	0	0	0	0	0	0	0	0	3	0	3	0	0	0	6	2	8
MT	9	2	11	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	5	3	8
ME	49	13	62	2	0	2	9	0	9	0	1	1	8	3	11	0	0	0	0	0	0	0	0	0	11	4	15	1	0	1	43	11	54
PE	9	4	13	1	0	1	2	0	2	0	0	0	11	1	12	0	0	0	1	2	3	0	0	0	2	1	3	0	0	0	7	1	8
<b>Total</b>	261	80	341	5	4	9	47	7	54	0	2	2	83	23	106	6	1	7	1	3	4	0	1	1	72	22	94	2	1	3	235	78	313

Branch	OB (PH)			SC			SC(PH)			ST			ST (PH)			DASA			SHI			ICCR			MEA (WELFARE)			SUPERNUMERARY			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
AR	0	0	0	6	3	9	0	0	0	2	2	4	0	0	0	0	6	6	0	0	0	1	0	1	0	0	0	1	0	1	34	33	67
BT	0	0	0	4	2	6	0	0	0	2	0	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	19	18	37	
CE	0	0	0	16	10	26	0	0	0	10	3	13	0	0	0	2	4	6	0	0	0	1	0	1	0	0	0	0	0	0	121	53	174
CH	1	0	1	11	5	16	0	0	0	8	1	9	0	0	0	2	1	3	0	0	0	0	0	0	0	0	0	0	0	0	88	26	114
CS	2	1	3	20	6	26	1	0	1	10	2	12	1	0	1	13	8	21	2	0	2	0	0	0	0	0	0	0	1	1	160	45	205
EE	1	0	1	19	5	24	0	0	0	10	3	13	0	0	0	4	4	8	0	0	0	0	0	0	0	0	0	2	0	2	139	38	177
EC	1	1	2	16	9	25	1	0	1	11	2	13	0	0	0	12	9	21	1	2	3	0	0	0	0	1	1	0	0	0	153	50	203
EP	0	0	0	3	2	5	0	0	0	3	0	3	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	26	8	34
MT	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	22	7	29
ME	1	0	1	25	6	31	0	0	0	13	3	16	0	0	0	7	1	8	1	0	1	0	0	0	0	0	0	0	0	0	170	42	212
PE	0	0	0	7	2	9	0	0	0	2	3	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	14	56	
<b>Total</b>	6	2	8	130	52	182	2	0	2	73	19	92	1	0	1	41	34	75	4	2	6	2	0	2	0	1	1	3	2	5	974	334	1308

#### 4.3.2 1<sup>st</sup> Semester M. Tech. M. Plan 2021-22

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				
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	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	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	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	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	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	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	18	7				
1	EC61	10	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	23	2				

2	EC62	10	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	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	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	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	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	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	0	3	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	1	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	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	21	2		
2	ME62	10	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	25	1		
3	ME63	10	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	22	0		
4	ME64	16	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	19	2		
5	ME65	13	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	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	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	4	0			

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

BRANCH	SC			ST			OPEN			OPEN-PD			OBC			OBC-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
AR	1	1	2	0	1	1	4	5	9	0	0	0	1	3	4	0	0	0	2	0	2	8	10	18
CED	13	4	17	6	0	6	36	21	57	0	0	0	17	15	32	0	0	0	5	2	7	77	42	119
CHED	0	1	1	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3
CSED	8	0	8	2	1	3	16	6	22	0	0	0	9	4	13	0	0	0	2	2	4	37	13	50
ECED	11	2	13	3	3	6	31	3	34	0	0	0	21	1	22	0	0	0	6	2	8	72	11	83
EED	14	4	18	3	1	4	42	11	53	0	0	0	22	10	32	0	0	0	9	1	10	90	27	117
MED	14	1	15	2	1	3	67	4	71	0	0	0	26	1	27	0	0	0	9	0	9	118	7	125
SMSE	0	0	0	0	0	0	3	0	3	0	0	0	1	0	1	0	0	0	0	0	0	4	0	4
<b>Total</b>	<b>61</b>	<b>13</b>	<b>74</b>	<b>16</b>	<b>7</b>	<b>23</b>	<b>200</b>	<b>51</b>	<b>251</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>97</b>	<b>34</b>	<b>131</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>33</b>	<b>7</b>	<b>40</b>	<b>407</b>	<b>112</b>	<b>519</b>



<b>MCA</b>	7	1	8	4	0	4	18	4	22	1	0	1	12	3	15	1	0	1	5	1	6	48	9	57
<b>MBA</b>	4	6	10	1	1	2	20	15	35	0	0	0	5	4	9	0	0	0	1	0	1	31	26	57
<b>M. Sc</b>	6	5	11	0	2	2	24	6	30	0	0	0	13	7	20	0	0	0	8	0	8	51	20	71
<b>Ph.D</b>	9	4	13	3	0	3	43	45	88	0	0	0	19	22	41	0	0	0	0	1	1	74	72	146

## 4.4 THE HOSTELS

### Accommodation

There are eleven hostels for the men and two hostels for the ladies. The total capacity of all hostels currently available is 5050. A new Mega Hostel for Boys with a capacity of 1500 (single seater) is nearing completion. Present strength in the hostels is 4536, out of this 3423 are boys and 1113 are girls (as on 31.03.2022). 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. Mini canteen, Milma, Amul kiosks, DTP Centre, co-operative stores, Stitching Centre etc. are functioning in Students Amenity Centre. Two power laundry stations are functioning with collection centers at different hostels. The ladies hostel has ladies' gym, stitching and tailoring centre, hostel library, fitness parlor, 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 Stewards/Caretakers/hostel staffs.

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

Wardens:(as on 31.03.2022)

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. Maneesh Chandran	Assistant Professor	PHY
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. Suman Saha	Assistant Professor	CED
9	Dr. Raju Hazari	Assistant Professor	CSED
10	Dr. Mithun Muthiah Sakthivel	Assistant Professor	EED
11	Dr. Sandip Rudha Budhe	Assistant Professor	MED
12	Dr. Waquar Ahmad	Assistant Professor	ECED
13	Dr. Gangolu Srinu	Assistant Professor	MED
14	Dr. Sreejith S.S	Assistant Professor	SOMS
15	Dr. Bimal P.	Assistant Professor	DAP
16	Dr. Anantha Singh T.S.	Assistant Professor	CED
17	Dr. S. Sheerazuddin	Assistant Professor	CSED
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. Aswathy E.V.	Assistant Professor	CED
22	Dr. Fathima Fasmin	Assistant Professor	CHED
23	Dr. Mini Mol Menampambath	Assistant Professor	CHY

**Hostel Manager (Officiating):** Sri. Muraleedharan P

**Stewards:** Sri. Anwar Sadath

**Peon:** Sri. Chandu. K V

#### 4.5 SCHOLARSHIPS / ASSISTANCE-SHIP

Various scholarship sponsored by Ministries of Government of India processed through National Scholarship portal (NSP) such as:

- Top Class Education Scheme for SC Students
- National Fellowship and Scholarship for Higher Education of ST Students - Scholarship (Formally Top Class Education for Schedule Tribe Students) - only for scholarships
- Post-matric Scholarship for Students with Disabilities
- Scholarships for Top Class Education for students with disabilities.
- Prime Minister's Scholarship Scheme for Central Armed Police Forces and Assam Rifles
- Financial Assistance for Education of the Wards of Beedi/Cine/IOMC/LSDM Workers - Post-Matric
- Prime Minister's Scholarship Scheme for RPF/RPSF
- ISHAN UDAY - Special Scholarship Scheme for North Eastern Region
- PG INDIRA GANDHI SCHOLARSHIP FOR SINGLE GIRL CHILD
- PG SCHOLARSHIP FOR UNIVERSITY RANK HOLDERS (RANK HOLDERS)
- PG SCHOLARSHIP SCHEME FOR SC ST STUDENTS FOR PERSUING PROFESSIONAL COURSES
- PRAGATI SCHOLARSHIP SCHEME FOR GIRL STUDENTS (TECHNICAL DEGREE)
- Post Matric Scholarships Scheme for Minorities
- Merit Cum Means Scholarship for Professional and Technical Courses CS
- CENTRAL SECTOR SCHEME OF SCHOLARSHIPS FOR COLLEGE AND UNIVERSITY STUDENTS
- National Means Cum Merit Scholarship
- Prime Minister's Scholarship Scheme (KSB)
- Railway Staff. Benefit Fund Scholarship

All Scholarships sponsored by the respective State Governments are also provide for the student

#### 4.6 GAMES AND SPORTS

Activities commenced in last week of March 2021 with the class room Orientation for fresher's followed by One-Credit Course in Physical Education (ZZ1093D) May 2021. Talent Spotting was completed in June 2021 prior to end-semester exams and NITC teams in all games were selected.

Coaching Camp was conducted for all NITC teams during 2021. Teams were soon sent out to participate in National Level Inter University and Inter NIT tournaments at various Universities and NITs of the country. Being the Diamond Jubilee year, we decided to give maximum exposure to our Teams

In-Campus Mass Participation Activities were conducted in grand fashion to commemorate our Diamond jubilee year. Tournaments were held in Football (Fives), In Cricket (Nano-cricket & Willow cup) and Football (FORZ Soccer). These activities attracted over a thousand students and exhibited the dexterity & managerial prowess of student-organizers. One exhibition Volleyball match for (M) was conducted between Faculty and Staff of NIT Calicut. Badminton Faculty and Staff

Diamond Jubilee Invitation tournament were organized in NIT Calicut as part of the jubilee celebrations. A social-interaction Rabona Fives Football tournament was conducted for invited professional

teams and the winner SCET Thiruvananthapuram was awarded the Diamond Jubilee Cup. And NSS Engineering College Palakkad was the Runner-Up. Fury 2021-22 Basketball Diamond Jubilee tournaments in connection with Ragam was also hosted during the year for boys and girls. CUSAT was the Winner in Basketball (Men) and Rajagiri College, Kalamassery was the I Runner-Up. NIT Calicut secured II Runner-Up in Basketball (M) section. In Women Section St. Teresa's College was awarded the Fury Winner's Cup. And Calicut Medical College was the I Runner-Up. NIT Calicut secured II Runner-Up in Basketball Fury (W). In Volleyball Strike-3 (M) Tournament IISC Bangalore was awarded the Diamond Jubilee Cup for the Winners and NIT Calicut secured the I runner-Up. Calicut Medical College got II Runner-up. In Women section, the IISC Bangalore was awarded the Winner's Trophy and Govt. Medical College Calicut secured the I Runner-Up in Volleyball (W).

As usual, the Intramural interclass competition was conducted in all Football, Volleyball, Basketball, Handball, Badminton, Table Tennis, Kabaddi, Kho-Kho, games for both Men and Women.

Kozhikode District League Championship is one tournament we frequent every year. NIT Calicut (M) team participated in Kozhikode District League Senior Basketball (M) Championship held at Govt. Physical Education College, Kozhikode.

## 4.7 AWARDS

### DEPARTMENT OF CHEMICAL ENGINEERING

SL. NO.	NAME	AWARD
1	Dr. Noel Jacob Kaleekkal	Early Career Chemist Grant- Pacificchem 2021 – Conference of Pacific Basin Chemical Engineering Societies. Held at Honolulu, Hawaii, USA (online mode)

### DEPARTMENT OF CHEMISTRY

SL. NO.	NAME	AWARD
1	Dr. Mausumi Chattopadhyaya	Research Stay of 3 months in Germany from Alexander von Humboldt Foundation.
2	Rasha Rahman P. K.	First prize for Oral Presentation in World Sensor Congress 2022 organised by C-MET Thrissur
3	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 CIVIL ENGINEERING

SL. NO.	NAME	AWARD
1	Dr. Mausumi Chattopadhyaya	Research Stay of 3 months in Germany from Alexander von Humboldt Foundation.
2	Rasha Rahman P. K.	First prize for Oral Presentation in World Sensor Congress 2022 organised by C-MET Thrissur
3	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	Aravind S Krishnan, Chinmay Sarkar, Raghu C V	Won bronze prize in the contest TECHFEST – 2021 of KSCSTE (For the final year project)
2	Roshan Peter, Milan Sreenadhan, Kaushik R V, Naga Prasath Saravanan, and P. V. Sudeep.	Secured second position in the "National Level Project Exhibition 2022" organized by National Institute of Engineering, Mysuru in association with IETE Mysuru, held on 27th April 2022.
3	Chandan YADAV	Golden List of Reviewers for 2021 “ IEEE TRANSACTIONS ON ELECTRON DEVICES”
4	Anjali Sara Markose, Ashutosh Mishra	Winner of Synopsys Inno Champ 2022 (Female Category)
5	Sakhineti Praveena,	a student of the B19 batch of ECE received the prestigious Micron’s URAM Scholarship with a scholarship amount of Rs 1,00,000.
6	Diyea Robin	a student of B 18 Batch won the Carolyn Leighton Scholarship 2021 which includes a one-year WITI membership and an opportunity to attend the 2021 WITI Global Summit. She also bagged the second position in the elocution competition conducted in association with the Azadi Ka Amruth Mahotsav.
7	Polamuri Ushaswini	won the first prize and runner up respectively in InnoChamp '22, the annual innovation challenge conducted by Synopsys Inc.
8	Dr. P.S. Sathidevi	Professor, ECE department was selected for Prof K M Bahauddin award for the Distinguished Engineering Teacher of Kerala (2022), by NITCAA Cochin Chapter.
9	Dr. S M Sameer	Professor, is selected as secretary, IEEE, Region -10, Asia Pacific.

### 4.8 EXAMINATION DETAILS

B. Tech. / B. Arch. Result (17<sup>th</sup> Convocation)

Programme	Total Registered	1 <sup>st</sup> class with Distinction	1 <sup>st</sup> Class	2 <sup>nd</sup> Class	3 <sup>rd</sup> Class	TotalPass	Percentage
CE	135	40	79	15	-	134	99.26
CS	139	60	68	7	1	136	97.84
EC	145	51	76	14	-	141	97.24
EE	140	57	65	14	-	136	97.14
ME	138	41	78	12	-	131	94.93
PE	38	10	23	3	-	36	94.74

EP	33	8	22	3		33	100.00
BT	21	7	13	1	-	21	100.00
CH	82	24	44	14	-	82	100.00
TOTAL	871	298	468	83	1	850	97.59
AR	45	6	20	11	-	37	82.22

**Details of M. Tech, MCA & Ph.D. Students passed out (From Academic Section)**

Programme	Total Registered	1 <sup>st</sup> class with Distinction	1 <sup>st</sup> Class	2 <sup>nd</sup> Class	Total Pass	Percentage
CEA	20	16	4	0	20	100
CEB	20	15	5	0	20	100
CEC	19	12	7	0	19	100
CED	21	20	1	0	21	100
CEE	12	9	3	0	12	100
CSA	22	16	5	0	21	95.45
CSB	18	14	4	0	18	100
EEA	22	17	4	0	21	95.45
EEB	16	9	6	0	15	93.75
EEC	20	17	3	0	20	100
EED	23	20	3	0	23	100
EEE	13	11	2	0	13	100
ECA	19	11	7	0	18	94.74
ECB	20	13	7	0	20	100
ECC	13	7	5	0	12	92.31
ECD	14	11	3	0	14	100
MEA	21	13	8	0	21	100
MEB	16	14	2	0	16	100
MEC	17	10	7	0	17	100
MED	18	16	2	0	18	100
MEE	17	14	3	0	17	100
MEF	13	11	2	0	13	100
NSA	7	7	0	0	7	100
CHA	7	5	0	1	6	85.71
<b>TOTAL</b>	<b>408</b>	<b>308</b>	<b>93</b>	<b>1</b>	<b>402</b>	<b>98.53</b>
MAA	20	14	6	0	20	100
CYA	19	15	3	0	18	94.74
PHA	20	13	7	0	20	100
<b>TOTAL</b>	<b>59</b>	<b>42</b>	<b>16</b>	<b>0</b>	<b>58</b>	<b>98.31</b>
MBA	43	12	31	0	43	100
MCA	40	15	21	3	39	97.50
M.PLAN	14	10	3	1	14	100
PHD					96	
<b>TOTAL</b>	<b>564</b>	<b>387</b>	<b>164</b>	<b>5</b>	<b>652</b>	

## 4.9 Technology Business Incubator (TBI)

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 startups. 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 2021– 2022	17
3	Number of units graduated from TBI during 2021– 2022	10
4	Number of units preparing to graduate	2
5	Total number of units so far assisted by TBI	86
6	Total number of employees in the incubated companies	1100

### Programmes conducted by TBI

- WOMEN ENTREPRENEURSHIP DEVELOPMENT PROGRAMME IN Applied Electronics conducted during 31<sup>st</sup> Aug 2021 to 24<sup>th</sup> Sep 2021
- WOMEN ENTREPRENEURSHIP DEVELOPMENT PROGRAMME (ONLINE) conducted during 19<sup>th</sup> May 2021 to 16<sup>th</sup> Jun 2021
- WOMEN ENTREPRENEURSHIP DEVELOPMENT PROGRAMME (ONLINE) conducted during 02<sup>nd</sup> Sep 2021 to 27<sup>th</sup> Sep 2021
- ASM Training Programme conducted during 31<sup>st</sup> Jul 2021 to 06<sup>th</sup> Aug 2021

### NIDHI 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.

## **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.

### **4.10 TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME PHASE 111**

Technical Education Quality Improvement Programme (TEQIP) is a centrally sponsored scheme of the Government of India to build a strong higher technical education system for the country. The programme was being implemented in multiple phases and cycles. Institute has completed the Phase I in 2007-2008 and the Phase II in 2016-'17. The TEQIP Phase III was started in 2017-2018 and the Institute got selected under the Sub Component 1.3 for which the twinning with an institution selected under the Sub Component 1.1 was mandatory. Institute has made the twinning arrangements with the Govt. Engineering College Bharatpur, Rajasthan. This College was selected by MHRD under Sub Component 1.1 of TEQIP-III. Phase III was officially started on 1st April 2017 and would be concluded by 30<sup>th</sup> September 2021. Institute has very effectively utilized the grant in aid, to its full extent, for strengthening the research, training of the faculty and staff, promotion of innovations among students, improvement of graduate employability, and also for creating awareness about entrepreneurship and the need for protection of the intellectual properties. A brief report of the activities conducted during the year 2020-21 under this scheme as follows:

There are two major heads of expenditure, namely procurement and academic activities for which the grant was released on a quarterly basis subject to the acceptance of the action plan submitted the project institutions; the third component is the *incremental operating cost* for the Institute. Most of the equipment were procured in the previous years. During the year under report, the institute has spent Rs. 12,67,000/- in procurement, Rs. 2,56,404 in academics, Rs. 35,400 in IOC, Rs. 4,74,267 for salary of staff making a total expenditure of Rs. 20,33,071/- in year 2021-22.

The project came to a close in September 2021 and was under grace period for the rest of 4 months which ended on 31<sup>st</sup> January 2022. The total project expenditure was Rs. 6,83,01,417/- out of the granted 7.0 crores as Project Life Allocation. The institute benefited maximum out of the third phase of TEQIP-III.



## 5. RESEARCH AND DEVELOPMENT ACTIVITIES

### 5.1 PH.D. PROGRAMMES – EXISTING AND PROPOSED

#### DEPARTMENT OF ARCHITECTURE

##### a. Ph. Ds completed under Existing Scheme during the period

SL. NO	NAME	GUIDE	AREA OF SPECIALIZATION	SCHEME (QIP/PART TIME/FULL TIME)
1	Josna Raphael P	Dr. Kasthurba A K	A model for urban interventions in culturally integrated historic urban cores: Case study of traditional Temple towns of Kerala	FT
2	Anjana Bhagyanathan	Dr. Kasthurba A K	Conservation of Sacred Groves and their impact on ground water levels in river basins of Malabar, Kerala	FT
3	Sheelu Jones	Dr. Kasthurba A.K. Dr. Anjana Bhagyanathan,	Environmental Conservation of Western Ghats	FT
4	Alex Jose	Dr. Kasthurba A.K.	Stabilized Laterite soil Blocks modified Using Natural rubber latex: characterisation and durability studies	FT
5	Supriya Mahesh Patil	Dr. Kasthurba A.K.	Weathering of Stone monuments: Weathering pattern of Basalt stone in monuments of Khandapur , Maharashtra	PT
6	Rahmathulla Noufal E	Dr. Kasthurba A K	Environment Friendly Alternative Substitutes (Iron Slag and Copper Slag) in Concrete Construction: Characterization and Standardization	PT
7	Chithra K	Dr. Anil Kumar P.P. & Dr. Naseer M.A.	A framework for the Residential Landuse Impact evaluation in Urban areas	PT

8	Bimal P.	Dr. Anil Kumar P.P.	An Algorithmic Framework for Surface Modeling of Population Concentration and Distribution	PT
9	Amritha P.K.	Dr. Anil Kumar P.P.	Productive Urban Landscapes- A sustainable solution for Organic waste Management for Indian urban areas	FT
10	Mr. Pradeep	Dr. Anil Kumar P.P.	R-Built up space vs infrastructure capacity assessment: Building regulations	PT
11	Mrs. Shine George	Dr. Anil Kumar P.P.	Deliverance of community housing in the aftermath of natural disasters: Disaster management	PT
12	Dili A.S.	Dr. Naseer M.A.	Thermal Performance of Traditional Residential Buildings of Kerala	QIP

**b. On-going Ph. Ds under the Existing Scheme**

SL.NO.	NAME	GUIDE	AREA OF SPECIALIZATION	SCHEME (QIP/PART TIME/FULL TIME)
1	Shahim Abdurahiman	Dr. Kasthurba A.K.	Urban Heritage Adaptability Assessment Model for Heritage-Sensitive Urban development in historic areas	FT
2	Jasna Bharghavan	Dr. Kasthurba A.K.	Infrastructure for water Security	FT
3	Rajina Rahiman V.	Dr. Naseer M.A.	Methodology to assess Walkability to Public Transportation in Indian Urban Neighborhoods	PT
4	Vidya G. Mohan	Dr. Naseer M.A.	Model for Optimizing Container Transportation in Hinterland of Indian Ports	PT
5	Aromal V	Dr. Naseer M.A.	Development of Decision-making tool for Prioritizing Pedestrian Corridors for Improvement in Urban Areas	FT
6	Joshima V M	Dr. Naseer M.A.	Development of Cost Effective and Sustainable Thermal Retrofitting for RCC Roofs in warm Humid Climate	FT
7	Mr. Binoy B V	Dr. Anil Kumar P.P.& Dr. Naseer M.A.	Land value modelling in Kerala using Remote Sensing and GIS techniques:	FT

			Land value	
8	Mr. Ajay Abey	Dr. Anil Kumar P.P.	Remodeling sustainable building concepts through analysis of traditional planning principles: Sustainability	PT
9	Mrs. Krishnaveni K S	Dr. Anil Kumar P.P.	Study of Urban sprawl in the state of Kerala: Urban sprawl	FT
10	Ms. Meenu S	Dr. Anil Kumar P.P.	Improving accessibility of Urban Open Spaces : For Geriatric cross-sections	FT
11	Kavitha VS	Dr. Mohammed Firoz C.	Urban Design	PT
12	Ashna John	Dr. Mohammed Firoz C.	Tourism Management	FT
13	Sruthi Krishnan	Dr. Mohammed Firoz C.	Environmental Planning	FT
14	Fathim Rashna Kallingal	Dr. Mohammed Firoz C.	Regional Planning	PT
15	Susan Cyriac	Dr. Mohammed Firoz C.	Regional Planning	FT
16	Fathima Zehba	Dr. Mohammed Firoz C.	Quality of Life	FT
19	Ritesh Ranjan	Dr. Mohammed Firoz C.	Regional Planning	PT
20	Ameena Ayoob	Dr. Mohammed Firoz C.	An assessment of user satisfaction versus real estate pressure in deciding the requirements of community spaces in high rise apartments: A case of Kochi	FT
21	Ambily Menon	Dr. Mohammed Firoz C.& Dr Chithra N R(CED)	Nature Based solutions framework for Flood resilient planning: A case of Kerala India	FT
22	Mrs. Nina Lazar	Dr. Chithra K.	Development of a Sustainability Assessment Tool for New Residential Buildings in Tropical Climate	FT
23	Mr. Anurup P.	Dr. Chithra K.	Development of socio-cultural efficiency index of urban open spaces	PT
24	Linas Fathima	Dr. Chithra K.	Development of a framework to derive shape grammars of the traditional residential prototypes in the western coast of India.	FT
25	Lakshmi Manohar	Dr Chithra K	Enhancing Indian urban areas in the post-pandemic world through modelling and prediction of human brain	FT

			responses.	
26	Icy P C	Dr Chithra K & Dr. Amritha P.K	Access Audit	PT
27	Vidya P.	Dr. Shyni Anilkumar	Climate Change and Vulnerability	FT
28	Geetha A.	Dr. Shyni Anilkumar	Resilience of Tribal Community	FT
29	Sherin Greenal	Dr Shyni anilkumar	Developing a model for post disaster housing reconstruction	FT
30	Nishan Nazer	Dr. Bimal P.	Ecosystem services	FT
31	Rohit ramakrishna nadkarni	Dr. Bimal P.	Urban Conservation	PT
32	Sunena abdul huq	Dr. Bimal P.	Urban Conservation	FT
33	Deepa p.	Dr. Bimal P.	Urban Modelling	PT
34	Shahana usman abdulla	Dr. Bimal P.	Urban Modelling	FT
35	Anju John	Dr. Anjana Bhagyanathan	Ecological Planning	PT
36	Sujith	Dr. Anjana Bhagyanathan	Ecological Planning	PT
37	Nishanth	Dr. Anjana Bhagyanathan	Heritage economics liberalization in the field of heritage conservation of India	FT
38	B R Vishwalekshmi	Dr. Deepthi Bendi	Construction Waste Management	FT
39	Mohammed Shebin N	Dr. Deepthi Bendi	Prefabrication in Urban Housing	PT
40	Athira S B	Dr. Amritha P K	Topic: Exploration of traditional building knowledge system and contextual aesthetics in contemporary architecture in India	PT

### c. Proposed Ph.D. programmes

Dr. Kasthurba A.K	<ol style="list-style-type: none"> <li>1. Architectural Conservation</li> <li>2. Sustainable Building materials and Techniques</li> <li>3. Urban Renewal and Tourism Development</li> </ol>
Dr. Anil Kumar P.P.	<ol style="list-style-type: none"> <li>1. Smart City planning</li> <li>2. Sustainable Urban and Peri-urban development</li> <li>3. Management of Urban sprawl</li> <li>4. Disaster Preparedness and Management</li> </ol>
Dr. Naseer M A	<ol style="list-style-type: none"> <li>1. Transportation Planning</li> <li>2. Thermal Studies in Buildings</li> <li>3. Remote Sensing and GIS applications in Urban Planning</li> </ol>
Dr. Mohammed Firoz C.	<ol style="list-style-type: none"> <li>1. Sustainable City Planning and Design</li> <li>2. Regional Development and Planning</li> <li>2. Ecological Planning</li> </ol>
Dr Chithra K	<ol style="list-style-type: none"> <li>1. Impact assessment studies</li> </ol>

	<ol style="list-style-type: none"> <li>2. Sustainable Architecture</li> <li>3. Sustainable land use planning in urban context</li> </ol>
Dr. Bimal P.	<ol style="list-style-type: none"> <li>1. Research in the field of AI and Machine Learning Applications in Urban Planning.</li> <li>2. Smart City</li> <li>3. GIS and Spatial Modelling</li> <li>4. Ecosystem Services</li> </ol>
Dr. Shyni Anilkumar	<ol style="list-style-type: none"> <li>1. Disaster Management</li> <li>2. Climate Change and Vulnerability studies</li> <li>3. Sustainable Water Sanitation and Hygiene Infrastructure</li> <li>4. Tribal community development</li> <li>5. WASH infrastructure planning</li> <li>6. Flood risk management</li> </ol>
Dr. Anjana Bhagyanathan	<ol style="list-style-type: none"> <li>1. Ecological Planning</li> <li>2. Environmental Sociology</li> <li>3. Natural Resource Conservation</li> <li>4. Landscape Ecology</li> </ol>
Dr. Deepthi Bendi	<ol style="list-style-type: none"> <li>1. Prefabrication in the construction industry</li> <li>2. Modern Methods of Construction and Management</li> <li>3. Energy Management in the Built Environment</li> <li>4. Construction Waste Management</li> <li>5. Women in Construction</li> </ol>
Dr. Amritha P.K.	<ol style="list-style-type: none"> <li>1. Landscape Urbanism</li> <li>2. Sustainable Architecture</li> <li>3. Urban waste management</li> <li>4. Traditional Knowledge system in architecture</li> </ol>
Dr. Sanil Kumar	<ol style="list-style-type: none"> <li>1. Participatory Planning</li> <li>2. Wetland Planning</li> <li>3. Integrated Planning</li> <li>4. Architectural Pedagogy</li> <li>5. Architectural Research</li> </ol>

## DEPARTMENT OF CHEMICAL ENGINEERING

### a. Ph. Ds completed under Existing Scheme during the period

SL. NO.	NAME	GUIDE	AREA OF SPECIALIZATION	SCHEME (QIP/PART TIME/FULL TIME)
1	Gazliya	Dr. Aparna K	Bio Fuel	Full Time
2	Ramya Shankar	Dr. V Sivasubramanian	Waste Water Treatment using Electro Chemical Treatment	Full Time
3	Karthick S	Dr. K Haribabu	Microbial Fuel Cell	Full Time

### b. On-going Ph. Ds under the Existing Scheme

SL. NO.	NAME	GUIDE	AREA OF SPECIALIZATION	SCHEME (QIP/PART TIME/FULL TIME)
1	Abdul Samad K	Dr. Malladi V PavanKumar	Water Treatment using Adsorbent	Full Time
2	Johsan R	Dr. Sudev Das	Pool boiling	Full Time
3	Mona Mary Varghese	Dr. Teja Reddy Vakamalla	CFD	Full Time
4	Jenny N	Dr. Noel Jacob	Membrane Separation	Full Time
5	Shalini V	Dr. Aparna K	Nano Material, Environmental applications	Full Time
6	Janakan S Saral	Dr. Panneerselvam Ranganathan	Bio Fuel	Full Time
7	Akash M Chandran	Dr. Prasanna Kumar S Mural, Dr. Lity Alen Varghese	Polymer Nano composite for Energy Harvesting	Full Time
8	Y Raju	Dr. Chandra Sekhar Besta	Process Control	Full Time
9	Rahul Krishna B	Dr. S Bhuvaneshwari	Modeling and Process Control	Full Time
10	Aravind S P	Dr. S Bhuvaneshwari	Biosensor	Full Time
11	Varun S	Dr. Prasannakumar S Mural, Dr. Lity Alen Varghese	Polymer nano composite	Full Time
12	Khansa Rahman	Dr. V Sivasubramanian	Heavy metal degradation	Full Time
13	Nishan Ahammed V	Dr. Lity Alen Varghese	Biosorption, Water treatment	Full Time
14	Sreeja p	Dr. vineesh ravi	Catalytic synthesis of	Full Time

			carbon nanomaterials	
15	Vanisree gs	Dr. Aparna K	Biodiesel	Full Time
16	Aiswarya v	Dr. Sudev Das	Heat Transfer	Full Time
17	Sreeja e s	Dr. Dhanya Ram V	Process Control	Full Time
18	Maya s nair	Dr. V Sivasubramanian	Carbon dioxide sequestration and pigment extraction from micro algae	Full Time
19	suhailam	Dr. Chandra Sekhar Besta	Process Control	Full Time
20	Karnapa ajith	Dr. K Haribabu	Waste water treatment using Microbial fuel cell technology	Full Time
21	j. juliyana	Dr. Noel Jacob	Wastewater treatment	Full Time
22	Sanol k p	Dr. Dhanya Ram V	Process Control and Simulation	Full Time
23	Aiswarya p	Dr. Teja Reddy Vakamalla	CFD modeling of hydrocyclones	Full Time

## DEPARTMENT OF CHEMISTRY

### a. Ph. Ds completed under Existing Scheme during the period

Sl. No.	Name	Guide	Area of Specialization	Scheme (QIP/Part Time/Full time)
1	Manoj M.	Dr. A. Sujith	Biocomposites	Part Time
2	Shafeeq V. H.	Dr. G. Unnikrishnan	Nanofiller reinforced polymer blends for piezoelectric applications	Full Time
3	Rarima R.	Dr. G. Unnikrishnan	Polymer composites based on polylactic acid	Full Time
4	Mohammed Adnan P. K	Dr. Lisa Sreejith	Surface Chemistry	Full Time
5	Muhasina P. V.	Dr. Parameswaran Pattiyil	Structure, bonding and reactivity of low-valent group 14 and 15 compounds	Full Time

### b. On-going Ph. Ds under the Existing Scheme

SL. NO.	NAME	GUIDE	AREA OF SPECIALIZATION	SCHEME (QIP/PART TIME/FULL TIME)
1	Rasha Rahman P. K.	Dr, Mini Mol Menamparambath	Nanomaterials synthesis	Full Time
2	Subin K. C.	Dr, Mini Mol Menamparambath	Nanomaterials synthesis	Full Time
3	Nesleena P.	Dr, Mini Mol Menamparambath	Nanomaterials synthesis	Full Time

4	Anjali S.	Dr, Mini Mol Menamparambath	Nanomaterials synthesis	Full Time
5	Jithinraj TP	Dr. Lakshmi C	Bioorganic Chemistry	Full Time
6	Sreelaya Gopinath	Dr. Lakshmi C	Organic Chemistry and physical organic chemistry	Full Time
7	Sehra Shurroque K	Dr. Lakshmi C	Organic Chemistry and physical organic chemistry	Full Time
8	Drisya	Dr. Lakshmi C	Bioorganic Chemistry	Full Time
9	Juraj K	Dr. A. Sujith	Polymer nanofibrous membranes	Full Time
10	Anjali	Dr. A. Sujith	Polymer nanofibrous membranes	Full Time
11	Ardra Ashok	Dr. A. Sujith	Polymer Hydrogels	Full Time
12	Tesi Thomas	Dr. A. Sujith	Polymer membranes	Part Time
13	Smitha M	Dr. A. Sujith	Polymer Membranes	Part Time
14	Saeed P.A.	Dr. A. Sujith	Conducting polymers	Part Time
15	Dhilshada V. N	Dr.Mausumi Chattopadhyaya	Theoretical and Computational Chemistry	Full Time
16	Aiswarya Chandran	Dr.Mausumi Chattopadhyaya	Theoretical and Computational Chemistry	Full Time
17	Shamjitha C	Dr.Anuj A Vargeese	Energetic Nanomaterials	Full Time
18	Sarika V	Dr.Anuj A Vargeese	Energetic Materials	Full Time
19	Arya C G	Dr. Janardhan Banothu	Organic Chemistry and Medicinal Chemistry	Full Time
20	Fabitha K	Dr. Janardhan Banothu	Organic Chemistry and Medicinal Chemistry	Full Time
21	Neethu Mariam Thomas	Dr. Janardhan Banothu	Organic Chemistry and Medicinal Chemistry	Part Time
22	Munugala Chandrakanth	Dr. Janardhan Banothu	Organic Chemistry and Medicinal Chemistry	Full Time (DST- INSPIRE)
23	Praveen Telukuntla	Dr. Janardhan Banothu	Organic Chemistry and Medicinal Chemistry	Part Time
24	Athulyadas	Dr. Muniyandi Sankaralingam	Bioinorganic Chemistry	Full Time
25	Anjana Rajeev K.	Dr. Muniyandi Sankaralingam	Bioinorganic Chemistry	Full Time
26	Thasnim P Mohammed	Dr. Muniyandi Sankaralingam	Bioinorganic Chemistry	Full Time
27	Hima P.	Dr Raju Dey	Organic synthesis and Catalysis	Full Time
28	Vageesh m	Dr Raju Dey	Organic synthesis and Catalysis	Full Time
29	Anjitha J	Dr. Chinna Ayya Swamy P	Organometallics and catalysis	Full Time
30	C Haritha	Dr. Chinna Ayya	Supramolecular and sensor	Part Time



		Swamy P	chemistry	
31	Archana V	Dr. Chinna Ayya Swamy P	Main group Organometallic Chemistry	Full Time
32	Vidhya C. V.	Dr. Suni Vasudevan	Inorganic Materials	Full Time
33	Amala Shaliya Joseph	Dr. Suni Vasudevan	Inorganic Materials	Full Time
34	Archana P. K.	Dr. Suni Vasudevan	Inorganic Materials	Full Time
35	Jasmin Joseph	Dr. G. Unnikrishnan	Polymer blends for biomedica applicatuions	External
36	Mekha Mariam mathew	Dr G. Unnikrishnan	Natural Rubber Latex /Cellulose Acette Blends	Full Time
37	Monisha .M	Dr G. Unnikrishnan	Functionally Modified Porphyrin Structures	Full Time
38	Amina Hamnas	Dr G. Unnikrishnan	Polymer Modified Lubricants	Part Time
39	Gopika	Dr G. Unnikrishnan	Polymer Nanocomposites	Full Time
40	Aswathy.E	Dr. Lisa Sreejith	Surface Chemistry	Full Time
41	Sneha P.	Dr.Parameswaran Pat'tiyil	Theoretical study on structure and bonding of Be containing unusual compounds.	Full Time
42	Rinsha C. H.	Dr.Parameswaran Pattiyil	Theoretical Investigation on the Selective Transport of K <sup>+</sup> -ion and its Blocking in KcsA K <sup>+</sup> -ion Channel.	Full Time
43	Diana Mathew	Dr.Parameswaran Pattiyil	Dipyrinato/ Porphyrinato Complexes for Biological and Sensing Studies.	Full Time
44	Parvathy P.	Dr.Parameswaran Pattiyil	Energy Decomposition Analysis of main group- transition metal complexes.	Full Time
45	Shahila Muhammed	Dr.Parameswaran Pattiyil	Bonding, reactivity, and reaction mechanism of novel silylene and germylene stabilized main group compounds.	Full Time
46	Jishnu Sai G.	Dr.Parameswaran Pattiyil	Structure, bonding and stabilization of low-valent main group compounds.	Full Time

## DEPARTMENT OF CIVIL ENGINEERING

**a. Ph. Ds completed under Existing Scheme during the period**

SL. NO.	NAME	GUIDE	AREA OF SPECIALIZATION	SCHEME
1	Anand Raj	Dr. A P Shashikala & Dr. Praveen Nagarajan	Structural Engineering	Full Time
2	Mohammed Aslam	Dr. Mini Remanan & Dr. Praveen Nagarajan	Structural Engineering	Full Time
3	Venkata Subbaiah B.	Dr. Santosh G Thampi & Dr. V. Mustafa	Vessel Hydrodynamics	QIP-POLY
4	Rinku Varghese	Dr. S. Chandrakaran & Dr. K. Ranga Swamy	Geotechnical Engineering	Full Time
5	Lincy Christy D	Dr. T. M. Madhavan Pillai & Dr. Praveen Nagarajan	Structural Engineering	Full Time
6	Devika Babu	Dr. M.V.L.R. Anjaneyulu	Transportation Engineering	Part Time
7	Drisya J	Dr. Sathish Kumar D	Water Resources Engineering	Full Time
8	Drisya M	Dr. K. Krishnamurthy	Transportation Engineering	Full Time
9	Sreelekha M G	Dr. M.V. L. R. Anjaneyulu & Dr. K. Krishnamurthy	Transportation Engineering	QIP
10	Saranya P	Dr. Praveen Nagarajan & Dr. A P Shashikala	Structural Engineering	Full Time
11	Poonam Mohan	Dr. A P Shashikala	Offshore Structures	Full Time

**b. On-going Ph. Ds under the Existing Scheme**

SL. NO.	NAME	GUIDE	AREA OF SPECIALIZATION	SCHEME
1	Abdu Salam P	Dr. Mini Remanan	Structural Engineering	Full Time
2	Abhijith L	Dr. Kodi Rangaswamy Dr. Renjitha Mary Varghese	Soil dynamics	Full time

3	Abinaya S	Dr. George K. Varghese	Environmental Engineering	Full Time
4	Aditya Harikumar	Dr. Santosh G Thampi	Water Resources Engineering	Full Time
5	Akhil K S	Dr. N. Sankar	Geotechnical Engineering	Full Time
6	Akshara S P	Dr. Muhammed Safeer Pandikkadavath	Structural Engineering	Full Time
7	Amal Raj	Dr. M. V. L. R. Anjaneyulu, Dr. M. Sivakumar	Transportation Engineering	Full Time
8	Ambily P	Dr. Chithra NR, Dr. Mohammed Firoz	Water Resources Engineering	QIP
9	Anisha A	Dr. Robin Davis P	Structural Engineering	QIP
10	Anjali S	Dr. Seethalakshmi P	Geotechnical Engineering	Full Time
11	Anjana Elsa Alexander	Dr. A P Shashikala	Structural Engineering	Full Time
12	Anjana R Menon	Dr. Anjana Bhasi	Geotechnical Engineering	Full time
13	Ansa Thasneem. S.	Dr. Chithra. N. R., Dr. Santosh. G. Thampi	Water Resources Engineering	Full Time
14	Ansu V.	Dr. M.V.L.R. Anjaneyulu	Transportation Engineering	QIP
15	Anusree P. C.	Dr. Anantha Singh T S	Environmental Engineering	Full Time
16	Apurva A K	Dr. N. Sankar, Dr. S. Chandrakaran	Geotechnical Engineering	Full Time
17	Arathi A. R.	Dr. Harikrishna M	Traffic Engineering	Full Time
18	Archana A R	Dr. Muhammed Safeer Pandikkadavath	Structural Engineering	Full Time
19	Arun Baby Zacharia	Dr. Harikrishna M., Dr. M V L R Anjaneyulu	Traffic Engineering	Full Time
20	Arjun Raj	Dr. Praveen Nagarajan, Dr. A P Shashikala	Structural Engineering	Full Time
21	Ashalakshmi V M	Dr. M. Sivakumar, Dr. M. V. L. R. Anjaneyulu	Transportation Engineering	Full Time
22	Ashima J Catherine	Dr. S. Chandrakaran, Dr. Kodi Rangaswamy	Geotechnical Engineering	Full Time
23	Ashwini S. K.	Dr. George K. Varghese	Environmental Engineering	Full time
24	Aswathy Ann Mathew	Dr. J. Sudhakumar, Dr. Jayachandran K	Concrete Technology	Part Time
25	Athira J	Dr. K. Krishnamurthy, Dr. Yogeshwar V. Navandar	Transportation Engineering	Full Time
26	Athira T	Dr. Agilan V.	Environmental Engineering	Full time
27	Azeem M	Dr. Sajith A.S., Dr. Indira P. V.	Structural Engineering	Full Time
28	B Satya Narayana Reddy	Dr. Pramada S.K.	Water Resources Engineering	Full Time

29	Babitha Benjamin	Dr. J. Sudhakumar, Dr. Suchithra T V	Concrete Technology	Full time
30	Bennet A. Ipe	Dr. Sajith A.S.	Structural Engineering	Full Time
31	Bhukya Vamsi Naik	Dr. Suman Saha	Construction Technology and Management	Full time
32	Bindu A. G.	Dr. George K. Varghese	Environmental Engineering	QIP
33	Bindurani P	Dr. P V Indira, Dr. N Ganesan	Structural Engineering	QIP
34	C Pratapmohan Nair	Dr. J. Sudhakumar	Construction Management	Part Time
35	Chinnu Sabu	Dr. Praveen Nagarajan, Dr. Robin Davis P	Structural Engineering	Full Time
36	J Chithra	Dr. Praveen Nagarajan, Dr. Sajith A.S.	Structural Engineering	Full Time
37	Ciby Jacob Cherian	Dr T. M. Madhavan Pillai, Dr. Sajith A. S.	Structural Engineering	Part Time
38	Devipriya V P	Dr. S. Chandrakaran	Geotechnical Engineering	Full Time
39	Dilrabin K	Dr. Jayachandran K.	Concrete Technology	Full Time
40	Divya Rachel Rooby	Dr. J. Sudhakumar, Dr. Jayachandran K.	Concrete Technology	Full Time
41	Divyasree S L	Dr. Renjitha Mary Varghese	Soil dynamics	Full time
42	Fasna P.	Dr. Sajith A.S.	Structural Engineering	Full Time
43	Geethu Elsa Thomas	Dr. Sajith A S & Dr. P V Indira	Structural Engineering	Full time
44	Geethu Thomas	Dr. K. Rangaswamy	Geotechnical Engineering	Full time
45	Gopika Mohan	Dr. P V Indira & Dr. N Ganesan	Structural Engineering	Part time
46	Haritha P.C.	Dr. M.V.L.R. Anjaneyulu	Transportation Engineering	Full Time
47	Jawahar Saud S	Dr. George K. Varghese	Environmental Engineering	Part Time
48	Jazeel I S	Dr. Mini Remanan	Structural	Full Time
49	Jiji Panicker. K.	Dr. Praveen Nagarajan, Dr. Santosh G Thampi	Structural Engineering	Part Time
50	Jincy Rose M A	Dr. Chithra N R	Water Resources Engineering	Full Time
51	Jisha John	Dr. Chithra. N. R., Dr. Santosh. G. Thampi	Water Resources Engineering	Full Time
52	Jisha P	Dr. Muhammed Safeer Pandikkadavath	Structural Engineering	Part Time
53	Jishnu V P	Dr. N. Sankar	Geotechnical Engineering	Full Time
54	Jiyad P	Dr. Praveen Nagarajan	Structural Engineering	Full Time

55	Josniya Jose	Dr. Mini Remanan, Dr.Praveen Nagarajan	Structural Engineering	Full Time
56	P Kabbilawsh	Dr. Sathish Kumar D & Dr. Chithra N R	Water Resources Engineering	Full Time
57	Krishnachandran V N	Dr. J. Sudhakumar	Construction Management	Part Time
58	Kuchipudi Jaya Rao	Dr. M. Sivakumar & Dr. M. V. L. R. Anjaneyulu	Transportation Engineering	Full Time
59	Lakshmi Priya	Dr. George K. Varghese	Environmental Engineering	Part Time
60	Lekshmi Ashok	Dr. Santosh. G. Thampi, Dr. George. K. Varghese	Environmental Engineering	Full Time
61	Lincy Christy D.	Dr. T. M. Madhavan Pillai, Dr. Praveen Nagarajan	Structural Engineering	Part Time
62	Manjunath Ishwar Borakanavar	Dr Yogeshwar V Navandar, Dr. K Krishnamurthy	Transportation Engineering	Part Time
63	Manu Mohan M	Dr. Robin Davis P, Dr. Mohammed Ameen	Structural Engineering	Full Time
64	Meera Varghese	Dr. Anantha Singh T S	Environmental Engineering	Part Time
65	Megha Mohan	Dr. Pramada.S.K	Environmental Engineering	Full Time
66	Merlin R	Dr. K. Krishnamurthy	Transportation Engineering	QIP
67	Minu Ann Peter	Dr. Praveen Nagarajan, Dr. Sajith A.S	Structural Engineering	Part Time
68	Nayanathara O. S	Aswathy E.V	Environmental Engineering	Full Time
69	Najeeb M.	Dr. Suman Saha	Construction Technology and Management	Full Time
70	Neena M. Joseph	Dr. MVLR Anjaneyulu, Dr. Harikrishna M.	Transportation Engineering	Full Time
71	Niranjana M S	Dr. Arunkumar R	Water Resources Engineering	Part Time
72	Nishaant HA	Dr. J. Sudhakumar	Construction Management	Full Time
73	Noushad K	Dr. Renjitha Mary Varghese	Geotechnical Engineering	Full Time
74	Paul T Athikalam	Dr. K.V. Anand	Coastal Engineering	Full Time
75	Poornima Kurup	Dr. J. Sudhakumar, Dr. M A Naseer	Architectural Engineering	QIP
76	Prem Mohan	Dr. George K. Varghese	Environmental Engineering	Part Time
77	Prince Thankachan	Dr T. M. Madhavan Pillai	Structural Engineering	Full Time
78	R Sathyaprakash	Dr. K. Krishnamurthy	Transportation Engineering	Full Time
79	Rahla Rabia M	Dr. Sathish Kumar D	Water Resources	Full Time

	P		Engineering	
80	Rajindas K P	Dr. A.P. Shashikala & Dr. K.V. Anand	Coastal Engineering	Full Time
81	Ramesh V	Dr. K Krishnamurthy & Dr Yogeshwar V Navandar	Transportation Engineering	Full Time
82	Regi P. Mohan	Dr. K. Rangaswamy	Geotechnical Engineering	Part Time
83	Reshma C	Dr. Arunkumar R	Water Resources Engineering	Full Time
84	Reshma Geordy	Dr. J. Sudhakumar	Construction Management	Full Time
85	Revathi P	Dr. Aswathy E. V	Environmental Engineering	Part Time
86	Sabitha. N. M.	Dr. Santosh G Thampi & Dr. Sathish Kumar. D.	Water Resources Engineering	Part Time
87	Sachin Ramesh. V.V.	Dr. Santosh G Thampi	Water Resources Engineering	Full Time
88	Safeer Ali Abbas Ali	Dr. K. Krishnamurthy, Dr. Arun C	Construction Management	Full Time
89	Sai Krishnan K	Dr. K V Anand, Dr. Agilan V.	Offshore Structures	Full Time
90	Saji Simon C	Dr. Anantha Singh T S	Environmental Engineering	Full Time
91	Samjebadurai C	Dr. Aswathy E. V.	Environmental Engineering	Full Time
92	Sangeetha M.	Dr. M V L R Anjaneyulu, Dr. Harikrishna M.	Transportation Engineering	Full Time
93	Saranya Das K	Dr. Chithra N R	Water Resources Engineering	Full Time
94	Saranya P	Dr. A P Shashikala, Dr. Praveen Nagarajan	Structural Engineering	Full Time
95	Saravanan S	Dr. Robin Davis P	Structural Engineering	Full Time
96	Sethulekshmi V.S	Dr. K. Krishnamurthy	Transportation Engineering	Full Time
97	Sherin K S	Dr. N. Sankar, Dr. S. Chandrakaran	Geotechnical Engineering	Part Time
98	Shiji P	Dr. K. Rangaswamy	Geotechnical Engineering	Full Time
99	Shireen K	Dr. Renjitha Mary Varghese, Dr. N Sankar	Geotechnical Engineering	Full Time
100	Shruthi H Babu	Dr. Sathish Kumar D	Water Resources Engineering	Full Time
101	Sithara. S.	Dr. Pramada. S. K., Dr. Santosh. G. Thampi	Water Resources Engineering	Full Time
102	Sivakumar B.	Dr. K. Krishnamurthy	Transportation Engineering	Part Time
103	S. Smitha	Dr. K. Rangaswamy	Geotechnical Engineering	Full Time
104	Sreedevi Lekshmi	Dr. J. Sudhakumar	Concrete Technology	Full Time

105	Sreejith K	Dr. Anil Kumar Dash	Offshore Structures	Full Time
106	Sruthi D Sivan	Dr. Pramada.S.K	Water Resources Engineering	Full Time
107	Surya. T. V.	Dr. Santosh G Thampi	Environmental Engineering	Full Time
108	Swapna Thomas	Dr. N. Sankar	Geotechnical Engineering	Full Time
109	Unnikrishnan S	Dr. J. Sudhakumar	Construction Management	Part Time
110	Usman Arshad P J	Dr. Robin Davis P	Structural Engineering	Full Time
111	Vipin K T	Dr. N.Ganesan, Dr. P.V. Indira	Structural Engineering	Part Time
112	Vishnupriya M S	Dr. Agilan V.	Water Resources Engineering	Full Time
113	Viswanadhula Srinivasa Chary	Dr. Anjana Bhasi	Geotechnical Engineering	Full Time
114	Vivek. B.	Dr. Santosh G Thampi & Dr. Sathish Kumar. D.	Water Resources Engineering	External

c. Proposed Ph. D Programmes

- Balanced mix design approach for cold recycling of bituminous pavements
- Optimisation of pavement maintenance strategies for rural roads
- Design and evaluation plastic impregnated cold bituminous blocks
- Removal of ammoniacal nitrogen from wastewater in the presence and absence of carbon
- Easily biodegradable reducing agents for the reduction of organic pollutants from industrial wastewater
- Treatment of fish processing industrial wastewater using combined electrochemical and biological process
- Hydrodynamic cavitation process combined with electrochemical process for the treatment of wastewater and to reduce toxicity
- Experimental and numerical investigation on influence of particle breakage and its improvement by bentonite stabilization on design and stability analysis of earthen retaining walls and slopes under static and moving loading conditions
- An experimental investigation on influence of mica particle breakage on deformation characteristics of pre-crushed micaceous sand under small to large strain–monotonic and slow repeated-cyclic loading in relation with micro-morphological variations using 3d image-based techniques
- Performance studies of natural and stabilized micaceous sand under dynamic testing simulating traffic and earthquake loading
- Influence of binder and filler on the performance of cold bituminous mixes
- Effect of pavement surface characteristics on traffic flow parameters
- Investigation of modified cold bituminous mix properties
- Development of GIS integrated physically based rainfall-runoff and soil erosion model,
- Predicting the impact of changes in climate and landuse on hydrologic processes and water resources
- Estimation of design flood and quantification of uncertainty under projected climate change

- Investigations on the impact of projected sea level rise on the groundwater regime in coastal aquifers
- Experimental studies and mathematical modelling of wastewater treatment using constructed wetlands
- Application of game theory to the Western Ghats conundrum
- Environmental flow requirements of a river in the humid tropical zone
- Finite element analysis of an arch dam
- Water quality modelling in streams

## DEPARTMENT OF COMPUTER SCIENCE

### a. Ph. Ds completed under Existing Scheme during the period

SL. NO.	NAME	GUIDE	AREA OF SPECIALIZATION	SCHEME (QIP/PART TIME/FULL TIME)
1	Nandini J. Warriar	Dr. K. Murali Krishnan	Graph Theory	FT
2	Sithara Kanakaraj	Dr. Saidalavi Kalady	Image Processing	FT
3	Rani MR	Dr. R. Subashini	Algorithms	FT
4	Daphna Chacko	Dr. K. Murali Krishnan	Graph Theory	FT
5	Saritha Murali	Dr. Saidalavi Kalady	Image Processing	FT
6	Athira K	Dr. Gopakumar G	Bioinformatics	FT

### b. On-going Ph. Ds under the Existing Scheme

SL. NO.	NAME	GUIDE	AREA OF SPECIALIZATION	SCHEME (QIP/PART TIME/FULL TIME)
1	Unnikrishnan P.	Dr. V. K. Govindan, Dr.S D Madhukumar	Pattern Recognition	Converted fromFT to PT
2	Nishamol P. H.	Dr. G. Gopakumar	Bioinformatics	Converted fromFT to PT
3	Mahija K. C.	Dr. K. A. Abdul Nazeer	Bioinformatics /Text Mining	FT
4	Sankaranarayanan P. N.	Dr. K. A. Abdul Nazeer	Bioinformatics	Converted fromFT to PT



5	Athira K.	Dr. G. Gopakumar	Bioinformatics	FT
6	Anita John	Dr. Jimmy Jose	Security	PT
7	Reshma Raj R.S.	Dr. Sidalavi Kalady, Dr. Jayaraj P B	On-chip Multi-core Processors	FT
8	Dhanyamol Antony	Dr. R. Subashini	Algorithms	FT
9	Retheesh V. V.	Dr. Sidalavi Kalady	Image Processing	PT

10	Hridya P. R.	Dr. Jimmy Jose	Cryptography and Security	FT (JRF)
11	Remi Raman	Dr. R. Subashini, Dr. Subhasree	Computational Geometry	FT
12	Sruthi C. J.	Dr. Lijiya A.	Image processing and Pattern recognition	FT
13	Jasila E. K.	Dr. Saleena N, Dr. K A Abdul Nazeer	Data Mining	FT
14	Bijoy M. B.	Dr. Jayaraj P. B.	HPC and Machine Learning	PT
15	Merlin George	Dr. Anu Mary Chacko	Big Data in Healthcare	FT
16	Jaisooraj J	Dr. S. D. Madhu Kumar	Internet of Things	FT
17	O. K. Reshma	Dr. Saleena N.	Text Mining	FT
18	Shahira K. C.	Dr. Lijiya A.	Computer Vision and Pattern Recognition	FT
19	Lubna A.	Dr. Sidalavi Kalady	Artificial Intelligence	FT
20	Jisna V. A.	Dr. Jayaraj P. B.	Bioinformatics	FT
21	M Sreenivasan	Dr. Anu Mary Chacko	Health Informatics	FT
22	Ambili K N	Dr. Jimmy Jose	IoT security	FT
23	Rema M.	Dr. Subhasree M, Dr. RSubashini	Computational Geometry	FT
24	Sharon Sunny	Dr. Jayaraj P. B.	Bioinformatics	FT
25	Remya Krishnan P	Dr. Arun Raj Kumar P	Security in VANETS	FT

26	Sahla Habeeba M.A	Dr. Lijjiya A, Dr. AnuMary Chacko	Image Processing	Converted fromFT to PT
27	Reshma Roy	Dr Vineeth KumarPaleri	Compiler	FT
28	Suneera C M	Dr. Jay Prakash	Text Mining	FT
29	Pedda Nagyalla Maddaiah	Dr. Pournami P. N.	Image Processing	FT
30	Bijitha C V	Dr. Hiran V. Nath	Cyber Security	FT
31	Krishnendhu SP	Dr. M. Prabu	Image Processing	FT
32	Ankur Sharma	Dr. Veni T	Cloud Computing	FT
33	Sarath Babu	Dr. Arun Raj Kumar P	Vehicular Ad Hoc Network	FT

34	Annie Julie Joseph	Dr. Pournami P. N.	Image Processing	FT
35	Abinas V	Dr. K. A. Abdul Nazeer	Bioinformatics	FT (JRF)
36	Archana S M	Dr. Jay Prakash	Text Mining	FT
37	Shamla BeeviA	Dr. Saidalavi Kalady,Dr. Pournami P N	Medical Image Processing and Machine Learning	FT
38	Prajisha C	Dr. Vasudevan A R	Network security	FT (JRF)
39	Anjusha I T	Dr. Saleena N.	Bioinformatics	FT (JRF)
40	Sreekala S	Dr Vineeth KumarPaleri	Code optimization	FT (JRF)
41	Lekshmy P Chandran	Dr. K. A. Abdul Nazeer,Dr. Saleena N	Bioinformatics	FT
42	Midhula K S	Dr. Arun Raj Kumar P	Networking	FT
43	Hridya Sobhanam	Dr. Jay Prakash	Machine Learning	Converted fromFT to PT
44	Aby abahai T	Dr. Subhasree M.	Computational Geometry	PT
45	Seenia Francis	Dr. Jayaraj P. B, Dr. Pournami P N	Medical informatics	FT

46	Jiffy Joseph	Dr. Pournami P. N, Dr. Jayaraj P B	Medical Image Processing	FT (JRF)
47	Akhila V H	Dr. Anu Mary Chacko	Machine Learning	FT
48	Limna Das p	Dr. Jayaraj P. B.	Health Informatics	PT
49	Haritha B R	Dr. Subhasree M.	Computational Geometry	FT
50	Vivek M R	Dr. Priya Chandran	Natural Language Processing	FT
51	Meenu Mathew	Dr. Jay Prakash	Machine learning	PT
52	Athira A B	Dr. S D Madhu Kumar, Dr. Anu Mary Chacko	Social Network Data Analytics	FT
53	Renya Nath N	Dr. Hiran V Nath	Cyber Security	FT
54	Abhay Narayan	Dr. S D Madhu Kumar, Dr. Anu Mary Chacko	Data Analysis	FT
55	Shafna V	Dr. S D Madhu Kumar	IoT, Data Analytics	FT
56	ELizabeth M J	Dr. Raju Hazari	Cellular Automata and Machine Learning	FT

57	Binu Jose A	Dr. Pranesh Das	Data Mining / Machine Learning	FT
58	Rameez Mohammed A	Dr. S D Madhu Kumar	Data Analytics	PT
59	Shabana AT	Dr. S Sheerazudhin, Dr. K Murali Krishnan	Algorithms	FT
60	Sherly A P	Dr. P. Arun Raj Kumar	Video Steganography	FT
61	Aparna P	Dr. Gopakumar G	Bioinformatics	FT
62	Muppana Mahesh Reddy	Dr. Prabu Mohandas	Recommendation Systems	FT
63	Abhishek Singh	Dr. Abdul Nazeer K A	Computer Vision and Cognitive Neuroscience	FT
64	Sruthi N Paul	Dr. Anu Mary Chacko, Dr. Lijiya	Social Network Analysis	FT

		A		
65	Alphy George	Dr. S Sheerazudhin, Dr. K Murali Krishnan	Algorithms	FT
66	Subha Sreekumar	Dr.Lijiya A	Social Network Analysis	FT
67	Dakshinamurthy Gudipalli	Dr. K A Abdul Nazeer	Machine Learning	FT
68	Seema Yadav	Dr. Jay Prakash	Natural Language Processing	FT
69	Jasitha P	Dr. Pournami P N	Image Processing	FT
70	Rajitha Enugala	Dr. Anil Pinapati	Deep Learning with security	PT
71	Prabhu Prasad Dev	Dr. Pranesh DasDr. Raju Hazari	Machine Learning	PT
72	Jasheer Shihab.T.V	Dr. Pranesh DasDr. Raju Hazari	Machine Learning	FT
73	Ajvad HaneefK	Dr. Madhu Kumar S D	Data Analytics	FT
74	Arathy Menon.N.P	Dr. Pournami P N Dr. Jayaraj P B	Digital Image processing	FT
75	Manila M.V	Dr. Gopakumar G	Bioinformatics	QIP

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### a. Ph. Ds completed under Existing Scheme during the period

SL. NO.	NAME	GUIDE	AREA OF SPECIALIZATION	SCHEME (QIP/PART TIME/FULL TIME)
1	Hareesh V.	Bindya T. S.	DSP Architectures	Full Time
2	Deepak S	Ameer P M	Biomedical Image Processing	Full Time

3	Sangeetha U	A V BABU	Wireless Networks	QIP
4	Aswathi V	A V BABU	Wireless Networks	Full Time
5	Supriya Unnikrishnan	Sreelekha G	DSP Architectures	Full Time
6	Remya Jayachndran	Dhanaraj K. J.	Analog IC Design	Full Time
7	Baiju P S	Sudhish N George	Computer Vision	QIP
8	Aneesh M Koya	Deepthi P P	Wireless Body Area Network	Full Time
9	Najlah C. P.	Sameer S. M.	Wireless Communicatons	Visvesvaraya Ph.D. Fellowship
10	Athulya M S	Sathidevi P S	Forensic Speaker Recognition	Full Time

**b. On-going Ph. Ds under the Existing Scheme**

SL. NO.	NAME	GUIDE	AREA OF SPECIALIZATION	SCHEME (QIP/PART TIME/FULL TIME)
1	Sushi Anna George	Vinay Joseph	Optimization of Wireless Communication networks	Full time
2	P. Kopperundevi	M. Surya Prakash	VLSI Architectures for DSP Systems	Full time
3	Vidyamol K.	M. Surya Prakash	VLSI Architectures for DSP Systems	Part time
4	Naveen Jones	M. Surya Prakash	VLSI Architectures for DSP Systems	Full time
5	Shinimol Salim	Dr. Waquar Ahmad	Speech Signal Processing	Full Time
6	Nabeel Koya	Dr. Waquar Ahmad & Dr. Sudeep P. V.	Digital Forensics	Part Time
7	Anjana J.G	Venu Anand	Thin Film Transistor	Full Time
8	James Raja	Venu Anand and Lintu Rajan	Microfabrication process technology	Full time

9	Roshni Oommen	Aswathi R Nair	Semiconductor devices	Full time
10	Sreelekha K. R.	Bindiya T. S.	Multidimensional Filters	Full time
11	Tresa Joseph	Bindiya T. S.	Digital VLSI Design	Full time
12	Neeraja	Bindiya T.S and Raghu C. V.	VLSI implementation of DSP architectures	Full time
13	Sruthi P. V.	Bindiya T. S.	Digital VLSI Design	Full time
14	Jyoti Chowdary	Praveen Sankaran	Medical Image Processing	Full time
15	Shubhasree A. V.	Praveen Sankaran & Raghu CV	Wide area surveillance	Full time
16	Parvathi A K	V. Sakthivel	Multirate rate signal processing	Full Time
17	Sushmitha Sajeevu	V. Sakthivel	Multirate rate signal processing	Full Time
18	Bibina V C	V. Sakthivel	Biomedical Signal Processing	Full Time
19	Shameer	Lalit Kumar	Antenna	Full Time
20	Kumari Manisha	Lalit Kumar	Reconfigurable DRA	Part Time
21	Merlin Paul	Anup Aprem	Signal Processing	Full-Time
22	Anoop C V	Anup Aprem	Signal Processing	Full-Time
23	Reena M Roy	Ameer P M	Biomedical Image Processing	QIP
24	Nimitha U	Ameer P M	Biomedical Image Processing	Full Time

25	Nisanth A	SUJA K J	Energy Harvester	Part Time
26	Lekshmi M S	SUJA K J	Gas Sensor	Part Time
27	Akshaya M V	Suja K J	Bio sensor for CVD applications	Full Time
28	Nimi T	A V BABU	Wireless Networks	Full Time
29	Hema P P	A V BABU	Wireless Networks	Full Time
30	Renjith G	Raghu	Embedded System Design	Full Time
31	Harikishan Repala	Sudeep P V	Image enhancement using deep learning	Full Time
32	Remya Gopalakrishnan	Sudeep P V	Deep Learning for Image Processing and NLP	QIP (Poly)
33	Sukanya Ghosh	Lintu Rajan	Semiconductor devices	Full Time
34	Arjun Hari	Lintu Rajan	Semiconductor devices	Full Time
35	Divya R.S	Lintu Rajan, Suja K.J	Semiconductor devices	Part time
36	JEMSHI K.M	Sreelekha G, Sathidevi P S	Biomedical Image Processing	Full time
37	Saran K B	Sreelekha	Biomedical Image Processing	Part time
38	Jobin Francis	Sudhish N George	Machine Learning	Full Time
39	Nithin Thomas Abraham	Dhanaraj K. J.	Power Management IC Design	Full Time

40	Sasikiran Sudarshi	Gopikrishna Saramekala, Dhanaraj K. J.	Low Power Devices and Circuits	Full Time
41	Maleeha Abdul Azeez	Dhanaraj K.J.	Analog IC Design	Part Time
42	Subodh Raj M S	Sudhish N George	Computer Vision	Full Time (JRF)
43	Jithin Joseph	Sudhish N George	Image Processing	Full Time
44	Shanthini K S	Sudhish N George	Image Processing	Full Time (QIP)
45	Arathi Sankar P	Jayakumar E. P.	Image Processing	Full Time
46	Anuja George	Jayakumar E. P.	VLSI Design	Full Time (QIP)
47	Midde Venkata Siva	Jayakumar E.P.	VLSI Design	Full Time
48	Sarath S	Chandan YADAV	Semiconductor Devices	QIP (Poly)
49	Ramya N	Chandan YADAV	Semiconductor Devices	Full time
50	Sajeer M	Ashutosh Mishra	Image Processing	QIP
51	SHAREEFA FAIROOSE.P	Ashutosh Mishra	VLSI Architecture	Full Time
52	Jesy P	Deepthi P P	Index Coding	QIP
53	Sona Alex	Deepthi P P	Privacy Preserving Machine Learning	Full Time
54	Sreelakshmi P	Deepthi P P	Index Coding NOMA	Full Time
55	Prasanth Marri	Akhil P T	Energy optimization in networks	Full time



56	Muraleekrishna A. G.	Sameer S. M.	Wireless Communications	Full Time
57	Veena Narayanan	G Abhilash	Recovery Methods for Blind Compressive Sampled Signals	Full-time
58	Sandeep Moparthi	Gopi Krishna S	Low Power Devices and Circuits	Full Time
59	Ghazala Shakeel	Gopi Krishna S	Low Power Devices and Circuits	Full Time
60	Nithin G	Sathidevi P S & Ameer P.M	Biomedical Signal Processing	Full Time
61	Steffy Maria Joseph	Sathidevi P S	Biomedical Image Processing	Full Time

#### DEPARTMENT OF ELECTRICAL ENGINEERING

##### a. Ph. Ds completed under Existing Scheme during the period

S NO	NAME	GUIDE	AREA OF SPECIALIZATION	SCHEME (QIP/PART TIME/FULL TIME)
1	MINI V.	Dr. T K Sunil Kumar	Optimal Allocation and Coordinated Design of FACTS Devices for Reactive Power Management	Part Time
2	RAJASHREE RAGHAVAN	Dr. Susy Thomas	Model Predictive Controller Design for Multivariable Systems	Part Time
3	JINEETH JOSEPH	Dr. Sindhu T K	Development Of Condition Assessment Methodologies for Underground Cables Based on Measurement of Impedance, Partial Discharge and Electromagnetic Signals	Full Time
4	ANJANA K G	Dr. Mukti Barai	An Optimized Hybrid PWM Method for Five-Level NPC Inverter with Unequal DC-Links Fed by DPP Based PV System	Full Time
5	ANJALI ANAND K	Dr. Jagadanand G, Dr. Saly	Generalised Open Switch Fault Diagnosis of	Full Time

		George	Cascaded H Bridge Multilevel Inverter	
6	MUTHAVARAPU ASWINI KUMAR	Dr. Mukti Barai	Design Space Exploration of Capacitor Voltage Balancing and Modulation Method for Modular Multilevel Converters	Full Time
7	AVINASH NELSON A	Dr. Preetha P, Dr. Sunitha K	Interphase Characterization of Epoxy Alumina Nanocomposites	Full Time
8	BINU KRISHNAN U	Dr. Mija S J, Dr. Elizabeth P Cheriyan	Design, Optimization and Analysis of Stability Improvement Schemes for Droop Controlled Microgrid	Full Time
9	MEGHA G KRISHNAN	Dr. Ashok S	Predictive Control Strategies for Image-Based Visual Servoing of 6-DOF Industrial Robot	Full Time
10	HEMARANI P	Dr. Saly George, Dr. Ashok S	Controllers For Multi Input and Multi Output DC to DC Converter for Renewable Energy Sources Integration	Part Time
11	FEMI THOMAS	Dr. Mija S J	Design of Robust Control Schemes for Small-Scale Unmanned Helicopter During Hover/Near-Hover Flight	Full Time
12	LEKSHMI MOHAN	Dr. Sunitha K, Dr. Sindhu T K	Development of Light Weight Carbon Based Epoxy Nanocomposite for Broadband EMI Shielding in the X And Ku Bands	QIP
13	BISWAJIT DEBNATH	Dr. Mija S J	Design of Emotional Learning Based Control Schemes for MIMO Systems Under Uncertainties and Disturbances	Full Time

**b. On-going Ph. Ds under the Existing Scheme**

SL. NO.	NAME	GUIDE	AREA OF SPECIALIZATION	SCHEME
				(QIP/PART TIME/FULL TIME)
1	M J LALY	Dr. Sunitha R, Dr. Elizabeth P Cheriyan	Control Applications in Power System	QIP
2	JINO M PATTERY	Dr. Elizabeth P. Cheriyan, Dr. Rijil	Power Systems	Part Time
3	SIGI C JOSEPH	Dr. Ashok S	Microgrid	External
4	JOSEPH P VARGHESE	Dr. Ashok S, Dr. Kumaravel S	Power Systems Engineering	Part Time
5	JAYAKRISHNAN S R	Dr. Elizabeth P Cheriyan, Dr. Sindhu T. K.	Power Systems	Part Time
6	ATHIRA RAJU	Dr. Elizabeth P Cheriyan, Dr. Rijil Ramchand	Power System	Full Time
7	SUBHASH K M	Dr. Paul Joseph K	Biomedical Signal Processing	Internal
8	NIDYA M V	Dr. Jeevamma Jacob, Dr. Mija S J	Modelling and Control of 3 Dof Helicopter	Full Time
9	GRACE SADHANAS	Dr. Ashok S, Dr. Kumaravel S	Power Systems Engineering	Part Time
10	MOHAMMED SHAFI KP	Dr. Rijil Ramchand	Power Electronics	Part Time
11	VIDYA. M.S	Dr. Sunitha K, Dr. Ashok S	High Voltage Engineering	Part Time
12	JANESH N. M	Dr. Ashok S, Dr. Kumaravel S	Wind Energy Engineering	Part Time
13	SUBIN KOSHY	Dr. Sunitha R	Wide Area Measurement Based Security Assessment for Smart	Full Time

14	HARITHA G	Dr. Ashok S, Dr. Kumaravel S	Renewable Energy Integration	Full Time
15	PRAVIKA M	Dr. Paul Joseph K, Dr. Jeevamma Jacob	Control Applications in Biomedical Engineering	Full Time
16	EMMANUEL BABU P.	Dr. Kumaravel S.	Power Electronics	Part Time
17	PRIYALAKSHMI S	Dr. Subha D P	Bio Signal Processing	Full Time
18	SAUGATO DEY	Dr. T.K. Sunil Kumar, Dr. Ashok S	Control System	Part Time
19	JOYCE JACOB	Dr. Preetha P, Dr. Sindhu T K	Liquid Nano Dielectrics	Full Time
20	RAHUL S	Dr. Sunitha R	Power System	Full Time
21	SURYA D	Dr. Subha D P	Biomedical Signal Processing	Full Time
22	JACOB P VARGHESE	Dr. Preetha P, Dr. Sunitha R	High Voltage Engineering	Full Time
23	EMIL NINAN SKARIAH	Dr. Sindhu T. K.	High Voltage Engineering	Full Time
24	RINSHA V	Dr. Jagadanand G	Power Electronics	Full Time
25	T S BHEEMRAJ	Dr. V Karthikeyan, Dr. Kumaravel S	Power Electronics	Full Time
26	PRIYANKA C. P.	Dr. Jagadanand G	Power Electronics	Full Time
27	LAKSHMI THARAMAL	Dr. Preetha P, Dr. Sindhu T K	High Voltage Engineering	Full Time
28	NAJDA V M	Dr. Gopakumar P, Dr. Sunitha R	Power Systems	Full Time

29	ANJITHA V	Dr. Sunitha K	High Voltage Engineering	Full Time
30	RENUKA V. S.	Dr. Nikhil Sasidharan	Power Electronics and Control	Full Time
31	NITHIN S. NAIR	Dr. Jagadanand G	Power Electronics	Full Time
32	REEMA. N	Dr. Jagadanand, Dr. Nikhil Sasidharan	Power Electronics	Full Time
33	SANILA P	Dr. Rijil Ramchand, Dr. Jeevamma Jacob	Instrumentation And Control Systems	Full Time
34	MUTHUKUMARI S	Dr. S. Kanagalakshmi, Dr. T. K. Sunil	Power System and Control	Full Time
35	DILKUMAR T R	Dr. Mija S J	Control System	Full Time
36	SHEETAL CYRIAC	Dr. Rijil Ramchand	Power Electronics	Full Time
37	SHIFA H RAHMAN	Dr. Jagadanand G, Dr. Shreelakshmi M. P.	Power Electronics	Full Time
38	R AKHIL RAJ	Dr. Saly George, Dr. Shreelakshmi M. P.	Power Electronics	Full Time
39	SONY MG	Dr. Deepak M, Dr Abraham T. Mathew	Power System	Part Time
40	MUHAMED JISHAD T K	Dr. M Sanjay	Biosignal Processing and Instrumentation	Full Time
41	V SESHAGIRI RAO	Dr. Kumaravel S	Power Electronics	Full Time
42	B KRISHNA	Dr. Karthikeyan V	Power Electronics	Full Time
43	RESMI R	Dr. Mija S J, Dr. Jeevamma Jacob	Consensus Control of Multi Agent System	QIP

44	T P VISHNU	Dr. Gopakumar P, Dr. Sunitha R	Power System	Full Time
45	NOORUL HAQUE M	Dr. Sunitha K.	High Voltage Engineering	Full Time
46	DEEPU E KOSHY	Dr. Sindhu T K	High Voltage Engineering	Full Time
47	KANNAN S A	Dr. Jagadanand G, Dr. Nikhil Sasidharan	Power Electronics	Full Time
48	FRIEDA MOHAN	Dr. Nikhil Sasidharan	Power Electronics	QIP
49	SHILPI M	Dr. Rijil Ramchand, Dr. Shreelakshmi M. P.	Power Electronics	QIP
50	SIJA GOPINATHAN	Dr. Kumaravel S.	Power Electronics	QIP
51	DEEPAK V DEV	Dr. Arun Neelimegham, Dr. Shreelakshmi M. P.	Instrumentation And Control Systems	Full Time
52	SWATHI KRISHNA	Dr. Deepak M, Dr. Sunitha R	Power Systems	Full Time
53	LAVANYA PRADEEP	Dr. Nasirul Haque, Dr. Preetha P	High Voltage Engineering	Full Time
54	ANJU M	Dr. Shihabudheen K V, Dr. Mija S J	Power Systems	Full Time
55	SHAHIN A	Dr. Shreelakshmi M. P., Dr. Rijil Ramesh	Power Electronics	Full Time
56	SHILPA RAJAN	Dr. Nikhil Sasidharan	Power Electronics	Part Time
57	MEKHANA SURESH	Dr. T.K. Sunil Kumar	Instrumentation And Control Systems	Full Time
58	DILEEP K	Dr. Mija S J, Dr. Arun Neelimegham	Instrumentation And Control Systems	Full Time

59	SUNIL V CHANDRAN	Dr. Deepak M	Power Systems	Full Time
60	AADIL JAMSHED	Dr. Nasirul Haque	High Voltage Engineering	Full Time
61	ANSIL NAZAR	Dr. Sanjay M	Instrumentation And Control Systems	Full Time
62	VYSAGH T	Dr. Kumaravel S	Power Electronics	Full Time
63	MAHI TEJA TALLURI	Dr. V. Karthikeyan	Power Electronics	Full Time
64	SMITHA JOSEPH	Dr. Nikhil Sasidharan	Power Electronics	QIP
65	JYOTHIS SEBASTIAN	Dr. Shihabudheen K.V.	Instrumentation And Control Systems	Full time
66	ASHIMA C R	Dr. Kanagalakshmi S.	Instrumentation And Control Systems	Full Time
67	ANNA BABY	Dr. Nasirul Haque, Dr. Preetha P	High Voltage Engineering	Part Time
68	NITHIN T	Dr. Nikhil Sasidharan	Power Electronics	Part Time
69	ANJANA M P	Dr. Kumaravel S	Power Electronics	Part Time
70	DAMODARAN B K	Dr. T.K. Sunil Kumar	Control and Robotics	

**c. Proposed Ph.D. programmes**

The Department of Electrical Engineering has admitted PhD candidates under the Full-Time Self-Sponsored and External category from the academic year 2022-23 onwards.

**DEPARTEMENT OF MATHAMATICS**

**a. Ph. Ds completed under Existing Scheme**

SL. NO.	NAME	GUIDE	AREA OF SPECIALIZATION	SCHEME (QIP/PART TIME/FULL TIME)
1.	Nitha Niralda P C	Dr. Sunil Mathew	A Study on Boundaries of Attractors in Iterated Function Systems	PT
2.	Bibin Mathew	Dr. Sunil Jacob John	Hybrid Structures involving Rough Sets	FT
3.	A V Prajeesh	Dr. Krishnan Paramasivam	Partial Solutions to Certain Graph Labeling Open Problems	FT
4.	Soorya T E	Dr. Sunil Mathew	Structural Properties of Super Strongly Perfect Graphs	FT
5.	Suma P	Dr. Sunil Jacob John	Multisets	PT

6.	Jahfar T K	Dr.Chithra A V	On Spectra and Energies of Certain Graphs	PT
7.	Rajish Kumar P	Dr. Sunil Jacob John	Multiset topology	PT
8.	Athira TM	Dr. Sunil Jacob John	Pythagorean fuzzy and soft sets	FT
9.	Mithun A T	Dr.Lineesh M C	Standard Pairs and Construction of Symmetric and Compactly Supported Multiwavelets	PT

**b. On-going Ph. Ds under the Existing Scheme**



SL. NO.	NAME	GUIDE	AREA OF SPECIALIZATION	SCHEME (QIP/PART TIME/FULL TIME)
1.	Riyasudheen T K	Dr. Ashish Awasthi	Computational Finance	FT
2.	Rabeeb Ali V P	Dr. Ashish Awasthi	Moving Boundary and NSFD	PT
3.	Sreelakshmi A	Dr. Ashish Awasthi	Adaptive Numerical Methods for 2D PDEs	FT
4.	Shyaman V P	Dr. Ashish Awasthi	Finite Point Methods for one Dimensional PDE	FT
5.	Neena A S	Dr. Ashish Awasthi	Numerical Methods for FPEs	FT
6.	Sangeetha C	Dr. Ashish Awasthi	Two Parameters Problems	PT
7.	Sherin Jose T	Dr. Satyananda Panda	Thin Liquid Film	PT
8.	Deepak P Nair	Dr. Satyananda Panda	Composite Materials	PT

9.	Suresh Reddy	Dr. Satyananda Panda	Natural Convection Flow	PT
10.	Abraham Sam Varghese	Dr. Satyananda Panda	Stability Analysis of Thin Liquid Film	PT
11.	Mahesh T	Dr. Satyananda Panda	Fluid Mechanics	FT

12.	Najiya V K	Dr. Chithra A V	Spectral Graph Theory	FT
13.	Haritha T	Dr. Chithra A V	Spectral Graph Theory	FT
14.	Jamsheena P	Dr. Chithra A V	Algebraic Graph Theory	PT
15.	Rasmi K	Dr. M J Jacob	Queuing Theory	FT
16.	Aby Jose	Dr. Lineesh M C	Time Series Analysis	FT(CSIR)
17.	Sameer Poongadan	Dr. Lineesh M C	Time Series Analysis	PT
18.	Pallavi K	Dr. Lineesh M C	Wavelet Theory	FT
19.	Athira N	Dr. Lineesh M C	Wavelet Theory	FT
20.	Ashlyn Maria Mathai	Dr. Mahesh Kumar	Acceptance Sampling Plans	FT
21.	Sruthi K	Dr. Mahesh Kumar	Fuzzy Reliability	FT
22.	Julia Thomas	Dr. Mahesh Kumar	Reliability of Supply Chain Managements	FT
23.	Aswathi K P	Dr Mahesh Kumar	Reliability Estimation	FT
24.	Tamil Selvan T	Dr. Maheh Kumar	Estimation problems in epidemiology	FT
25.	Muhammed SabeelK	Dr. Krishnan Paramasivam	Graph Theory and Commutative Algebra	PT

26.	Sobin Thomas	Dr. Suresh Kumar Nadupuri	Numerical Analysis	FT
27.	Fathima Perveen	Dr. Sunil Jacob John	Soft Sets	PT
28.	Aparna Sivadas	Dr. Sunil Jacob John	Q rung orthopair sets	FT
29.	Salsabeela V	Dr. Sunil Jacob John	Topsis Methods	PT
30.	Archana Babu	Dr. Sunil Jacob John	Algebraic Topology	FT
31.	Aiswarya Paul	Dr. Sunil Jacob John	Type 2 fuzzy sets	PT
32.	Aysha Hadya	Dr. Sushama C M	Data Envelopment Analysis	PT
33.	Bhanupriya C K	Dr. Sunitha M S	Graph Theory	PT
34.	Swathi V V	Dr. Sunitha M S	Graph Theory	FT
35.	Kavya R Nair	Dr. Sunitha M S	Fuzzy Graph Theory	FT
36.	Saleena A J	Dr. Jessy John C	Time Series Modelling and Applications to Inventory Management	PT
37.	Arya S	Dr. Sunil Mathew	Fuzzy graph Theory	FT
38.	Jose Mathew	Dr. Sunil Mathew	Fractal geometry	PT
39.	Gayathri G	Dr. Sunil Mathew	Fuzzy Graph Theory	FT
40.	Anntresa Josy	Dr. Sunil Mathew	Fuzzy graph Theory	FT
41.	Yasser K T	Dr. Sanjay P K	Harmonic Analysis	FT

42.	Anjaly Anand	Dr. Tamal Pramanick	Finite element method	FT
43.	Maria Robert	Dr. Suresh Kumar Nadupuri	Numerical analysis and Scientific computing	FT
44.	Aswathy Satheesh	Dr. Satyananda Panda	Shallow Water Equations	FT

## DEPARTMENT OF MECHANICAL ENGINEERING

### a. Ph. Ds completed under Existing Scheme during the period

SL. NO.	NAME	GUIDE	AREA OF SPECIALIZATION	SCHEME (QIP/PART TIME/FULL TIME)
1	Dr. Akhil V M, P150058ME	Dr P.K. Rajendrakumar & Dr K.S. Sivanandan	Design, development and control of a pneumatically activated human locomotion system	FT
2	Dr. Ambika P S, P140011ME	Dr. P K Rajendrakumar Dr. Rijil Ramchand	Remaining useful life prediction of rolling element bearings using artificial intelligence	FT
3	Dr. Derick Abraham, P140080ME	Dr. Biju T. Kuzhiveli	Analysis and design of coaxial type inertance pulse tube cryocoolers with electro-magnetically driven linear resonating compressor	FT
4	Dr. Jiju V Elias, P160002ME	Dr. Jose Mathew	Investigations on improving the machining performances in micro turning of ti-6al-4v	FT
5	Dr. Eby David, P110030ME	Dr. R. Manu	Investigation into grinding of al/sicp metal matrix composites and development of an intelligent grinding advisory system	FT→PT
6	Dr. Rajesh Kana S, P130054ME	Dr. A Shaija	Experimental investigations of biodiesel from waste avocado and its diesel blends as a fuel in diesel engines	FT→PT

7	Dr. Shaiju M.R., P110091ME	Dr. ARUN.P & DR. S. JAYARAJ	Performance analysis and diagnosis of industrial gas turbine systems using ANN	FT
8	Dr. Mervin Joe Thomas, P170047ME	Dr M L Joy, Dr A P Sudheer	Development of a six degree of freedom parallel manipulator for contactless applications	FT
9	Dr. Jobin M V, P110076ME	Dr. T. RADHA RAMANAN & DR. R. SRIDHARAN	Modelling and analysis of implementation of lean manufacturing	FT
10	Dr. Anand Krishnan N, P160001ME	Dr. Jose Mathew	Modelling and experimental investigation on micro endmilling of inconel 718	FT
11	Dr. Remil George Thomas, P110056ME	Dr. R. Manu & Dr. Deepak Lawrence K.	Feature recognition from step ap 242 file for computer aided fixture design of prismatic parts	FT
12	Dr. Rakesh Erappa Jinaga, P160037ME	Dr.Jagadeesha T	Synthesis of Organic Oils Blended Magnetorheological Fluids and their Application in Braking System	FT
13	Dr. Gowthaman, P170099ME	Dr. Jagadeesha T	Experimental investigation on the effect of tool nomenclature and machining conditions on the machining and material behavior during end milling of nimonic 263 alloy	FT
14	Dr. Rahul S Arackal	Dr. T.J. Sarvoththama Jothi	Effect of plate length and surface roughness on the flow and aeroacoustic characteristics of wall jets	FT

**b. On-going Ph. Ds under the Existing Scheme**

SL. NO.	NAME	GUIDE	AREA OF SPECIALIZATION	SCHEME (QIP/PART TIME/FULL TIME)
1	Mr. Pramod A	Dr. Deepak Lawrence K Dr.Jose Mathew	Multi-Sensor Data fusion in Milling and Digital Twin	FT
2	Mr. Allan George	Dr. Dhanish P B Dr.Jose Mathew	Machining of Difficult to cut materials by CNC Turning	FT

3	Mr. Jayaram C Sasi	Dr. Jose Mathew	Machining of difficult to cut materials	FT
4	Mr. Ashik Suresh	Dr. Dhanish P B	Manufacturing Sciences	FT
5	Mr. Asif Ali Shereef	Dr. Dhanish P B	Manufacturing sciences	FT
6	Mr. Remil George Thomas	R. Manu Deepak Lawrence K	Smart Manufacturing	PT
7	Mr. Arirajan K A	R Manu, Deepak Lawrence K	Additive Manufacturing	FT
8	Mr. Vasantha Kumar	Dr. K sekhar	AA7075 Alloy and Composites	FT
9	Mr. P. Azhagarsamy	Dr. K Sekhar Dr. Murali K P	Ni and Al Composites by Additive Manufacturing	FT
10	Mr. S. Sathyaraj	Dr. K sekhar	Polymer composites	FT
11	Mr. Mohan raj	Dr. K sekhar	High entropy alloy and composites	FT
12	Mr. Anoop Pillai	Dr. Vineesh K P , Dr. Jayadeep	Residual stress during welding	FT
13	Mr. Vineesh Vishnu	Dr. Vineesh K P	Additive manufacturing	FT
14	Mr. Jino Joshy	Dr. Basil Kuriachen	Additive Manufacturing	FT
15	Mr. Renju Mohan	Dr. R Manu, Dr Jayadeep U B	Friction Stir Welding	PT
16	Mr. Irshad K T	Dr. R Manu	Friction Stir Welding	FT
17	Mr. Jithin Velayhdhan, P170020ME	Dr. Ashesh Saha, Dr. M D Narayanan	Nonlinear Vibrations	FT
18	Mr. Amit Malgol, P180103ME	Dr. Ashesh Saha, Dr. Vineesh K P	Nonlinear Vibrations	FT
19	Mr. Prakash T, P190027ME	Dr. Ashesh Saha, Dr. M D Narayanan	Nonlinear Vibrations	FT
20	Mr. Nithin PS, P190149ME	Dr. Ashesh Saha	Friction Modelling	FT

21	Mr. Sreekuttan S, P200103ME	Dr. Ashesh Saha	Frictional Damping	FT
22	Mr. Aju Zachariah Mani	Dr Jaydeep	Studies on Nanocoated Surfaces	PT
23	Mr. Sreesastha Ram T R	Dr Jaydeep	Computational Modeling of Adhesion	FT
24	Mr. Madhu A K	Dr Jaydeep, Prof. C.B Sobhan	Molecular Studies on Nanofluids	PT
25	Mr. Anoop A Pillai	Dr Jaydeep, Dr. Vineesh K P	Residual Stresses in Welding	FT
26	Mr. Arun Prabhakar	Dr Jaydeep, Dr. R. Ramaseshan, IGCAR	Studies on Nanocoated Surfaces	FT
27	Mr. Rojin Mathews	Dr JAYADEEP, Dr. Soney Varghese	Studies on Effect of Adhesion on AFM Cantilever Dynamics	QIP
28	Mr. Navaneeth M G	Dr M L Joy, Dr A P Sudheer	Robotics	FT
29	Mr. Eldose K K	Dr. R. Sridharan, Dr Ratnakumar K	Industrial Engineering	PT
30	Mr. Ranjit B Nair	Dr Ratnakumar K Dr. R Sridharan	Industrial Engineering	FT
31	Mr. Raj Kumar G	Dr Ratnakumar K	Industrial Engineering	PT
32	Mr. Alok Kumar Samanta	Dr Varaprasad	Lean Six Sigma	FT
33	Mr. Vishnu Lal	Dr Varaprasad	Service Quality	FT
34	Mr. Navin Mathew	Dr Varaprasad	Consumer Behavior	FT
35	Mr. Alex Bernard	Dr Varaprasad	Ergonomics	PT
36	Mr. Ajyuk J Raj (P130086ME)	Dr Vinay V. Panicker, Dr. R. Sridharan	Integrated Airline Scheduling	FT
37	Mr. Francis J. Emmatty (P170002ME)	Dr Vinay V. Panicker	Ergonomic assessment of occupational hazards and interventions for waste collection/sorting tasks	QIP
38	Mr. Giridhar M.P. (P190060ME)	Dr Vinay V. Panicker	Evaluation of workplace environment: a cognitive ergonomics approach	FT
39	Mr. Abi Varghese (P190099ME)	Dr Vinay V. Panicker	Assessment of ergonomic interventions associated with natural rubber (latex) harvesting	PT

40	Mr. Arun Thomas (P200090ME)	Dr Vinay V. Panicker	Modelling and analysis of disruptions in Supply chain	FT
41	Mr. Kiran Mohan	V. Madhusudanan Pillai, Dr. Arun C.	Ergonomic Evaluation of Agricultural Implements Used in MGNREGA Works	FT
42	Mr. Dony S Kurian	V. Madhusudanan Pillai	Machine Learning in Supply Chain Management	FT
43	Mr. Justin Sunny	V. Madhusudanan Pillai	Blockchain in Supply Chain Management	FT
44	Mr. Vijay S	V. Madhusudanan Pillai	Machine learning and Artificial Intelligence in Maintenance	FT
45	Mr. Jobin M V	Dr R Sridharan, Dr. T. Radha Ramanan	Industrial Engineering	PT
46	Mr. Muhammed Hunize C V	Dr Murali K P, Dr. M. A. Joseph	Electronic Materials	FT
47	Mr. Jacob	Dr Murali K P	Electronic Materials	FT
48	Mr. Suraj P	Dr. Arun P, Dr. C Muraleedharan	Biomass gasification	FT
49	Mr. Bijesh R	Dr. Arun P, Dr. C Muraleedharan	Biomass gasification	QIP
50	Mr. Shaiju M R	Dr. Arun P, Dr. S Jayaraj	Gas turbine systems	PT
51	Mr. Muhammed Niyas M (P170049ME)	Dr. A Shaija	Investigation of Waste cooking oil biodiesel as an alternative fuel for diesel engine	FT
52	Mr. Milan K John (P180034ME)	C Muraleedharan, Rohinikmar B	Solar Drying	FT
53	Mr. Unnikrishnan KS (P180108ME)	Rohinikumar B	Heat Transfer applications	FT
54	Vikas V K	Dr. Muraleedharn C	Clear room air conditioning	QIP
55	Mr. M Ijas Ahmed	Gangadhara Kiran Kumar L	Design and Development of Energy Efficient Building with Emphasis on LDAC	FT
56	Mr. Ramesh Krishnan L	Gangadhara Kiran Kumar L	Underfloor Air Distribution System: Assessment of indoor environmental quality and Energy Saving Potential.	FT



58	Mr. A Bakhirathan	Gangadhara Kiran Kumar L	Thermal management using micro heat pipes	FT
59	Mr. Vignesh R	Gangadhara Kiran Kumar L	Design and Development of Energy Efficient Drying System	FT
60	Mr. C. Ganesh	Dr. P.V. Manu	Alternate Fuels & Combustion	FT
61	Mr. Inbaoli A	Dr. Sujith Kumar C.S., Dr. S. Jayaraj	Two Phase Heat Transfer	FT
62	Mr. Ashish Chandran	Dr. Sujith Kumar C.S.	Desalination	FT
63	Mr. Rakesh A.	Dr. Sujith Kumar C.S.	Two Phase Heat Transfer	FT
64	Mr. Sharath babu	Dr. Srinu Gangolu, Prof. M.A. Joseph	Materials Science	FT
65	Mr. Kalaiselvan	Dr. Srinu Gangolu, Prof. M.A. Joseph	Surface Coatings	FT
66	Mr. Shaikh Javed Sikandar	Dr. Saleel Ismail	Solar desalination	FT
67	Mr. Alos James	Dr. M Srinivas, Dr. S Jayaraj	Thermal Science	FT
68	Mr. Sumesh CK	Dr. T. J. S. Jothi	Aerodynamic noise from Airfoil	QIP
69	Mr. Arun MG	Dr. T. J. S. Jothi	Aerodynamic noise from bluff bodies	FT
70	Mr. Nidheesh Narayanan	Dr. T. J. S. Jothi	Flame propagation studies	FT
71	Mr. Mukul Joseph	Dr. T. J. Sarvoththama Jothi, Dr. Saleel Ismail	Combustion in IC engines	FT
72	Mr. Nikhil Babu P	Dr. T. J. Sarvoththama Jothi, Dr. A.V. Ramesh Kumar (NPOL)	Cavitation acoustics	FT
73	Mr. Akhil V.M.	Dr P.K. Rajendrakumar, Dr K.S. Sivanandan (EED) (Retired)	Biomechanics	FT

74	Mr. Ambika P.S.	Dr P.K. Rajendrakumar, Dr Rijil Ramchand (EED)	Bearing Life Prediction	FT
75	Mr. Ajith Kurian Baby	Dr. Deepak Lawrence K, Dr. P.K. RajendraKumar	Metrology/Tribology	FT
76	Mr. Sreesankar K K	Dr. Simon Peter	CFD	FT
77	Mr. Vishnu S.B. (Thesis submission stage)	Dr. Biju T. Kuzhiveli	Thermal Stratification studies in Cryogenic tanks for space and ground application	FT
78	Mr. Subramani N. (Open presentation stage)	Dr. Biju T. Kuzhiveli	Thermal and performance aspects of Modern Refrigerator with Nano additives	FT
79	Ms. ARCHANA B SURESH	Dr. Biju T. Kuzhiveli	Free piston stirling	FT
80	SOURABH THOMSON	Dr. Devendra K. Yadav	IEM	FT
81	SOORAJ SUKUMAR K	Dr. K Ratna Kumar Dr. Sudheer A P	IEM	FT
82	GEORGE THOMAS	Dr. Deepak Lawrence K	MT	FT
83	AJAY KUMAR P V	Dr. M Srinivas	TS	FT
84	MOHAN RAJ A	Dr. Srinu Gangolu, Dr.Jinu Paul	MST	FT
85	B SIBIN	Dr. K Sekar	MST	FT
86	MANEESH KUMAR P V	Jagadeesha T	Manufacturing	FT
87	VINODKUMAR H P	Dr. Rajendrakumar P.K Dr. Sudheer A P	MD	PT
88	MUHAMMED BILAVEL KHAISE	Dr. Sandip Rudha Budhe	MD	PT

89	SUDHANSHU NARTAM	Dr. Jinu Paul Dr. Sandip Rudha Budhe	MT	FT
90	Ms. PRAJINA N V	Dr. Basil Kuriachen Dr. Jose Mathew	Electric Discharge Turning	QIP
91	EBIN MATHEW	Dr R Sridharan	IEM	
92	VISHNU S	Dr. Basil Kuriachen/ Dr. Jose Mathew	MT	
93	VIVEK BABU	Dr. jinu Paul	MST	
94	SUTHEESH P M	Dr. Rohinikumar B	TS	
95	ANWER SHAHIR E	Dr G. Varaprasad	Consumer Behaviour	FT
96	HARISH ABUBAKER	Dr. Saleel Ismail	TS	PT
97	SANDEEP O S	Dr. Basil Kuriachen	MT	PT

## DEPARTMENT OF PHYSICS

### a. On-going Ph. Ds under the Existing Scheme

SL. NO.	NAME	GUIDE	AREA OF SPECIALIZATION	SCHEME (QIP/PART TIME/FULL TIME)
1	Pratheek Mekkat	Dr. P. Predeep	Organic electronics	Full Time
2	Saranya Babu	Dr. P Predeep	Organic electronics	Part Time
3	Vasudevan	Dr. Chandrasekharan	Nonlinear Optics	Part Time
4	Nikhil P. P	Dr. Chandrasekharan	Nonlinear Optics (Photonic Crystals)	Full Time
5	Amarnath K. P	Dr. Chandrasekharan	Nonlinear Optics	Part Time
6	Arun R	Dr. M. K. Ravi Varma	Instrumentation for Air Quality Monitoring	Full Time
7	Aiswarya	Dr. M.K. Ravi Varma	Spectroscopic Instrumentation for Optical Sensing	Full Time
8	Anoop P	Dr. M. K. Ravi Varma	Spectroscopic Study of Trace Gases and Aerosols	Full Time
9	Suhail K	Dr. M. K. Ravi Varma		Full Time
10	Bijoy N	Dr. Raghu Chatanathodi	Computational Material Science- Organic Spintronic	Full Time

11	Aparna M	Dr. Raghu Chatanathodi	Computational Material Science	Full Time
12	MUHAMMED FASIL	Dr. Raghu Chatanathodi	Computational Material Science	Full Time
13	Anupama M	Aji A. Anappara	Condensed Matter Physics/ Material Science	Part Time
14	Swathi V.M.	Aji A. Anappara	Condensed Matter Physics/Material Science	Full Time
15	Christy Antony	Aji A. Anappara	Condensed Matter Physics/Material Science	Full Time
16	Varsha Sharma	Aji A. Anappara	Condensed Matter Physics/Material Science	Full Time
17	Santhi Krishna	Dr. Madhavan Unni	Critical Point Phenomena and Phase Transition	Part Time
18	Naseer A. P	Dr. Madhavan Unni	Critical Point Phenomena and Phase Transition	Full Time
19	Abhijith T	Dr. Vari Sivaji Reddy	Organic Electronics and Photovoltaics	Full Time
20	Anoop C S	Dr. Vari Sivaji Reddy	Polymer Solar Cells	Full Time
21	Bassam S. A	Dr. Suchand Sangeeth		Part Time
22	Jaismon Francis	Dr. Suchand Sangeeth	Organic Semiconductors	Full Time
23	Safna Banu K	Dr .Ram Ajor Maurya	Solar Astrophysics	Full Time
24	Jain Jacob P. T	Dr. Ram Ajor Maurya	Solar Astrophysics	Full Time
25	Manjusha E	Dr. Maneesh Chandran	Diamond	Full Time
26	ABHINAV T	Dr Goutam Kumar Chandra	Green semiconductors and its applications	Full Time
27	Harsha Haridas E S	Dr Goutam Kumar Chandra	Detection of biomolecules by spectroscopic method	Full Time
28	AMRUTHA S	Dr Goutam Kumar Chandra	Spectroscopic Analysis of Catalyst and it's Environmental Applications	Full Time
29	Ms. Harsha Haridas E. S.	Dr. Goutam Kumar Chandra	Detection of Biomolecules by Spectroscopic Method	Full Time
30	Anjali S	Dr .Saurabh Gupta	Quantum Field Theory	Full Time
31	Ms. Ansha S Nair	Dr. Saurabh Gupta	Quantum Field Theory	Full Time
32	Nabeel N. A	Dr. Aswathi. G	Material Science and Nanotechnology	Full Time
33	Lekshmi B. S	Dr. Subramanyan Namboodiri Varanakkottu	Interface Science	Full Time

## DEPARTMENT OF SCHOOL OF BIOTECHNOLOGY

### a. Ph. Ds completed under Existing Scheme during the period

SL. NO.	NAME	GUIDE	AREA OF SPECIALIZATION	SCHEME (QIP/PART TIME/FULL TIME)
1	Aswani T	Dr. Suchithra T.V	Microbiology-Antibiotic development	Full Time
2	Shabeeba M Ashraf	Dr. Rathinasamy K	Exploration of mitotic poisons from plants	Full time
3	Sushoban Mahanty	Dr. Rathinasamy K	In silico and In vitro	Full time
4	Jomon Sebastian	Dr. Rathinasamy K	Small molecule inhibitors targeting cell division	Full time
5	T Sharmila Raj	Dr. Aswati R Nair Dr. Shiny Joseph	Plant Biotechnology	Full time
6	Ankita Dube	Dr Md Anaul Kabir	Biotechnology	Full time
7	Dileep Pullepu	Dr Md Anaul Kabir	Biotechnology	Full time
8	Darshan Rajesh Dhabalia	Dr Md Anaul Kabir	Biotechnology	Full time
9	Wasim Uddin	Dr Md Anaul Kabir	Biotechnology	Full time
10	Jyotirekha Das	Dr. Rajanikant G.K	Bionformatics	Full time
11	Soumiya S	Dr. Santhiagu A	Bioprocess	Full time
12	Yuvaraj	Dr. Santhiagu A	Pharmacology	Full time

### b. On-going Ph. Ds under the Existing Scheme

SL. NO.	NAME	GUIDE	AREA OF SPECIALIZATION	SCHEME (QIP/PART TIME/FULL TIME)
1	Reshmi Sasi	Dr. Suchithra T.V	Microbial bioprospecting	Full Time
2	Benu George	Dr. Suchithra T.V	Microbial bioprospecting	Full Time
3	Remya Ravindren	Dr. Suchithra T.V	Microbial bioprospecting	External
4	Serin Zachariah	Dr. Suchithra T.V	Microbial bioprospecting	Full Time
5	Pooja S	Dr. Suchithra T.V	Microbial bioprospecting	Full Time
6	Ilshadsabha	Dr. Suchithra T.V	Microbial bioprospecting	Part Time
7	Babitha Benjamin(CED)	Dr. Suchithra T.V (Co- guide)	Microbial bioprospecting	Full Time
8	Kavya Vinod	Dr. Rathinasamy K	Anticancer drug molecules from plabts	Full Time
9	Ayswarya Mukharjee	Dr. Rathinasamy K	Small molecule inhibitors targeting cancer cells	Full time
10	S M Udaya Prakash	Dr Md Anaul Kabir	Biotechnology	Full time

11	Andrila Majumdar	Dr Md Anaul Kabir	Biotechnology	Full time
12	Sanu Thankachan	Dr Suresh PS	Cancer Biology	Full time
13	Kalyani Bhardwaj	Dr. Suresh PS	Cancer Biology	Full time
14	Akash Karthikeyan	Dr. Baiju G Nair	Bioengineering	Full time
15	Abey Joseph	Dr. Baiju G Nair	Bio-nano engineering	Full time
16	Nigina	Dr. Baiju G Nair	Bio-nano engineering	Full time
17	Sijo Joy	Dr. Baiju G Nair	Bio nano engineering	Part time
18	Gokul S	Dr. Rajanikant G.K	Bionformatics	Full time
19	Neelakandan A R	Dr. Rajanikant G.K	Bionformatics	Full time
20	Navami Krishna	Dr. Rajanikant G.K	Bionformatics	Full time
21	Sijina KP	Dr. Rajanikant G.K	Bionformatics	Full time
22	Lubna M A	Dr. Rajanikant G.K	Bionformatics	Full time
23	Arun Jyotish	Dr. Rajanikant G.K	Bionformatics	Part time
24	Vivas Salim	Dr. Rajanikant G.K	Bionformatics	Part time
25	Mr. Shahid P	Dr. Tom Skaria	Immunology	Full time

## DEPARTMENT OF SCHOOL OF MATERIAL SCIENCE

### a. Ph. Ds completed under Existing Scheme during the period

SL. NO.	NAME	GUIDE	AREA OF SPECIALIZATION	SCHEME (QIP/PART TIME/FULL TIME)
1	Albin Joseph	Dr. Shijo Thomas	Energy	Full Time
2	Anish R Nath	Dr. N Sandhyarani	Design and development of electrode materials for hybrid super capacitors	Full Time
3	Vinay T V	Dr. Subramanian Namboothiri, Dr. Soney Varghese		Full Time
4	Arjun Ajith Mohan	Dr. N Sandhyarani	Development of compact enzymatic bio fuel cells based on carbon nano structures	Full Time
5	Radhika Paniker	Dr. C B Sobhan	Carbonnanomaterials	Full Time
6	Manu Mohan	Dr. C B Sobhan	Heat transfer	Part Time

### b. On-going Ph. Ds under the Existing Scheme

SL. NO.	NAME	GUIDE	AREA OF SPECIALIZATION	SCHEME (QIP/PART TIME/FULL TIME)
1	Shijina S S	Dr. Sajith V	Battery Thermal Management of Electric Vehicles	Full time

2	ANOOP A V	Dr.Soney Varghese	Gas sensors for the VOC detection	Full time
3	SNEHA C	Dr. Soney Varghese	Metal oxide thin films for gas sensing	Full time
4	ATHIRA M	Dr. Soney Varghese	energy harvesting	Full time
5	PRESEETHA PAUL C			
6	PANCHAL BHARGAV M	Dr.Soney Varghese	RF MEMS and Sensors	Full time
7	Jamsheed K			
8	HARITHA K	Dr. N. Sandhyarani	Electrochemical biosensors	Full time
9	NUBLA K	Dr. N. Sandhyarani	Electrochemistry	Full time
10	ARUNA VIJAYAN	Dr. N. Sandhyarani	Electrochemistry	Full time
11	ANAGHA YATHEENDRAN	Dr. N. Sandhyarani	Electrochemistry	Full time
12	MUHAMMAD RABEEH VP	Dr. Hanas	Biomaterials	Full time
13	MERIN JOSEPH	Dr. Hanas, Dr. Lakshmi V Nair	Metal nano clusters	Full time
14	MUHAMMED SHAFEEQUE RAHMAN PP	Dr. Hanas, Dr. Lakshmi V Nair (co-guide)	Neuromodulation	Full time
15	LAIJU LUKOSE	Dr. Hanas	Light weight Structural Materials	Part Time
16	ANTONY JOSEPH	Dr. V. Sajith	Corrosion and wear resistant coatings	Full time
17	ATHIRA S VIJAYAN	Dr. Sajith V	Anti-biofouling coatings	Full time
18	NEESHMA RADHAKRISHNAN	Dr. C B Sobhan	Phase Change Materials for heat transfer applications	Full time
19	GEO SEBASTIAN	Dr. Shijo Thomas	Solar thermal conversion	Full time

20	GAIUS CHERIAN MATHEW	Dr. Shijo Thomas	High Entropy material photocatalysts for solar fuel synthesis	Full time
21	DIVYA D	Dr. Shijo Thomas	Carbon Dioxide absorption in nanofluids	Part time
22	SUMANTH S	Dr. Shijo Thomas	Thermal Management of Electric Powertrain Systems	Full time
23	FARZEENA C	Dr. N. Sandhyarani (Co-guide) Dr. Subramanyan N. Varanakkottu (Dept. of Physics, Guide)	Optofluidics	Full time

## DEPARTMENT OF SCHOOL OF MANAGEMENT STUDIES

### a. Ph. Ds completed under Existing Scheme

SL. NO.	NAME	GUIDE	AREA OF SPECIALIZATION	SCHEME (QIP/PART TIME/FULL TIME)
1	Preethi M	Dr. T Radharamanan	Technology Transfer	Part Time
2	Prathap Kumar S	Dr. K. Muhammad Shafi & Dr. T. Radha Ramanan	Strategy	Part Time

### b. On-going Ph. Ds under the Existing Scheme

SL. NO.	NAME	GUIDE	AREA OF SPECIALIZATION	SCHEME (QIP/PART TIME/FULL TIME)
1	Lisbeth Mary John	Dr. K Muhammad Shafi	Human Resources Management	Full Time
2	Minimol PG	Dr. Preeti Navaneeth	English Studies	Full Time
3	Tejoswini Patra	Dr. Sreejith S S	Human Resource Management	Full Time
4	Muneera K	Dr, Althaf S	Health Economics	Full Time
5	Rona Reesa Kurian	Dr. Preeti Navaneeth	English Studies	Full Time



6	Chithira James	Dr. Reju George Mathew	English Studies	Full Time
7	Monica Jaison	Dr. Althaf S	Envirodev Economics	Full Time
8	Joseph Clement Madathil	Dr. Nithya M	Marketing Management	Full Time
9	Sivakumar P	Dr. Sreejith S S	Human Resource Management	Part Time
10	Athira T R	Dr. Preeti Navaneeth	English Studies	Full time
11	Adish A	Dr. Reju George Mathew	English Studies	Full time
12	Nabeela Mustafa	Dr. Preeti Navaneeth	English Studies	Full time
13	Rijas B M	Dr. T Radha Ramanan	Operations Management	Full Time
14	Issabella Jose	Dr. Sunitha S	Gender Economics	Full time
15	Anjali Mathews	Dr. Sunitha S	Industrial Economics	Full time
16	Fawaz Kareem	Dr. Althaf S	Platform Business Models	Full Time
17	Mohammed Avvad	Dr. T Radha Ramanan	Supply Chaom Mgmt	Full Time
18	Susan Varghese	Dr. T Radha Ramanan and Dr. Sreejith S S	HR Operations	Full Time
19	Dilsha Das	Dr. Preeti Navaneeth	English Studies	Full Time
20	Gayathri	Dr. Reju George Mathew	English Studies	Full Time
21	Parvathy Das	Dr. Reju George Mathew	English Studies	Full Time
22	Sharon Rose	Dr. Reju George Mathew	English Studies	Part Time
23	Priya P	Dr. Sreejith S S	Organizational Behavior	Full Time
24	Sona P	Dr. T Radha Ramanan	Financial Technology	Part Time
25	Rohit Kulashresta	Dr. Muhammad Shafi	Finance	Part Time

## 5.2 DETAILS OF Ph.Ds. DONE SO FAR

DEPARTMENT	NO. OF PH. D COMPLETED	SCHEME		
		Q IP	FT	PT
Architecture	12	1	5	6
Chemical Engineering	50	0	42	8

Civil Engineering	79	21	35	23
Computer Sciece Engineering	45	4	25	16
Electrical engineering	148	26	56	66
Electronics and Communication Engineering	90	26	49	15
Mechanical Engineering	114	15	66	33
Mathamatics	60	1	42	19
School of Material Science Engineering	33	2	28	3
School of Management Studies	11	0	7	4
School of Biotechnology	36	0	34	2
Physics	3	0	3	1

### 5.3 SPONSORED R& D PROJECTS

SL. NO.	PROJECT TITLE	FUNDING AGENCY	PI AND DEPARTMENT	PROJECT COST (RS.)
1	Interface Engineering of Rhenium Based Nano Heterstructures for enhanced hydrogen evolution reaction	SERB POWER	Dr. N. Sandhyarani, Profesor, SMSE (Principal Investigator)	3810000
2	Non- invasive measurement and monitoring of pulmonary congestion	DST	Dr. Anup Aprem, Asst. Professor, Department of Electronics and Communication Engineering	3727396
3	DST INSPIRE Faculty Fellowship,	Ministry of Science & Technology, Department of Science & Technology	<u>INSPIRE FACULTY:</u> Dr. Nujoom Sageer Karat <u>Co-ordinating Faculty:</u> Dr. Deepthi P P, Professor, ECED	2200000

4	Sustainable landscape design guidelines: integrating ecology and aesthetics	Gravity Incorp Pvt Lt	Dr. Anjana Bhagyanathan, Asst. Professor, Department of Architecture & Planning, NITC	354000
5	DST INSPIRE Faculty Fellowship,	Ministry of Science & Technology, Department of Science & Technology	<u>INSPIRE FACULTY:</u> Dr. Pramitha M <u>Co-ordinating Faculty:</u> Dr.M.K. Ravi Varma, Professor, Department of Physics.	2200000
6	Development of Spray Evaporation Technique for the Preparation of Uniform Microparticles of Ammonium Dinitramide and Surface Modification by Atomized Spray Coating Method	DRDO	Dr. Anuj A Vargeese, Asst. Professor, Department of Chemistry	7259824
7	Solar driven cogeneration of electricity and water in small rural communities	DST (International Bilateral Cooperation Division)	Dr. Sujith Kumar C.S(PI) Assistant Professor, MED	2196200
8	Design and development of techniques and tools to build a simulation framework for performance evaluation of design of processors enhanced for virtualization	SERB	Dr. Priya Chandran, Professor, CSED	6012600
9	Computer aided diagnosis system for mammogram analysis based breast tumor classification	CSR- HEFA	Dr. Praveen Sankaran Asst. Professor ECED	2500000
10	Development of a cost-effective and sustainable thermal insulation technique for retrofitting RCC roofs in warm humid climate	CSR- HEFA	Dr. Naseer M A, Professor DAP	4000000

11	DEPARTMENT OF CHEMICAL ENGINEERING	DST-FIST	Dr. Aparna K, Assoc. Professor, CHED (Coordinator, NITC-CHED-FIST-2021 & Convenor)	6800000
12	INSPIRE Programme to the Research Scholar	DST - INSPIRE Fellowship	Ms. Dhilshana, P200084MA, Research Scholar in Department of Mathematics <u>Co-ordinating Faculty: Dr. Sunil Mathew, Asst. Professor, MAT</u>	481280
13	INSPIRE Programme to the Research Scholar	DST - INSPIRE Fellowship	Mr. Munugala Chandrakanth, P210004CY, Ph. D Student in Department of Chemistry <u>Co-ordinating Faculty: Dr. Janardhan Banothu, Asst. Professor, CHY</u>	481280
14	Experimental Investigations and Electro- Thermal Modeling of Electrode Wear Compensation in Micro Electric Discharge Drilling of Super Alloys for Improving the Dimensional Accuracy and Functional Performance of Cooling Holes on Turbine Blades and Vanes	ARDB-DRDO	Dr. Basil Kuriachen Asst. Professor MED	1714000
15	Integrated Electro-Oxidation, electro-reduction and electro coagulation process of the degradation of ammoniacal nitrogen in the presence and absence of carbon based pollutants	SERB-ECR	Dr. Anantha Singh T S Assistant Professor, CED	3155900
16	Application of Deep Learning Techniques for Impairment Mitigation in Next Generation Multiple Access Technologies	SERB -TARE	Dr. Beena A.O, Asst. Professor, Department of Electronics, SAINTGITS College of Engineering, Kottayam under mentorship of Dr. Sameer S M, Professor, ECED	1830000

17	Designing and fabrication of Metal - Organic	SERB -TARE	Dr. Anjana C.P, Asst. Professor, Mar Athanasius College of Engineering, Kothamangalam under mentorship of Dr. N Sandhyarani Professor, SMSE	1830000
18	Enhancing the Performance of solar collector using nanofluids	SERB -TARE	Dr. Mrinal K.R, Asst. Professor, Department of Mechanical Engineering, National Institute of Engineering, Mysore, Karnataka under mentorship of Dr. Sajith V Assoc. Professor, SMSE	1830000
19	Chemical Synthesis of filled low dimensional CoSb3 skutterudites for thermoelectric devices with high figures of merit for IC engine - driven vehicles	SERB	Dr. Anuj A Vargeese, Asst. Professor, Department of Chemistry	2580000
20	Stabilization of Compounds with Zero-valent Main-group Elements	SERB	Dr. Parameswaran P Assoc. Professor Chemistry	3245000
21	Supramolecular Rigid Aromatic Multifarene Scaffolds: Selective Recognition of Environmental Pollutants and Ligands for Asymmetric Catalysis	SERB	Dr. Chinna Ayya Swamy Asst. Professor Chemistry	2586000
22	A Prototype for Drone based Intelligent Coconut Harvester: An Application to Artificial Intelligence (AI) and Internet of Things (IoT)	SERB	Dr. Pranesh Das, Asst. Professor CSED	1593510

23	Acoustic Emissions from a Premixed Flame propagating in a Tubular Combustor	SERB	Dr. T J Sarvothama Jothi, Asst. Professor, MED	2332000
24	Agglomeration Abatement in Fluidised Bed Gasification of Lingno-cellulosic Biomasses	SERB	Dr Arun P, Assoc. Professor MED	3201240
25	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	SERB	Dr. Tom Skaria Asst. Professor SOBT	2962650
26	Condition assessment of polymeric cable insulation through time domain measurements considering the effect of charge trapping in the insulation	SERB	Dr. Nasirul Haque, Asst. Professor EED	1501520
27	Synchronization in Single Carrier and Multi Carrier Underwater Wireless Acoustic Communication System (UWACS)	NRB-DRDO	Dr. Ameer P M, Asst. Professor ECED	3564000
28	Development of an Adaptive Distance Relaying Scheme in a Low Inertia Power System with Hardware Realization	SERB	Dr. Deepak M, Asst. Professor, EED	2878790
29	Investigation of cross-talk of gene regulation of L-sorbose and galactose metabolism in Candida albicans	SERB	Dr. MD Anaul Kabir, Professor SOBT	2424745

30	Development of a model for generation of High- resolution gridded population map	ISRO RESPOND	Dr. Bimal P, Asst. Professor, DAP	2940000
31	Investigation of Solar Erupsions using Sub-photospheric Dynamics	ISRO RESPOND	Dr. Ram Ajour Maurya, Asst. Professor, PHY	2474000
32	Modernization of Pollution Control System of Steel industries	Kerala State Pollution Control Board	Dr. Aswathy E V Asst. Professor, CED	1000000
33	Towards solving a Trajectory Planning Problem for Unmanned Aerial Vehicles (UAVs) to a Computational Efficient Algorithm	SERB	Dr. Arun Raj Kumar P, Asst. Professor, CSED	660000
34	Exploring the effect of Single and Bimetallic-Doped Graphene Oxide (GO) ,Microporous Architectural by Pool Boiling for High-Quality Steam Generation	SERB	Dr. Sudev Das, Asst. Professor CHED	3830000
35	Mechinability studies and development of a stable manufacturing technique for XH67MBTHO Nickel based super alloy for semi cryogenic engine applications	ISRO RESPOND	Dr. Basil Kuriachen Asst. Professor MED	792000
36	SERB - Ramanujan Fellowship Scheme	SERB	Dr. Blessen Skariah Thomas Ramanujan Fellow, CED (PI) Dr. J. Sudhakumar, Professor, CED (Mentor)	11900000
37	Performance Enhancement of Ternary Organic Solar Cells using Charge Transfer and	SERB	Dr. Vari Sivaji Reddy, Asst. Professor PHY	1727000

	energy Transfer Synergistic Effects			
38	Computational Modelling of Transition Metal Oxides as Electrochemical Catalysts	SERB	Dr. Raghu Chathanathodi, Professor, PHY	3432000
39	Design of Functional Main Group Organometallic Molecular Scaffolds: NIR Absorbing Excellent Material for Sensing, Transportation of Bio-inspired Anions, two photon Absorption and OLEDs	SERB	Dr.Chinna Ayya Swamy, Asst. Professor, Chemistry	3933600
40	Investigations on Probabilistic Flood Forecasting Techniques using Medium - Range Numerical Weather Prediction (NWP) Ensembles for the Chaliyar River Basin, Kerala	SERB	Dr. Sathish Kumar D, Asst. Professor, CED	2295240
41	British Council Going Global Exploratory grant from Oxford Brookes university	British Council Going Global Exploratory grant from Oxford Brookes university	Dr. Anup Aprem, Asst. Professor, ECED	533389
42	My City (In)Visible	The British Academy, UK	Dr. Mohammed Firoz & Dr. Ritesh Ranjan, Asst. Professor (s) DAP	260000
43	INSPIRE Programme to the Research Scholar	DST - INSPIRE Fellowship	Ms. Sarika V, P210007CY, Research Scholar in Department of Chemistry <u>Co-ordinating Faculty:</u> Dr. Anuj A Vargeese, Asst. Professor Department	451520



			of Chemistry	
44	School of Materials Science and Engineering- DST-FIST Programme	DST-FIST	HOD (Dr. Soney Varghese, Assoc. Professor), SMSE	21200000
45	Consultancy Project entitled "Development of a Framework for Estimating the Mineable Sand in Rivers with Specific Reference to the Chaliyar River"		DR. SANTOSH G THAMPI, CED	552240
46	Development of novel methodology to deposit Micro/Nano secondary phase (Composite coatings) through Electrical Discharge to improve the surface tribology of Ti6A14V	UGC-DAE Project	Dr. Basil Kuriachen, Asst. Professor, MED	45000
	<b>TOTAL</b>			<b>13,92,77,924</b>

A number of external funded R & D projects with a total sanctioned amount of **Rs. 13,92,77,924/-** has been received by the Institute.

- **Faculty Research Grant (FRG 2022)**

For the 42 newly joined faculty members, total funding of Rs. **Rs 1,99,88,475/-** was sanctioned as seed money for their initial research activities.

- **Innovative Project Funding Scheme - 2022**

To strengthen the UG/PG research activities, the institute funded **17 UG/PG** student projects of **Rs. 12,48,750** in the year 2021-22 under the **innovative project-funding scheme**.

- **Consultancy and Testing**

Following are the details of the amount received under Consultancy and Testing for the year 2021-22.

SL. NO.	DEPARTMENT	NO. OF FIRMS	AMOUNT (RS.)
<b>Consultancy</b>			
1	ECED	1	1887257
2	DAP	1	656000

3	CED	21	3783211
	<b>Total</b>		<b>6326468</b>
<b>Testing</b>			
1	MED	176	489248
2	BIO MECH	52	70042
3	EED	28	430700
4	CED	156	985898
5	PHY	2	53100
	<b>Total</b>		<b>2028988</b>

The institute has received funds of Rs. **83,55,456/-** towards the consultancy and test charges from different agencies like **PhyTunes Inc. USA, Calicut and Kollam Corporations, KSEB, ULCCS**, etc.

- Continuing Education Programmes

NITC has organised various continuing education programmes for participants from academia and industry to disseminate knowledge and enhance the skills of the community. These programmes include online and offline Faculty Development Programmes (FDP), Short Term Training Programmes (STTP), Workshops and Conferences. Even during the lockdown, FDPs/STTPs and Workshops were successfully conducted in online mode. A total of 6 FDPs, 5 STTPs and 5 Workshops were organised as self-financing programmes; 4 ATAL FDPs sponsored by AICTE and 1 Karyashala workshops sponsored by SERB were also conducted. Various departments of the NITC organised 3 International conferences during the last financial year.

- List of the organizations with which NITC has signed the MoU/Inter-institutional agreement during the year 2021-22

1. University of Koblenz-Landau, Germany
2. University of Liverpool, UK
3. Tranzmeo IT Solutions Pvt Ltd (TISPL)
4. NITCAA for IMS Software
5. Bexel India Consulting
6. National Innovation Foundation India
7. M/s Phytex Embedded Pvt Ltd

## **Research Plan Thrust Areas of Departments Schools and Centres**

### **Architecture and Planning**

1. Urban and Regional Planning
2. Architectural Theory
3. Sustainable Building Design

#### 4. Building Technology & Management

##### **Chemical Engineering**

1. Energy & Environment
2. Materials Science
3. Multiphase Flow Systems
4. Process Dynamics & Control

##### **Chemistry**

1. Polymer Science & Technology
2. Materials Science
3. Bioorganic Chemistry
4. Bioinorganic chemistry
5. Theoretical and computational chemistry

##### **Civil Engineering**

1. Structural Engineering
2. Strength and Behaviour of Offshore Structures
3. Traffic and Transportation Planning
4. Water Resources Engineering
5. Geotechnical Engineering
6. Environmental Engineering
7. Construction Project Management
8. Sustainability and Development of Building Materials

##### **Computer Science & Engineering**

1. Theoretical Computer Science
2. Computational Sciences
3. Data Science and Data Analytics
4. Hardware Design, Verification, and Testing
5. Cyber-Physical Systems

##### **Electrical Engineering**

1. Power and energy systems
2. Control and Instrumentation
3. Power electronics and drives
4. Industrial Power and Automation
5. High voltage engineering
6. Biomedical engineering.

##### **Electronics & Communication Engineering**

1. Speech/Audio/Image/Video Processing
2. Signal Theory
3. Compressed Sensing/Sparse Signal Processing
4. Multi-rate Signal Processing and Filter banks
5. Biomedical Signal Processing
6. Machine Learning
7. Wireless Communications and Networks
8. OFDM/MIMO and Massive MIMO
9. 5G Wireless Communications
10. Cryptography and Secure Communication
11. VLSI architectures for Signal Processing

12. Power Management IC Design
13. Analog & Mixed-signal IC design
14. Semiconductor Device modeling
15. Micro fabrication Technology
16. Micro/Nano Electro Mechanical System (MEMS/NEMS)
17. RF/Microwave

#### **Mathematics**

1. Discrete and Fuzzy Mathematics
2. Stochastic Modelling and Applied Statistics
3. Numerical Analysis and Scientific Computing
4. Mathematical Analysis
5. Nonlinear Dynamics
6. Operations Research

#### **Mechanical Engineering**

1. Industrial Engineering and Management
2. Machine Design
3. Materials and Manufacturing
4. Thermal and Energy Engineering

#### **Physics**

1. Condensed Matter & Soft Matter Physics
2. Optics & Photonics
3. Atmospheric Physics & Astrophysics
4. Surface Science
5. Organic electronics
6. Particle Physics & High Energy Physics
7. Critical Phenomena
8. Nanoscience& Nanotechnology

#### **School of Biotechnology**

1. Computational drug design, Network biology, Neuroscience
2. Anticancer drug Research
3. Bio-Nano technology, Small molecule research, Tissue engineering, Bio-Mems
4. Gene regulation using yeast as a model system
5. Understanding drug resistance mechanism in *Candida albicans*
6. Protein Folding and therapy
7. Vaccine engineering and immune targeting
8. Bioprospecting and Bioremediation: Scale up to commercialisation
9. Microbial production of enzymes and therapeutic molecules
10. Product improvement by genetic modification of microbial strains
11. Endocrine cancer and signal Transduction
12. Development of bioinformatics tools and technique for biological data analysis
13. Antimicrobial Research
14. Functional genomics and proteomics
15. Biological network analysis
16. Machine learning algorithm for biological sequencing and big data analysis
17. Development and improvement of NGS data analysis pipeline
18. Precision medicine pipeline development in cancer biology
19. Inflammation and cardiovascular disease

### School of Materials Science and Engineering

1. Nano-materials and their applications
2. Nano-fluids
3. Photo Catalysis/Water Splitting
4. Biomaterials
5. Corrosion and Wear Resistant Coating
6. Nano Composites for Energy
7. Nanocomposites and Nanosensors

### School of Management Studies

1. Finance, Human resources, Operations, Data Sciences
2. Economics, Econometrics, Health Economics, and Urban Economics
3. English Studies, Cultural Studies, Indian Writing in English and Translations

## 5.4 INSTITUTE-INDUSTRY COLLABORATION

### DEPARTMENT OF ARCHITECTURE

SL. NO.	NAME	FIRM & DESCRIPTION OF THE WORK
1	Dr. Kasthurba A.K	Principal Investigator Renovation of Civic Center – Kandamkulam Jubilee Hall near Tali Temple Kozhikode. Consultancy Charges Rs 8,25,000; January 2019. • Technical Expert PYN Heritage project for Laterite masonry at Yangoon, Mynamar; Govt of Mynmar and Hongkong Shangai group of Hotels. September 2018
2	Dr. Bimal P& Dr.Chithra K	iON, Tata Consultancy Services, Subject Matter Expert. Description of work: Extend expertise on the subject for the projects of the company when requested.  Architectural Consultancy: Public Health Centre Building for Koodarnahi Panchayat.
3	Dr.Chithra K	Architectural Consultancy: Community Health Centre Building for Mukkam Municipality
4	Dr Mohammed Firoz and Ar <u>Ritesh Ranjan</u>	My City ( In) Visible-Co collaborator as a part of the partner University from India along with University of Westminster, University of Liverpool, Anglia Ruskin University, Durham University, University of Exeter
5	Dr.Chithra K, Dr.Amritha P K and Dr.Deepthi Bendi	Masterplan for the redevelopment of CHC Mukkam, Calicut
6	Dr.Chithra K, and Dr.Amritha P K	Renovation of the PanniyankaraDurga Temple, Kozhikode.
7	Dr. Kasthurba AK, Dr. Deepthi Bendi, & Ar. Ritesh Ranjan	Master plan development of Cheruvadi Community Health Centre, Kozhikode

## DEPARTMENT OF CHEMISTRY

SL. NO.	NAME	FIRM & DESCRIPTION OF THE WORK
1	Dr.G. Unnikrishnan	Automobile Rubber Products' Development M/s Choice Rubbers, Calicut
2	Dr.G.Unnikrishnan	Car Polishing Compound Development  M/s RaHS Innovation Centre, (TBI-NITC) (M/s . Hevea Organic Products, Calicut  Novel Adhesive t Formulations

## DEPARTMENT OF CIVIL ENGINEERING

SL. NO.	NAME	DESCRIPTION OF THE WORK & FIRM
1	Dr. Anil Kumar Dash	Structural strengthening of serviceable 13 Lakhs litres capacity water tank, Kerala Water Authority
2	Dr. George K. Varghese Dr. Aswathy E V Dr. Anantha Singh T S	Central Pollution Control Board: Random verification of industrial units in Kerala in Tamil Nadu for Hazardous and Other Waste Management compliance, Auditing the Hazardous Waste management inventory
3	Dr. K. Krishnamurthy & Dr. M. Sivakumar	Design of pavement overlays for MG road at Thalassery Harbour Engineering Department, Sub Division Thalai, Thalassery 670102.
4	Dr. Robin Davis P	Cochin Shipyard: Assessment of Probable Maximum Wheel Loads on Crane Rails of Dry Dock at Cochin Shipyard Limited.
5	Dr. Robin Davis P	Structural Stability of the Kunnamangalam Co-operative Rural Bank building. The work is to perform safety assessment of the building when the masonry portion in the ground floor is demolished.
6	Dr. Robin Davis P	Proof check of the monopole design. Office of the Chief Engineer (Transmission Circle), Vidyuthi Bhavanam, Kottarakkara:
7	Dr. George K Varghese, Dr.	Indo Shell Cast Pvt Ltd. Study of air emissions from Indo Shell Cast Pvt. Ltd.

	Aswathy E.V., Dr. Anantha Singh T.S.	
8	Dr. Renjitha Mary Varghese	Soil investigation The Assistant Executive Engineer, Office of the Assistant Executive Engineer, Irrigation Sub division, Ponnani.
9	Dr. T. M. Madhavan Pillai, Dr. A. P. Shashikala, Dr. P. V. Indira, Dr. Sajith A.S., Dr. Robin Davis P.	Third Party Auditing of Railway Bridges. Southern Railway – The works involves third party auditing of 17 bridges in the Palakkad Division
10	Dr. Santosh G Thampi, Dr. Sathish Kumar D	Assessment of Legacy Waste at the Brahmapuram Solid Waste Dump Yard of the Kochi Municipal Corporation Kochi Municipal Corporation
11	Dr. Santosh G Thampi, Dr. Sathish Kumar D	Assessment of Legacy Waste at the Kureepuzha Solid Waste Dump Yard of the Kollam Municipal Corporation Kollam Municipal Corporation
12	Dr. Santosh G Thampi, Dr. Sathish Kumar D	Assessment of Legacy Waste at the Chelora Solid Waste Dump Yard of the Kannur Municipal Corporation Kannur Municipal Corporation
13	Dr. S. Chandrakaran, Dr. Santosh. G. Thampi	Design of Raw Sewage Sump cum Pump House at the Indian Coast Guard, Kochi Military Engineering Services, Kochi
14	Dr. Santosh G Thampi, Dr. S. Chandrakaran Dr. Sathish Kumar D	Hydrodynamic and slope stability studies in connection with obtaining environmental clearance for the proposed Indian Coast Guard Academy at Kenjaru, Mangaluru MECON Ltd.
15	Dr. S. Chandrakaran, Dr. Santosh. G. Thampi	Collecting, analyzing & classifying representative samples of deposited sediments from the bed of the reservoir of the Kallarkutty Dam and estimating the quantity of sediment components KSEBL
16	Dr. Santosh G Thampi	Development of a framework for estimating mineable sand in rivers with specific reference to the Chaliyar River KERI, Dept. of Water Resources, Govt. of Kerala

## DEPARTMENT OF COMPUTER SCIENCE

SL. NO.	NAME	FIRM & DESCRIPTION OF THE WORK
1	Subhasree M., Jayaraj P. B.	Reliance Foundation Scholarship
2	S. Sheerazuddin	Github Campus Programme
3	Priya Chandran, S. D.Madhu Kumar	Aryaka Networks
4	S. D. Madhu Kumar, AnuMary Chacko	JMR Infotech
5	Hiran V. Nath, Dr Anu MaryChacko	C-DAC (Centre for Development of Advanced Computing Trivandrum)
6	Jimmy Jose	SCTIMST
7	Abdul Nazeer K. A., Gopakumar G., Jayaraj P. B.,  Pournami P. N.	MVR CCRI (MVR Cancer Centre and ResearchInstitute)
8	Anu Mary Chacko	Sree Chitra Thirunal Institute Trivandrum, TIME-HF Project

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION

SL. NO.	NAME	FIRM & DESCRIPTION OF THE WORK
1	Consultancy project on wireless/wireline convergence	Firm: PhyTunes Inc, USA Description of the work: CSL Technology: design, analysis and implementation
2	MoU for Research Collaboration Faculty Name: Dr.P.S.Sathidevi & Dr. Sreelekha G	Firm: EkLakshya Academy LLP, Hubli, India Description of the work: Joint research and development in Tele-Ophthalmology projects



## DEPARTMENT OF ELECTRICAL AND ELECTRONICS

SL. NO.	NAME	FIRM & DESCRIPTION OF THE WORK
1	Dr. Ashok S, Dr. Sindhu T. K.	M/S KSEBL, M/S SOCOMEC UPS, FOREST DEPARTMENT, etc. - Testing of UPS, Lighting Arrestor, Street lights, Cables, etc.
2	Dr. Mithun M. S.	MyDent Dental hospital, Calicut. - Consultancy project - Development of Camera Supported Endomotor System for Root Canal Treatment

## 6 INITIATIVES AGAINST DIFFERENT GOVERNMENT SCHEMES

### 6.1 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 Mahatama Gandhi's 145th 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.

### 6.2 EK BHARATH SRESHTA BHARATH

The Ek Bharat Shreshth Bharat scheme was initiated by the Government on 31<sup>st</sup> October, 2015, on the 140<sup>th</sup> birth anniversary of Sardar Vallabhai Patel. The programme pairs different states and Union Territories to exchange their cultural differences. This enhances the unity and integrity among the people of India.

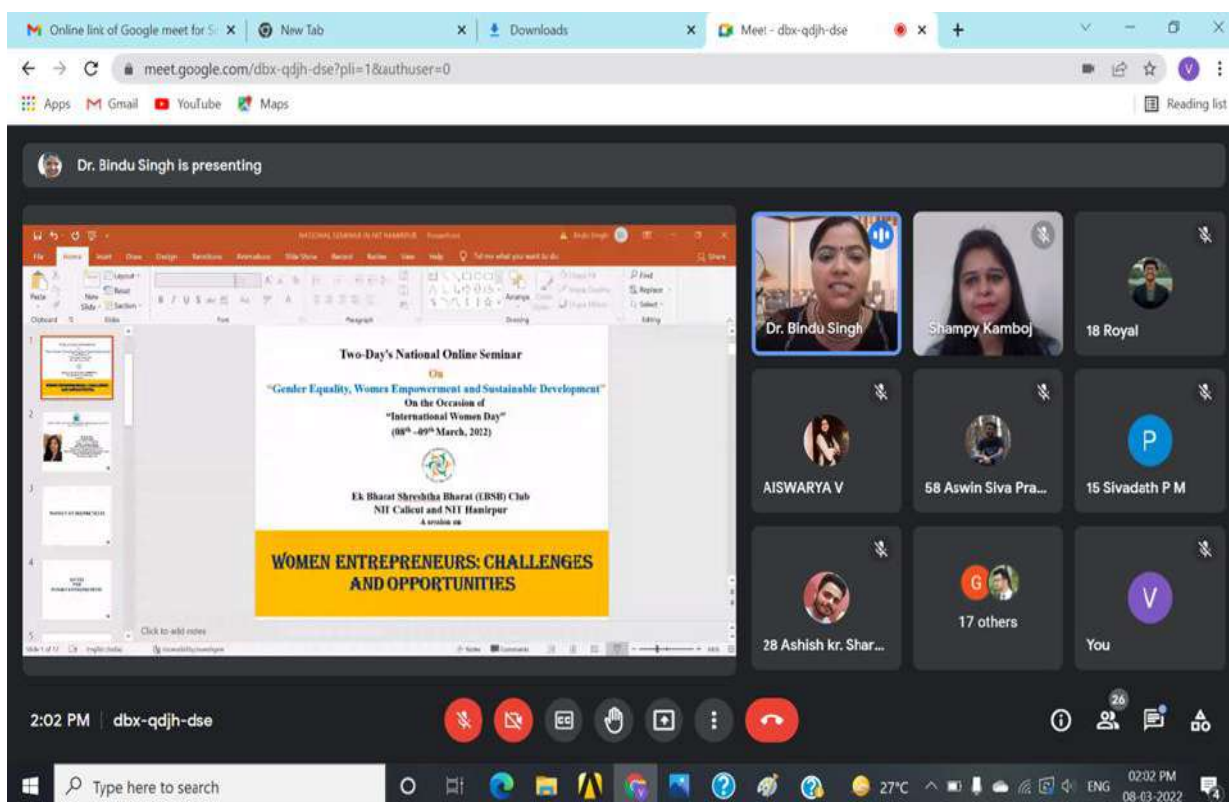
Ek Bharat Shreshth Bharat (EBSB) club of NIT Hamirpur and NIT Calicut jointly organized the first program event of the year 2022, a Two Day National Online Seminar on "Gender Equality, Women Empowerment, and Sustainable Development" from 08th- 9th March 2022. The National Seminar was a well-planned event conducted for two days which included six different great learning sessions. After attending the lectures, the students developed a broad perspective about the gender inequalities existing in the society and how one can take measures to combat them to make the world a more gender equal place.

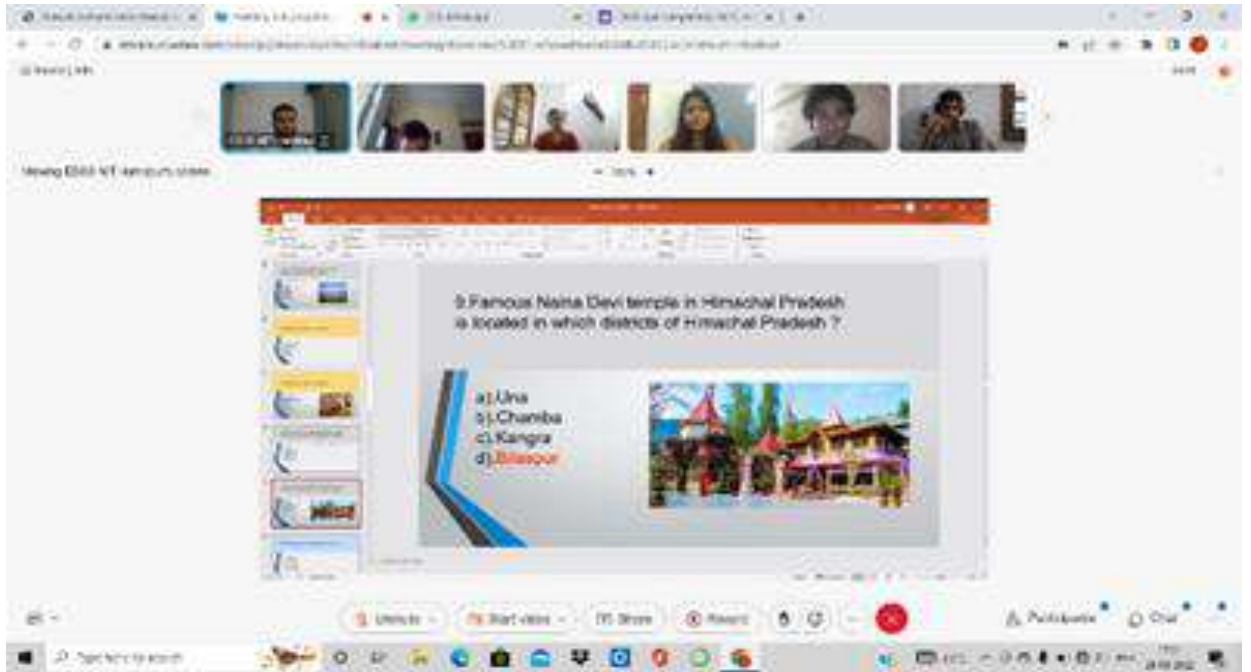
Ek Bharat Shreshth Bharat (EBSB) club of NIT Calicut and NIT Hamirpur jointly organized an Online Poster Making Competition on "Go Green: Reduce, Reuse, Recycle" on the occasion of Earth Day (22 April, 2022, Friday). Regarding this, EBSB club of NIT Hamirpur and NIT Calicut came out with rewarding cash prizes to celebrate the work of the winning participants from both categories, students, and staff. An active participation included faculties, research scholars and

different student communities are attained in this programme. Overall, the programme was a great success with recent research innovations and ideas presented by the participants.

The Ek Bharath Shresth Bharat clubs of NIT Calicut and NIT Hamirpur jointly conducted their third event of the year, an online quiz competition on the culture and heritage of Himachal Pradesh and Kerala held between the students of the respective institutions on Sunday, the 28th of August at 5 pm. The event was successfully concluded with the results being declared through the mail, and the winners receiving cash prizes worth up to six thousand rupees.

‘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 4th of October to the 10th 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.





## 7 THE COUNCIL, BOG AND OTHER COMMITTEES

### 7.1 INSTITUTE'S COUNCIL

S.NO	NAME	DESIGNATION
1	Dr. Prasad Krishna	Director
2	Dr. Sathi Devi P S	Deputy Director
3	Dr. P. P. Anil Kumar	Dean (ACR)

4	Dr. Naseer M A	Dean(P&D)
5	Dr. Sameer S M	Dean(Academic)
6	Dr. Sudhakumar J	Dean (FW)
7	Dr. Madhusudanan Pillai V	Dean(R & C)
8	Dr. Rajanikant G K	Dean(SW)
9	Dr. Chandrakaran S	Professor(HAG),CED
10	Dr. Indira P V	Professor(HAG),CED
11	Dr. M V L R Anjaneyulu	Professor(HAG),CED
12	Dr. Madhavan Pillai	Professor(HAG),CED
13	Dr. Sankar N	Professor(HAG),CED
14	Dr. Unnikrishnan G.	Professor(HAG),CHY
15	Dr. Ashok S	Professor(HAG),EED
16	Dr. Jeevamma Jacob	Professor(HAG),EED
17	Dr. Saly George	Professor(HAG),EED
18	Dr.R Sridharan	Professor(HAG),MED
19	Dr. Jose Mathew	Professor(HAG),MED
20	Dr. Joseph M A	Professor(HAG),MED
21	Dr. Muraleedharan C	Professor(HAG),MED
22	Dr. P K Rajendra Kumar	Professor(HAG),MED
23	Dr. Chandrashekar K	Professor(HAG),PHY
24	Dr. Pradeep P	Professor(HAG),PHY
25	Dr. Sobhan C.B	Professor(HAG),SMSE
26	Dr. Shashikala A P	Professor, CED
27	Dr. Mohammed Ameen	Professor, CED
28	Dr. Babu A V	Professor, ECED
29	Dr. Suresh Babu T.K	Professor, SOMS
30	Dr. Biju T Kuzhiveli	Professor, MED
31	Dr. K A Abdul Nazeer	Professor, CSED
32	Dr. Satyananda Panda	Professor, MAT
33	Dr. Krishnamurthy K	Professor, CED
34	Dr. Praveen Nagarajan	Professor, CED
35	Dr. Shiny Joseph	Professor, CHED
36	Dr. V Sivasubramanian	Professor, CHED
37	Dr. Lity Alen Varghese	Professor, CHED
38	Dr. Madhu Kumar S D	Professor, CSED
39	Dr. Priya Chandran	Professor, CSED
40	Dr. Lakshmi C	Professor, CY
41	Dr. Deepthi P P	Professor, ECED
42	Dr. Sreelekha G	Professor, ECED
43	Dr. Rijil Ramchand	Professor, EED

44	Dr. M S Sunitha	Professor, MAT
45	Dr. Sunil Jacob John	Professor, MAT
46	Dr. A Shaija	Professor, MED
47	Dr. Joy M L	Professor, MED
48	Dr. Manu R	Professor, MED
49	Dr. Raghu C	Professor, PHY
50	Dr. Ravi Varma M K	Professor, PHY
51	Dr. M D Anaul Kabir	Professor, SBT
52	Dr. N Sandhyarani	Professor, SMSE
53	Dr. Santhiagu	Professor, SBT
54	Dr. Santosh G thampi	Professor & HoD, CED
55	Dr. Susy Thomas	Professor, EED
56	Dr. Sindhu T K	Professor, EED
57	Dr. Vineeth Paleri	Professor, CSED
58	Dr. Parameshwaran P	Professor, CY
59	Dr Sushama C M	Professor, MAT
60	Dr. Jacob M J	Professor, MAT
61	Dr. Jagadanand G	Professor, EED
62	Dr. Sajith V	Professor & HoD, CCD
63	Dr A Sujith	Professor, CY
64	Dr. Andrew Thangaraj	IIT Madras
65	Prof. Leena Abraham	TISS, Mumbai
66	Prof. Rajan M P	IISER, Trivandrum

## 7.2 BOARD OF GOVERNORS

Chairperson	<b>Shri.Gajjala Yoganand</b>
Ex. Officio Member	<b>Prof.Prasad Krishna</b> Director National Institute of Technology, Calicut
Member	<b>Special Secretary or Additional Secretary or Joint Secretary</b> dealing with Technical Education, Department of Higher Education, Ministry of Education, Government of India.
Member	<b>Financial Advisor, Department of Higher Education,</b> Ministry of Education, Government of India
Member	<b><i>NIT Council Nominee</i></b>

Member	<i>NIT Council Nominee</i>
Member	<b>Dr. Manu R,</b> Professor Department of Mechanical Engineering. NIT Calicut <i>Nominee of Senate</i>
Member	<b>Dr. Chithra K,</b> Associate Professor, Department of Architecture & Planning NIT Calicut. <i>Nominee of Senate</i>
Member	<b>Shri.Raveendran Kasturi,</b> Group CEO, Uralungal Labour Contract Co-Operative Society & UL Cyber Park & UL Technology Solutions (ULTS), Madappalli College.P.O., Vadakara, Kozhikode <i>Nominee of Government of Kerala</i>
Member	<b>Shri.V.Naushad,</b> Senior Vice President, Confederation of Indian Footwear Industries & MD, VKC,VKC Group Calicut. <i>Nominee of Government of Kerala</i>
Secretary	Lt. Col Pankajakshan Upto 16/10/2021 Dr. Jeevamma Jacob 16/10/2021 to 11/04/2022 Registrar, National Institute of Technology Calicut

### 7.3 FINANCE COMMITTEE

Chairperson	<b>Shri.Gajjala Yoganand</b>
Ex. Officio Member	<b>Prof.Prasad Krishna</b> Director National Institute of Technology, Calicut

Member	<b>Special Secretary or Additional Secretary or Joint Secretary</b> dealing with Technical Education, Department of Higher Education, Ministry of Education, Government of India
Member	<b>Financial Advisor, Department of Higher Education,</b> Ministry of Education, Government of India
Member	<b>Dr.Manu R</b> Professor, Mechanical Engineering NIT Calicut. <i>Nominee of BoG</i>
Member Secretary	Lt. Col Pankajakshan Upto 16/10/2021 Dr. Jeevamma Jacob 16/10/2021 to 11/04/2022 Registrar, National Institute of Technology Calicut

#### 7.4 BUILDING AND WORKS COMMITTEE

<b>Ex. Officio Chairman</b>
<p><b>1. <a href="#">Prof. Prasad Krishna</a></b> Director, National Institute of Technology Calicut (Kerala)</p>
<b>Members :</b>
<p>2 . Nominated by the Central government not below the rank of Director /Deputy Secretary  <b>3. Dr. M.A.Nazeer</b> , Dean (Planning &amp; Development)  <b>4 . Mr.A.Mohammed,</b>  (Superintending Engineer, KPWD Roads &amp; Bridges, North Circle, Calicut  <b>5. Mrs.Shaji Sudhakaran,</b>  (Deputy Chief Engineer, Electrical Circle, Kozhikode)  <b>6 . Dr.Chithra K,</b>  <b>Associate Professor</b>  Department of Architecture &amp; Planning  (Representing Board of Governors)</p>
<b>Secretary</b>

7. Lt. Col Pankajakshan Upto 16/10/2021

Dr. Jeevamma Jacob 16/10/2021 to 11/04/2022

Registrar,

National Institute of Technology Calicut

## 8 CONCESSIONS FOR SCs, STs, DIFFERENTLY ABLED STUDENT

All concessions for SC/ST and Pwd as per Govt of India guidelines are provided by the institute. Also all scholarships in respect of SC, ST and PwD (State and Central Government) are processed and facilitated by the institute.

## 9 FINANCIAL STATUS

### 9.1 Analysis of Plan and Non-Plan Grants

PARTICULARS	Rs. In lakhs			
	2018-2019	2019-2020	2020-2021	2021-2022
Govt. of India –Grant (Non-Plan)	18256	11640.10	13636.59	15056.29
State Govt. Grant (Non-Plan)	-	-	-	-
Govt. of India Grant (Plan-General)	376	362.56	500	744
Govt. of India (Plan-OSC)	-	-	-	-

### 9.2 Expenditure position for last three years

PARTICULARS	Rs. in lakhs			
	2018-2019	2019-2020	2020-2021	2021-2022
Expenditure	1266.23	866.13	699.67	862
Expenditure - Non-Plan	13736.20	14693.7	14879.43	15056.29

## 10 CENTRAL FACILITIES AND SERVICES

### 10.1 Computer and IT Services



### 10.1.1 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 four fully operational terminals spanning over three floors of the building.

The Decision Support System (DSS) of the institute also operates from the Centre building. The Centre has 190+ client machines and has a capacity to include 400+ machines. Client systems are of both desktop and workstation genre.

Desktops contain HP Prodesk 600 G2, DELL OPTIPLEX 755 and 7010 series which are of adequate performance and workstations contain Fujitsu Celsius W570 power, HP XW4550 and DELL Precision series machines which are capable of more than handling high end production and design level applications. CCC hosts some of the high end servers and a hybrid cluster machine. Servers include DELL PowerEdge T620 which has a dual Hexa-core processor and HP ProLiant Rack server which has a dual Quad-core processor. High performance cluster machine (14 node CPU-GPU cluster system) which has a computational capability of 25 TeraFlops is accessible along the length and the breadth of nitc campus. CCC plans to expand and transform in to a world class facility in the near future with a futuristic outlook by strongly activating the super computer user group activities, and encompassing parallel computing servers, multi processor compute servers and application servers etc..

Location: ITL 303, IT Laboratory Complex

Faculty-in-Charge: Dr. Jayaraj P B Assistant Professor, CSEDCentre Administrator: A Rajagopalan

Computer Technician: G Sasidharan Pillai

### 10.1.2 Campus Networking Centre

The Campus Networking Centre (CNC) is the Central Facility providing the software, hardware and networking support to the entire student and staff community of NITC Campus spread around 400 acres. CNC manages the Internet connectivity (both wired and wireless), Institute website, IP Phones and also provide hardware, software and all other IT related solutions for the entire Institute. The campus is interconnected with about 30 kms of fiber-optic backbone network with 80 routed internal networks, managed by the Unified Threat Management system. The Centre 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. Presently the network is served by 1 Gbps of Internet connectivity provided by M/s. BSNL under NKN scheme of MHRD and another 1 Gbps leased line, drawn from M/s. BSNL. All the hostels are served with Internet connectivity through wired mode. The Institute website is managed by CNC. CNC functions on a 24x7 basis 365 days without any holidays. 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.

## 10.2 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

## 10.3 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.

### 10.3.1 CENTRAL LIBRARY

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	1,07,275	314	1,07,589
2.	Special section books for SC/ST	16,295	115	16,410

3.	Reference books	8,179	0	8,179
<b>Total</b>		<b>1,31,749</b>	<b>429</b>	<b>1,32,178</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	13	25	25
2.	International Online Journals	4,206	4,457	4,457
<b>Total</b>		<b>4,219</b>	<b>4,482</b>	<b>4,482</b>

**10.3.2 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.

### 10.3.3 E-Source Subscription

Category	Total as on March 2021	Total as on 31st March 2022
Onlinee-Journals(through ESS consortia)	2,144	2,144
E-books	4,683	4,827
E-Journals	2,210	2,313
E-Databases/Web based Tool	10	12
Standards (ASTM, BIS)	31,647	31,647
NITC Resources (Faculty reports,Students' thesis, Course notes)	6852	7207
<b>Total</b>	<b>47,546</b>	<b>48,150</b>
Journal Back Vol.s	14,411	14,411
<b>Grand Total</b>	<b>61,957</b>	<b>62,561</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
- 3 HP ProOne 400 Client Machines
- 16 IP Camera, Network video recorder,28 port Dlink switch
- 2 Canon MF 244DWPrinter

- 2 Epson printer M2120
- 2 Datamax Barcode Printer
- 30 KVA Socomec MASBC UPS
- 5 Cisco SRS 2024 switches
- 2 WiFi Router

### 10.3.4 Programmes organized by ETL 2020-2021

- Grammarly Training Webinar 15-06-2022
- Training section for E4TP 05-05-2022

### 10.3.5 Staff Position

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

J Sobhana	Librarian Gr IV (Librarian in-charge, Rtd on 31.05.2022)
T Jayarajan	LIA SG II (Librarian in-charge)
K P shaju	Senior Technician SG II
K Jayaraman	Technical Assistant SG II
M K Chandramohan	Graphic Artist (Rtd on 29.07.2022)

### Supporting office staff

Vinod K P	Office Attendant SG II
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Project Digital Library Technical Assistant : 3  
 Project Digital Library Computer Assistant : 4 (2 Post vacant)  
 Adhoc Library Assistant : 17 (4 Post vacant)  
 Adhoc Library Helper : 10 (6 Post vacant)  
 Adhoc Office Assistant : 2

## 10.4 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
- Secure Computing Laboratory

## **DEPARTMENT OF ELECTRONICS AND COMMUNICATION**

- 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**

### **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

#### **DEPARTMENT OF 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 METATERIALS SCIENCE AND ENGINEERING**

- Microscopy centre, SMSE

### **10.5 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)

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 stude

nts 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.

### **10.6 PHYSICAL FACILITIES (GAMES & SPORTS)**

<b>SL. NO.</b>	<b>FACILITIES</b>	<b>QUANTITY</b>
(i)	25 m. Non-Standard Swimming pool	01
(ii)	25 Station Multi Gymnasium - Standard	01
(iii)	Hockey field - Clay court	01
(iv)	Cricket Stadium with Turf match & practice wickets	01
(v)	Cricket Net Practicing Cage - (Turf-1, Clay-1, Concrete -1)	03
(vi)	Football field - Clay court	01
(vii)	Basketball - Concrete Outdoor - Flood lighted	02
(viii)	Volleyball - Outdoor - Flood lighted	01
(ix)	Tennis Complex- Clay courts - Flood lighted	03
(x)	Tennis Court Synthetic - Flood lighted	01
(xi)	Handball Court - Clay court	01
(xii)	Multi-purpose Auditorium for Indoor Games - (non-standard)	01
(xiii)	Kho-Kho - Clay Court - Outdoor- Flood lighted	01
(xiv)	Kabaddi - Clay Court - Outdoor- Flood lighted	02
(xv)	Badminton - Synthetic Court - Indoor Flood lighted	01
(xvi)	Badminton - Cement Court - Standard Flood lighted	02
(xvii)	Table Tennis - Cement Court - Flood lighted	04
(xviii)	Athletic Track- 400M (Clay Track & Field)	01

## **10.7 OTHER FACILITIES**

### **10.7.1 CENTRE FOR BIO-MECHANICS**

The Centre for Biomechanics, inaugurated on September 10, 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.

### **10.7.2 CENTRE FOR TESTING & CERTIFICATION – CTC**

The centre for testing and certification was established in 1999 with financial assistance from Ministry of Industries & Commerce, Government of Kerala. The centre was established in mainly to help small scale entrepreneurs of the State of Kerala. Variety of testing equipments has been acquired for facilitating testing of electronic components, systems and gadgets.

Faculty in Charge : Dr. Sindhu T K

### **10.7.3 ADVANCED MANUFACTURING CENTRE & SOPHISTICATED INSTRUMENTS 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/>

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.

#### 10.7.4 MICROSCOPY CENTRE

Microscopic Centre established in 2009 and managed by 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

#### 10.7.5 ENGINEERING UNIT FOR CIVIL AND ELECTRICAL WORKS

National Institute of Technology, Calicut		
<u>Engineering Unit</u> ref:- Eng Unit/D1/18		
Annual Report 2021-22		
<u>CIVIL WORKS</u>		
SL NO.	NAME OF WORK	STATUS
1	Urgent repair and replacing work of Asbestos cement roof sheet at Chanakya Hall	Completed
2	Construction of a shelter for incinerator near FB Apartment in NIT campus	Completed
3	Providing work tables and construction of partition wall in room no. 213 at chemistry department	Completed
4	Providing darkroom facility for Optics/ Spectroscopy lab equipments near Room 106 of	Completed
5	Sound proofing and carpeting work of hall no. 102 (NLHC) for setting up smart classroom in CSE department	Completed
6	Providing aluminium partition in room no. 206 (research lab-1) at Chemical Engineering Department	Completed

7	Providing aluminium partition for tension - compression creep testing machine in production block	Completed
8	Providing new water supply line PG 1 Hostel to main building for diverting the line connected with proposed subway construction	Completed
9	Renovation works in Electrical Machines lab (Region-I) of EED including providing aluminium partition, floor tiles, ceiling with calcium silicate board etc..	Completed
10	Urgent maintenance works in labs & classroom walls in CED and EED	Completed
11	Replacing damaged floor tile at room no. 101A, 110, 110A and 111(ground floor) in chemical engineering	Completed
12	Repair / renovation work of Main Canteen	Completed
13	Providing Partition, Work benches and Racks for storage of Chemicals at room no. 108, 101, 303 of Chemistry Department	Completed
14	Urgent maintenance work of replacing damaged roof sheet by transparent Trafford sheet in Science block	Completed
15	Urgent maintenance/renovation works of director bungalow including replacement of aluminium doors, windows, sanitary fittings, roof sheet and toilet modification works	Completed
16	Maintenance works of auditorium in connection with the orientation programme in the	Completed
17	Providing partitions, false ceiling foundation work for installation of NMR spectrometer in room no. 103 at Science Block	Completed
<b><u>ELECTRICAL WORKS</u></b>		
<b>SL</b>	<b>NAME OF WORK</b>	<b>STATUS</b>
1	Providing 54 Nos UPS Sockets and 01 No Power Socket at DST FIST lab, Maths Dept.	Completed
2	Providing Three phase electrical connection to newly purchased machines at Heat Transfer Lab, CHED.	Completed
3	Providing additional light / fan / exhaust fan / power plug points and Industrial socket, including providing UPS points at SMGO Research lab, Room No. 213, Chemistry Dept.	Completed
4	Providing Electric connection to newly purchased NMR Spectrometer and modification of lighting at Room No. 103,	Completed
5	Modification of Electrical wiring at New Central Library.	Completed
6	Providing 4 Nos LED Flood light to new synthetic badminton court at auditorium.	Completed
7	Providing Three phase electrical connection to Ultrasonic extractor at Fluid Mechanics Lab, Room No :109 CHED.	Completed

8	Electrification of Liquid nitrogen plant laboratory including modification of lighting, fixing of exhaust fan & providing 2 Nos Copper Plate Earthing for NMR lab, Chemistry Dept.	Completed
9	Providing Three phase electrical connections & Exhaust Fans in NMRL and PG laboratory at SMSE.	Completed
10	Electrification of P2F Pilot plant project MHRD SAP.	Completed
11	Replacing the existing damaged incomer cable to D - Hostel.	Completed
12	Providing Three phase electric connection to newly purchased Welding machine at MED.	Completed

## 10.7.6 CAMPUS SCHOOL

### 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 activities of the academic year 2021-22 was held amidst the world wide pandemic situation of Covid 19 and the physical classes began in November 2021. The school has done advanced planning with the help of teachers, parents and the management and conducted the whole academic session online for all the classes from I to XII. All possible means of online education including Google class rooms, WhatsApp video and audio lectures, online study materials were used successfully to run the academics till October. The effort of the school was well appreciated by all stakeholders. One of the notable achievements of the school is that **Spring Valley School was ranked the 3<sup>rd</sup> Best Co-Ed Day School in Kozhikode by the Education World India Ranking in the year 2021.**

The school had excellent result in CBSE Class X & XII Board Examination 2022, Out of 24 students in class X, 8 students got 90% and 12 got distinction and 4 got First Class. (The Toppers of X: School Topper: Ananya P 98.2%, Priyadarshini A S 96.8%, Neha K 96.4 %, Mayur Swami 96.2%, Alan S Ramdas 94.2%, Bhadra Sajith 94%, Hridya Rajesh 92.2% and Paarvana S 92%). Out of 16 students in class XII, 7 students got distinction, 7 got First Class and 2 students got Second Class (Topper of Class XII Anamika B Theresa 93.8%).

Due to the pandemic no kalotsav was conducted, but our kids has participated in many

activities like Quiz, scholarship examinations, and painting competitions at district, state and national levels, they had also won many prizes and certificates.

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

Some infrastructural development of the side building, assembly ground and computer lab are in progress.

Office Bearers as on 31.03.2022:

- 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

## 11 NOTABLE ACHIEVEMENTS

### 11.1 Institute Publications During the Year 2021-2022

SL NO	DEPARTMENT	JOURNAL	INTERNATIONAL CONFERENCE	NATIONAL CONFERENCE	PATENT
1	Architecture	39	9	2	Nil
2	Chemical Engineering	47	11	3	Nil
3	Civil Engineering	65	79	12	1
4	Mechanical Engineer	96	63	2	14
5	Computer science and Engineering	56	22	6	1
6	School of Management Studies	7	9	Nil 1	Nil
7	School of Biotechnology	41	8	3	2

8	Electrical Engineering	48	39	Nil	Nil
9	Electronics and Communication Engineering	47	28	2	6
10	Physics	15	Nil	Nil	Nil
11	Mathematics	30	Nil	Nil	Nil
12	Chemistry	53	4	2	2
13	School of Material Science and Engineering	10	2	Nil	1
14	School of Biotechnology	35	Nil	1	2

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

<http://www.nitc.ac.in/nitcpublications/INSTITUTE-PUBLICATIONS-OF-VARIOUS-DEPARTMENTS-2021-2022.pdf>

## 11.2 ACHIEVEMENTS TOOK PLACE DURING THE YEAR 2021-2022

### 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 campus relations Member of BoG
Dr. Naseer M.A	Faculty Functionary (Civil Works) Senate Member BoAC Member BS Lab in Charge Purchase Coordinator M Plan Coordinator B Arch Academic Coordinator



Dr. Mohammed Firoz C.	PhD Coordinator Associate Dean Students Welfare
Dr. Chithra K	Editor - Department Newsletter BoG Member Department Timetable in charge Department Consultancy coordinator CAAD Lab in charge
Dr. Shyni Anilkumar	Faculty Advisor- 2017, Admission B. Arch.
Dr. Bimal P.	Faculty Advisor M Plan 2021Batch PTA Coordinator for Department Lab In Charge for IMDL Sports Council Member NSS Coordinator Institute gymnasium incharge Warden MHB1 Administrator nitca website
Dr Anjana Bhagyanathan	Examination Coordinator Council of Architecture Coordinator Creative Arts Lab in Charge Faculty advisor 2018 batch In charge, seminar and exhibition hall In charge, student counselling Design of NITCAA Sponsored landscape projects
Dr. Deepthi Bendi	Faculty Advisor 2019 batch Coordinator of Student Affairs – ASA, Tathva, NASA, Students Symposium/ Workshops, Adiziya
Dr. Amritha P K	Faculty Advisor- B.Arch. 2020 admission Academic coordinator- Academic Records & Results CoA Report, Inspection Annual Report and other centralized compilation of data for various events/reports
Ar. Ritesh Ranjan	Faculty Advisor- B.Arch. 2021 admission Annual Report and other centralized compilation of data for various events/reports Coordinator of Student Affairs – ASA, Tathva, NASA, Students Symposium/ Workshops, Adiziya Department Information for Annual Report, Website, NIRF Inputs. Member, Space management and allocation committee, designing for institute administration blocks

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

SL.NO	TITLE	COORDINATORS	DURATION & PERIOD
1	Workshop on Introduction to BIM in Architecture,	Dr. Mohammed Firoz C., Dr. Deepthi Bendi,	5 days

	Engineering & Construction	Ar. Ritesh Ranjan	
2	Workshop 2021 on Architectural Design Enhancement and Modelling	Dr. Chithra K., Dr. Deepthi Bendi, Dr. Amritha P.K.	5 days
3	Building Energy Analysis through tools and Techniques of BIM – National Level Workshop	Dr. Chithra K., Dr. Deepthi Bendi, Dr. Amritha PK	6 Days

## DEPARTMENT OF CHEMICAL ENGINEERING

### a. Other Academic and Administrative Services

NAME OF STAFF	ACADEMIC AND ADMINISTRATIVE SERVICES
Dr. Haribabu K	Associate Dean (Students Welfare), Faculty Coordinator - ICCR, Member - Center for Cultural and Art Relations., Department Coordinator - Alumini Affairs
Dr. Teja Reddy Vakamalla	UG Admissions Committee member, Member of Center for Industry Institute Relations (CIIR), Convocation Committee member, Arrangement Committee member for NBA Visit, Departmental NBA committee member, B. Tech Project Evaluation Committee, Faculty Advisor
Dr. Noel Jacob Kaleekkal	Faculty Advisor, Department NIRF Coordinator , Department Purchase Coordinator, Department TEQIP Coordinator
Dr. P Swapna Reddy	DCC Secretary, UG Project Evaluation Committee, Faculty advisor,
Dr Lily Alen Varghese	UG Admission chairperson, Member of General Arrangement committee during NBA visit, PG coordinator of 2020 batch, Institute curriculum revision committee member
Dr. Aparna. K	HoD during 2021-22
Dr. Malladi V Pavan Kumar	Department PhD coordinator, Faculty Advisor
Dr.Sudev Das	Nodal Officer (EBSB), PG Admissions Committee member, Member of Unnat Bharat Abhijan, Departmental Sports Coordinator, Convocation Committee member, Departmental NBA committee member, B. Tech Project Evaluation Committee, M. Tech Project Evaluation Committee, Faculty Advisor
Dr Vineesh Ravi	PG admission deputy chairperson, Fit India Coordinator, Health Centre in Charge, PhD Coordinator, Internal quality assurance cell member, Sports council member, Department coordinator - Alumni affairs,
Dr. susmita Das	"Mechanical operation lab incharge, Examination co-ordinator, Faculty incharge of placement, Faculty Advisor, Departmental NBA committee member Committee, Faculty advisor, "
Dr Dhanya Ram V	Department Time Table Incharge, Faculty Advisor,

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

SL.NO	TITLE	COORDINATORS	DURATION & PERIOD
1	International Online Conference on “Sustainable Technologies in Water Treatment and Desalination (STWTD-2020)” supported by MDRD-SPARC and Indian Membrane Society from 28th - 29th January 2022	Dr. Noel Jacob Kaleekkal, Dr. Prasanna Kumar S Mural	28th -29th January 2022
3	TEQIP-III sponsored Faculty Development Program (FDP) on “Novel Perspective in Technologies for Micro-Pollutant Removal from Aqueous System (NPTMRAS)" held at Department of Chemical Engineering, NIT Calicut from 20th – 25th Jan 2021.	Dr. Noel Jacob Kaleekkal, Dr. Prasanna Kumar S Mural	20th – 25th January 2021
4	International Conference in Fluid, Thermal and Energy Systems – 2022 (ICFTES'22)	Dr.Sudev Das, Dr.Teja Vakamalla Reddy	February 2022
5	SERB sponsored One day Research facility training program, 15 december, 2021	Dr. Susmita Das	15 december, 2021
6	AICTE Training and Learning (ATAL) Academy Sponsored FDP on Advanced Process Control APC -2021 February 1-5, 2021	Dr Dhanya Ram V, Dr Kanagalakshmi S	February 1-5, 2021

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

SL. NO.	NAME OF STAFF	TITLE OF THE PROGRAMME	DURATION AND PERIOD	ORGANIZATION
1	Dr. Teja Reddy Vakamalla	Faculty Development Program on "Computational methods in Engineering: Applications in Research and Industry"	January 5-12, 2022	Government Engineering College, Kozhikode
2	Dr. Teja Reddy Vakamalla	Faculty Development Program on "Thermal Analysis in Multiphase Flows/Systems", Department of Mechanical Engineering	December 1-6, 2021	K L University
3	Dr. Noel Jacob Kaleekkal	Invited Talk- ‘Development of Robust membranes for Desalination and water treatment’ at 2nd International	January 5-12, 2022	Government Engineering College, Kozhikode

		Conference on Sustainable Technologies in Water Treatment and Desalination (STWTD-2022) organized by department of Chemical Engineering, NIT Calicut on 28-29 January 2022		
4	Dr. Noel Jacob Kaleekkal	Handled a session on 'Membranes as a Sustainable Technology for Water Recovery' in Short Term Program by Department of Chemistry, Manav Rachna University "Bio privilege and Sustainable Chemistry", 17th January 2022.	January 5-12, 2022	Government Engineering College, Kozhikode
5	Dr. Noel Jacob Kaleekkal	Handled a session on 'Development of Nanomaterial incorporated Polymeric membranes for versatile applications' in FDP on Smart and Functional Nanomaterials by the Department of Chemistry, NIT Calicut 4th to 8th August 202	January 5-12, 2022	Government Engineering College, Kozhikode
6	Dr. Noel Jacob Kaleekkal	Invited Talk- 'Tailoring the performance of polymeric membranes for various applications' in Seminar on Membrane Research: Today & Tomorrow; Organized by National Institute of Foundry and Forge Technology Ranchi, Jharkhand, India on 19th March 2021 (online).	January 5-12, 2022	Government Engineering College, Kozhikode

## DEPARTMENT OF CIVIL ENGINEERING

### a. Community Services

#### **Dr. M. Sivakumar**

- Member of the State Technical Agency for scrutinizing the DPR of Rural roads under PMGSY Scheme, North Seven Districts of Kerala.

#### **Dr. R. Arunkumar**

- Chaired a session (Technical Session – VI General Civil Engineering on 25th March 2022) in the International Virtual Conference on "Smart and Sustainable Development of Urban Green Infrastructure in India and Canada" (SSDUGI – 2022) organized by the Department of Civil Engineering, National Institute of Technology Tiruchirappalli during 25-26 March 2022.

- Chaired a session (Technical Session – TS8-HHM6 on 25th December 2021) in the 26th International Conference on Hydraulics, Water Resources and Coastal Engineering (HYDRO 2021 INTERNATIONAL) organized by SVNIT Surat, Gujarat, India during December 23-25, 2021.
- Reviewer of Journal of Hydrology; Journal of Hydrologic Engineering, ASCE; Water Resources Management; Journal of Earth System Science; Journal of Water and Climate Change; Journal of Water Supply

**Dr. Robin Davis**

- Completed the supervision of skywalk structure along with Dr Sajith A S at Govt Medical College Kozhikode
- Initiated the activities for the structural vetting and training of skilled labours in the prefabricated building technology using light gauge frames supported by ASAP and a private firm along with Dr Sajith A S.
- Initiated the discussions along with Dr Sajith A S for the MOU between the various departments of Govt Medical College and NITC for mutual collaboration in data sharing and innovations in the medical field.

**Dr Sajith A S**

- Skywalk structure at Kozhikode Medical College: The work involves the design scrutiny and supervision of construction of the sky walk structure in Kozhikode Medical College Campus, connecting three buildings. Dr Robin Davis P. and Dr Sajith A.S. participated from NIT Calicut

**b. Other Academic and Administrative Services**

NAME OF STAFF	ACADEMIC AND ADMINISTRATIVE SERVICES
Dr. Santosh G. Thampi	<ul style="list-style-type: none"> <li>• Professor &amp; Head, Dept. of Civil Engineering</li> <li>• Program Co-ordinator, M Tech (Water Resources Engineering) – 2020 Admissions</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 of R&amp;D Proposals, Laboratory Development and Modernisation, Planning of Courses, Continuing Education Programs, Workshops, Seminars, Revision of Curriculum etc</li> <li>• Faculty i/c, Environmental Geotechnology Laboratory</li> <li>• Co-ordinator , Consultancy – Geotechnical Engg.</li> <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. P.V. Indira	<ul style="list-style-type: none"> <li>• Head of the department of Civil Engg.</li> <li>• Other duties collect information from allocation of Duties</li> </ul>
Dr. N. Sankar	<ul style="list-style-type: none"> <li>• Faculty Advisor, B.Tech (Civil Engineering) - 2017 Admissions</li> <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>• Faculty Advisor, B.Tech (Civil Engineering) – 2019 Admissions Faculty in charge, Offshore Engineering Laboratory</li> <li>• Programme Co-ordinator, M. Tech. Civil Offshore Structures – (2020 admission)</li> </ul>

	<ul style="list-style-type: none"> <li>• Member, R&amp;D Proposals, Laboratory Development and Modernization, Planning of Courses, Continuing Education Programs, Workshops, Seminars, Revision of Curriculum etc.</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 of R&amp;D Proposals, Laboratory Development and Modernisation, Planning of Courses, Continuing Education Programs, Workshops, Seminars, Revision of Curriculum etc.</li> <li>• Co-ordinator of Student Counselling</li> <li>• Co-ordinator, Consultancy –Structures</li> <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>• PhD Programme Co-ordinator</li> <li>• Co-ordinator, Departmental Timetable Committee</li> <li>• Faculty Advisor, B.Tech (Civil Engineering) – 2017 Admissions</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>• Member of R&amp;D Proposals, Laboratory Development and Modernisation, Planning of Courses, Continuing Education Programs, Workshops, Seminars, Revision of Curriculum etc.</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>• Superintending Engineer (i/c), NIT Campus</li> <li>• Programme Coordinator, M.Tech Traffic and Transportation Planning – 2020 Admissions</li> <li>• Faculty Advisor, B.Tech Civil Engineering – 2018 Admissions</li> </ul>
Dr. Praveen Nagarajan	<ul style="list-style-type: none"> <li>• Co-ordinator, Departmental Data Management</li> <li>• Faculty Advisor, B.Tech. (Civil Engineering) – 2020 Admissions</li> <li>• Faculty i/c, Structural Engineering Laboratory</li> <li>• Member of the Departmental Purchase Committee</li> <li>• President of ICI</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, Engineering Unit, NITC(9th February 2022 till date)</li> <li>• TEQIP Coordinator, (April 1st 2021 to January 31st 2022)</li> <li>• Programme Coordinator ( M.Tech. Structural Engineering 2021 Admissions)</li> </ul>
Dr. Kodi Ranga Swamy	<ul style="list-style-type: none"> <li>• Program Co-ordinator, M Tech (Environmental Geotechnology_ - 2020 Admissions</li> <li>• Faculty i/c, Geotechnical Engineering Laboratory</li> <li>• Faculty Advisor, B.Tech (Civil Engineering) – 2018 Admissions</li> <li>• Data collection and management (Details pertaining to the faculty including publications, courses, training programs, Conference etc.,)</li> <li>• Member, Departmental Vigilance Committee</li> <li>• Member, Student counselling</li> </ul>

	<ul style="list-style-type: none"> <li>• Member in many Doctoral Committees</li> </ul>
Dr. Chitra N R	<ul style="list-style-type: none"> <li>• Examinations in charge of the institute</li> <li>• Convener of the Committee for revision of rules and regulations</li> <li>• IRCC (Institute level Research &amp; Consultancy Committee) member from the department</li> <li>• Faculty Advisor for 2021 batch students</li> </ul>
Dr. George K Varghese	<ul style="list-style-type: none"> <li>• Faculty in charge, Environmental Engineering Lab</li> <li>• Faculty Advisor, B.Tech.(Civil Engineering) – 2019 Admissions</li> <li>• Member of R&amp;D Proposals, Laboratory Development and Modernisation, Planning of Courses, Continuing Education Programs, Workshops, Seminars, Revision of Curriculum etc</li> <li>• Data collection and management (Data pertaining to the B.Tech program)</li> <li>• Faculty i/c, Departmental Timetable Committee</li> <li>• Member, Committee for consolidation of database of department alumni</li> <li>• Member in many Doctoral Committees</li> </ul>
Dr. Harikrishna M	<ul style="list-style-type: none"> <li>• Placement Co-ordinator and Vice-Chairperson, Centre for Career Development</li> <li>• Programme Co-ordinator, PG Programme in Traffic and Transportation Planning : 2021 Admissions</li> <li>• Faculty Advisor: BTech 2020 Admissions</li> </ul>
Dr. Sathish Kumar D	<ul style="list-style-type: none"> <li>• Faculty Advisor for Civil batch 2019</li> <li>• Faculty I/C, Surveying Lab</li> <li>• Associate Dean (Planning &amp; Development)</li> <li>• GEM &amp; e-procurement purchase coordinator, Department of Civil Engineering</li> <li>• Member, Committee for scrutiny of Tenders regarding Civil Works at NIT Calicut</li> </ul>
Dr. Robin Davis	<ul style="list-style-type: none"> <li>• Hostel warden</li> <li>• Chairperson, Room Allotment Committee</li> <li>• Member of CIIR</li> <li>• PTA Coordinator</li> <li>• Write off and disposal of items</li> </ul>
Dr. Anjana Bhasi	<ul style="list-style-type: none"> <li>• Faculty Advisor</li> <li>• CEA Vice-president</li> <li>• Member IRG committee</li> <li>• Member EOC</li> <li>• Member CIEI</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 2021-22</li> <li>• NITC Hostel warden (MBH1)</li> <li>• Annual stock verification 2019-2021 coordinator for MED including centre for Biomechanics, CAD-CAM, SMSE and workshop</li> <li>• Institute Management System (IMS) member for Sponsored Research, Consultancy, incubation management</li> </ul>
Dr. M. Sivakumar	<ul style="list-style-type: none"> <li>• Faculty Advisor for 2019 Admitted Batch of B.Tech. in Civil Engineering.</li> <li>• Warden, PG II (Boys) Hostel till 31.07.2021</li> <li>• Member of the Committee to study scope and working system of Electric vehicle inside the campus. Committee formed by Dean (SW)</li> </ul>

Dr. Mini Remanan	<ul style="list-style-type: none"> <li>• Programme Coordinator of M Tech Structural 2020 admission</li> <li>• Lab in charge of Structural Engineering Lab</li> </ul>
Dr. Pramada S K	<ul style="list-style-type: none"> <li>• Faculty Advisor (2020 Batch BTech Civil Engineering Students)</li> <li>• Programme Co-Ordinator (2021 Batch MTech Water Resources Engineering)</li> </ul>
Ms. Reesha Bharath K	<ul style="list-style-type: none"> <li>• Faculty Advisor, B. Tech.(Civil Engineering) – 2019 Admissions</li> <li>• Faculty i/c, Basic Engineering Workshop</li> <li>• Member, Departmental Web Page Management Committee</li> <li>• Data collection and management (Details pertaining to the B. Tech programme and details pertaining to the faculty including publications, courses, training programs, conferences etc)</li> <li>• Member of R&amp;D Proposals, Laboratory Development and Modernisation, Planning of Courses, Continuing Education Programs, Workshops, Seminars, Revision of Curriculum etc</li> <li>• Member in many Doctoral Committees</li> </ul>
Dr. R. Arunkumar	<ul style="list-style-type: none"> <li>• Faculty Advisor 2017–2021 batch</li> <li>• CAD Lab Incharge</li> <li>• Warden, International Hostel till July 31, 2021</li> <li>• Co-Ordinator, Stock Verification, 2022</li> <li>• Department Faculty Placement Nominee, CED</li> <li>• Member, EOC</li> <li>• Member in many Doctoral Committees</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. Civil (Offshore Structures) -2022 Admissions</li> <li>• Member, Department Alumni database</li> <li>• Faculty in charge of Offshore Engineering Laboratory</li> </ul>
Dr. Renjitha Mary Varghese	<ul style="list-style-type: none"> <li>• Faculty advisor (UG 2018 admission)</li> <li>• Data management for NBA accreditation (M-Tech Environmental Geotechnology)</li> <li>• Exam vigilance committee of the department</li> <li>• One of the lab in-charges of the Geotechnical engineering lab</li> <li>• Lab in charge of Geology laboratory</li> <li>• Member of B-Tech Civil Engineering project evaluation committee in the academic year 2021-22</li> <li>• Library advisory committee member from Civil Engineering Department</li> <li>• Doctoral Committee member of several PhD Scholars</li> </ul>
Dr. Agilan V	<ul style="list-style-type: none"> <li>• Faculty i/c, Surveying Lab</li> <li>• Faculty i/c, Departmental Information/Database management</li> <li>• Faculty Advisor, B.Tech Civil, 2018 batch</li> <li>• Member in Doctoral Committees</li> <li>• Member, Institute Master Plan Committee</li> <li>• Department Sports Coordinator</li> </ul>
Dr. Aswathy E. V.	<ul style="list-style-type: none"> <li>• Faculty Advisor 2017 – 21&amp; 21-25 Batch</li> <li>• Ladies Hostel Hostel warden</li> <li>• Data management for NBA accreditation (Environmental Engineering)</li> <li>• Faculty-in-charge of Environmental Engineering Lab</li> </ul>



	<ul style="list-style-type: none"> <li>• Convenor, Department AQMC</li> <li>• Member, Department Purchase Committee</li> <li>• Member, EBSB club</li> </ul>
Dr. Yogeshwar V Navandar	<ul style="list-style-type: none"> <li>• FA for First Year BTech Admission 2021-22</li> <li>• Work as Departmental Faculty Coordinator for Workshop I (Civil)</li> <li>• Work as Departmental Faculty Coordinator for NHLC classrooms (NHLC103, 104, 201, 202, 203, 204)</li> </ul>
Dr. Jayachandran K	<ul style="list-style-type: none"> <li>• Faculty advisor for 2021 B.Tech. Civil Engineering</li> <li>• Coordinator for monsoon semester 2021-22 for 2019 batch</li> <li>• Committee member - Centre for Yoga and Holistic Wellness</li> <li>• Committee member - Centre for Indian Knowledge system</li> <li>• Laboratory In-Charge for Concrete laboratory</li> <li>• Faculty In-charge for Seminar Hall, conference room, etc.</li> </ul>
Dr. Seethalakshmi P	<ul style="list-style-type: none"> <li>• Faculty advisor for 2020 B.Tech Civil Engineering</li> <li>• Coordinator for winter semester 2021-22,</li> <li>• Laboratory In-Charge for Geology Lab</li> <li>• Laboratory In-Charge for CAD Lab</li> <li>• Faculty In-charge for Department Library</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 2021-25 batch students</li> <li>• Faculty-in-charge of CAD Lab for UG</li> <li>• Panel member of M.Tech thesis evaluation for Offshore Structures</li> </ul>
Dr Suman Saha	<ul style="list-style-type: none"> <li>• Teaching (UG/PG) and research works (Guidance of M.Tech and PhD students).</li> <li>• Warden, D-Hostel.</li> <li>• Faculty Advisor for B. Tech 2020 admissions</li> <li>• Faculty-in-charge, Strength of Materials laboratory and Concrete laboratory</li> </ul>

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

SL. NO.	TITLE	COORDINATORS	DURATION & PERIOD
1	Co-ordinator for Online 2 <sup>nd</sup> STTP on “Tools for Transportation Data Analysis & Modelling”, NIT Calicut,	Dr. Yogeshwar V Navandar, Dr K. Krishnamurthy	27 <sup>th</sup> May – 01 <sup>st</sup> June, 2021
2	ATAL FDP on “Emerging Technologies for Sustainable Environmental Management”	Dr. Anantha Singh T. S., Dr. George K. Varghese, Dr. Aswathy E. V.	5 days , 31 <sup>st</sup> May to 4 <sup>th</sup> June 2021
3	International conference on sustainable Water Management and Ecosystem Restoration, Organized by centre for remote sensing and geoinformatics and department of civil engineering, Satyabbama Institute of Science and Technology in association with NIT Calicut & Karunya institute of technology and	Dr. Marykutty Abraham, Dr. S.K. Pramada, Dr Jegadambal	23-24 June 2021

	sciences, Coimbatore		
4	STTP on Earthquake Engineering-Basics, Code Provisions, Control and Retrofitting ( EE-BCCR)	Dr Muhamed Safeer P.K., Dr Robin Davis P., Dr Sajith A.S.	26 <sup>th</sup> to 28 <sup>th</sup> July 2021 ( 3 days)
5	8 <sup>th</sup> International Conference on Transportation Systems Engineering and Management (CTSEM 2021),	Dr. M.V.L.R. Anjaneyulu, Dr. K. Krishnamurthy	26-27 <sup>th</sup> , August 2021
6	Five-days online faculty development programme on “Recent Advances in Infrastructures Developments (RAID)”	Dr. Suman Saha, Dr. Yogeshwar V. Navandar	5 days, 01 <sup>st</sup> – 05 <sup>th</sup> September, 2021
7	Online Short Term Training Programme (STTP) On Recent Advances in Marine Vehicles and Structures (RAMVS)	Dr. Anil Kumar Dash, Prof. A P Shashikala	5 days, 4 <sup>th</sup> – 8 <sup>th</sup> October 2021
8	Advancements in Geotechnical Engineering (AGE 2021).	Dr. Seethalakshmi, Dr. Renjitha Mary Varghese, Dr. Anjana Bhasi	22 <sup>nd</sup> - 26 <sup>th</sup> November 2021
9	Online STTP on “Application of MCDM Methods in Logistics and Transportation Engineering”	Dr. Yogeshwar V Navandar, Dr Devendra K Yadav	01 <sup>st</sup> – 05 <sup>th</sup> December, 2021
10	Online Short Term Training Programme on “Tools for Transportation Data Analysis & Modelling” (TTDAM 2022)	Dr. K. Krishnamurthy, Dr. Harikrishna M., Dr. Yogeshwar V. Navandar	January 17 – 21, 2022, 5 days
11	Five Days Online Short-Term Training Programme on Roadmap for Effective Research using Advanced Techniques and Tools (REAT 2022)	Dr. Jayachandran K., Dr. Sandip Rudha Budhe, , Dr. Yogeshwar V. Navandar,	14 <sup>th</sup> – 18 <sup>th</sup> February 2022 (5 days)
12	Second International Conference on Materials, Mechanics & Structures (ICMMS2022)	Dr. Muhamed Safeer Pandikkadavath, Dr. Suman Saha	10-12 March 2022

**d. 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	Online Short Term Training Programme (STTP) On Recent Advances in Marine Vehicles and Structures (RAMVS)	5 days, 4 <sup>th</sup> – 8 <sup>th</sup> October 2021	NIT Calicut
2	Dr. George K. Varghese	Waste Management & Impact of Pollutants" in the ISTE sponsored FDP on Environmental Impact	20-04-2021	M Dasan Institute of Technology Ulliyeri

		Assessment		
3	Dr. George K. Varghese	“Restore our Earth” in the webinar conducted in connection with the Earth Day celebrations	22-04-2021	Govt. Degree College Pampore, Jammu and Kashmir
4	Dr. George K. Varghese	Environmental Forensics” in a dedication webinar session organized for the future engineers of PCB	07-05-2021	Joint Action Council of Kerala State Pollution Control Board Engineers
5	Dr. George K. Varghese	Environmental Forensics in the ATAL FDP	04-06-2021	Department of Civil Engineering, NIT Calicut
6	Dr. George K. Varghese	Environmental Impact Assessment- How it is practiced in India in a dedicated session	12-08-2021	Govt. Engineering College Thrissur
7	Dr. George K. Varghese	Environmental forensics as keynote in Yukthi 2021- International Conference on Emerging Trends in Engineering	24-09-2021	GEC Kozhikode
8	Dr. George K. Varghese	“Air Pollution Forensics” in the FDP on "Management of Air Quality using modelling and IoT for resilient sustainable smart cities"	23-12-2021	Thiagarajar College of Engineering
9	Dr. Harikrishna M.	Online Short Term Training Programme on “Tools for Transportation Data Analysis & Modelling”	January 17 – 21, 2022,	NIT Calicut
10	Dr. Jayachandran K	Webinar course on Advanced Concrete Technology	(25 hours) Sep. 15, 2021 to Oct. 15, 2021	ICI-Kochi Centre and DH Academy, Kerala
11	Dr. Jayachandran K	Three-day FDP on Advances in Civil Engineering	(3 days) Nov. 28, 2021 to Nov. 30, 2021	St.Thomas College of Engineering & Technology, Chengannur, Kerala
12	Dr. Jayachandran K	One-day webinar on Durability of Concrete Structures	(1 day) Oct. 25, 2021	MES College of Engineering, Kuttippuram, Kerala
13	Dr. Jayachandran K	Five-day international FDP on “Challenges and Innovative Techniques in Concrete Structures”	(5 days) Oct. 25, 2021 to Oct. 29, 2021	Jyothi Engineering College, Thrissur, Kerala
14	Dr. Jayachandran K	5th 1-day seminar on Corrosion Control in Concrete Structures (C3S) (Mechanisms, Testing,	(1 day) Dec. 04, 2021	NACE Gateway India Section - South Zone and IIT Madras, Chennai,

		Monitoring and Mitigation)		Tamil Nadu
15	Dr. Jayachandran K	Webinar on Repair and Maintenance of Buildings for Civil Engineers	(1 day) Dec. 17, 2021	Indian Institute of Coal Management (IICM), Rachi, Jharkhand
16	Dr. Ranga Swamy K	Prof. DK Paul Commemorative Workshop on Earthquake Engineering and Disaster Mitigation	27.12.2021	IIT Roorkee
17	Dr. Rangaswamy K	7 <sup>th</sup> ICORAGEE	July 12-15, 2021	IIT Roorkee
18	Dr. Jayachandran K	AICTE-ISTE Sponsored One Week ONLINE Induction/Refresher Program on “Repair, Rehabilitation and Retrofitting of RCC Structures”	(7 days) Jan. 20, 2022 to Jan. 27, 2022	Annasaheb Dange College of Engineering and Technology, Astha, Maharashtra
19	Dr. Jayachandran K	Five days FDP on Green Concrete Technology	(5 days) Feb. 21, 2022 to Feb. 25, 2022	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology, Chennai, Tamil Nadu
20	Dr. Rangaswamy K	Workshop on “Site Investigation and Soil Exploration Techniques for Geotechnical Design” (Liquefaction analysis of soil profiles and design of geotechnical structures).	11.11.2021	Department of Civil Engineering, School of Infrastructure, B.S. Abdur Rahman Crescent Institute of Science and Technology, Chennai
21	Dr. K. V. Anand	Recent Advances in Marine Vehicles and Structures	4th – 8th October, 2021	NITC
22	Dr. M. Sivakumar	Online Technical Seminar Funded by TEQIP	05/01/2022	Government Engineering College, Kozhikode
23	Dr. Arunkumar, R	International Conference on Innovations in Civil Engineering	January 14, 2022	Department of Civil Engineering, SCMS School of Engineering and Technology (SSET), Karukutty, Ernakulam - 683 576
24	Dr. Arunkumar, R	AICTE-ISTE sponsored Induction/Refresher Program on “Recent Advancement in Environmental and Water Resources Engineering”	30th Dec 2021	Department of Civil Engineering, Anjuman-I-Islam’s Kalsekar Technical Campus, New Panvel

25	Dr. Arunkumar, R	26 <sup>th</sup> International Conference on Hydraulics, Water Resources and Coastal Engineering (HYDRO 2021 INTERNATIONAL)	December 23-25, 2021	SVNIT Surat, Gujarat
26	Dr. Arunkumar, R	National Seminar on "Climate Change Vulnerabilities on Built Environment	Dec 20-22, 2021	Department of Civil Engineering, Mepco Schlenk Engineering College, Sivakasi, Tamil Nadu
27	Dr. Arunkumar, R	Two day online workshop on 'Sustainable Water Resources Management'	17 <sup>th</sup> November 2021	Department of Civil Engineering, Mepco Schlenk Engineering College, Sivakasi, Tamil Nadu
28	Dr. Arunkumar, R	One week faculty development program on 'Innovative Research Areas in Civil Engineering'	27 <sup>th</sup> October 2021	Department of Civil Engineering, Mangalam College of Engineering, Ettumanoor
29	Dr. Arunkumar, R	Guest Lecture on 'Assessment of potential linkages of precipitation with large-scale climate patterns using wavelet-based approaches'	1 <sup>st</sup> September 2021	Department of Civil Engineering, Government Engineering College, Thrissur
30	Dr. Arunkumar, R	AICTE Training and Learning (ATAL) Online FDP on 'Engineering Optimization Techniques and its Applications' (ENOTAA-2021)	14-18 June, 2021	Department of Civil Engineering, Government College of Engineering Aurangabad
31	Dr. Robin Davis P	FDP on Bridge Engineering	21-25 March 2022	GEC Thrissur
32	Dr. Robin Davis P	FDP on Seismic Performance of Structures	21 – 31 March 2022	NIT Warangal
33	Dr. Sajith A.S.	STTP on Earthquake Engineering-Basics, Code Provisions, Control and Retrofitting ( EE-BCCR)	26 <sup>th</sup> to 28 <sup>th</sup> July 2021 ( 3 days)	NIT Calicut
34	Dr. Sajith A.S.	ATAL FDP on Recent Advances in Earthquake Engineering	06-10, December 2021	Vidya Academy of Science and Technology.
35	Dr. Santosh G Thampi	STTP on Climate Change Induced Challenges in Civil Engineering	14.03.2022 to 18.03.2022	Govt. Engineering College, Thrisuur
36	Dr. Santosh G Thampi	Training of Engineers of KERI and IDRIB, Dept. of Water Resources, Govt. of	04.12.2021, 27.12.2021-29.12.2021,	Kerala Engineering Research Institute(KERI),

		Kerala	31.01.2021	Peechi
37	Dr. Sathish Kumar D	Online Internship program on GIS	June -July 2021	GEC Barton Hill
38	Dr. Sathish Kumar D	Online Internship program on GIS	November 2021	GEC Barton Hill
39	Dr. Sathish Kumar D	Climate Change Data Analysis	14.03.2022 to 19.03.2022	SCMS College Of Engineering
40	Dr. Seethalakshmi P	National Seminar on “Disaster Resilient Infrastructure”	11th and 12th March 2022 (two days)	Department of Civil Engineering, National Institute of Technology Puducherry
41	Dr. Suman Saha	“Celebration of World Engineering Day for Sustainable Development” under the theme of Build Back Wiser Engineering the Future	04 <sup>th</sup> March, 2022	The Institutions of Engineers (India), Kozhikode Local Centre
42	Dr. Suman Saha	APJ Abdul Kalam Technological University Sponsored Online Faculty Development Program on “Construction Industry - Present and Future Trends”	21 <sup>st</sup> - 26 <sup>th</sup> June, 2021	Department of Civil Engineering, Federal Institute of Science and Technology (FISAT)
43	Dr. Yogeshwar V Navandar	Application of OPM and SEM in Transportation Engineering Five Days Online FDP on Current Practices in Transportation Engineering	15 <sup>th</sup> to 19 <sup>th</sup> June 2021	A J Institute of Engineering and Technology, Mangaluru, Karnataka
44	Dr. Yogeshwar V Navandar	Application of Intelligent Transportation System (ITS)	29 <sup>th</sup> April 2021	SRESOCOE, Kopargaon, Maharashtra,

**e. Consultancy and testing**

SL. NO.	NATURE OF SERVICE	ORGANIZATION	REVENUE EARNED (LAKHS)	STATUS
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1	Verification of the Detailed Project Report (DPR) for the Faecal Sludge and Septage Treatment Plant (FSSTP) at Kavaratti Island	The RFO& Head (Environment Division), UT of Lakshadweep Administration, Kavaratti Island	1.00	Completed
2	Study of air emissions from Indo Shell Cast Pvt. Ltd.	Indo Shell Cast Pvt. Ltd., Coimbatore	10.00	Under progress
3	Consultancy	Harbour Engineering Department, Sub Division Thalai, Thalassery	0.35	Completed
4	Structural Audit of building owned by Canara Bank	Canara Bank, Koyilandi	0.59	Completed
5	Third Party Auditing of Railway Bridges	Southern Railways	10.00	Completed
6	Assessment of Legacy Waste at the Brahmapuram Solid Waste Dumpyard of the Kochi Municipal Corporation	Kochi Municipal Corporation	7.788	Completed
7	Assessment of Legacy Waste at the Kureepuzha Solid Waste Dumpyard of the Kollam Municipal Corporation	Kollam Municipal Corporation	3.776	Completed
8	Assessment of Legacy Waste at the Chelora Solid Waste Dumpyard of the Kannur Municipal Corporation	Kannur Municipal Corporation	3.304	Completed
9	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	Ongoing

10	Design of Raw Sewage Sump cum Pump House at the Accommodation for the Indian Coast Guard, Kochi	Military Engineering Services, Kochi	1.50	Completed
11	Slope Stabilisation, Hydrodynamic Studies, Shoreline Assessment Studies for the Proposed Indian Coast Guard Academy at Kenjaru, Dakshina Kannada Dt., Karnataka	MECON Limited	32.00	Ongoing
12	Estimation of various components in the sediments deposited in the Kallarkutty reservoir, Idukki District	Kerala State Electricity Board Ltd.	30.80	Ongoing
13	Testing	Wayanad Wildlife Division, Sulthan Bathery	1.25	Completed
14	Testing	The Assistant Executive Engineer, Office of the Assistant Executive Engineer, Irrigation Sub division, Ponnani	0.39	completed
15	Testing	North Wayanad division Mananthavady	0.20	Completed
16	Testing	South Wayanad division, Kalpetta	0.20	Completed
17	Testing	South Wayanad division, Chedleth	0.20	Completed
18	Testing	Nilambur South Division and Wildlife Sanctuary	0.20	Completed
19	Testing	MoU with NCESS	0.07	Completed
20	Testing	MoU with NCESS	0.08	Completed
21	Testing	Kerala State Coastal Area Development Corporation	0.05	Completed



22	Testing	Cozymud Organic Architecture	0.05	Completed
23	Consultancy	Bore Tech Services, Kochi	0.17	Ongoing
24	Random verification of annual inventory on Hazardous waste management facilities in Tamilnadu and Kerala	<p>M/s Varun Beverages Limited, Wise Park, Industrial Development Area, Kanjikode East, P.O., Palakkad -678621</p> <p>M/s Swaraj Bio Fuel Energy II VIII/1256, NIDA Kanchikode, Palakkad -678621</p> <p>M/s EL Tech Power System Pvt Ltd, S.F No. 106pt, Thirumazhisai village, Poonamallee Taluk, Thiruvallur District</p> <p>Ms Chennai Used Empty Drums and Barrel Reconditioning Tiny Industries and Small Traders Development Association, Kakkalur Village, Tiruvallur District, Tamilnadu</p> <p>M/s Asian Paints, Plot E6 to F13, SIPCOT Industrial Park, Sriperumbudur, Kancheepuram district</p> <p>M/s Pfizer Healthcare India Private Limited, SF No. 476/14, 16A, Sholinganallur village &amp; taluk, Kancheepuram district</p>	1.00 (approx.)	Report submitted

**f. Patents acquired and filed**

SL. NO.	NAME OF STAFF	TITLE	YEAR
1	Dr. Yogeshwar V Navandar	Medical-IoT System for Estimating Hospital Beds Vacancy, Re-Routing of Emergency Human Logistic Vehicle & Thereof”, (Patent	Validity: Eight years from 25 August 2021

## **DEPARTMENT OF COMPUTER SCIENCE**

Organized the International Symposium on Biocomputing (ISB 2010) at Calicut, Kerala, jointly with the Indiana University Purdue University Indianapolis (IUPUI), USA, with cooperation from the Association for Computing Machinery (ACM).

Organized the Indo-US Workshop on Biocomputing (ISB 2011) at Calicut, Kerala, jointly with the Indiana University Purdue University Indianapolis (IUPUI), USA, with cooperation from the IUSSTF and NSF.

Organized the IEEE International Conference on Signal Processing, Informatics, Control and Energy Systems (IEEE SPICES) jointly with the Departments of Electrical Engineering and Electronics and Communication Engineering, NIT Calicut in February 2015.

Dr. S.D Madhu Kumar has been selected as ‘Big Data’ Track- Co-Chair for the IEEE International Conference - Recent Advances in Intelligent Computing Systems (RAICS 2013)

Dr. Muralikrishnan K won the ‘Best Ph. D Thesis Award’ from the Indian Institute of Science (IISc), Bangalore in the year 2008.

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.

Dr. S.D Madhu Kumar gave the keynote address in the International Conference on Advances in Computing, Communications and Information Science (ACCIS’14) at TKM College of Engineering Kollam.

Dr. S.D Madhu Kumar has served as Algorithms Tracks Co-Chair along with Dr. Priya Chandran and Dr. K Murali Krishnan for Seventh International Conference on Contemporary Computing (IC3 2014)-

Dr. S.D Madhu Kumar has served as Program Chair for the International Workshop on Access Control Policies, Models and Mechanisms (ACPM-2014), Delhi.

Dr. S.D Madhu Kumar has been selected as Vice Chair- ACM Trivandrum Professional Chapter.

Dr. S.D Madhu Kumar has served as Publicity Co-Chair for the ACM DEBS 2014

Dr. S.D Madhu Kumar has served as Cloud Computing Track co-Chair for the ACM SAC 2014.

Dr. S.D Madhu Kumar has served as TPC Member for the 3rd International Workshop on Collaborative Cloud (CollabCloud 2014) of 10th IEEE International Conference on Collaborative Computing: Networking, Applications and Worksharing, Miami, Florida, United States

A paper by titled “A Computational Method for Drug Repositioning using Publicly Available Gene Expression Data” authored by Shabana K M, Abdul Nazeer K A, Meeta Pradhan and Mathew J Palakal won the “Best paper Award” in the 4th IEEE International Conference on Computational Advances in Bio and Medical Sciences (ICCABS-2014) held at Florida, USA in June 2014.

Two of the three members of the Organizing Committee of ACM SAC-2016, Piza, Italy - Cloud Computing

Track, are from this department - Dr. Priya Chandran (Professor) and Dr. Madhukumar S D (Associate Professor)

Dr. S.D Madhu Kumar has been selected as Cloud Computing Track co-Chair for the ACMSAC 2016

Dr. S.D Madhu Kumar has served as PC Member of IEEE International Conference -Recent Advances in Intelligent Computing Systems (RAICS 2015)

Dr. S.D Madhu Kumar has served as Steering Committee member of the International Conference on Computing and Network Communications (CoCoNet'15)

Dr. S.D Madhu Kumar has served as Keynote Speaker of Lecture Workshop on Internet of Things at GRD College Coimbatore- 2015

Dr. S.D Madhu Kumar had given a Keynote Speech at the International Conference on Data Science Analytics and Applications (DaSAA'16), Guindy Engineering College, Chennai.

Dr. S.D Madhu Kumar gave a Keynote speech at ICIA 2016, Coimbatore

Dr. S.D Madhu Kumar has served as TPC Member in International Workshop on Internet-scale Clouds and Big Data (ISCBD 2016) Pittsburgh, PA, USA.

Dr. S.D Madhukumar has served as TPC Member of PerfIoT: Workshop on Performance Evaluation of IoT Applications , France

Dr. S.D Madhukumar has served as - TPC Member 2nd IEEE International Conference on Anti-Cyber Crime (ICACC)'2017 , Abha, Kingdom of Saudi Arabia

Dr. S.D Madhukumar served as - TPC Member -IEEE TenSymp 2017, Cochin

Dr. S.D Madhukumar has served as - TPC Member Symposium on Pervasive Systems, Algorithms, and Networks (IEEE I-SPAN 2017), Exeter, England

Dr. S.D Madhukumar has been selected as Secretary, CREC Silver Jubilee Endowment Trust ( 2016 onwards)

Dr. S.D Madhukumar and Dr. Priya Chandran have been selected as Track Chairs of ACM SAC 2017 Cloud Computing Track

Dr. Jimmy Jose has been selected as Programme Committee Member, National Workshop on Cryptology '17, Annual event of Cryptology Research Society of India organised by the Department of Computer Science & Engineering, NIT Trichy during 28-30, Aug 2017.

Dr. Anu Mary Chacko, Dr. Madhu Kumar SD, Alfredo C published a book chapter in the book Automatic Provenance Capture at Middleware in Big Data Context, University of Derby, United Kingdom: Springer Verlag GmbH, ISBN: 9783319701011

Dr. S D Madhu Kumar Selected as TPC Member- Symposium on Pervasive Systems, Algorithms, and Networks (IEEE I-SPAN 2017), Exeter, England

Dr. S D Madhu Kumar has served as PC Member - 2nd IEEE/ACM International Workshop on Distributed Big Data Management (DBDM 2017) Madrid, Spain- In conjunction with IEEE/ACM CCGRID2017

Dr. S D Madhu Kumar has served as Track Chair-ACM SAC 2017 Cloud Computing Track

Dr. S D Madhu Kumar has served as Tutorial Speaker (Big Data Analytics Tools and Techniques) -IEEE SPICES2017

Dr. S D Madhu Kumar has served as Academic Liaison Chair-IEEE Cloud Computing for Emerging Markets, 2018.

Dr. S D Madhu Kumar has served as Program Chair- 2nd International Workshop on Internet Scale Clouds and Big Data ( ISCBD) 2017, San Jose California

Dr. S D Madhu Kumar , Anu Mary Chacko have been served as co-Chairs- IEEE TENCON2017 - Special session on Big Data Provenance

Dr. S D Madhu Kumar delivered a Keynote speech in ICETEST 2018, Government Engineering College, Thrissur

Dr. K.A. Abdul Nazeer has been selected as Member of the NIRMAN initiative, A network of institutions in Calicut for collaborative activities aimed at social development.

Dr. K.A. Abdul Nazeer has been selected as Member, Executive Committee, 'Bioinformatics Centre', Indian Institute of Spices Research, Calicut.

Dr. K.A. Abdul Nazeer has served as Member, Advisory Committee for NBA Accreditation, Govt. Engineering College, Kannur, 2017.

Dr. K.A. Abdul Nazeer has served as Visiting faculty at Govt. Engineering College, Wayanad, 2017.

The Department of Computer Science & Engineering, National Institute of Technology Calicut jointly with the Department of Radiation Oncology and Medical Physics, MVR Cancer Centre and Research Institute (MVR CCRI), Calicut organized 6-days' Faculty Development Programme on "Geometry, Imaging and Parallel Computing Techniques for Cancer Treatment (GIPCAN 2019)", under

TEQIP-III at NIT Calicut, from 10 th to 15 th June 2019. Dr. Jayaraj P B, Dr. Pournami P N and Dr. Subhasree M of Dept. of Computer Science & Engineering, NIT Calicut and Dr. NiyasPuzhakkal, Head (Medical Physics Division), MVR CCRI were the coordinators for the programme. This FDP introduced the latest trends in cancer treatment planning using various image processing, computational geometry, and parallel computing techniques.

Department of Computer Science & Engineering, National Institute of Technology Calicut jointly with the Institute of Mathematical Sciences Chennai organised an NCM-ACM India Summer School on “Graph theory and Graph Algorithms”, at NIT Calicut, from 17<sup>th</sup> June to 5<sup>th</sup> July 2019. Dr. Subhasree and Dr. Subashini coordinated this summer school and it was sponsored by National Centre for Mathematics, IIT Bombay, ACM-India and Dell Technologies.

Dr Anu Mary Chacko and Dr Gopakumar G served as track chairs for Health Informatics track of ACM SAC 2019, 2020 and 2021.

Dr. Madhu Kumar S D 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.

Dr. Madhu Kumar S D has served as **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, Mangalueu for a period of 3 years i.e, 29.11.2021 to 28.11.2024.

Dr. Madhu Kumar S D has served as **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	4 Days

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

SL. NO.	NAME OF STAFF	TITLE OF THE PROGRAMME	DURATION AND PERIOD	ORGANIZATION
1	Dr. Subashini R	Fixed-Parameter Tractable Algorithms for Simultaneous Consecutive Ones Submatrix Problems through online mode on 16-09-2021 as part of the DTE-sponsored training programme on Algorithms and Complexity (Online Course)	13/09/2021 to 17/09/2021	The Dept. of Information Technology, Government Engineering College Idukki

2	Dr. Subashini R	“Introduction to Parameterized Complexity” in DTE-sponsored online FDP on "Recent Trends in Algorithms"	24th November 2021	The Dept. of Information Technology, Government Engineering College Idukki
3	Dr. Lijiya A	"Computer vision and deeplearning for Assistive Technologies" in a KTU FDP titled <i>Recent advancements in Image processing and computer vision - 2021</i>	17-05-2021 to 21-05-2021	LBS college of Engineering for WOMen, Trivandrum
4	Dr. Lijiya A	lecture on National ScienceDay	Feb 28, 2022	Indian Institute of Spices Research, Kozhikode
5	Dr. Jay Prakash	AICTE QIP Sponsored STCon “Computational Intelligent Models for Electrical Engineering Applications	Sep 6th to 10th 2021	National Institute of Technology Arunachal Pradesh
6	Dr. Madhu Kumar SD	“Transform the Challenges into Opportunities for a Better Career Development –A Post COVID Perspective”, Keynote Speaker in CHRIST ENGINEERING CONGRESS 2021 (CEC 2021)	13th July 2021	Christ College of Engineering, Irinjalakuda, Thrissur, Kerala
7	Dr. Madhu Kumar SD	“Campus life & Discipline”, Invited lecture in the AICTE sponsored Induction Program for students”	23 <sup>rd</sup> December 2021	NIT Agartala
8	Dr. Anil Pinapati	Faculty Development Programme on “Cyber Security Principles and Defensive Mechanisms” On Topic “Introduction to Cyber Security.”	21.03.2022 to 31.03.2022	Pondicherry University, in collaboration with NIT, Warangal

9	Dr. Anil Pinapati	“Number Theory and Cryptography”	November 24 to 26, 2021	LBS Institute of Technology for Women, Thiruvananthapuram
10	Dr. Anil Pinapati	webinar on the topic “Current Research Trends in Elliptic Curve Cryptography”	23 <sup>rd</sup> Sep 2021	BVRIT College of Engineering, Hyderabad
11	Dr. Anil Pinapati	“Advance topic in Cryptography” in an FDP	20 <sup>th</sup> – 30 <sup>th</sup> August 2021	Department of Computer Science and Engineering, Electronics & ICT Academy, NIT Warangal & Sastra Deemed to Be University, Thanjavur, TamilNadu
12	Dr. Arun Raj Kumar P	Talk on “Sensors and Protocol Layers”, AICTE Training and Learning (ATAL) Academy FDP on Sensor Data Analytics	29 <sup>th</sup> November 2021 to 03 <sup>rd</sup> December 2021	Indian Institute of Information Technology (IIIT), Kottayam, Kerala
13	Dr. Anil Pinapati	“Foundations of Modern Cryptography (FoMC-2021)” on “Elliptic Curve Cryptography” in the FDP	15 – 19 Nov 2021	Department of Computer Science and Engineering, NIT Calicut

**c. Patents acquired and filed**

SL NO	NAME OF STAFF	TITLE	YEAR
1	Jimmy Jose, Devika S,K Arvind Menon, Vignesh Krishnan, Amruthlal M, Ameer Suhail, Swapneel Chandrakant Mhatre	A DEVICE WITH AI INTERFACE FOR PREDICTING DOSAGE OF VITAMIN K ANTAGONISTS FOR MANAGING ORAL ANTICOAGULANT DRUGS	2021

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION**

**a. Community Services**

NAME OF STAFF	COMMUNITY SERVICES
Dr. M. Surya Prakash	Worked as a Reviewer for National Conference on “Advances in Computing, Communication, Signals, Energy and Technology” held at College of Engineering Vadakara, from 26th May, 2021 to 27th May, 2021. Worked as a Reviewer for “The Journal of Institute of the Engineers”, 2021-22.
Dr. V. Sakthivel	Appointed as Examiner for the PhD Thesis Evaluation of VIT Vellore, Tamilnadu in October 2021. 2. Appointed as Observer for the Joint CSIR-UGC NET Exam, June 2021 Phase II conducted by NTA, Ministry of Education, India. 3. Appointed as Observer for the NEET UG Exam, August 2021 conducted by NTA, Ministry of Education, India. 4. Secretary of Faculty Association of NIT Calicut (From June 2021 to till date).
B. Bhuvan	1. Reviewer, IEEE Sensors Journal 2. Reviewer, Swadeshi Microprocessor challenge 2021 3. Member, External review panel for Embedded Systems & VLSI, NPOL
Raghu C V	NSS Programme Coordinator, NIT Calicut Technical Committee member to finalise technical specification of thermal rifle to be purchased under SIS (Kerala Police) Technical Committee member for DRIP- Supply, Installation, Testing, Commissioning, Training and Maintenance of real time structural health monitoring and early warning system at Idukki Dam Board of studies member, Department of Applied Electronics and Instrumentation, Rajagiri School of Engineering and Technology Member, Department advisory board, ECE department of Govt. Engineering College, Wayand Member of the Judging panel in final year project award 2021 organized by IEEE and Genskill.



Sudeep P V	<p>Mentor, Smart India Hackathon 2022</p> <p>Mentor, INSPIRE Awards- MANAK Mentorship Workshop May 26, 2022</p> <p>Mentor, YIP 2020 of K-DISC</p> <p>Technical Committee Member, IEEE National Conference on Advances in Computing Communication Signals Energy and Technology (ACCSET 21) organised by College of Engineering Vadakara on May 2021.</p> <p>External examiner for six PhD Comprehensive viva at APJ Abdul Kalam Technological University, Kerala.</p> <p>Reviewer, 1st International Conference on Artificial Intelligence, Computational Electronics and Communication System organised by Manipal Institute of Technology, Karnataka on October 2021.</p> <p>External DC member for PhD scholar: (1) College of Engineering, Trivandrum, Kerala (2) VIT, Vellore, TN</p> <p>Resource person, KTU sponsored Faculty Development Program (FDP) on "Recent developments in Machine Learning and Datascience" organised by Toc H Institute of Science and Technology on June 2021</p> <p>Resource person, KTU sponsored Faculty Development Program (FDP) on "Deep Learning for Signal Processing - Basics to Implementation" organised by Sahrudaya College of Engineering and Technology in April 2021.</p> <p>Reviewer, IEEE Journal of Biomedical and Health Informatics, Elsevier Journal of Signal Processing, Springer SN Computer Science.</p> <p>Faculty coordinator for NITC stall for 'Ente Keralam' Exhibition at Marine Ground, Kozhikode Beach during 19-25 April 2022</p> <p>Reviewer, 1st International Conference on Artificial Intelligence, Computational Electronics and Communication System organised by Manipal Institute of Technology, Karnataka on October 2021</p> <p>PhD thesis Examiner, Manipal University, Manipal.</p>
Sreelekha G	<p>Member, Board of Studies (BoS), Electronics &amp; Communication Engineering, Kerala Technological University (KTU).</p> <p>Reviewer of International Journals: SoftwareX, Signal, Image and Video Processing (SIVP), IET Signal Processing, IET Image Processing</p> <p>Ph D Thesis Evaluator: Cochin University of Science and Technology</p>
Sudhish N George	<p>Examiner - PhD Thesis</p> <p>Doctoral Committee Member:</p> <p>Session Chair, Conferences:</p> <p>Reviewer- Journals/Conferences:</p> <p>Resource Person - FDPs/Workshops:</p> <p>Department Advisory Board: MACE Kothamangalam, MITS Cochin &amp; Vidya Trissur</p>
Chandan Yadav	<p>Reviewer: IEEE TRANSACTIONS ON ELECTRON DEVICES</p> <p>Resource Person: FDP/Workshop</p> <p>External doctoral Advisory Committee Member for two PhD students at Vellore Institute of Technology Vellore</p>
Ashutosh Mishra	<p>Resource Person at various FDP/Workshop</p> <p>Reviewer: Cluster Computing</p> <p>Mentor Synopsis Innovation Chap 2022</p> <p>Evaluator Toyathon 2021</p>

Deepthi P P	Member of Board of Studies, Mar Baselios College of Engineering and Technology, Thiruvanthapuram, Kerala Member of Department Advisory Board, NSS College of Engg, Palakkad Member of Department Advisory Board, Govt Engg College, Palakkad Member of Board of Studies, NITK, Surkal Reviewer of many international journals PhD Thesis evaluator DC chair in KTU Keynote speaker/ resource person
G Abhilash	Reviewer (Journal): (1) Elsevier Signal Processing; (2) IET Science, Measurements and Technology Doctoral Committee Member: Department of Mathematics, EED, MED, CSED, ECED. Faculty Advisor: IEEE Signal Processing Society (Student Branch) Chapter, NIT Calicut
Bindiya T S	Doctoral Committee Member Reviewer- Journals/Conferences: Resource Person - FDPs/Workshops: Examiner - PhD Comprehensive Viva
Gopi Krishna S	Warden (2021-till date) IMS Implementation Committee IEEE SENSORS LETTERS IEEE JOURNAL OF THE ELECTRON DEVICES SOCIETY SILICON JOURNAL OF ELECTRONIC MATERIALS (JEMS) ECS JOURNAL OF SOLID-STATE SCIENCE AND TECHNOLOGY INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS JOURNAL OF COMPUTATIONAL ELECTRONICS (JCEL) IEEE CASS Graduate Project Award Presentation- Jury Member (2021)

**b. Other Academic and Administrative Services**

NAME OF STAFF	ACADEMIC AND ADMINISTRATIVE SERVICES
Dr. M. Surya Prakash	(1st April, 2021 to 6th August, 2021) <ul style="list-style-type: none"> <li>• Time-table In-Charge for ECED (jointly with Dr. Bindiya T. S.).</li> <li>• Faculty Incharge for Electronic Circuits Lab of ECED.</li> <li>• Faculty Advisor for the 2019-23 batch of ECE students (Jointly with Dr. Praveen Sankaran, Dr. Suja K. J. and Dr. Gopikrishna S.).</li> <li>• Committee Member for Disposal/Write-Off of unserviceable items of ECED.</li> <li>• Committee Member for preparation of Self-Assessment Report (SAR) for M. Tech Telecommunications specialization.</li> <li>• Member of the General Arrangements Committee for National Board of Accreditation Work for Telecommunications Specialization. (7th August, 2021 to 31st March, 2022)</li> <li>• Time-table In-Charge for ECED (jointly with Dr. Bindiya T. S.).</li> <li>• Faculty Incharge for Electronic Circuits Lab of ECED.</li> <li>• Faculty Advisor for the 2019-23 batch of ECE students (Jointly with Dr. Praveen Sankaran, Dr. Suja K. J. and Dr. Gopikrishna S.).</li> </ul>

Dr. Lalit Kumar	<ul style="list-style-type: none"> <li>• Faculty Advisor for the 2020-24 ECE_Batch-20</li> <li>• Committee member of CCAR</li> <li>• Exam Vigilance Committee</li> <li>• Coordination of Interview &amp; Document Verification</li> </ul>
Dr. V. Sakthivel	<ul style="list-style-type: none"> <li>• Official for the online admission process of JoSSA/CSAB at NIT Calicut for 2021-22 (UG Admissions)</li> <li>• SPCOM Lab Faculty-in-charge</li> <li>• Member in ECED Exam Vigilance committee</li> <li>• Convener, NITC Sports Council</li> <li>• Coordinator of B. Tech Major Project Evaluation Committee (Communication/SP)</li> <li>• DC member in EED and CSED.</li> <li>• Member in the committee of coordination of online interview and document verification (ECED).</li> </ul>
Dr Ameer P.M.	<ul style="list-style-type: none"> <li>• Program coordinator - MTech Telecommunication</li> <li>• Lab In charge - Communication Lab</li> </ul>
B. Bhuvan	<ul style="list-style-type: none"> <li>• Co-coordinator SMDP-C2SD</li> <li>• Faculty in charge (Department amenities)</li> <li>• Faculty in charge, VLSI Lab</li> <li>• Project evaluation committee member (M.Tech VLSI &amp; Microelectronics)</li> </ul>
A V Babu	<ul style="list-style-type: none"> <li>• Chairperson PG Admissions (Jan 2022 -)</li> </ul>
Raghu C V	<ul style="list-style-type: none"> <li>• Associate Dean (Academic)</li> <li>• NSS Programme Coordinator, NIT Calicut</li> <li>• SPOC, Shiksha Kaushal, NITC</li> <li>• Coordinator, Unnat Bharat Abhiyan</li> <li>• M.Tech (Electronics Design and Technology) Coordinator</li> <li>• ECED, Purchase coordinator</li> </ul>
Sudeep P V	<ul style="list-style-type: none"> <li>• Convenor and Innovation Ambassador, Institution's Innovation Council (IIC), NIT Calicut.</li> <li>• Faculty advisor, BTech 2021 batch</li> <li>• Evaluation Committee member, B Tech Major Project</li> <li>• Department Library in Charge</li> <li>• Department Website in Charge</li> <li>• Coordination of Online Interview &amp; Document Verification</li> </ul>

Dr. Sreelekha G	<ul style="list-style-type: none"> <li>● PG Admission Chairperson 2021 Admissions</li> <li>● Ph D Coordinator, ECED</li> </ul>
Dr. Dhanaraj K. J.	<ul style="list-style-type: none"> <li>● LMS Core Committee member of Institute</li> <li>● IMS Core Committee member of Institute</li> <li>● Department LMS Coordinator</li> <li>● Programme Coordinator, MTech Microelectronics and VLSI Design</li> <li>● Coordinator of Project Evaluation - MTech Microelectronics and VLSI Design</li> <li>● ECED nominee in Institute level PG curriculum revision committee</li> </ul>
Dr. Jaikumar M G	<ul style="list-style-type: none"> <li>● FA for 2<sup>nd</sup> year B.Tech. ECE</li> <li>● Overall Programme Coordinator-B. Tech</li> <li>● B.Tech. Project Evaluation Committee (Embedded System/VLSI)</li> </ul>
Sudhish N George	<ul style="list-style-type: none"> <li>● Associate Dean (Research &amp; Consultancy):</li> <li>● Coordinator NITC Examinations:</li> <li>● Program Coordinator, M. Tech Signal Processing:</li> <li>● Dept. Examination Coordinator:</li> <li>● Coordinator of Project Evaluation - MTech Signal Processing</li> </ul>
Jayakumar E. P.	<ul style="list-style-type: none"> <li>● Faculty in charge - Integrated Circuits Lab</li> <li>● Faculty Advisor - B. Tech ECE 2021-25 Batch</li> <li>● Member of Project Evaluation committee - M. Tech EDT</li> </ul>
Chandan Yadav	<ul style="list-style-type: none"> <li>● Faculty Advisor for the 2020-24 ECE_Batch-20</li> <li>● B. Tech Project Evaluation Committee (Embedded System/VLSI)</li> <li>● Faculty member for "Department Amenities"</li> </ul>
Ashutosh Mishra	<ul style="list-style-type: none"> <li>● Nodal Officer RACS-NITK, ISRO</li> <li>● Faculty Advisor for B2021 ECE Batch</li> <li>● B. Tech Project Evaluation Committee (Embedded System/VLSI)</li> <li>● Member in ECED Exam Vigilance committee</li> <li>● 1st Year Co-Coordinator</li> <li>● Faculty Incharge for Integrated Circuits Lab of ECED.</li> <li>● Member CIIR</li> <li>● Member UBA</li> <li>● Member IMS (Student Portal)</li> </ul>
Deepthi P P	<ul style="list-style-type: none"> <li>● HOD ECED</li> </ul>
G Abhilash	<ul style="list-style-type: none"> <li>● Member Representing the Department of ECE, Library Advisory Committee.</li> <li>● Member of M. Tech (SP) Project Evaluation panel</li> <li>● Member of the Interview panel for selecting PhD Candidates</li> </ul>
Bindiya T S	<ul style="list-style-type: none"> <li>● Dept. Time Table in Charge</li> <li>● Dept. Purchase Coordinator: Faculty Advisor 2018-22 Batch B.Tech</li> <li>● Member of B. Tech Project Evaluation Committee</li> </ul>

	<ul style="list-style-type: none"> <li>Associate Dean (Research &amp; Consultancy)</li> </ul>
Gopi Krishna S	<ul style="list-style-type: none"> <li>PSoC Lab Incharge (2018-till date)</li> <li>Faculty Advisor: B.Tech. (2019-23) Batch</li> <li>ECE Association Faculty Incharge (2020-till date)</li> </ul>
Sathidevi P S	<ul style="list-style-type: none"> <li>Director (i/c) from April 2021 to October 2021,</li> <li>Deputy Director: April 2021 - March 2022</li> </ul>

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

SL.NO	TITLE	COORDINATORS	DURATION & PERIOD
1.	Self Sponsored Five-Day Online Short Term Training Program (STTP) on “VLSI Architectures for Digital Signal Processing Systems” under Diamond Jubilee Celebrations of NITC	Dr. Ashutosh Mishra, Dr. M. Surya Prakash	5 days (14th June, 2021 - 18th June, 2021)
2.	Student Development Training Programme on “AI-IoT for Real Time Applications”	Raghu C V and Karthikeyan V (EED)	5 Days (22/07/2021-26/07/2021)
3	3D Graphics, Mr. Abhishek Rhisheekesan, Founder and CEO at aiRender Technology Pvt Ltd.	G Abhilash (IEEE SP Society SB Chapter)	One Hour, 21 March 2022
4	An Introduction to Compressed Sensing for Wireless Communications, Dr. Geethu Joseph Assistant Professor, Delft University of Technology, Netherlands	G Abhilash (IEEE SP Society SB Chapter)	One Hour, 16 October 2021
5	Advanced Micro/Nano Sensor Technologies: Modeling, Simulation, and Fabrication (AMNST’21)	Dr. Gopi Krishna Saramekala & Dr. Lintu Rajan	4 days, 2021

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

SL. NO.	NAME OF STAFF	TITLE OF THE PROGRAMME	DURATION AND PERIOD	ORGANIZATION
1.	Dr. M. Surya Prakash	International Conference on Advances in Signal Processing and Communications (NEC-ICASPC-2K21)	9th July, 2021 - 10th July, 2021	Narasaraopet Engg. College, A. P.
2.	Sudeep P V	KTU sponsored Faculty Development Program (FDP) on	June 2021	Toc H Institute of Science and Technology, Kerala

		"Recent developments in Machine Learning and Datascience"		
3.	Sudeep P V	KTU sponsored Faculty Development Program (FDP) on "Deep Learning for Signal Processing - Basics to Implementation"	April 2021	Sahrudaya College of Engineering and Technology, Kerala
4.	Sudhish N George	Recent Trends in Moving Object Detection	Jan 2022	Navodaya Institute of Technology, Raichur
5.	Sudhish N George	Recent Trends in Moving Object Detection	Feb 2022	K. S. School of Engineering and Management, Bangalore
6.	Chandan YADAV	Advanced Semiconductor Material and Devices (ASMD 2022)	January 2022	Vellore Institute of Technology (VIT) Chennai Campus
7.	Deepthi P P	Expert Lecture in faculty development programme on "Advanced Communication Systems - A Research Perspective"	09/08/2021 to 13/08/2021	Department of Electronics and Communication Engineering, College of Engineering, Karunagappally
8.	Deepthi P P	Keynote Lecture in National Symposium and Research Colloquium	11/09/2021	IEEE SB Govt. College of Engineering, Kannur
9.	Deepthi P P	Expert Lecture in 5 Days Online Hands-on Workshop on "5G Wireless Communication systems"	25/10/2021 to 29/10/2021	RV College of Engineering, Bengaluru

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

SL.NO	NAME OF FACULTY	QUALIFICATION ACQUIRED	INSTITUTE
1	Jaikumar M G	PhD	IIT Madras

**f. Consultancy and testing**

SL. NO	NATURE OF SERVICE	ORGANIZATION	REVENUE EARNED	STATUS
1	Consultancy	PhyTunes Inc, USA	Rs 17,42,242.00	Ongoing

**g. Patents acquired and filed**

SL. NO	NAME OF STAFF	TITLE	YEAR
1	Vinay Joseph (co-inventor)	US-2022141789-A1, Delivery time windows for low latency communications	2022 (filed)
2	Vinay Joseph (co-inventor)	US-2022124545-A1, Configuration, activation and deactivation of packet duplication	2021 (filed)
3	Vinay Joseph (co-inventor)	US-2022085932-A1, Sounding reference signals and channel state information reference signals enhancements for coordinated multipoint communications	2021 (filed)
4	Vinay Joseph (co-inventor)	US-2022046565-A1, Reference timing delivery to user equipment with propagation delay compensation	2021 (filed)
5	Vinay Joseph (co-inventor)	US-2022070838-A1, Dci triggered srs enhancements	2021 (filed)
6	Vinay Joseph (co-inventor)	US-2021367718-A1, Autonomous reference signal transmission configuration	2021 (filed)

**h. Student achievements**

SL.NO	NAME	ACHIEVEMENT
1	Anjali Sara Markose,	Winner of Synopsys Inno Champ 2022 (Female Category)
2	Sakhineti Praveena,	a student of the B19 batch of ECE received the prestigious Micron's URAM Scholarship with a scholarship amount of Rs 1,00,000.
3	Diyea Robin	a student of B 18 Batch won the Carolyn Leighton Scholarship 2021 which includes a one-year WITI membership and an opportunity to attend the 2021 WITI Global Summit. She also bagged the second position in the elocution competition conducted in association with the Azadi Ka Amruth Mahotsav.
4	Polamuri Ushaswini	won the first prize and runner up respectively in InnoChamp '22, the annual innovation challenge conducted by Synopsys Inc.

5	Veena Narayanan	Research Scholar (P180043EC) received Special Mention Award for her paper presented at the IEEE International Conference on Advanced Communication Technologies and Signal Processing 2021 (ACTS 2021) NIT Rourkela
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## DEPARTMENT OF ELECTRICAL ENGINEERING

### a. Community Services

NAME OF STAFF	COMMUNITY SERVICES
Sunitha R	<ol style="list-style-type: none"> <li>1. Ph D thesis evaluation of KTU (2nos),</li> <li>2. Doctoral committee member for APJ Abdul Kalam Technological University,</li> <li>3. Publicity Chair &amp; Session chair of IEEE CATCON), December 2021,</li> <li>4. Reviewer for ISA transaction November 2021,</li> <li>5. Reviewer for conference ICNGIS 2022</li> </ol>
Sindhu T K	<ol style="list-style-type: none"> <li>1. BoS member of Amrita Vishwa Vidyapeetham</li> <li>2. DC member of 2 PhD students of KTU</li> <li>3. Thesis Evaluation of KTH, Sweden</li> <li>4. CPRI project proposal evaluation</li> </ol>
Mithun M. S.	<p>Set question paper for KTU S4 examination in Aug 2021  subject expert for recruitment of maintenance engineers at Calicut University in May 2022  Key note address in National Conference E2F2 held at Sree Buddha College of Engineering, Pattoor in Nov 2021</p>
S.Kanagalakshmi	Expert member of Board of Studies Meeting for Department of Electronics and Instrumentation Engineering, GCT, Coimbatore.
Subha D.P.	PG BOS member KTU, DC member of PHD student in KTU, key note address given in 2 <sup>nd</sup> International Conference on Innovations in Renewable Energy Technologies, TVM, June 2021
Preetha P	<p>Question paper setter VCOE for women, Tiruchengode.  Delivered expert lecture for FDP at NIT Patna, NIT Calicut.  Reviewer of papers for IEEE CATCON</p>
Mithun M. S.	<ol style="list-style-type: none"> <li>1. Set question paper for KTU S4 examination in Aug 2021</li> <li>2. Subject expert for recruitment of maintenance engineers at Calicut University in May 2022</li> <li>3. Key note address in National Conference E2F2 held at Sree Buddha College of Engineering, Pattoor in Nov 2021</li> </ol>
S.Kanagalakshmi	Expert member of Board of Studies Meeting for Department of Electronics and Instrumentation Engineering, GCT, Coimbatore.
Subhash K.M.	Reviewer for Mysurucon 2022.
Nikhil Sasidharan	<ol style="list-style-type: none"> <li>1. Visited different panchayath under UNNath Bharath Abhiyan to collect the data of economically weaker people.</li> <li>2. Took a class and built a lab at Chenoth LP school under Unnath Bharath Abhayan</li> </ol>



Mija S J	<ol style="list-style-type: none"> <li>1. Reviewed many articles for IEEE Transactions on Systems, man and Cybernetics: Systems, Elsevier ISA Transactions, Ocean Engineering, Neural Processing letters</li> <li>2. Question paper setter &amp; evaluator for comprehensive Exam (written) and subject expert for comprehensive Exam (oral) of 3 Ph d scholars, college of engineering TVM, KTU</li> <li>3. Delivered expert lecture for the FDP on Control and Automation, 14 – 17 December 2021, organized by IIST, Trivandrum</li> </ol>
Kumaravel S	<ol style="list-style-type: none"> <li>1. Reviewed many articles in IEEE Transaction on Power Electronics, Industrial Electronics, Selected topics on power electronics, Circuits and Systems II, etc.</li> <li>2. Delivered talks in FDP at various Engineering Colleges in Kerala and outside</li> <li>3. Ph D thesis examiner at Anna University, and VIT</li> <li>4. DC Member of research students at KTU and VIT</li> <li>5. Track chair of PESGRE and ICFCR 2022</li> <li>6. Member, Board of Studies at Kongu Engineering College</li> <li>7. Question paper setter &amp; evaluator for comprehensive Exam (written) and subject expert for comprehensive Exam (oral) under KTU</li> </ol>
Rijil Ramchand	<ol style="list-style-type: none"> <li>1. Reviewed many articles in IEEE Transaction on Power Electronics, IEEE Transactions on Industrial Electronics, IET Power Electronics, IEEE Access. IEEE Transactions on Industry Applications etc.</li> <li>2. Delivered talks in FDP at various Engineering Colleges in Kerala and outside</li> <li>3. Ph D thesis examiner at IISc Bangalore, NITK Surathkal. NIT Warangal, Anna University, KTU &amp; SRM University</li> <li>4. DC Member of research students at KTU</li> <li>5. Chairperson of DC at KTU 7. Chaired sessions at ICNGIS 2022 &amp; ICCISc 2021</li> </ol>
Sanjay M	Member, Board of Studies, Electronics and Biomedical stream, APJ Abdul Kalam Technological University Thiruvananthapuram since January 2021.
Jeevamma Jacob	Reviewed many articles in Elsevier ISA Transactions, International Transactions on Electrical Energy Systems, Inderscience International Journal of Automation and Control, IEEE Transactions on Automatic Control
KM Arun Neelimegham	Reviewed articles for International Journal of Systems and Science and International Journal of Emerging Electric Power Systems
Nasirul Haque	Reviewed Articles for (1) IEEE Transactions on Dielectrics and Electrical Insulation (2) IEEE Transactions on Electron Devices (3) High Voltage (IET) (4) IEEE Access (5) International Journal of Energy and Power Systems (IJEPS)
V. Karthikeyan	Reviewed papers in IEEE Transaction on i) Circuit and Systems II,ii) Power Electronics, iii) Selected topics on power electronics, iv) Industrial Informatics. PhD Thesis Examiner for Anna University (2 Nos). BoG member in HICET, Coimbatore and SREC Campus, Coimbatore. Question paper setter to Anna University and VIT, Andhrapradesh

**b. Other Academic and Administrative Services**

SL NO	NAME OF STAFF	ACADEMIC AND ADMINISTRATIVE SERVICES
1	Shihabudheen KV	1) Warden 2) Mtech ICS program coordinator, 3) UG 2020 batch FA
2	Sunitha R	1)Study committee member for new EPR software for the institute, 2)Coordination committee member for the implementation of IMS modules, 3)AQMC (EED) Chairperson, 4)M.Tech PS programme coordinator, 5)EED Time Table & Classroom, 6)Screening Committee of Adhoc Faculty, 7)EED purchase Committee, 8)Alumni matters
3	Sindhu T K	1) IRCC member (2) Convocation General Convener (3) Department NBA Coordinator (4) Mtech High Voltage Coordinator (5) FA coordinator 2019 Batch
4	Mithun M. S.	1. Warden F Hostel, 2. UG 2020 batch FA, 3. Lab in charge – Instrumentation & Electronics Labs, 4. PG project evaluation panel member ICS, 5. Member – CCAR, 6. Member – Hostel room allocation committee, 7. Member – IMS installation team, 8. Faculty coordinator – EEA
5	S.Kanagalakshmi	1. Ladies Hostel warden 2. Institute sports coordinator 3. M.Tech ICS coordinator 2018-2020 batch, 4. M.Tech IPA coordinator 2020-2022
6	Subha D.P.	Lab-in -charge -Biomedical signal processing lab, FA coordinator 2018 batch
7	Preetha P	Warden LH up to August 2021, HoD from January 6 th . FA coordinator B Tech 2020 batch, Program coordinator, M Tech HVE2021 batch
8	Subhash K.M.	Program Coordinator – M. Tech ICS 2021 Batch. National Academic Depository Nodal officer and administrator for NITC. Lab-in -charge -Biomedical signal processing lab. SPOC – Digital Classroom Phase-2 – MoE -TEQIPII. Member – Council of Student Activities and sports (CSAS), NITC. SPOC for C-PRIME in EED.
9	Nikhil Sasidharan	Program Coordinator – M.Tech PE 2020 Batch, PG PE NBA Coordinator. Lab in charge -Machines Lab, Library in charge, AQMC convener,
10	Rakesh R Warier	1. Faculty coordinator – EEA
11	Mija S J	1. Warden Ladies Hostels, 2. Coordinator, Student Innovative Projects, Center for Innovation, Entrepreneurship and Incubation, 3. Member IQAC, 4. Programme Coordinator P Tech (ICS) -2020-'22 batch, 5. Faculty in chage – Control Systems, advanced Control Systems and Instrumentation Systems Labs 6. Coordinator, Department PTA, 7. Member, Department AQMC/IQAC, 8. Chairman, PG project evaluation committee (ICS)
12	Rijil Ramchand	1. Head of the Department ( April 2021 to January 2022) 2. FA for 2019 Admissions 3. Chairperson – Committee for Revision of Rules & Regulations of UG, PG & PhD

		<p>4. Member, Special Committee for the purchase of L2 Core switch</p> <p>5. Member, Project Monitoring Committee, New Academic Block</p> <p>6. Chairman, Committee for Purchase of Laptop for Faculty</p> <p>7. Member, Committee for Preparation of NITC Campus Master Plan</p>
13	Sanjay M	<p>1) Faculty Advisor B.Tech 2018-22 Batch</p> <p>2) Lab-in-charge for Electronics Lab and Bio-signal processing Lab,</p> <p>3) Faculty Representative to Training and Placement Department,</p> <p>4) M.Tech Instrumentation and Control Systems Project Evaluation committee member,</p> <p>5) Institute Management System (IMS) Committee member – Placement Management,</p> <p>6) Department website in-charge,</p> <p>7) Member of Department Committee to shortlist ad-hoc faculty applications</p> <p>8) Doctoral Committee Member to Ph.D scholars – 8 students other than own two students (ECED-3, CSED-2, SOBT-1, DAP-1, EED-1), Ph.D guide to 2 Ph.D scholars from EED</p>
14	Jeevamma Jacob	1. Registrar-In-Charge (October 2021- April 2022)
15	KM Arun Neelimegham	<p>1. Mtech ICS program coordinator 2021-23,</p> <p>2) Faculty advisor for UG 2020 batch FA,</p> <p>3) Member of Academic Quality Monitoring Committee EED</p> <p>4. Co rdinator Enquire quiz club</p>
16	T K Sunil kumar	<p>1. Deputy Chairperson Ugadmissions,</p> <p>2. FA B Tech 2020 batch,</p> <p>3. PhD coordinator,</p> <p>4. Programme Coordinator M Tech (IPA) -2021 batch, Faculty in charge – Embedded SystemApplication Lab,</p> <p>5. M.Tech Industrial Power and Automation Project Evaluation committee member.</p>
17	Nasirul Haque	<p>(1)PG2020 HVE Programme Co-ordinator</p> <p>(2) S4 EEEClass Committee chairperson</p> <p>(3) HVE Project Evaluation Committee member</p> <p>(4) Member of Institute Innovation Council</p> <p>(5) Lab in Charge of HV Engg. Lab I and II (6) Faculty I/C EED Stores</p>
18	V. Karthikeyan	1. Faculty Advisor UG 2018 batch. 2. PG-IPA Evaluation Committee. 3. Executive project member for Institute IoT Lab.
19	Kumaravel S	<p>1. Faculty Advisor UG 2021 batch, 2. Programme Coordinator M Tech (IPA) -2021 batch, 3. M.Tech Industrial Power and Automation Project Evaluation committee member, 4. Faculty in charge of RTS Lab, Distributed Generation Lab and SCADA lab 5. Member of Purchase Committee, 6. Faculty in charge of EEA, 7. President of IIC-NITC, Committee member of Centre for Industry Institutional Relation</p>

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

Sl.No	TITLE	COORDINATORS	DURATION & PERIOD
1.	ATAL FDP on State-of-the-Art Applications and Research Areas In High Voltage Engineering (RAHVE-2021) from July 5 to July 9, 2021	Sindhu TK, Preetha P, Dr.Sunitha K	from July 5 to July 9, 2021
2.	Faculty Development Programme On Applications of Machine Learning for Autonomous futuristic Electric Vehicles- (MLEV-2021)	Nikhil Sasidharan, Shreelekhmi MP	12th – 16 th July 2021
3.	FDP on AI applications in Biomedical Engineering,	Subha D P	2-6 August 2021

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

SL. NO.	NAME OF STAFF	TITLE OF THE PROGRAMME	DURATION AND PERIOD	ORGANIZATION
1	Dr.S.Kanagalakshmi	Sensors for Industrial Applications.	24th May 2021.	Alumni Association of Government college of Engineering, Tirunelveli
2		Controller design of drives in Industrial applications	26th May 2021.	Webinar on Loyola Institute of Technology, Chennai
3	Subha D.P.	AI applications in Biomedical engineering (ATAL),	2-6 August 2021,	NIT Calicut
4	Mija S J	Online FDP on Recent advances in Intelligent Systems and Nonlinear Control	,12-16 October 2020	Department of Electrical Engg. NIT Calicut,
5		Online FDP on Control & Automation,	14-17 December 2021,	IIST Trivandrum
6	Jagadanand G	Condition Assessment Techniques in	3rd to 5th December 2021	Department of Electrical Engg. NIT Calicut,

		Electrical Systems (IEEE CATCON 2021).		
7	Sunitha K	ATAL FDP on STATE OF THE ART APPLICATIONS AND RESEARCH AREAS IN HIGH VOLTAGE ENGINEERING (RAHVE-2021)	from July 5 to July 9, 2021	Department of Electrical Engg. NIT Calicut,
8		Condition Assessment Techniques in Electrical Systems (IEEE CATCON 2021).	3rd to 5th December 2021	Department of Electrical Engg. NIT Calicut,
9	Preetha	ATAL FDP on STATE OF THE ART APPLICATIONS AND RESEARCH AREAS IN HIGH VOLTAGE ENGINEERING (RAHVE-2021)	from July 5 to July 9, 2021	Department of Electrical Engg. NIT Calicut,
10		Online FDP on "Recent Computational Strategies for Condition Monitoring of High Voltage Equipment,	September 18-24,2021	NIT Patna
11		Online FDP on "Recent Advances in Condition Monitoring of Power Equipment",	25-30 Jan, 2021	NIT Calicut,
12	Deepak M	FDP on "Recent trends in Power Electronic Applications in	2021	GEC Wayanad

		Smart Grid and Electric Vehicles"		
13	Kumaravel S	AICTE Sponsored Online STTP on "Application of Machine Learning and Artificial Intelligence Techniques for Control of Future Grid"	2 to 7 August 2021	NIT Calicut
14		ATAL sponsored Faculty Development Programme on "Energy Engineering"	28, Jan 2022	Mohamed Sathak Engineering College, Tamilnadu
15	Shihabudheen KV	Online STTP on "Application of Machine Learning and Artificial Intelligence Techniques for Control of Future Grid"	2-7 August 2021	NMAM Institute of Technology, Nitte,

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

Ms. Hemarani P. Received Ph.D. degree in Control Strategies for Multi-input dc to dc converters for Renewable energy source integration.

**f. Consultancy and testing**

SL. NO	NAME OF THE FACULTY	NATURE OF SERVICE	ORGANIZATION	REVENUE EARNED	STATUS
1	Dr. Mithun M. S.	Feasibility study for developing a camera supported endo motor system for supporting root canal procedure	2021	MyDent Hospital	Completed

**g. Student achievements**

SL. NO	STUDENT NAME	ROLL NO	ACHIEVEMENTS
1.	KEERTHANA SURESH	B190869EE	Finalist-Synopsys InnoChamp URAM Scholarship Recipient
2.	HRIDYA V	B191036EE	URAM SCHOLARSHIP RECIPIENT
3.	Srinathan Jatharthan	B190520EE	IEEE CAS Joint Secretary
4.	Om Kulkarni	B191226EE	IEEE EDS Technical Coordinator
5.	Tarush Mihir	B200296EE	Stood First in international Hackathon by JP MORGAN , Selected by Google to open Developer club in Campus
6.	Sudarshan Muraleedharan	B200027EE	IEEE IAS Joint Secretary
7.	Mili K Johnson	B190024EE	Synopsys Inno champ 2022 participant IEEE IAS Secretary
8.	John Johnson V	B190932EE	Secretary - IEEE SB NITC 4th out of 469 teams - eYantra RC by IIT Bombay Design adjudged 'Excellent' in Circuit Design and Simulation Marathon by IIT Bombay and VSD Fellowship to attend 5th IEEE International Test Conference Fellowship to attend 35th International Conference on VLSI Design 1st prize in Cognoscere, all-Kerala technical competition by MEC Thrikkakara
9.	Badugu Mahesh Raju	M190065EE	POSOCO Award
10.	Rahul S	P170050EE	His PhD work (Development of Real Time Monitoring equipment) has been selected as one of the best innovative ideas for YIP 2019-20 of Kerala Development and information Strategic council. (K- DISC)
11.	Eldo Naveen Jose and DEEPU E Koshy	P190133EE	PCB design Hackathons organized by IIT Palakkad Technology IHUB Foundation (IPTIF)
12.	Abin Dany Mathew	B180992EE	Best Emerging Researcher Award for UG student under guidance in International Conference on Sensing Technology (ICST) held at IIT Madras in Jan 2022
13.	RISHIKESHWAR	M190423EE	Best paper award ,IRTM International conference 2021
14.	VENNELA THAMMINAIDU	M190553EE	Best paper award for IEEE 6th ICCCA 2021.

15.	Dil Kumar T R	P190008EE	Best Presenter Award, 7th IFAC Advances in Control & Optimization of Dynamic Systems 2022, NIT Silchar, 23-25 February 2022
16.	Abin Dany Mathew	B180992EE	'Steering Controlled Adaptive Headlight System', a product developed by this student under the guidance of Dr. Mithun MS came within the final 15 projects selected by KSCSTE for possible scholarship in June 2022.

#### **h. Books and Book Chapters**

<b>SL.NO.</b>	<b>AUTHOR (S)</b>	<b>TITLE OF THE PAPER</b>	<b>NAME OF THE JOURNAL/ DOI</b>	<b>VOL., YEAR &amp; PAGES</b>
1	Subin Koshy, Rahul, S., Sunitha, R. and Cheriyan, Elizabeth P.	Smart grid-based big data analytics using machine learning and artificial intelligence: a survey	Artificial Intelligence and Internet of Things for Renewable Energy Systems.	2021, pp. 241-278
2	Joyce Jacob, Preetha P., Sindhu T K.	Natural ester nanofluids as alternate insulating oils for transformers	Alternative Liquid dielectrics for High Voltage Transformer Insulation systems, Performance Analysis and Applications ISBN: 978-1-119-80018-7	2021 December, pp. 241 to 271

### **DEPARTMENT OF MECHANICAL ENGINEERING**

#### **a. Community Services**

<b>SL. NO.</b>	<b>PERIOD OF SERVICES</b>	<b>DESCRIPTION OF THE WORK</b>
1	Dr. V. Madhusudanan Pillai Since September	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.



**i. Other Academic and Administrative Services**

NAME OF STAFF	ACADEMIC AND ADMINISTRATIVE SERVICES
Dr. Jose Mathew	<ul style="list-style-type: none"> <li>• HoD of Mechanical Engineering Department from July 2019 – July 2021</li> <li>• All MED Class rooms were equipped with audio video facilities, major repair of all machines/furniture were done, Academic and administrative formalities have been streamlined, Ensured proper interactions with all the classes, students, staff and faculty. Arranged online webinars with distinguished alumni, conducted online workshop involving eminent personalities.</li> <li>• DST-FIST Coordinator, Department of Mechanical Engineering, NIT Calicut and Successfully purchased and commissioned all the equipment</li> </ul>
Dr. Jinu Paul	<ul style="list-style-type: none"> <li>• PhD Test/ Adhoc Faculty/Technical Staff Test Committee</li> <li>• IQAC, NBA Evaluation form submission, pre-qualifier data collection, NIRF data collection</li> <li>• Lab-in-Charge, Central Workshop, MED</li> <li>• Lab-in-Charge, Materials Science Laboratory, MED</li> <li>• Faculty Advisor, III Semester (2020 admission)</li> <li>• Convener, IQAC, NIT Calicut</li> </ul>
Dr. Sandip Rudha Budhe	<ul style="list-style-type: none"> <li>• Faculty advisor, BTech Project Evaluation committee</li> </ul>
Dr. Jagadeesha T	<ul style="list-style-type: none"> <li>• Warden of G hostel, NITC</li> </ul>
Dr. Deepak Lawrence K	<ul style="list-style-type: none"> <li>• Lab-in-charge—DST-FIST centre for precision measurements and nanomechanical testing,</li> <li>• MEA faculty in-charge</li> </ul>
Dr. K Sekhar	<ul style="list-style-type: none"> <li>• Coordinator- B.Tech First year coordinator, Mechanical Engg.</li> <li>• Warden- A- Hostel</li> <li>• Faculty-in-charge- Materials Science Laboratory, MED</li> <li>• Project Evaluation Committee - M.Tech Materials Science and Technology</li> <li>• Faculty Advisor- Production Engg and Mechanical Engineering</li> </ul>
Dr. Vineesh K P	<p>Course Faculty for</p> <ul style="list-style-type: none"> <li>• ME3026D Engineering Fracture Mechanics</li> <li>• ME4191 CAD/CAM Laboratory</li> <li>• ME3021D Introduction to Finite Element Methods</li> <li>• ME3011D Machine Design II</li> <li>• ME3195D Computer Integrated Manufacturing Laboratory</li> </ul> <p>Other Duties</p> <ul style="list-style-type: none"> <li>• Lab in Charge- CAD/CAM Lab (Sharing basis)</li> <li>• Faculty Advisor- ME B batch (2018 Admission)</li> <li>• Member- B. Tech Project evaluation committee</li> </ul>

	<ul style="list-style-type: none"> <li>• New Project proposal submission- Indian railways</li> <li>• PhD, M.Tech and B.Tech project guidance</li> <li>• Question paper setter for PhD admission test and adhoc faculty selection</li> <li>• Invited lecture, DC member and M.Tech project external examiner of other department</li> </ul>
Dr. Basil kuriachen	<ul style="list-style-type: none"> <li>• Faculty in charge common/ Office Computers, Accessories, audio-Video equipment(mechanical),</li> <li>• Lab in charge of Advanced Manufacturing Centre,</li> <li>• lab in charge of Sophisticated Instruments Centre,</li> <li>• in charge of DST-FIST centre for Precision Measurements and Nanomechanical Testing,</li> <li>• member PG project Evaluation (ME64)</li> </ul>
Dr. Sumer Dirbude	<ul style="list-style-type: none"> <li>• 2020-till date, Faculty Advisor (FA), E1 (first Year)/E(1-30) (Second to Fourth Year)-Batch, B Tech ME (2019-2023 Batch), Department of Mechanical Engineering, National Institute of Technology Calicut, Kozhikode, Kerala.</li> <li>• 2020-till date, Lab-in-charge, Fluid Mechanics, Fluid Machinery Laboratory and CFD Laboratory, Department of Mechanical Engineering, National Institute of Technology Calicut, Kozhikode, Kerala.</li> <li>• 2020-till date, Lab-in-charge, Heat Engines Laboratory, Department of Mechanical Engineering, National Institute of Technology Calicut, Kozhikode, Kerala.</li> <li>• 2020-2021, B. Tech. Project Evaluation Committee, Member, Thermal/ Fluid Mechanics Group, Department of Mechanical Engineering, National Institute of Technology Calicut.</li> <li>• Winter 2021, Department Web Manager &amp; Faculty-in-Charge of Information and Facilitations, Department of Mechanical Engineering, National Institute of Technology Calicut.</li> <li>• Since 22-2-2021, Committee Member, Centre for Computational Modelling and Simulation (CCMS), National Institute of Technology Calicut.</li> </ul>
Dr. Ashesh Saha	<ul style="list-style-type: none"> <li>• FA of 40 Mechanical students from 2018 – 19 batch</li> <li>• In charge of “Tribology and Vibration Lab”</li> <li>• Member of BTech major project evaluation committee</li> <li>• One of the PhD coordinators in MED</li> <li>• Member of MED time-table committee</li> <li>• Coordinator of Audio-Visual Club</li> </ul>
Dr. Jayadeep U.B.	<ul style="list-style-type: none"> <li>• One of the two faculty coordinators of Design Innovation Center, NITC.</li> <li>• Member of the Advisory Committee of Center for Computational Modeling and Simulation</li> <li>• Member of Central Library Purchase Committee</li> </ul>
Dr. M L Joy	<ul style="list-style-type: none"> <li>• Programme Coordinator, M Tech (Machine Design)</li> </ul>
Dr. Ratna Kumar K	<ul style="list-style-type: none"> <li>• Faculty Advisor</li> <li>• Dept Time Table committee</li> </ul>

	<ul style="list-style-type: none"> <li>• Liason with Main Library</li> <li>• PTA Coordinator</li> <li>• PG Project Evaluation Committee</li> <li>• UG Project Evaluation Committee</li> <li>• Alumini and International affairs</li> <li>• SWAYAM course Mentor</li> <li>• SGC Dept. Coordinator</li> </ul>
Dr. V Vinay Panicker	<ul style="list-style-type: none"> <li>• Vice Chairperson ETL (from 26 June 2019 to 31 December 2020)</li> <li>• Convener, IQAC (from 04 December 2018 to 29 January 2021)</li> <li>• Training Coordinator, Centre for Training and Placement (from 07 January 2021 onwards)</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> <li>• Programme Coordinator, M.Tech. (Industrial Engineering &amp; Management), Department of Mechanical Engineering from November 2019 to March 2021</li> <li>• Faculty-in-charge Industrial Engg. Lab &amp; Supply Chain and System Simulation Laboratory from the year 2011 to March 2021</li> <li>• Member - Campus Accommodation Allocation Committee</li> </ul>
Dr. R. Sridharan	<ul style="list-style-type: none"> <li>• Chairman – AQMC</li> <li>• HoD Representative to DC meetings, CC meetings and Open presentations</li> <li>• Chairman – Plantation Committee</li> </ul>
Dr K P Murali	<ul style="list-style-type: none"> <li>• FA of 2019 Mechanical B batch (30 students)</li> <li>• Lab in-charge – Central workshop and Materials Science</li> <li>• Member B.Tech and M.Tech project evaluation committee</li> <li>• Deputy Chairman - PG admissions</li> </ul>
Dr. ARUN P	<ul style="list-style-type: none"> <li>• Associate Dean (Research and Consultancy)</li> <li>• Convenor-Purchase Committee, Dept. of Mechanical Engg.</li> <li>• Faculty Adviser, 2017 Admission Batch of B.Tech. Mechanical Engg.</li> </ul>
Dr. A Shaija	<ul style="list-style-type: none"> <li>• B.Tech Project Co-ordinator since 2015</li> <li>• Secretary, PTA, NIT Calicut July 2016-2020</li> <li>• Faculty Advisor, Final Year Mechanical Engg. students</li> <li>• PG (Energy Engg. &amp; Mangt) - Program Coordinator since 2018</li> <li>• Lab In Charge- Green Energy Lab &amp; Fuel Cell research lab.</li> <li>• Thermal Sciences Lab - Overall Incharge</li> <li>• Joint Secretary cum Treasurer, Parents Teachers Association, NITC, 2000-2004</li> <li>• Member, Centre for Value Education, NITC, 2001-2004</li> <li>• Lady Coordinator, Compulsory Social Service (CSS), NITC, 2001-2003</li> </ul>

	<ul style="list-style-type: none"> <li>• Department Secretary, Mechanical Engineering Department, NITC, 1999-2002</li> <li>• Staff-in-Charge, Mechanical Engineering Association, NITC, 1999-2002</li> <li>• Class Committee Chairman-Fourth Production Engg.</li> <li>• Class Committee Chairman-Fifth Sem. Mechanical Engg.- 2009</li> <li>• Faculty-In charge, Thermal Science Laboratory - 2009.</li> <li>• Member, Department Accreditation Committee</li> <li>• Warden, Ladies Hostel, NITC from 2009 -2015</li> <li>• Member, Quarters allotment Committee since 2011</li> <li>• Member, Institute Examination Vigilance Cell -2016</li> <li>• Project Evaluation Committee - M.Tech in Energy management since 2009</li> </ul>
Dr. Rohinikumar B	<ul style="list-style-type: none"> <li>• Lab in Charge</li> <li>• Faculty Advisor</li> <li>• Warden for NITC hostel</li> <li>• Department Placement Representative</li> </ul>
Dr. Muraleedharan C	<ul style="list-style-type: none"> <li>• Chairperson, IQAC, NIT CALICUT</li> <li>• Member, Board of studies, Rajagiri school of Engineering and Technology, Kochi</li> <li>• Member, Board of studies, TKM College of Engineering, Kollam</li> </ul>
Dr. GANGADHARA KIRAN KUMAR L	<ul style="list-style-type: none"> <li>• Faculty-in-Charge/Head for the Vehicle Section, NIT Calicut</li> <li>• Warden for Hostels, NIT Calicut</li> <li>• Faculty-in-Charge for the Club Innovation (SEF), NIT Calicut</li> <li>• Lab - In - Charge, Fluid Mechanics and Machinery Laboratory.</li> <li>• Lab - In - Charge, Computational Fluid Dynamics Laboratory.</li> <li>• Department Representative, Industry Institute Interaction Cell (IIIC)</li> <li>• Faculty Advisor, B.Tech Students of 2010, 2014 &amp; 2018 admission.</li> <li>• Course coordinator for Engineering Graphics (ZZ1002D)</li> </ul>
Dr. P V Manu	<ul style="list-style-type: none"> <li>• Lab in charge of Heat Engines Laboratory</li> <li>• B. Tech (IE stream) project evaluation committee member</li> <li>• Faculty Advisor</li> </ul>
Dr. Sujith Kumar C. S.	<ul style="list-style-type: none"> <li>• Department Sports Coordinator</li> <li>• Institute Level Additional Responsibility</li> </ul>
Dr. Saleel Ismail	<ul style="list-style-type: none"> <li>• Lab I/c Heat Engines, Green Energy, Fuel Cells laboratories and Centre for Advanced Studies in Cryogenics (CASC)</li> <li>• One of the coordinators of B.Tech Project (ME4098D and ME4099D)</li> <li>• Campus administrator of NITC alumni website</li> <li>• Faculty Advisor</li> <li>• Member of Centre for Public Relations, Information and Media Exchange (C-PRIME)</li> <li>• Administrator of institute LinkedIn account</li> <li>• Member of UG Admissions team</li> </ul>
Dr. M Srinivas	<ul style="list-style-type: none"> <li>• Warden for Mega Boys Hostel</li> </ul>
Dr. T.J. Sarvoththama Jothi	<ul style="list-style-type: none"> <li>• Associate Dean, Faculty Welfare (2021– Present)</li> <li>• Faculty Incharge for Club Unwired - Aero Modelling Club</li> </ul>

	<ul style="list-style-type: none"> <li>• Member of timetable committee</li> <li>• Thermal science lab incharge</li> <li>• PG project evaluation committee member</li> <li>• Faculty advisor</li> </ul>
Dr. Simon Peter	<ul style="list-style-type: none"> <li>• Faculty Advisor for 35 ME/PE 2019 admitted students</li> <li>• Fluid Mechanics &amp; Fluid Machinery Laboratory I/C</li> <li>• B. Tech. Project Evaluation Committee, Member, Thermal/ Fluid Mechanics Group</li> <li>• Faculty-in-Charge of Information and Facilitations</li> </ul>
Dr Devendra Kumar Yadav	<ul style="list-style-type: none"> <li>• Faculty Advisor for 2020 batch Production and Mechanical Engineering students</li> <li>• Lab-in-charge of Industrial Engineering Management</li> <li>• Lab-in-charge of Supply Chain and System Simulation Lab</li> <li>• B.Tech Project Evaluation committee</li> </ul>
Dr.Biju T. Kuzhiveli	<ul style="list-style-type: none"> <li>• Co-ordinator, PG-Thermal sciences</li> <li>• Activities-Centre for advanced studies in cryogenics</li> <li>• Got accreditation for PG-Thermal sciences</li> <li>• Team lead for NBA accreditation</li> <li>• Member – Committee for in campus O2 Generation</li> <li>• Member – NIT- MVR Cancer center oxygen supply schemes</li> </ul>
Dr.Sudheer.A.P	<ul style="list-style-type: none"> <li>• Editor of The Robotics Society (TRS-India)</li> <li>• Board of studies member of KTU</li> <li>• Associate Dean (P&amp;D)</li> <li>• Lab in Charge- Mechatronics/Robotics Laboratory</li> <li>• Faculty Advisor- PE (2018 Admission)</li> <li>• Member- M. Tech Manufacturing Technology: Project evaluation committee</li> <li>• Ph.D, M.Tech, and B.Tech project guidance</li> <li>• Institute computer Purchase committee convenor</li> <li>• Mechanical Engineering Dept. purchase committee member</li> <li>• Invited lecture, DC member and M.Tech project external examiner of other departments</li> <li>• NITC-IIC member</li> <li>• Collaborative Joint Research: Extreme Robotics Laboratory (ERL), University of Birmingham, UK)</li> <li>• Robotics Lab, IIT Delhi: Joint research work</li> <li>• Robotics Lab, IIT Palakkad: Joint Research work</li> <li>• Collaborative research rehabilitation work: Medical Knowledge Partner: Composite Regional Centre for Skill Development, Rehabilitation and Empowerment of Persons with Disabilities(CRC-Kozhikode)</li> <li>• Class committee Chairman- Second Year PE</li> </ul>

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

SL.NO	TITLE	COORDINATORS	DURATION & PERIOD
1	STTP on “Application of MCDM Methods in Logistics and Transportation Engineering” (MMLT 2021) December 1st-5th, 2021	Dr Devendra K Yadav	5 days
2	Roadmap for Effective Research using Advanced Techniques & Tools (REAT 2022)	Dr. Sandip Budhe	5 days, 14-18 February, 2022
3	Two Day Online Workshop on "3D Printing Solutions for Medical Innovation (3DPSMI-2021)" MED NIT Calicut	Dr Jose Mathew, Dr Deepak Lawrence and Dr Basil Kuriachen	3 days, July 17-18, 2021

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

SL. NO.	NAME OF STAFF	TITLE OF THE PROGRAMME	DURATION AND PERIOD	ORGANIZATION
1	Dr. Sudheer A.P.	Rashtriya Krishi Vikas Yojana - Remunerative Approaches for Agriculture and Allied Sector Rejuvenation(RAFTAAR) KAU-Agri-Business Incubation (RABI) organized a national Symposium on “Doubling farmers income by revitalizing Agri Business Ecosystem”	02-03-2022	Kerala Agricultural University
2	Dr. Sumer Dirbude	Introduction and Application of Computational Fluid Dynamics, Heat and Mass Transfer in Manufacturing Processes	18/09/2021	Poornima College of Engineering Jaipur, Rajasthan (India).
3	Dr. Vinay V. Panicker	Online Faculty Development Programme on Design and Analysis of Experiments February 07-12, 2022	February 08, 2022	Government College of Engineering, Kannur
4	Dr. Vinay V.	Expert Talk on Logistics and Supply Chain Management	March 08-10, 2022	Government Engineering College Thrissur

	Panicker			
5	Dr. Vinay V. Panicker	Online Course on 'Recent Trends in Logistics and Supply Chain Management March 08-10, 2022	March 10, 2022	Government Engineering College Thrissur
6	Dr. Ashesh Saha	AICTE sponsored online Short Term Training Program	04-05-2021	Department of Mechanical Engineering, Misrimal Navaiee Munoth Jain Engineering College, Chennai - 97, India
7	Dr. Ashesh Saha	Faculty Development Programme on "Physical Systems and Mathematical Modelling (PSMM-2022)"	29/01/2022	Department of Mathematics and Department of Physics, National Institute of Technology Calicut, Kerala - 673601, India
8	Dr. Dhanish P B	Handled the session Fractional Factorial Experiments in the training program on Design and Analysis of Experiments	07/02/22 to 12/02/22	GEC, Kannur
9	Dr. Dhanish P B	Delivered a talk on Factorial Design in the FDP on Design of Experiments and Optimization Techniques	18/10/21 to 23/10/21	SRMIST, Kattankulathur
10	Dr. Dhanish P B	Delivered a talk on Fractional Factorial Designs in the FDP on Design of Experiments and Optimization Techniques	9/8/21 to 13/08/21	Jyothi Engineering College, Cheruthuruthy, Thrissur
11	Dr. Vineesh K P	Short term training program FINITE ELEMENT METHODS DESIGN IN ANSYS, AND ABAQUS'	5 days, December 2020	VIDYA ACADEMY OF SCIENCE AND TECHNOLOGY IN ENGINEERING
12	Dr. Vineesh K P	FIVE-DAYS ONLINE WORKSHOP UNDER TEQIP-III (RTU-ATU) ON "FINITE ELEMENT METHODS (FEM) FOR ENGINEERS"	5 days, December 2020	RAJASTHAN TECHNOLOGICAL UNIVERSITY KOTA
13	Dr. Vineesh K P	FACULTY DEVELOPMENT PROGRAM "THEORETICAL FOUNDATIONS OF FEM AND HANDS ON TRAINING ON ANSYS",	5 days , February 2020	GOVERNMENT ENGINEERING COLLEGE PALAKKAD

## I. Consultancy and testing

SL. NO	NATURE OF SERVICE	ORGANIZATION	REVENUE EARNED	STATUS
1	To measure the height of colloidal particle deposition on a glass substrate	NIT Calicut	1500	Completed
2	To measure the height of the particle ring of dried polystyrene suspension.	NIT Calicut	1900	Completed
3	To measure surface roughness on the samples that were exposed to the electrical discharges for about 170 Hours	Gujarat Technological University	7800	Completed
4	To measure the surface roughness of tooth samples	Government Dental College, Kozhikode	4800	Completed
5	Thermal imaging capture of nine phase induction motor	NIT Calicut	150	Completed
6	Visualization of bubble formation	NIT Calicut	150	Completed
7	Visualization of bubble formation	NIT Calicut	150	Completed
8	DC Flashover of Polymeric insulator	NIT Calicut	200	Completed
9	To measure surface roughness on the samples that were exposed to the electrical discharges for about 170 Hours	Gujarat Technological University	1416	Completed
10	To measure the surface roughness of EDM on MS sheet	IIIT Kurnool	2832	Completed
11	Surface roughness measurement of coated emery paper	NIT Calicut	900	Completed
12	Sliding velocity observation using High Speed Camera	NIT Calicut	100	Completed
13	Visualization of Interfacial Evaporation	NIT Calicut	600	Completed
14	To visualize bubble dynamics in boiling heat transfer	NIT Calicut	500	Completed
15	Visualization of Interfacial Evaporation	NIT Calicut	1,000	Completed



16	To determine the height of Au nanoparticles deposited on a glass substrate.	NIT Calicut	600	Completed
17	To measure the height of Gold-Polystyrene particles assembled over a glass substrate.	NIT Calicut	900	Completed
18	To measure the width and surface roughness of micro channel End milled Copper plate	NIT Calicut	1,000	Completed
19	To capture the impact dynamics of a particle laden droplet on a particle bed.	NIT Calicut	250	Completed
20	To measure the width and surface roughness of micro channel End milled Copper plate	NIT Calicut	800	Completed
21	For thickness measurement W3 Coated FPO on Glass Surface	NIT Calicut	300	Completed
22	To capture the Impact dynamics and formation of Janus Liquid Marbles.	NIT Calicut	1,400	Completed
23	To determine the height of Au nanoparticles deposited on a glass substrate.	NIT Calicut	1,800	Completed
24	To analyse the bubble behaviour in pool boiling heat transfer	NIT Calicut	800	Completed
25	To visualize bubble dynamics in boiling heat transfer	NIT Calicut	600	Completed
26	To measure the height of Gold-Polystyrene particles assembled over a glass substrate.	NIT Calicut	450	Completed
27	To measure the distance of the dental bracket	Royal Dental College, Thrissur, Kerala,	600	Completed
28	To measure the grit size on the Grinding wheel	Amrita School of Engineering, Kollam, Kerala	1500	Completed
29	Sliding velocity observation	NIT Calicut	100	Completed

	using High Speed Camera			
30	Template design with braille script for blind	NIT Calicut	450	Completed

**m. Patents acquired and filed**

SL. NO	NAME OF STAFF	TITLE	YEAR
1.	Dr R. Manu, Dr Deepak Lawrence K and Remil George Thomas	Feature extraction and Fixture planning: FiXplan software, Copyright with number: SW-14005/2020 dated 14/12/2020 received from Copyrights Office, Govt. of India	2020
2	Dr. Sudheer.A. P Jibin Varghese	Radial robotic friction gripper 6094/CHE/2014	Patent Granted No. 375918
3	Dr.Sudheer.A.P,Hariram sankar,Murali M	Deployable Retractable Prefabricated Building Structure 2136/CHE/2015	Hearing Over on 26-05-2022 Waiting for Result
4	Dr. Sudheer.A. P Dr.M.L.Joy,Shruthi.C.M	Robot for high voltage electrical transmission line inspection 201641027854	23/02/2018 First Exam Report Reply filed
5	Dr. Sudheer.A. P Hari Prasanth	Radially Contracting Toroidal Pneumatic Artificial Muscle, 202041047095 28/10/2020	Published 06/11/2020
6	Dr.Sudheer.A.P, Vamsi, GuruTheja	Automatic Book Returning System 202041047027 28/10/2020	06/11/2020 First Exam Report Reply filed
7	Dr. Sudheer.A. P Jubin,Nidhi	Adjustable Bed for Physically Challenged, 202041051490 26/11/2020	20/01/2021 First Exam Report Reply filed
8	Dr. Sudheer.A. P Prahlad	Dynamic Head Load Redistributing Wearable Robot, 202041056655 28/12/2020	06/06/2022 First Exam Report Reply filed
9	Dr. Sudheer.A. P Ajith.A.M,HariPrasanth	Robotic Tree Climber, 202141013008 25/03/2021	Published 02/04/2021
10	Dr. Sudheer.A. P	Automated Robotic System for Cleaning of Railway Tracks, 202241029538 23/05/2022	Published 03/06/2022

11	Dr. Sudheer.A. P	A Hypermetropic Convolutional Neural Network Device for Small Size Object Detection and A Method Thereof, 2022/05778 25/05/2022	Published 25/05/2022
12	Mr Renju Mohan, Dr U B Jayadeep & Dr R. Manu	Multi – Mode Friction Stir Welding Tool – Indian Patent Application No. 201741036108 filed on 11.10.2017	Published in The Patent Office Journal No. 44/2017 dated 03-11-2017.
13	Dr. Vinay V. Panicker	Multi-Utility Plogging Bag (Patent Application No. 202041050568 filed on 20.11.2020)	2020
14	S. Jayaraj and K.P. Mohanan	‘Solar PV Based Jet Propulsion Boat’	2020

## DEPARTMENT OF MATHEMATICS

### a. Community Services

NAME OF STAFF	ACADEMIC AND ADMINISTRATIVE SERVICES
Dr. Tamal Pramanick	M.Sc Programme coordinator DPGC member
Dr. Krishnan Paramasivam	MAT Website management, faculty-in-charge Supervisor of External Internship programme
Dr. Lineesh M C	Member of Institutional Ethics Committee of MVR Cancer Research Center Office warden of NITC hostels during 08.08.2018 to 31.07.2021 Department Sports co-ordinator. Member of IQAC from Department of Mathematics Faculty in charge of Mathematics Association Executive committee member of NITC faculty association CSAB official at NITC in UG admissions

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

SL. NO.	COORDINATORS	TITLE	DURATION & PERIOD
1	Dr. Tamal Pramanick (Math Dept.) and Dr.	Faculty Development Programme (FDP) on	24th - 29th Jan, 2022

	Goutam Kumar Chandra (Phy Dept.)	“Physical Systems and Mathematical Modelling (PSMM-2022)”	
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**c. Expert lecturers delivered in Conferences/Seminar/workshops**

SL. NO.	NAME OF STAFF	TITLE OF THE PROGRAMME	DURATION AND PERIOD	ORGANIZATION
1.	Dr. Satyananda Panda	FDP on Physical Systems and Mathematical Modelling (PSMM-2022)	24th- 29th January, 2022	Department of Mathematics and Physics, NITC
5.	Dr. Sunil Jacob John	International Conference on Nonlinear Applied Analysis and Optimization 2021	Dec 21-23, 2021	Indian Institute of Technology Varanasi.
6.	Dr. Sunil Jacob John	2nd International Conference on Computational Sciences - Modelling, Computing and Soft Computing	March 28-30, 2022	Manipal Institute of Technology Karnataka
7.	Dr. Satyananda Panda	“Multigrid Method : A framework for Large Scale Scientific Computing”, National Webinar on “RECENT TRENDS ON	20th July 2021	Department of Mathematics & Computer Science, Fakir Mohan Autonomous College, Balasore, Odisha, India

		COMPUTING”		
8.	Dr. Satyananda Panda	Free surface dynamics of MHD third-grade fluid over a heated stretching sheet with varying fluid properties, ICMAS 2021, Virtual International Conference on Multidisciplinary Approaches in Science	24th to 26th November 2021.	Faculty of Science, University of Colombo, Colombo03, Sri Lanka
9.	Dr. Lineesh M C	International Conference on “The New Normal : Crisis Resilience and Re-invention	15th to 17th February 2022	Department of Physics and Mathematics, Amal College of Advanced Studies, Nilambur

## DEPARTMENT OF CHEMISTRY

### a. Community Services

1. Delivered 8 online lectures for empowering school/college children for multiple aspects (Typically corona defencing) (Dr. G Unnikrishnan)
2. Organised the visit of school children/college children to NITC facilities (Dr. G Unnikrishnan)
3. Delivered an invited lecture on 'Trends in the properties of transition elements' in the faculty development program for higher secondary chemistry teachers organized by Calicut Chemistry Collective, on August 13, 2021. (Dr. Muniyandi Sankaralingam)

### b. Other Academic and Administrative Services

NAME OF STAFF	ACADEMIC AND ADMINISTRATIVE SERVICES
Dr. Mini Mol Menampambath	<ol style="list-style-type: none"> <li>1. Program officer for NSS</li> <li>2. Faculty-in-charge of student club-IGNITE</li> <li>3. Warden of ladies hostel</li> <li>4. Member: IRCC</li> <li>5. ADVISORY COMMITTEE OF CENTRE FOR MATERIALS CHARACTERIZATION (CMC)</li> <li>6. FACULTY ADVISOR for MSC 2021 Chemistry admissions</li> <li>7. SUPERVISING 4 PHD STUDENTS</li> <li>8. SUPERVISED 5 PG STUDENTS AND 2 ARE ONGOING</li> </ol> SET UP A RESEARCH LAB, LABORATORY FOR ADVANCED MATERIALS AND APPLIED RESEARCH, AT CHEMISTRY DEPARTMENT FOR THE PHD AND PG/UG STUDENT RESEARCH PURPOSE
Dr. A. Sujith	Head, department of Chemistry Faculty-in-Charge, ISTE NITC Chapter
Dr. Janardhan Banothu	Warden B-Hostel Annual stock verification committee Department Training and Placement Coordinator Faculty In-charge for IR Instrument Faculty In-charge for B.Tech Chemistry Laboratory Course coordinator for first year B.Tech Chemistry Laboratory (CY1094D) Department stores purchase committee member
Dr. Muniyandi Sankaralingam	<u>I. Teaching</u> <ol style="list-style-type: none"> <li>i. CY7301- Organometallic and Bioinorganic Chemistry</li> <li>ii. CY1001D-Chemistry</li> <li>iii. CY7399-Project</li> <li>iv. CY7352-Porphyrins and Metalloporphyrins</li> <li>v. CY7358 – Metal Based Drugs</li> <li>v. CY1094D- Chemistry Laboratory</li> <li>vi. CY6391-Inorganic Chemistry Laboratory</li> </ol> <u>II. Research</u> <ol style="list-style-type: none"> <li>i. Supervising 3 PhD students</li> <li>ii. Completed 2 MSc dissertations</li> <li>iii. Ongoing/completed projects -2</li> <li>iv. Published 2 research articles</li> </ol>

	<p>v. Submitted 2 book chapters for publications</p> <p>vi. Delivered invited talks in the FDP's</p> <p>vii. Setting up the Bioinspired &amp; Biomimetic Inorganic Chemistry Lab</p> <p>viii. Submitted a research proposal to ISRO for funding in collaboration with Prof. G. Unnikrishnan</p> <p><u>III. Administrative Services:</u></p> <p>i. Faculty Advisor for the 2019-2021 MSc Chemistry batch</p> <p>ii. Department Sports Coordinator</p> <p>iii. Member, of the different committees at the department and institute levels</p> <p>iv. Bioinspired &amp; Biomimetic Inorganic Chemistry Lab was set up for PhD/MSc research purpose</p>
Dr. Raju Dey	<p>1. B.Tech. First Year Coordinator</p> <p>2. SUPERVISING 2 PHD STUDENTS</p> <p>3. SUPERVISED 2 PG STUDENTS AND 2 ARE ONGOING</p> <p>SET UP A RESEARCH LAB, LABORATORY FOR ORGANIC SYNTHESIS AND CATALYSIS, AT CHEMISTRY DEPARTMENT FOR THE PHD AND PG/UG STUDENT RESEARCH PURPOSE</p>
Dr. Chinna Ayya Swamy P	<p>FACULTY IN CHARGE FOR DEPARTMENTAL TIME TABLE</p> <p>COORDINATOR OF DEPARTMENTAL WEBINAR SERIES</p> <p>MEMBER, SCRUTINY COMMITTEE FOR THE PHD ADMISSION</p> <p>INORGANIC LABORATORY IN CHARGE</p> <p>N CHARGE OF DEPARTMENTAL INSTRUMENTS</p>
Dr. Lisa Sreejith	Chairperson, Centre for sustainable Trechnologies

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

SL.NO	TITLE	COORDINATORS	DURATION & PERIOD
1	Self-sponsored Faculty Development Programme on 'Smart and Functional Nanomaterials' (SFNM -21)	Dr. Suni Vasudevan and Dr. A. Sujith	4 <sup>th</sup> to 8 <sup>th</sup> August 2021
2	Online FDP on "Advances in Synthetic Organic Chemistry and their Applications in Modern Medicinal Chemistry (ASOCAMMC21)	Dr. Janardhan banothu and Prof. G Unnikrishnan	23 <sup>rd</sup> to 27 <sup>th</sup> August 2021
3	Workshop on Methods of data acquisition and analysis in NMR and HR-MS	Dr. Anuj A Vargeese and Prof. Lakshmi C.	20 <sup>th</sup> to 26 <sup>th</sup> Sep 2021

**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	FDP on Advances in Synthetic Organic Chemistry and their Applications in Modern Medicinal Chemistry	23rd– 27th August 2021	NIT Calicut
2	Dr. Mausumi Chattopadhyaya	International Online Conference on Materials Science and Technology (ICMT 2021)	45 minutes November 2021	@Mahatma Gandhi University on November 2021. Kerala, India.
3	Dr. Mausumi Chattopadhyaya	‘Computational Modeling in Chemistry, Biology and Materials’	1 hour, November 2021	@Cochin University on November 2021. Kerala, India.
4	Dr. Mausumi Chattopadhyaya	Invited speaker on IOCER COVID-19 2020	30 mins ,October 2020	@JIS Engineering College on October 2020, Kolkata, West Bengal, India.
5	Dr. Anuj A Vargeese	Smart and Functional Nanomaterials'	4-8 Aug 2021	NIT Calicut
6	Dr. Anuj A Vargeese	Refresher Course on Chemistry	8-20 Nov 2021	University of Hyderabad
7	Dr. Muniyandi Sankaralingam	Faculty development program for higher secondary chemistry teachers	5 days August 13, 2021	Calicut Chemistry Collective

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

Dr. Suni Vasudevan acquired a Post Graduate Certificate in Data Science, Machine Learning and Artificial Intelligence from International Institute of Information Technology Bangalore (IIITB) in May 2021.

**f. Patents acquired and filed**

SL. NO	NAME OF STAFF	TITLE	YEAR
1	Dr. Parameswaran P., Sujatha S., and Diana Mathew	Novel BODIPY based reusable test paper strip and method of colorimetric detection of fluoride ion	Indian Patent - Granted on August 2021 Patent No. 376024
2	Dr. Mini Mol Menampambath Rasha Rahman P. K. Dr. Rajanikant G. K. Neelakandan A. R.	A Sensor For Selective Detection Of Dopamine in Real-Time	Indian Patent Application no: 202041014799



## DEPARTMENT OF PHYSICS

### a. Other Academic and Administrative Services

NAME OF STAFF	ACADEMIC AND ADMINISTRATIVE SERVICES
Dr. Saurabh Gupta	1. Faculty in-charge Official Language Unit (OLU), NITC [Until 06/02/2022] 2. Timetable in-charge, Physics Department, NITC 3. GeM consignee, Physics Department, NITC 4. Member of Academic Quality Monitoring Committee - Department of Physics, NITC
Dr. Goutam Kumar Chandra	1. Faculty advisor MSc 2020 batch 2. Optics Lab in-Charge, Department of Physics, NITC 3. First year B. Tech. Co-coordinator, NITC 4. Member of Project Implementation Group (DST-FIST), Department of Mathematics, NITC.

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

SL.NO	TITLE	COORDINATORS	DURATION & PERIOD
1	Online FDP on “Physical Systems and Mathematical Modelling (PSMM-2022)” organised by Department of Physics & Mathematics, NIT Calicut	Dr, Goutam Kumar Chandra & Dr. Tamal Pramanick	5 days, 24th – 29th January, 2022

## SCHOOL OF BIOTECHNOLOGY

### a. Other Academic and Administrative Services

NAME OF STAFF	ACADEMIC AND ADMINISTRATIVE SERVICES
Dr. Rajanikant GK	Dean (Student Welfare)
Dr. Rathinasamy K	Head of the Department, School of Biotechnology
Baiju G Nair	IPR cell coordinator Vice chairperson of Center for international relations and foreign languages Innovation ambassador -MIC
Dr. Md. Anaul Kabit	Member Secretary for the Institute Biosafety committee
Dr. Cecil Antony	Coordinator for First Year course- Introduction to Life Sciences, MEMBER OF NAAC COMMITTEE, ADMISSION COMMITTEE, CHEMICAL DISPOSAL COMMITTEE, BIOSAFETY COMMITTEE.
Dr. Tom Skaria	1. Faculty Advisor and class committee chairman for BTech Biotechnology 2020- 24 batch 2. Course Coordinator for Introduction to Life Sciences BT1001D (BTech first year core course) 3. Member of Committee for Centre for Material Characterization (CMC), NIT Calicut to oversee the usage policy and activities of the centre.

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

SL.NO	TITLE	COORDINATORS	DURATION & PERIOD
1	Prostate cancer: an integrated approach from basic medical sciences to advanced research”	Dr Suresh PS	30/3/2022- 1 day
2	Cervical cancer: an integrated approach from basic medical sciences to advanced research	Dr Suresh PS	17/9/2021- 1 day
3	How to secure a patent before publication IIPTA	Dr. Baiju G Nair	1 day
4	Overview of technology transfer, SCTIMST-TIMed, BIRAC	Dr. Baiju G Nair	1 day
5	IPR awareness program	Dr. Baiju G Nair	1 day

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

SL. NO.	NAME OF STAFF	TITLE OF THE PROGRAMME	DURATION AND PERIOD	ORGANIZATION
1	Dr. Tom Skaria	Virology and Immunology Webinar	02.08.2021 to 09.08.2021	Department of Life Sciences, University of Calicut.

**d. Patents acquired and filed**

SL. NO	NAME OF STAFF	TITLE	YEAR
1	Dr. Suchithra T.V.	Novel 4-Diphenylamino 3-Iodo Coumarin and a method for its Isolation.	Patent No: 394801, filed on 11.01.2018, granted: 13/04/2022,
2	Dr. Suchithra T.V.	Gelatin Based Adhesive Hydrogel as Wound Dressing Patch for Diverse Surface	Application No. 202041044794 filed on 14.10.2020

**e. Student achievements: (2021-22)**

1. RajeshKumar 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.

**DEPARTMENT OF SCHOOL OF MATERIAL SCIENCE**

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

SL.NO	TITLE	COORDINATORS	DURATION & PERIOD
1	Functional Materials for Energy, Environment and Health	Dr. Hanas T	June 21 – 25 , 2021

**b. Patents acquired and filed**

SL. NO	NAME OF STAFF	TITLE	YEAR
1	Sumanth S and Dr. Shijo Thomas	Variable ribs design thickness approach for effectively improving the thermo-hydraulic performance of the fluid flow channel at higher Reynolds number	2022 (Supported by I-STEM) - Applied for Provisional patent

**DEPARTMENT OF SCHOOL OF BIOTECHNOLOGY**

**a. Community Services**

SL. NO.	TITLE	COORDINATORS	DURATION & PERIOD
1	Tarang (Annual Management Fest)	Dr. Muhammad Shafi	2021-22
2	Ragam Cultural Fest	Dr. Reju George Mathew, Dr. Sreejith S.S.	2021-22

**b. Other Academic and Administrative Services**

NAME OF STAFF	ACADEMIC AND ADMINISTRATIVE SERVICES
Dr. Muhammad Shafi	Faculty-in-charge (Adventure Club),
Dr. Sreejith S S	Member, Institute Innovation Council
Dr. Muhammad Shafi	Faculty-in-charge (I-ink-NIT Calicut)

Dr. Reju George Mathew	Faculty-in-charge, IGNITE Student Club from 21.01.21
Dr. Reju George Mathew	Member, NITC Sports Council

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

SL. NO	TITLE	COORDINATORS	DURATION & PERIOD
1	National Workshop on Research Methodology	Dr. Muhammad Shafi Dr. Sreejith SS	12-07-2021 23-07-2021
2	FDP on Data Driven Decision Making	Dr. Sreejith S S Dr. Althaf S	03-08 Aug 2021
3	FDP on Advanced Tools for Research	Dr. Muhammad Shafi Dr. Sreejith SS	04-09 Mar 2022
4	6-day FDP on Literature and Film Studies from	Dr. Reju George Mathew, Dr. Preeti Navaneeth	09-14 August 2021
5	FDP on Literature and Environmental Humanities: Ecology, Ecocriticism and Environmental Studies	Dr. Reju George Mathew, Dr. Preeti Navaneeth	25 – 30 October 2021
6	FDP on Business Analytics and Machine Learning	Dr. Nithya M	25-29 September 2021

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

SL. NO.	NAME OF STAFF	TITLE OF THE PROGRAMME	DURATION AND PERIOD	ORGANIZATION
1	Dr. Nithya M	Faculty Development Program on "Business Applications of SPSS, R, and Tableau"	11 - 20 April 2022	GITAM Deemed University
2	Dr. Nithya M	Refresher course on research methodology for faculty of social sciences	19th July 2021 to 31st July 2021	UGC-HRDC, University of Hyderabad
3	Dr. Nithya M	National Workshop on Research Methodology	17 July to 23 July 2021	SOMS, NITC
4	Dr. Sreejith S S	Invited talk on 'Employee Deviance Behavior and Information Security Compliance'	March 2022	Infosys

12 ANNEXURES

12.1 RESEARCH PROJECTS AND CONSULTATION JOBS

DEPARTMENT OF ARCHITECTURE

SL. NO	TITLE OF THE PROJECT	INVESTIGATORS	SPONSORING AGENCY	YEAR OF STARTING	AMOUNT (RS)	STATUS
1	Master plan development of Cheruvadi Community Health Centre	Dr. Kasthurba.A.K, Dr. Deepthi Bendi & Ar. Ritesh Ranjan	Cheruvadi Community Health Centre & Kunnaman galam Panchayath	October 2021	5.8 Lakhs	Completed & Handed over the deliverables
2	'Framework for flood mapping and preparing an early warning system in the occurrence of flood for the northern region Kerala'	Dr Chithra K & Dr Bimal P	DST - NRDMS	Oct 2020	32.11 lakhs	ongoing
3	Master Plan for Community Health Centre Mukkam Municipality	Dr. Chithra K Dr. Amritha P K Dr. Deepthi Bendi	Mukkam Municipality	March 2022	31Lakhs	ongoing
4	project titled 'Sociotope mapping as a tool for policy framework in an urban cultural landscape'	Dr Bimal P & Dr Chithra K	ICSSR IMPRESS	Jul 2019	8 lakhs	ongoing
5	Development of a model for generation of high resolution gridded population map	Dr. Bimal P & Dr.Deepthi Bendi	ISRO	December 2021	29 lakhs	ongoing
6	Sustainable landscape design	Dr.Anjana Bhagyanathan	gravity incorp pvt ltd	July,2021	3 lakhs	ongoing

	guidelines: integrating ecology and aesthetics					
7	Attitudes towards the environment: study in kerala ,post 2018 floods	Dr.Anjana Bhagyanathan	ICSSR IMPRESS	March,2 019	6 lakhs	ongoing

## DEPARTMENT OF CHEMICAL ENGINEERING

SL. NO	TITLE OF THE PROJECT	INVESTIGATORS	SPONSORING AGENCY	YEAR OF STARTING	AMOUNT (RS)	STATUS
1	Design modifications of TATA-JK dense medium Cyclone for the efficient separation of middling coal	Dr. Teja Reddy Vakamalla	R&D TATA Steel	2019	9,20,400	Completed
2	Integrated hydrodynamic cavitation - membrane distillation technology for enhanced water recovery from industrial effluent" (2020-2022).	Dr. Noel Jacob Kaleekkal				
3	Tuning the Performance of Thin-Film Composite Membranes on Electrospun Support for Engineered Osmosis in water remediation	Dr. Noel Jacob Kaleekkal				
4	Development of Electrospun Membranes with Graded Hydrophobicity for Membrane Distillation	Dr. Noel Jacob Kaleekkal				
5	Development of Forward Osmosis	Dr. Noel Jacob Kaleekkal				

	Membranes for Desalination and Wastewater treatment					
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## DEPARTMENT OF CIVIL ENGINEERING

SL. NO.	TITLE OF THE PROJECT	INVESTIGATORS	SPONSORING AGENCY	YEAR OF STARTING	AMOUNT (₹)	STATUS
1	Design and development of an expert system for updating rainfall Intensity-Duration-Frequency curves under climate change and non-stationarity	Dr. Agilan V	SERB, DST, GOI	2019	18,62,300	Ongoing
2	Investigation of shoreline stability along the Kerala coast using geospatial technologies for sustainable costal protection measures	PI: Dr. Anand K V, Co-PI: Dr. Agilan V	Directorate of Environment & Climate Change, Government of Kerala	2021	13,20,000	Ongoing
3	Studies on the occurrence, distribution and composition of microplastics along the Kerala coast with emphasis on its manifestation in food chain of nearshore communities	Dr. Ranjeet K, KUFOS, Ernakulam, George K. Varghese, NIT Calicut	SERB, DST, GoI	2018	39,80,000	Completed
4	Design and development of a real-time optical sensor for selected VOCs in air and its application for field	Dr. George K. Varghese, Dr. M K Ravi Varma, Ms. Abinaya S.	KSCSTE	2019	4,55,000	Ongoing

	measurements					
5	Modernization of Pollution Control System of Steel Industries in Kanjikode, Palakkad District	Dr. Aswathy E. V., Dr. Anantha Singh T. S., Dr. George K. Varghese	KSPCB	2022	10,00,000	Ongoing
6	Image Based Smart Parking Management for Intelligent Transportation Systems	Dr. Harikrishna M., Dr. Dhanaraj K J	KSCSTE	2020	9,45,000	Ongoing
7	Study of long-term Performance of Pavement Reinforced with Coir Geotextiles	Dr. M. V. L. R. Anjaneyulu, Dr. S. Chandrakaran, Dr. M. Sivakumar	Coir Board, Govt. of India	2017	21,24,000	Completed in September 2021
8	Flood forecasting using hybrid wavelet-ANN and wavelet-SVM models	Dr. Chithra N R, Dr. Santosh G Thampi	KSCSTE, Govt. of Kerala	2020	5,90,000	Ongoing
9	Investigations on Probabilistic Flood Forecasting Techniques using Medium-Range Numerical Weather Prediction (NWP) Ensembles for the Chaliyar River Basin, Kerala	Dr. Sathish Kumar D, Dr. Santosh G Thampi	SERB, DST, GoI	2022	22,95,000	Ongoing
10	Integrated electro-oxidation, electro-reduction and electrocoagulation process for the degradation	Dr. Anantha Singh T S	SERB, DST, GoI	2019	31,55,900	Ongoing



	of ammoniacal nitrogen in the presence and absence of carbon based pollutants					
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### DEPARTMENT OF COMPUTER SCIENCE

SL. NO	TITLE OF THE PROJECT	INVESTIGATORS	SPONSORING AGENCY	YEAR OF STARTING	AMOUNT(RS)	STATUS
1	Dr. S D MadhuKumar	Proactive Monitoring of Online Social Network for Prevention of Crime Against Women and Children (PMOPGwC)	BPR&D	2021	50	Ongoing
2	Dr. Priya Chandran	Project on Design and development of techniques and tools to build a simulation framework for performance evaluation of designs of processors enhanced for virtualization	SERB	2021	60.12	Ongoing
3	Dr. Arun Raj Kumar P	Towards Solving a Trajectory Planning Problem for Unmanned Aerial Vehicles (UAVs) to a computationally efficient algorithm	SERB (MATRICS)	2022	6.60	Ongoing
4	Dr. M. Prabu M.	A long Term Solution	DST -SERB		35.02	

		: Fuzzy Logic Based Image - Acoustic Classification to Detect the Elephant Movement Patterns in Hosur Forest Area to avoid Human Elephant Conflicts (3 years)		2018		Ongoing
5	Dr. M. Prabu M.	2. Initiative to Resolve Socio Economic Issues of the Marginalized Transgender Community through Fuzzy Cognitive Mathematical Model Approach in and around Kozhikode (2 years)	DST - ICSSR	2021	10.50	Ongoing
6	Dr. Jay Prakash	Design And Development Of A Deep Learning Based Online-Assistance System For Psychologists By Transforming Patient Transcripts To Speech With Emotions Using Text To Speech Synthesis	SERB	2020	13.618	Ongoing

7	Dr. Pranesh Das	A Prototype for Intelligent Coconut Harvester: An Application to Artificial Intelligence(AI) and Internet of Things (IoT)	SERB	2021	15.93	Ongoing
8	Dr. Subhasree M/ Dr. Subashini R	An intelligent system for Retinopathy of Prematurity (ROP) Screening and Diagnosis.	SERB	2019	30.90	Completed

#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION

SL. NO	TITLE OF THE PROJECT	INVESTIGATORS	SPONSORING AGENCY	YEAR OF STARTING	AMOUNT (RS)	STATUS
1	Consultancy project: CSL Technology: design, analysis and implementation	Vinay Joseph	PhyTunes Inc, USA	2021	17,42,242.00	Ongoing
2	Development of a diagnostic tool for Cold Atmospheric Plasma	Venu Anand	SERB-SRG	2021	25,37,070.00	Ongoing
3	Fabrication and characterization of ZnON based photo sensors	Aswathi R Nair	SERB-SRG	2021	27,54,350.00	Ongoing
4	Computer aided diagnosis system for mammogram analysis based breast tumor classification.	Dr. Praveen Sankaran, Dr. Sudeep PV, Dr. Shailaj, Dr. Uma V, Dr. Kavita	HEFA	2021	25,00,000.00	Ongoing

5	Synchronization in Single Carrier and Multi Carrier Underwater Wireless Acoustic Communication System (UWACS)	Dr Ameer P M, Dr Lillykutty Jacob and Dr Sameer S M	DRDO Naval Research Board	2021	35,64,000.00	Ongoing
6	Development of an indigenous tool for the enhancement of medical images using deep neural networks	Dr.Sudeep P V	SERB-SRG	2019	29,34,630.00	Closure report accepted
7	An Intelligent System for Retinopathy of Prematurity (ROP) Screening & Diagnosis	PI: Dr. Sreelekha G Co-PIs: Dr. Sathidevi P. S. Dr. Subashini R Dr. Subhasree M. Dr. Poornima Mohanachandran Dr. Anand Vinekar	SERB, DST	2019	30,90,080.00	Completed on March 2022
8	Special Manpower Development Programme - Chip to System Design (SMDP-C2SD) L	PI: Dr. Dhanaraj K. J Co-PI- Dr. B.Bhuvan	MeitY	2015	80	Completed on Nov 2021
9	CapsNetwork – International Network for Capsule Imaging in Endoscopy	Sudhish N George	Research Council of Norway	2021	60L	Ongoing
10	VLSI Implementation of LDPC Encoder/Decoder for On-board /	Deepthi P.P., Sameer S M, Dhanaraj K J	ISRO	2019	30.12 L	Ongoing

	Ground Satellite Applic ations					
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**DEPARTMENT OF MECHANICAL ENGINEERING**

SL. NO	TITLE OF THE PROJECT	INVESTIGATORS	SPONSORING AGENCY	YEAR OF STARTING	AMOUNT (RS)	STATUS
1	Numerical modelling, simulations and experimental investigations to improve the surface tribological properties of Ti-6Al-4V through developing wire electrical discharge alloying	Dr. Basil Kuriachen and Dr. Jose Mathew	SERB	2017	22.94 Lakhs	Completed
2	Experimental Investigations and Electro-Thermal Modelling of Electrode Wear Compensation in Micro Electric Discharge Machining ( $\mu$ EDM) of Shaped Holes on Super Alloys for Improving the Dimensional Accuracy and Functional Performance of Cooling Holes on Turbine Blades and Vanes	Dr. Basil Kuriachen and Dr. Jose Mathew	ARDB	2021	17.17 Lakhs	On going
3	Development new tool designs and	Dr. Basil Kuriachen	TIH-IITG	2022	40 Lakhs	Sanctioned, Yet to start

	Experimental Investigations into the effect of reinforcement particles on the tribological and corrosion properties of marine grade AA5052 aluminium alloy joints through FSW					
4	Mechinability studies and development of a stable manufacturing technique for XH67MBTHO Nickel based super alloy for semi cryogenic engine applications	Dr. Basil Kuriachen, Dr. Jose Mathew, and Dr. PB Dhanish	ISRO	2022	7.92 Lakhs	On going
5	Development of novel methodology to deposit Micro/Nano secondary phases (Composite coatings) through Electrical Discharge to improve the surface tribology of Ti6Al4V	Dr. Basil Kuriachen and Dr. Jose Mathew	UGC-DAE	2022	1.35 lakhs	On going
6	Microstructural, mechanical and wear behaviour of additively manufactured titanium and stainless steel:	Dr. Basil Kuraichen	SERB	2022	18000 USD	Sanctioned, Yet to start

	An investigation into the effect of build orientation and heat treatment					
7	Development of low-cost Induction Melted Liquid Metal Additive Manufacturing Machine (IMMAMM) with Numerical and Experimental Investigation	Dr. Basil Kuriachen and Dr. A P Sudheer	SERB	2022	70 Lakhs	SAncioned, Yet to start
8	Numerical study of mixing in T-junction and Dilute Gas-Droplet Flows with Evaporation	Dr. Sumer Dirbude	SERB	2021	50,000	Completed
9	Development of Kitchen Layout for paraplegic people	Dr. Ratna Kumar K	SERB	2019	26,75,120	ongoing
10	Control of Instabilities in Jeffcott Rotor	Ashesh Saha	SERB	2019	23,43,387	Completed
11	Agglomeration Abatement in Fluidised Bed Gasification of Ligno-cellulosic Biomasses	Dr. Arun P and Dr. C Muraleedharan	SERB	2021	32,01,240	Ongoing
12	One Ph.D. Fellowship Grant	Dr. Sudheer A P	IITPKD Technology IHub foundation	2021 December		Ongoing
13	Acoustic Emissions from a Premixed Flame propagating in a Tubular	Dr. T.J. Sarvoththama Jothi	SERB-CRG	2021	23,32,000/-	Ongoing

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### DEPARTMENT OF MATHEMATICS

SL. NO	TITLE OF THE PROJECT	INVESTIGATORS	SPONSORING AGENCY	YEAR OF STARTING	AMOUNT (RS)	STATUS
1	Modeling and simulation of fluid motion on the surface profile generation in Micro-EDM	Dr. S at yananda Panda	DST, Govt. of India	2019	6,60,000/-	On-going
2	Design of Optimal Reliability Acceptance Sampling Plans Based on Multi-stage process, Inliers, and Accelerated Tests” –SERB (DST), Govt. of India. Duration 2018-19 to 2021-22	Dr. Mahesh Kumar	DST-SERB	2018	7,42,500/-	Completed
3	A Study of Riesz Transforms Associated to the Grushin Operator	Dr. Sanjay P K	MATRICES Scheme of SERB	2017	6,60,000/-	On going

### DEPARTMENT OF CHEMISTRY

SL. NO	TITLE OF THE PROJECT	INVESTIGATORS	SPONSORING AGENCY	YEAR OF STARTING	AMOUNT (RS)	STATUS
1.	Design of gC3N4/CoN4 Nanohybrids as a Quantum Computing	Dr. Mausumi Chattopadhyaya (PI)	SERB	2022	31,58,078	Ongoing



	Material with Simultaneous Catalytic Activity and Sensing Ability					
2	Development of Spray Evaporation Technique for the Preparation of Uniform Microparticles of Ammonium Dinitramide and Surface Modification by Atomized Spray Coating Method	Dr. Anuj A Vargeese & Dr. Mija S J	ARMREB-DRDO	2021	72,59,824.00	Ongoing
3	Chemical synthesis of filled low dimensional CoSb <sub>3</sub> skutterudites for thermoelectric devices with high figures of merit for IC engine-driven vehicles	Dr. Anuj A Vargeese	DST-SERB (SRG)	2021	25,80,000.00	Ongoing
4	Novel Fused Imidazole – Coumarin Hybrids: Synthesis, Characterization, Antimicrobial Investigation and Structural – Activity Relationship Studies	Dr. Janardhan Banothu	NITC-FRG	2019	5,00,000/-	Completed
5	Human Toll-Like Receptor 2- Selective Agonists: Design, Synthesis and Structure-Activity Relationship in Diverse Heterocyclic Scaffolds	Dr. Janardhan Banothu	DST-SERB	2020	47,34,700/-	Ongoing
6	Synthesis and Reactivity Studies of Rare Mononuclear	Dr. Muniyandi Sankaralingam	Department of Science and Technology (DST)	2018	35,00,000	ongoing

	High-Spin Manganese(V)-oxo (S = 1) Complexes					
7	“Design of Functional Main Group Organometallic Molecular Scaffolds: NIR Absorbing Excellent Materials for Sensing, Transportation of Bio-inspired Anions, Two photon Absorption and OLEDs”	Dr Chinna Ayya Swamy P	DST-SERB	2022	39,33,600	Running
8	Supramolecular Rigid Aromatic Multifarene Scaffolds: Selective Recognition of Environmental Pollutants and Ligands for Asymmetric Catalysis	Dr. Chinna Ayya Swamy P	DST-SERB-Start up	2021	25,86,000	Running
9	Novel Main Group Organometallic Compounds Based Multichromophoric systems for OLEDs	Dr. Chinna Ayya Swamy P	NITC-SRG	2022	5, 00, 000	Running

#### DEPARTMENT OF SCHOOL OF MATERIAL SCIENCE

SL. NO	TITLE OF THE PROJECT	INVESTIGATORS	SPONSORING AGENCY	YEAR OF STARTING	AMOUNT (RS)	STATUS
1	Design and development of a low cost, rapid and sensitive sensor for the on-site detection of endotoxin	Dr. N Sandhyarani	DST Nano Mission	2019	4384560	Completed

2	Rational design and development of non precious mixed transition metal oxides for oxygen reduction reaction	Dr. N Sandhyarani	SERB DST	2020	4148890	Ongoing
3	Interface engineering of rhenium based nano hetero structures for enhanced hydrogen evolution reaction	Dr. N Sandhyarani	SERB DST (power fellowship)	2021	3810000	Ongoing
4	Development and characterization of Biodegradable Magnesium based alloys for degradable metallic implants	Dr. Hanas T	Indian counsel for medical research	2019	4250544	Ongoing

## 12.2 FACULTY POSITION

DEPARTMENTS	PROFESSOR	ASSO. PROFESSOR	ASST.PROFESSOR	TOTAL
Architecture & Planning	3	0	8	11
Chemical Engg.	3	1	14	18
Civil Engg.	11	2	22	35
Computer Science & Engg.	4	7	18	29
Electrical Engg.	5	9	16	30
Electronics & Communication Engg.	5	4	23	32
Mechanical Engg.	10	4	25	39
Mathematics	4	2	8	14
Physics	4	1	11	16
Chemistry	3	2	8	13
School of Management Studies	1	2	6	9
School of Biotechnology	3	2	6	11
School of Materials Science & Engg.	2	2	2	6
Physical Education	0	0	1	1
<b>Total</b>	<b>58</b>	<b>38</b>	<b>168</b>	<b>264</b>

## 12.3. ADMINISTRATIVE AND OTHER STAFF

### TECHNICAL STAFF

SL.NO.	NAME	DESIGNATION	DEPARTMENT
1	Pradeep Kumar K K	Technical Assistant (SG-II)	MED
2	Shibu K	Assistant Engineer	ENGG. UNIT
3	Rajendran M K	Technical Assistant (SG-II)	MED
4	Mohan Kumar A K	Assistant Engineer (SG-II)	ENGG. UNIT
5	Ajayachandran V R	Technical Assistant (SG-I)	CSED

6	Sasidharan Pillai G	Technical Assistant (SG-II)	CSED
7	Prakash Peter	Lab Attendent (SG-II)	PHYSICS
8	Tomin Sunny	Executive Engineer	EMU
9	Jayarajan T	LI Assistant (SG-II)	LIBRARY
10	Shaju K P	Technician (SG-II)	LIBRARY
11	Jayaraman K	Technical Assistant (SG-II)	LIBRARY
12	Hariharan C P	Senior Technical Officer	MED
13	Biju Francis	Technician (SG-II)	CSED
14	Sreeja. V	Technician (SG-II)	CSED
15	Praveen H Babu	Technician (SG-II)	ECED
16	Climson C R	Technician (SG-II)	EMU
17	Mahesan K A	Technician (SG-II)	EMU
18	Radhakrishan M K	Technician (SG-I)	EMU
19	Raju K P	Technician (SG-II)	EMU
20	Santhosh Kumar M V	Technician (SG-II)	EMU
21	Jayesh Kumar P	Technician (SG-II)	CED
22	Eldho. P. Varghese	Technician (SG-I)	MED
23	Manoj. K. G	Technician (SG-I)	MED
24	Sasi K K	Technical Assistant (SG-II)	MED
25	Sasesh A R	Technical Assistant	EED
26	Ajayakumar. R	Technician (SG-II)	CED
27	Noushad. K.K	Technician (SG-II)	CED
28	AbdulSathar V M	Technician (SG-I)	CSED

29	Beljith. P	Technician (SG-I)	CSED
30	Jayan V S	Technician (SG-II)	EED
31	Nandakumar K	Technician (SG-I)	EED
32	Prajith. P	Technician (SG-II)	EMU
33	AbdulSidheek P K	Technician (SG-I)	ENGG. UNIT
34	Prasad MoochikkalVariath	Technician (SG-I)	MED
35	Shaly Joseph. K	Technician (SG-I)	MED
36	Unnikrishnan R	Technician (SG-I)	MED
37	Sudheer.P.R	Technician (SG-II)	MED
38	Anandan P	Senior Technical Assistant	MED
39	VelayudhanKutty N P	Technical Assistant (SG-II)	MED
40	Sathiyam P K	Technical Assistant	CED
41	Krishnan kutty V	Technical Assistant	ECED
42	Mohammed Sali N K	Senior Technical Assistant	EED
43	Somanath K A	Senior Technical Assistant	EED
44	Abhilash. A	Senior Technical Assistant	MED
45	Ajayan A	Technical Assistant	MED
46	George T M	Senior Technical Assistant	MED
47	Raghu P V	Technical Assistant	MED
48	Sanal P R	Senior Technical Assistant	MED
49	Surendran P K	Technical Assistant	MED
50	Suresh.K.C.	Senior Technical Assistant	MED
51	Vasu.T.C.	Technical Assistant	MED

52	AnilKumar P	Technical Assistant (SG-II)	MED
53	Rajagopalan A	Technical Officer	CSED
54	Santhosh Kumar S	Technical Officer	CSED
55	Chandramohanan M K	Technical Assistant (SG-II)	LIBRARY
56	Anandan K R	Technical Assistant	ECED
57	Venugopalan K P	Instructor	EMU
58	Sobhana J	LI Assistant (SG-II)	LIBRARY
59	Pradeep Kumar E	Technical Assistant (SG-II)	MED

### MINISTERIAL STAFFS

SL.NO.	NAME	DESIGNATION	DEPARTMENT
1	Gejo C V	Deputy Registrar	Finance
2	Praveen Kumar.P	Assistant (SG-I)	Academic
3	Sasi Kumar K T	Assistant (SG-I)	(Dean R & C)
4	S.M.Shafi	Assistant (SG-I)	Accounts
5	C Anwar Sadath	Assistant (SG-II)	Hostel Office
6	P. Muraleedharan	Senior Superintendent	Establishment
7	K. Unnikrishnan	Assistant (SG-II)	Engg.Unit
8	M.Reejish Kumar	Senior Superintendent	Establishment
9	Petson Andrew	Assistant (SG-I)	Admission
10	M.V. Prasad	Senior Superintendent	Engg. Unit
11	Ashok Kumar Dev	Assistant Registrar	Accounts
12	S.Saravanan	Assistant Registrar	S & P
13	Dr.A.A.Celine	RMO	Health Center
14	Sindu .P	Assistant (SG-II)	Academic
15	Sobhana.T	Assistant (SG-II)	Academic
16	G. Chandrika	Assistant (SG-II)	Academic
17	SmeraK.S	Assistant (SG-II)	Establishment

18	P.D.Juliet Das	Assistant (SG-II)	Establishment
19	Mereena John	Assistant (SG-II)	Accounts
20	K. Mini	Superintendent	Accounts
21	P. Prama	Assistant (SG-I)	Accounts
22	S.Sreedha	Assistant Registrar	Administration

### **SUPPORTING STAFF**

<b>SL.NO.</b>	<b>NAME</b>	<b>DESIGNATION</b>	<b>DEPARTMENT</b>
1	C Preman	Office attendant (SG-II)	Director Office
2	C.Geetha	Office attendant (SG-II)	First Year Co-ordinator Office
3	C.Unnikrishnan	Office attendant (SG-I)	MED/CED
4	Devi Poolakkal	Office attendant (SG-II)	Accounts
5	Jameela. A.K	Senior Office Attendant	Accounts
6	K Thankamani	Office attendant (SG-II)	Engineering Unit
7	K V Chandu	Office attendant (SG-II)	Hostel Office
8	L. Sasikala	Office attendant (SG-II)	Health Center
9	M.M.Sadanandan	Office attendant (SG-II)	Guest House
10	N.K.Ummerkutty	Office attendant (SG-II)	Purchase
11	P.Abdul Razack	Office attendant (SG-II)	Sergeant Office
12	P.K.Sangeeta	Office attendant (SG-I)	Establishment
13	P.V.Bhagianathan	Office attendant (SG-II)	Sergeant Office
14	Saroja. T M	Office attendant (SG-II)	Chemistry
15	T.Janardhanan	Office attendant (SG-II)	Registrar Office
16	Thanka.C	Office attendant (SG-II)	CSED
17	Vinod. K.P	Office attendant (SG-II)	Library
18	Devi K P	Office attendant (SG-II)	Dean Academic



19	Mamukoya M	Office attendant (SG-II)	Guest House
20	Pushpavalli V	Office attendant (SG-I)	Academic

#### 12.4 STAFF MEMBERS DEPUTED/SPONSORED FOR TRAINING, LEARNING

Nil.

#### 12.5. CREC SILVER JUBILEE ENDOWMENT TRUST SCHOLARSHIPS

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.	Joseephus M T, John Sebastian & Luthufi K T Memorial Scholarship 2004-08 Batch
20.	MariveetilRaghunath Memorial Endowment Scholarship
21.	1984-88 Batch of REC/NITC Scholarship

#### 12.6. 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.

Shiny Joseph  
Secretary, PTA

Dr. Sameer S M  
President, PTA

## 12.7 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 3rd to 4th of September. All participants actively participated on the topic, 'Is technology on board to hit the mark in replacing a teacher's role?'

### **EENGINEERS**

'ENGINEERS' 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 24th 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, DJ 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 October 13th 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 October 15th, 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 November 22. 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 November 14 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 November 26 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.

### **MOMENTO 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 29th 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 January 2,2022 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 26th January 2022, NSS NITC celebrated the 72nd 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 8th, 9th, and 10th.

### **INTERNATIONAL WOMENS' 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 6th 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 10th 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.

**ANNUAL ACCOUNTS**  
**2021-2022**

**NATIONAL INSTITUTE OF TECHNOLOGY, CALICUT**

**ANNUAL ACCOUNTS 2021-22**

**NATIONAL INSTITUTE OF TECHNOLOGY, CALICUT**  
BALANCE SHEET AS AT 31.03.2022


(Amount in Rupees)

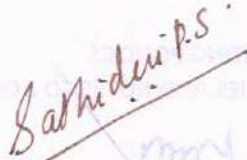
SOURCES OF FUNDS	Schedule	Current Year	Previous Year
CAPITAL FUND	1	5,58,36,87,973.71	5,19,81,89,588.11
DESIGNATED/EARMARKED/ENDOWMENT FUNDS	2	1,46,84,36,291.60	1,35,07,37,786.60
GPF & CPF	2A	38,19,92,287.54	36,17,39,975.54
LONG TERM LIABILITIES	3D	51,95,15,578.00	60,09,96,863.00
CURRENT LIABILITIES & PROVISIONS	3	1,71,31,57,573.34	1,58,82,52,446.10
RESERVES AND SURPLUS		-	-
<b>TOTAL</b>		<b>9,66,67,89,704.19</b>	<b>9,09,99,16,659.35</b>
<b>APPLICATION OF FUNDS</b>			
<b>FIXED ASSETS</b>			
Tangible Assets		3,14,58,27,149.79	1,79,88,28,079.31
Intangible Assets	4	3,32,18,694.92	66,40,058.66
Capital Work-In-Progress		97,77,96,239.00	2,34,41,93,530.00
<b>INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS</b>			
Long Term	5	85,99,74,638.00	83,89,67,083.00
Short term		-	-
<b>INVESTMENTS- OTHERS</b>	6	-	-
<b>CURRENT ASSETS</b>	7	3,75,61,32,404.60	3,40,34,44,179.24
<b>LOANS, ADVANCES &amp; DEPOSITS</b>	8	89,38,40,577.89	70,78,43,729.14
<b>TOTAL</b>		<b>9,66,67,89,704.19</b>	<b>9,09,99,16,659.35</b>

SIGNIFICANT ACCOUNTING POLICIES 23  
CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS 24

  
सहायक कुलसचिव, (खाता और वित्त)  
Assistant Registrar (F&A)  
राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
National Institute of Technology  
कालिकट / Calicut - 673601

  
DEPUTY REGISTRAR (Finance)  
National Institute of Technology  
Calicut 673601

  
REGISTRAR  
राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
National Institute of Technology  
कालिकट / Calicut

  
DEPUTY DIRECTOR  
NIT CALICUT

  
निदेशक / DIRECTOR  
राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
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एन.ई.टी. कॉम्पस (पी.ओ.) कालिकट - केरल - 673601 भारत  
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Assistant Registrar (F&A)  
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National Institute of Technology  
कालिकट / Calicut - 673601

## NATIONAL INSTITUTE OF TECHNOLOGY, CALICUT

### INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2022

(Amount in Rupees)

PARTICULARS	Schedule	Current Year	Previous Year
<b>INCOME</b>			
Academic Receipts	9	43,78,78,326.97	37,43,22,743.55
Grants/Donations/Subsidies	10	1,50,56,29,297.00	1,36,36,59,216.00
Income from investments	11	7,34,28,759.00	(1,92,40,153.00)
Interest earned	12	3,35,15,891.00	1,90,24,847.00
Other Incomes	13	2,31,47,413.50	1,69,78,665.00
Prior Period Income	14	16,44,31,638.96	3,50,004.00
<b>TOTAL (A)</b>		<b>2,23,80,31,326.43</b>	<b>1,75,50,95,322.55</b>
<b>EXPENDITURE</b>			
Staff Payments & Benefits (Establishment expenses)	15	1,27,38,54,147.00	1,08,53,71,012.00
Academic Expenses	16	30,31,88,579.44	28,58,06,739.00
Administrative and General Expenses	17	5,51,26,859.00	5,00,25,448.75
Transportation Expenses	18	13,38,252.00	11,32,421.00
Repairs & Maintenance	19	7,32,50,307.00	6,74,42,113.00
Finance costs	20	4,25,77,225.25	3,95,75,464.00
Depreciation/Amortization	4	12,95,97,154.47	7,08,14,437.00
Other Expenses	21	5,70,43,967.56	-
Prior Period Expenses	22	1,07,39,722.11	-
<b>TOTAL (B)</b>		<b>1,94,67,16,213.83</b>	<b>1,60,01,67,634.75</b>
<b>Balance being excess of Income over Expenditure (A-B)</b>		<b>29,13,15,112.60</b>	<b>15,49,27,687.80</b>
Less/(Add): Unutilised Non Plan Grant transferred to Liabilities/ (Assets)	3C		
Foreign Exchange gain/ loss			
Add: Transfers from Capital Grants		8,99,16,838.00	7,07,73,406.00
<b>Balance Being Surplus / (Deficit) Carried to Capital Fund</b>		<b>38,12,31,950.60</b>	<b>22,57,01,093.80</b>

SIGNIFICANT ACCOUNTING POLICIES  
CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS

23

24

सहायक कुलसचिव, (खाता और वित्त)  
Assistant Registrar (F&A)  
राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
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कालिकट / Calicut - 673601

DEPUTY REGISTRAR (FINANCE)  
राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
National Institute of Technology Calicut  
कालिकट / Calicut 673601

कुलसचिव / REGISTRAR  
राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
National Institute of Technology Calicut  
कालिकट / Calicut

DEPUTY DIRECTOR  
NIT CALICUT

निदेशक / DIRECTOR  
राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
National Institute of Technology Calicut  
एन.आई.टी. कॉम्पस (पी.ओ.) कालिकट  
NIT Campus (P.O.) Calicut  
कालिकट - 673601  
सहायक कुलसचिव (F&A)  
Assistant Registrar (F&A)  
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National Institute of Technology Calicut  
कालिकट / Calicut - 673601



**SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31.03.2022**

**SCHEDULE -1 CAPITAL FUND**

(Amount in Rupees)

Particulars	Current Year	Previous Year
Balance at the beginning of the year	5,19,81,89,588.11	4,97,15,35,581.31
Add: Contributions towards Capital Fund	-	-
Add: Grants from UGC, GOI & State Govt. to the extent utilized for capital expenditure	7,44,00,000.00	5,00,00,000.00
Add: Assets purchased out of earmarked funds	-	-
Add: Assets purchased out of Sponsored Projects, where ownership vests in the institution	79,25,507.00	38,06,763.00
Add: Assets donated/Gifts received	-	-
Add: Interest on Term Deposits and Savings account	-	-66,03,872.00
Less: Bank charges	0.00	0.00
Less: Transfer to earmarked funds - TEQIP	-	-
Add/(Less): Excess/(Deficit) of Income over Expenditure transferred from Income and Expenditure account	38,12,31,950.60	22,57,01,093.80
<b>Total</b>	<b>5,66,17,47,045.71</b>	<b>5,24,44,39,566.11</b>
Less/ (Add): Unspent Plan Fund transferred to Liabilities	(1,18,57,766.00)	(2,45,23,428.00)
Less: Transfers from Capital Fund	8,99,16,838.00	7,07,73,406.00
<b>Balance at the year end</b>	<b>5,58,36,87,973.71</b>	<b>5,19,81,89,588.11</b>

सहायक कुलसचिव, (खाता और वित्त)  
Assistant Registrar (F&A)  
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National Institute of Technology Calicut  
कालिकट / Calicut - 673601

DEPUTY REGISTRAR (Finance)  
National Institute of Technology  
Calicut 673601

कुल सचिव / REGISTRAR  
राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
National Institute of Technology Calicut  
कालिकट / Calicut

DEPUTY DIRECTOR  
NIT CALICUT

*R. Prasad*

निदेशक / DIRECTOR

राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट

National Institute of Technology Calicut  
एन.ई.टी. कॉम्पस (पी.ओ.) कालिकट, केरल - 673601, भारत  
NIT Campus (F.O.), Calicut, Kerala - 673 601, India

(सहायक कुलसचिव) / DEPUTY REGISTRAR (F&A)  
उपनिदेशक / DEPUTY DIRECTOR  
National Institute of Technology Calicut

SCHEDULE 2 – DESIGNATED/EARMARKED/ENDOWMENT FUNDS

(Amount in Rupees)

Particulars															TOTAL	
	TEQIP	TEQIP-II	TEQIP-II (Equipment Modernisation Grant)	TEQIP-II Reserves	TEQIP-III	FBS	GROWTH FUND	STUDENTS FUND	GYMKHANA	TBI	TBI-II	TBI-NIDHI PRAYAS	H.W.D	Endowment	Current Year	Previous Year
<b>A.</b>																
a) Opening balance of the funds	23,54,832.00	3,94,391.00	0.00	1,01,49,540.00	14,09,660.00	62,624.00	1,25,38,74,020.06	3,21,39,960.20	3,02,002.00	1,73,83,804.00	48,56,194.00	2,53,75,297.00	24,36,062.00	-	1,35,07,37,786.26	1,28,24,65,945.26
b) Additions during the year	-	-	-	-	20,12,846.00	-	1,46,34,750.00	1,19,28,740.00	1,13,300.00	18,81,532.00	0.00	61,89,311.00	4,09,000.00	-	3,71,69,479.00	4,40,38,175.00
c) Income from investments made out of funds	-	-	-	-	-	-	3,06,41,430.00	52,816.00	-	3,08,599.00	-	-	-	-	3,10,02,845.00	5,09,58,381.00
d) Accrued interest on investments/Advances	-	-	-	-	-	-	6,66,47,102.00	-	-	1,19,974.00	-	-	-	-	6,67,67,076.00	1,54,642.00
e) Interest on Savings Bank A/c	-	-	-	17,30,204.00	-	-	97,17,782.00	-	-	-	-	-	-	-	1,14,47,986.00	1,19,269.00
f) Other additions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(39,66,721.00)
<b>Total(A)</b>	<b>23,54,832.00</b>	<b>3,94,391.00</b>	<b>0.00</b>	<b>1,18,79,744.00</b>	<b>34,22,506.00</b>	<b>62,624.00</b>	<b>1,37,55,15,084.06</b>	<b>4,41,20,916.20</b>	<b>4,15,302.00</b>	<b>1,96,93,909.00</b>	<b>48,56,194.00</b>	<b>3,15,64,608.00</b>	<b>28,45,062.00</b>	<b>-</b>	<b>1,49,71,25,172.26</b>	<b>1,37,37,69,691.26</b>
<b>B.</b>																
Utilisation/Expenditure towards objectives funds																
i) Capital Expenditure	-	0.00	-	-	6,51,000.00	-	-	44,390.00	38,71,512.00	0.00	20,46,614.00	-	1,98,77,714.00	1,59,614.00	6,51,000.00	-89,133.00
ii) Revenue Expenditure	-	0.00	-	-	20,38,037.00	-	-	-	-	-	-	-	-	-	2,80,37,881.00	2,31,21,098.00
<b>Total(B)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>26,89,037.00</b>	<b>-</b>	<b>-</b>	<b>44,390.00</b>	<b>38,71,512.00</b>	<b>-</b>	<b>20,46,614.00</b>	<b>-</b>	<b>1,98,77,714.00</b>	<b>1,59,614.00</b>	<b>2,86,88,881.00</b>	<b>2,30,31,905.00</b>
<b>C.</b>																
Amount paid back to the authority															0.00	0.00
<b>Total(C)</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>3,94,391.00</b>	<b>0.00</b>	<b>1,18,79,744.00</b>	<b>7,33,469.00</b>	<b>62,624.00</b>	<b>1,37,54,70,694.06</b>	<b>4,02,49,404.20</b>	<b>4,15,302.00</b>	<b>1,76,47,295.00</b>	<b>48,56,194.00</b>	<b>1,16,86,894.00</b>	<b>26,85,448.00</b>	<b>-</b>	<b>1,46,84,36,291.60</b>	<b>1,35,07,37,786.60</b>

सहायक कुलसचिव, (खाता और वित्त)  
Assistant Registrar (F&A)  
राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
National Institute of Technology Calicut

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National Institute of Technology  
Calicut 673001

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राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
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NIT Campus (F.O), Calicut, Kerala - 673001, India

**SCHEDULE 2(A) GPF & CPF**

	GPF	CPF	TOTAL	
			Current year	Previous year
<b>A.</b>				
a) Opening balance of the funds	34,33,76,116.72	1,83,63,858.63	36,17,39,975.35	32,28,52,128.35
b) Additions during the year	4,83,07,776	8,00,70,458	12,83,78,234	13,31,72,385.00
c) Income from investments made out of funds	2,13,74,184.00		2,13,74,184.00	2,29,65,790.00
d) Accrued interest on investments/Advances			-	-
e) Interest on Savings Bank A/c	13,70,449		13,70,449	1,34,749.00
f) Other additions				
<b>Total(A)</b>	<b>41,44,28,525.72</b>	<b>9,84,34,316.63</b>	<b>51,28,62,842.35</b>	<b>47,91,25,052.35</b>
<b>B.</b>				
Utilisation/Expenditure towards objectives funds				
i) Capital Expenditure				
ii) Revenue Expenditure	4,55,47,836.00	8,53,22,719	13,08,70,555.00	11,73,85,077.00
<b>Total(B)</b>	<b>4,55,47,836.00</b>	<b>8,53,22,719</b>	<b>13,08,70,555.00</b>	<b>11,73,85,077.00</b>
<b>Closing balance at the year end (A-B)</b>	<b>36,88,80,689.72</b>	<b>1,31,11,597.63</b>	<b>38,19,92,287.54</b>	<b>36,17,39,975.54</b>

  
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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		
2. Deposits from students	3,36,59,214.00	3,26,22,114.00
3. Sundry Creditors		
a) For Goods & Services	41,463.00	41,463.00
b) Others	10,94,483.00	9,82,683.00
4. Deposits - Others (including EMD, Security Deposit)	6,07,81,517.60	6,09,72,116.20
5. Statutory Liabilities (GPF,TDS,WC TAX,CPF,GIS,NPS):		
a) Overdue		
b) Others	15,40,690.64	15,64,675.83
6. Other current Liabilities		
a) Salaries	-	44,64,401.00
b) Receipts against sponsored projects	17,56,47,320.03	15,43,23,821.50
c) Receipts against sponsored fellowships & scholarships	4,21,73,766.44	4,59,69,766.94
d) Unutilised Grants	51,69,53,569.00	50,44,24,704.00
e) Grants in advance	-	-
f) Tuition fee	46,15,975.53	46,15,975.53
g) Other liabilities	13,33,40,928.10	20,57,58,743.10
<b>Total (A)</b>	<b>96,98,48,927.34</b>	<b>1,01,57,40,464.10</b>
<b>B. PROVISIONS</b>		
1. For Taxation	-	-
2. Gratuity	27,20,04,846.00	26,36,37,029.00
3. Superannuation/Pension	0.00	0.00
4. Accumulated Leave Encashment	33,05,68,616.00	27,86,62,118.00
5. Expenses payable	14,07,35,184.00	3,02,12,835.00
6. Trade Warranties/Claims	-	-
7. Others	-	-
<b>Total (B)</b>	<b>74,33,08,646.00</b>	<b>57,25,11,982.00</b>
<b>Total (A+B)</b>	<b>1,71,31,57,573.34</b>	<b>1,58,82,52,446.10</b>

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कुल सचिव / REGISTRAR  
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**SCHEDULE 3A- SPONSORED PROJECTS**

(Amount in Rupees)

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	-	(11,153.00)	-		11,153.00
2	Stable Isotopic Investigation	1,98,524.00		-	1,98,524.00	-	1,98,524.00	
3	Experimental Investigation	2,60,895.00		-	2,60,895.00	-	2,60,895.00	
4	Development Of Transparent Conducting Polymer Films For Electrode	3,03,928.00		11,512.00	3,15,440.00	3,15,440.00	-	
5	Information Security Education	5,09,237.00		9,153.00	5,18,390.00	5,18,390.00	-	
6	Multifunctional Plasmonic Nanoparticles - Nano Composites - Targeted Drug Delivery	5,429.00		-	5,429.00	-	5,429.00	
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	3,98,311.00		3,98,311.00	
9	Enhancement Of The Sensivity Of Peptide Nanotube Based Biosensors ...	18,808.00		-	18,808.00	-	18,808.00	
10	Development Of An Interoperable Spatial Database Of Road Network For CIt	15,08,674.00		46,841.00	15,55,515.00	1,00,000.00	14,55,515.00	
11	Fast Development Of Chitosan Reinforced Polymer Nanocomposites	8,914.00		-	8,914.00	-	8,914.00	
12	Development Of Tools & Techniques For Modeling & Analysis	31,60,016.00			31,60,016.00		31,60,016.00	
13	Strengthen The Research And Post Graduate In Area Power Quality	14,03,213.00		48.00	14,03,261.00	14,03,261.00	-	
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		1,02,140.00	-	(1,02,140.00)	1,00,000.00		2,02,140.00
16	Synthesis And Grafting Of Thermo Responsive Hydrogels On Nano Porous Membranes- Irradiation-Drug	90,348.00		-	90,348.00	-	90,348.00	
17	Design Development And Optimization Of Miniature And Micro	5,14,936.00		18,777.00	5,33,713.00	5,33,713.00	-	
18	Fast Track Development Of An Extractive Fermentation Process For Enhanced Alkline Phosphatase	12,863.00		-	12,863.00	-	12,863.00	
19	Molecular And Functional Characterization Of Putative-Zingiber Zerumbt-Ginger		6,496.00	-	(6,496.00)	-		6,496.00
20	Regulation Of L- Sorbose Utilization In Human Fungal Pathogen Candida Albicans	11,66,075.00		1,321.00	11,67,396.00	11,67,396.00	-	
21	Molecular Cloning And Characterization Of Terpene Synthas-Zingiber Zerumbet	1,00,990.00		-	1,00,990.00	-	1,00,990.00	

*R. Prasad*

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कुल सचिव / REGISTRAR  
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*Sathidevi P.S.*  
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22	Simulation Of Solid Rocket Exhaust Plumes	-	-	-	-	-
23	Devlmpt. Of Activity Based Models For Forecasting Of Travel Demand	1,950.00	1,950.00	-	-	-
24	Developmet Of A Toolbox For Evaluation And Identification Of Urban Road Safety Improvement Measures	1,950.00	-	1,950.00	1,950.00	-
25	Investigation Of Distributed Generation Strm. Integration	-	-	-	-	-
26	Identification And Characterization Of Phytochemicals From Indian Medicinal Herbs	-	-	-	-	-
27	Design & Devlp. Of Electro-Magnatically Driven Miniature- Ir Sensor Array Phase I	236.00	-	236.00	-	236.00
28	Development Of Pro-Fluorophore Scaffolds To Probe Peptide Aggregation And-Transition	7,64,819.00	-	7,64,819.00	-	7,64,819.00
29	Study On Long Term Performance Pavements With Coir Geotextiles	22,64,406.00	61,760.00	23,26,166.00	-	23,26,166.00
30	Use Of Coir Pith For Airport Soft Ground Arrestor System	2,365.00	-	(2,365.00)	-	2,365.00
31	Pufa Therapy Ameliorates Cognitive Impairment And Mitochondrial Dysfunction In Caeno	-	-	-	-	-
32	Productivity Monitoring And Wage Analysis For Nreg Works	1,670.00	-	1,670.00	-	1,670.00
33	Production Management System	3,910.00	-	3,910.00	-	3,910.00
34	Establishment Of Bif - Btbi	389.00	-	389.00	-	389.00
35	Electron C Structure Studies Of Adsorption Of Unsaturated Hydrocarbons	-	-	-	-	-
36	Combination Of Therapy In Ischmic Cavity - Enhanced Absorbion Spectroscopy For Trace Gas Pollutant Monitoring	722.00	-	722.00	-	722.00
37	Novel Functionalized Porphyrinic Coordination Arrays, Polymers And Frameworks	9,55,872.00	6,617.00	9,62,489.00	9,60,000.00	2,489.00
38	Tunable Hierarchical Zeolites Using Polymer Macro- Theoretical Study Onysis By Methane Mono-Oxygenase The Enzymatic Castal	27,65,053.00	3.00	27,65,056.00	27,65,056.00	-
39	Novel Triazole Vridged Metalloporphyrins Formed Via Click Chem.	-	-	-	-	-
40	Nonlinear Analysis Of Eeg Signals Of Patients With Alzheimers Disease	40,792.00	-	(40,792.00)	-	40,792.00
41	Design Uranium Based Catalyst For Activation And Functionaliation A Computational Quantum Design And In Vitro Evaluation - Hif Prolyil Hydroxylase	8,63,158.00	-	8,63,158.00	-	8,63,158.00
42	Design And In Vitro Evaluation - Hif Prolyil Hydroxylase	1.00	1.00	-	-	-
43	Oleamide As Novel Neuroprotectant Against Ischemic Stroke	12,088.00	-	12,088.00	-	12,088.00
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46	Assessment Of Effectiveness Of Nh-47 Gye Pass Road In Coimbatore (Los)	1,25,295.00	-	1,25,295.00	-	1,25,295.00
47	Biodegradability Enhancement Of Low Density Polyethylene By Using Biopolymer Nano-	6,16,139.00	-	(6,16,139.00)	-	6,16,139.00
48	Nrb Project - Design And Development Of A Protocol Stack For Underwater.	17,698.00	-	17,698.00	-	17,698.00
49	Project Antibiotics Removal From Waste Water	14,35,865.00	-	14,35,865.00	14,35,865.00	-
50	A Genetic Approach Towards Understanding	4,26,645.00	-	4,26,645.00	-	4,26,645.00
51	Fast Track Project	3,04,647.00	-	3,04,647.00	-	3,04,647.00
52	Poly (3,4Ethylenediothiophene ) Poly(Methyl Methacrylate)	2,87,035.00	-	(2,87,035.00)	-	2,87,035.00
53	Investigation On Bio-Hydrogen Production By Thermo-Chemical Method	1,66,938.00	-	1,66,938.00	-	1,66,938.00
54	Centre For Transportation Research	51,13,417.00	7,58,672.00	58,72,089.00	18,08,995.75	40,63,093.25
55	Development Of Bistable Memory Devices Based On Organic Semi-Conductors	5,52,686.00	-	5,52,686.00	-	5,52,686.00
56	Rational Design And Synthesis Of Metalloporphyrin-Lanthanoid Hybrid Material For Dna Binding	13,85,798.00	-	13,85,798.00	-	13,85,798.00
57	Photo Switchable K Ion Channel Blockers	19,972.00	-	19,972.00	-	19,972.00
58	Experimental And Deterministic Model Studies In Regeneration Of Microbial Biosorbents After Heavy Metal Desorption	19,603.50	-	19,603.50	-	19,603.50
59	Devt Of Low Cost Elastomeric Fullerene Derivatives Using Electron And Gamma Irradiation For Organic Electronic Applications	6,29,407.00	-	6,29,407.00	-	6,29,407.00
60	Design And Implementation Of Secure Communication System	8,069.00	-	8,069.00	-	8,069.00
61	Inhibition Of Mitochondrial Dynamin Relates Protein One	1,907.00	-	1,907.00	-	1,907.00
62	High Energy Density Photochemical Fules Based On Nanomaterial Hybrids	33,87,351.00	28.00	33,87,379.00	33,86,883.00	496.00
63	Transparent Flexible And Conducting Electrodes Based On Graphene- Nanometal Hybrids	7,60,516.00	71.00	(7,60,445.00)	-	7,60,445.00
64	Ruthenium (11) Osmium (11) And Gold (111)Alkaloids: Active Targets For Dna Intercalation Interact ons	11,82,628.00	-	11,82,628.00	-	11,82,628.00
65	Investigation Of Optical Nonlinearity By Defect State In One Dimensional Photonic Crystals	13,121.00	-	(13,121.00)	-	13,121.00
66	Characterizing The Interactions Of Chlorpromazine With The Mitotic Kinesin Eg5 And Tublin	13.00	13.00	-	-	-
67	Design And Fabrication Of Anechoic Test Facility And Characterization Of Acoustic Emission From Airfoils In Flow Field	65,372.00	12.00	65,384.00	-	65,384.00

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68	Ultrasensitive, Rapid & Low Cost Detection Of Cancer Biomakers	377.00	-	377.00	-	377.00	-
69	Development Of Nanocomposites Ethylene	6,61,747.00	-	6,61,747.00	-	6,61,747.00	-
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	-	61,301.00	-	61,301.00	-
73	Studies On Ground Water Pollution By Heavy Metal Disch & Ex	37,247.00	-	37,247.00	-	37,247.00	-
74	Investigation On Power Quality Issues Of Drives	1.00	-	1.00	1.00	-	-
75	Mesophase Formation And Characterisation Of Organised Assemblies	13,386.00	-	13,386.00	-	13,386.00	-
76	Stand. Of Engi. Properties	-	9.00	(9.00)	-	-	9.00
77	Implementation Of Multy.	3,98,311.00	-	3,98,311.00	3,98,311.00	-	-
78	Seismic Evaluation Of Existing Multy - Storey Buildings In Kozhikode Dist.	11,63,941.00	-	11,63,941.00	11,63,941.00	-	-
79	Development Of Risk Management Tool In Green Construction Sites	-	-	-	-	-	-
80	Transcript Profiling Of Differentially Expr.	-	20,000.00	(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	-	12,679.00	-	12,679.00	-
83	Low Density Polyethylene / Nanochitosan Biodegradable Films For Food-	33,804.00	-	33,804.00	-	33,804.00	-
84	Development Of Low Cost Polymer Electrolyte Membranes	4,06,866.00	-	4,06,866.00	-	4,06,866.00	-
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 (Pdic) Devices For Switchable Window Applications	-	9,97,824.00	(9,97,824.00)	-	-	9,97,824.00
88	Devt And Analysis Of Model For Green Operations In Supply Chain Management	-	-	-	-	-	-
89	Enhancement Of Third-Order Optical Nonlinearity In Photonic Crystalcavity For Optical Switching	14,737.00	-	14,737.00	-	14,737.00	-
90	Development Of Organic Solar Cells Based On Transition Metal Oxide Anode Buffer Layers	921.00	-	921.00	-	921.00	-
91	Temperature Dependant Optical Switch From Organized Assemblies	1,594.00	-	1,594.00	-	1,594.00	-
92	Investigation On The Application Of Catalitic Nanoparticles As Diesel	25,89,291.00	-	2,41,312.00	28,30,603.00	7,26,414.00	21,04,189.00

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11

Calicut  
11, India



93	Devt Of A Model Framework For Land Use Based Estimation And Prediction Of Solid Waste Generation	1,692.00	-	1,692.00	-	1,692.00
94	Implimentation 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	-	8,399.00	-	8,399.00
96	Development Of A Hybridelectrochemical Discharge Machine And Itsperformance Analysis	2,675.00	-	2,675.00	-	2,675.00
97	Securityassessment Of Microgrids In Isolated Andin Grid Connected Mode	2,57,340.00	-	2,57,340.00	-	2,57,340.00
98	Setting Up Design Innovationcentre	29,73,971.00	58,652.00	30,32,623.00	15,41,643.00	14,90,980.00
99	Special Manpowerdevelopment-Chip To Systemdesign(Snmdp-C25d)-Department Ofelectronics And Information Technology Mit	13,01,627.00	27,588.00	13,29,215.00	13,24,176.00	5,039.00
100	Synthesis Of Novelectrocatalytic Nanoparticles Andnanocomposites For Fuel Cell Application	13,853.00	-	13,853.00	-	13,853.00
101	Development Of Recombinantsphingomonas Paucimobilis Ofr Gellan Gumproduction.....Delvery System	35,346.00	-	35,346.00	-	35,346.00
102	Power Electronics For Grid Connectedrenewable Energy System Under Nampetphase li	2,99,884.00	-	2,99,884.00	-	2,99,884.00
103	Production Of Bil Diesel Fromchlorella Vulagris	80,532.00	2,172.00	82,704.00	1,330.00	81,374.00
104	Investigation Over The Experimentaland Mathematical Modelling Of Aerosols Inthe Kde.Dist.	1,15,012.00	3,014.00	1,18,026.00	-	1,18,026.00
105	Development Of Cost Effective 3-Axisintelligent Platform Stabilization System"	1,70,171.00	-	1,70,171.00	-	1,70,171.00
106	Inspire Faculty,Ced - Inspire Research Project	2,053.00	-	(2,053.00)	-	2,053.00
107	Strength Improvement Of Locallyavailable Soft Clays In Construction Ofhighways Using Lime-Enzymatic	79,093.00	-	(79,093.00)	-	79,093.00
108	Development Of Advanced Fibrereinforced Polymer Nanocomposites For	2,15,484.00	38.00	(2,15,446.00)	479.75	2,15,925.75
109	DEVELOPMENT OF STABLE NANOFLUIDS.....THERMAL POWER PLANTS	30,52,748.00	-	30,52,748.00	-	30,52,748.00
110	DEVELOPMENT OF SMART CONTROLLER FOR SWITCHED RELUCTANCE MOTOR	15,637.00	343.00	(15,294.00)	-	15,294.00
111	FIST PROGRAM-2015 IF DST TO STRENGTHEN THE .....MED	87,77,278.00	6,05,401.46	93,82,679.46	11,65,313.00	82,17,366.46
112	DEVELOPMT. OF SOLID STATE TRANSORMER AS....INTERFACING DEVICE	66,471.00	-	66,471.00	-	66,471.00
113	DEVLMT.OF NANO LUBRICANT FOR DIESEL ENGINE	8,57,848.00	1,224.00	8,59,072.00	-	8,59,072.00

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114	HIGH VALENT TRANS-METALLOPORPHYRINS WITH GLYCODIC LINKAGES	18,665.00	-	18,665.00	-	18,665.00
115	SYNTHESIS, CHARACTERIZATION AND APPLICATION OF NOVEL MAGNETICALLY. DESIGN, SYNTHESIS	1,555.00	44.00	1,599.00	-	1,599.00
116	AND EVALUATION OF SOLID-EMISSIVE	5,13,013.00	-	5,13,013.00	23.00	5,12,990.00
117	SERB (DST) PROJ. "NAKED CARBON AS A BRIDGING	2,33,011.00	-	2,33,011.00	-	2,33,011.00
118	A MULTI-WAVE LENGTH INTEGRATING NEPHELOMETER	-	-	-	-	-
119	STUDENT PROJECT (GEORGE K.V)	-	-	-	-	-
120	A MULTI-WAVE LENGTH INTEGRATING NEPHELOMETER	10,583.00	-	10,583.00	2,640.00	7,943.00
121	DEVELOPMENT OF STEEL FIBRE REINFORCED...SEISMIC RESISTANT DESIGN	1,974.00	-	1,974.00	-	1,974.00
122	POLYMER AND HYBRID ELECTRONICS... APPLICATIONS	4,75,142.00	-	4,75,142.00	-	4,75,142.00
123	SIMULTANEOUS REMOVAL OF ORGANIC... BIO-ELECTRO CHEMICAL CELL	28,136.00	-	28,136.00	1,35,030.00	(1,06,894.00)
124	MICRO-RNA-9 REGULATION OF NEURO...FOR ISCHEMIC STROKE	1,20,449.00	715.00	(1,19,734.00)	2,87,680.00	4,07,414.00
125	MS.SREEJA M "CHETAS"	6,209.00	-	6,209.00	2,888.00	3,321.00
126	MODEL FOR PART BASED...TRAFFIC OPERATION IN INDIA	1,85,758.00	4,485.00	1,90,243.00	23,226.00	1,67,017.00
127	DEVELOPMENT, TESTING AND STANDARDISATION OF HEAT PUMP.....THERMAL HYBRID EVAPORATORS	15,238.00	129.00	(15,109.00)	-	15,109.00
128	CAPACITY BUILDING IN DAM...REHABILITATION & IMPROVEMENT	46,18,553.00	17,102.00	46,35,655.00	-	46,35,655.00
129	CATIONIC MESOTHIENYLPORPHYRINS...DNA INTERACTION	15,665.00	104.00	15,769.00	4,914.00	10,855.00
130	TECHNOLOGICAL INNOVATION UNDER THE BANNER "BRIDGING THE INNOVATION GAP"	1,14,329.00	-	(1,14,329.00)	-	1,14,329.00
131	DR.LISA SREEJITH "MHRD SWACCHATA ACTION PLAN"	36,07,458.00	27,52,999.00	63,60,467.00	59,13,848.50	4,46,618.50
132	MHRD GIAN COURSE DR.A V BABU "KEY ENABLING	1,24,374.00	-	(1,24,374.00)	-	1,24,374.00
133	OTHER PROJ.DR.SAMEER S M "FIST PROGR OF	16,74,373.00	45,493.00	17,19,866.00	-	17,19,866.00
134	OTHER PROJ.DR.SANJAY P K SERB PROJ."A STUDY	2,13,297.00	4,750.00	2,17,957.00	68,716.00	1,49,241.00
135	OTHER PROJ.(SERB) DR.M PRABHU"A LONG TERM	98,053.00	29,000.00	1,27,053.00	1,27,297.95	(244.95)
136	MHRD GIAN COURSE DR.SATYANANDA PANDA "A	22,602.00	-	(22,602.00)	-	22,502.00
137	OTHER PROJ.DR.SUBRAMANIAN NAMBOODIRI SERB	16,78,203.00	3,275.00	16,81,478.00	2,85,072.00	13,96,406.00

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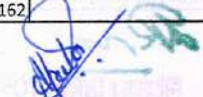
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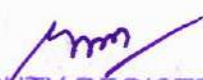
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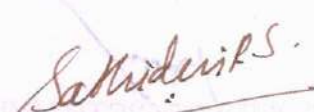
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138	OTHER PROJ.DR.RAMYA K (UNDER MENTORSHIP OF	26,301.00	-	26,301.00		26,301.00
139	OTHER PROJ. MS.ATHULYA DAS "INSPIRE	76,449.00	3,95,712.00	4,72,161.00	4,13,176.00	58,985.00
140	OTHER PROJ.DR.DHANYA RAM V SERB	2,92,826.00	4,31,842.00	7,24,668.00	2,06,634.75	5,18,033.25
141	OTHER PROJ.DR.ARUN RAJ KUMAR PARTHIBAN		23,945.00	-	(23,945.00)	23,945.00
142	OTHER PROJ.DR.MAHESH KUMAR SERB		27,018.00	660.00	(26,358.00)	35,960.00
143	OTHER PROJ.DR.ANJANA BHASI SERB	9,03,488.00	1,45,142.00	10,48,630.00	2,41,500.00	8,07,130.00
144	OTHER PROJ.DR.DEEPAK LAWRENCE K SERB	2,57,717.00	26,291.00	2,84,008.00	-	2,84,008.00
145	OTHER PROJ. DR.SURESH P S DBT		1,66,283.00	12,033.00	(1,54,250.00)	1,60,764.00
146	INSPIRE FACULTY AWARD TO DR.MUNIYANDI	20,48,599.00	1,15,946.00	21,64,545.00	9,90,151.00	11,74,394.00
147	OTHER PROJ.DR.N SANDHYARANI DST	5,52,956.00	4,12,616.00	9,65,572.00	8,84,844.50	80,727.50
148	OTHER PROJ.DR.PANNEERSELVAM RANGANATHAN	4,22,702.00	29,822.00	4,52,524.00	4,51,759.00	765.00
149	OTHER PROJ.MS.AKSHAYA M V DST (WOS-B)	1,90,876.00	6,60,642.00	8,51,518.00	7,27,212.00	1,24,306.00
150	OTHER PROJ.DR.M A NASEER DST TRAINING	16,132.00	441.00	16,573.00	-	16,573.00
151	STUDENT PROJECT (GEORGE K.V)	5,640.00		5,640.00	-	5,640.00
152	REFUNDABLE FOR WORKSHOP FROM KSEB HRM		4,961.00	4,961.00	-	-
153	IMPLEMENTATION OF BREATH ANALYZER FOR DIABETES DETECTION"	37,45,028.00	7,20,766.00	44,66,794.00	6,65,197.50	38,01,596.50
154	DEVELOPMENT OF BIO-MODIFIED CARBON PASTE.....METALS FROM WASTE WATER"	9,18,915.00	3,46,017.00	12,64,932.00	8,52,925.50	4,12,006.50
155	"A HIGHLY FLEXIBLE PIEZO-TRIBO NANOGENERATOR.....CAPTURING HUMAN	1,91,026.00	1,54,672.00	3,45,698.00	3,41,261.50	4,436.50
156	MODELING AND SIMULATION OF FLUID MOTION ..... MICRO FDM"	22,131.00	457.00	22,588.00	14,849.00	7,739.00
157	PROCESS INTENSIFICATION OF POST-COMBUSTION ..... BED REACTOR CONCEPT"	13,38,954.00	6,05,833.00	19,44,787.00	10,53,566.00	8,91,221.00
158	TURNING THE PERFORMANCE OF THIN FILM COMPOSITE ..... OSMOSIS IN WATER		5,55,302.00	-	(5,55,302.00)	2,90,853.00
159	INTELLIGENT SYSTEM FOR RETINOPATHY.....SCREENING AND DIAGNOSIS"	3,14,952.00	6,60,918.00	9,75,870.00	5,86,337.00	3,89,533.00
160	ATTITUDE TOWARDS THE ENVIRONMENT.....POST 2018 FLOODS"	1,44,978.00	1,58,519.00	3,03,497.00	2,91,960.00	11,537.00
161	A RESILIENT DC COMMUNITY GRID.....SERVICES TO LOCAL GRID"	4,14,116.00	1,39,047.00	5,53,163.00	5,05,804.00	47,359.00
162	INITIATIVES TO RESOLVE SOCIO-ECONOMIC ISSUES	3,66,645.00		7,433.00	3,74,078.00	1,27,948.75
						2,46,129.25

  
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163	"COMPUTATIONAL INVESTIGATIONS ON THE MECHANISM.....DEGRADATION WITH AGEING	19,668.00		68,056.00	87,724.00	1,68,350.00	(80,626.00)
164	"MICROBIAL RECOVERY OF BIOGENIC METHANE.....AND RECLAMINATION OF THE SITE"	3,52,474.00		2,55,192.00	6,07,666.00	4,95,624.00	1,12,042.00
165	"VLSI IMPLEMENTATION.....SATELLITE APPLICATIONS"	2,89,166.00		4,59,056.00	7,48,222.00	5,38,230.75	2,09,991.25
166	"SYNTHESIS & CHARACTRIZATION OF CARBON BASED FUNCTIONAL...."		71,764.00	2,149.00	(69,615.00)	1,07,645.00	1,77,260.00
167	UNNAT BHARAT ABHIYAN	1,70,910.00		-	1,70,910.00	-	1,70,910.00
168	DEVELOPMENT AND CHARACTERISATION OF BIO DEGRADABLE METALLIC IMPLANTS"	9,56,460.00		20,414.00	9,76,874.00	8,64,150.00	1,12,724.00
169	DEVLPMNT OF ELECTROSPUN.....MEMBRANE DISTILLATION"	5,97,233.00		2,90,735.00	8,87,968.00	4,89,575.00	3,98,393.00
170	TWO DIMENSIONALLY TAILORED.....MULTIFUNCTIONAL APPLICATIONS"	20,09,523.00		2,15,941.00	22,25,464.00	-2,86,069.00	19,39,395.00
171	CONTROL OF INSTABILITIES IN JEFFCOTT ROTOR"	5,23,540.00		14,395.00	5,37,935.00	454.00	5,37,481.00
172	DESIGN MODIFICATIONS OF TATA-JK.....MIDDLING COAL USING CFD"	44,007.00		1,89,757.52	2,33,764.52	38,000.00	1,95,764.52
173	"DESIGN AND DEVELOPMENT OF REAL TIME OPTICAL.....FOR FIELD MEASUREMENTS"	1,38,618.00		1,93,321.00	3,31,939.00	1,57,091.00	1,74,848.00
174	"DEVELOPMENT OF AN INDIGENOUS TOOL FOR THE USING DEEP NEURAL NETWORKS"	5,04,247.00		3,59,154.00	8,63,401.00	6,80,710.00	1,82,691.00
175	DEVELOPMENT OF KITCHEN LAYOUT FOR PARAPLEGIC PERSONS"	5,59,550.00		5,32,722.00	10,92,272.00	1,56,859.00	9,35,413.00
176	DESIGN AND DEVELOPMENT OF AN.....CLIMATE CHANGE AND NON STATIONARITY"	1,89,829.00		5,95,838.00	7,85,667.00	7,54,636.00	31,031.00
177	RATIONAL DESIGN AND DEVELOPMENT.....OXYGEN REDUCTION REACTION"	20,62,179.00		8,61,492.00	29,23,671.00	7,14,623.00	22,09,048.00
178	STUDY AND DEVELOPMENT OF HIGHLY.....BASED METAL OXIDE COMPOSITE"	15,55,459.00		31,647.00	15,87,106.00	12,10,370.50	3,76,735.50
179	INTEGRATED HYDRODYNAMIC CAVITATION.....FROM INDUSTRIAL EFFLUENT"	11,84,281.00		29,618.00	12,13,899.00	3,17,191.00	8,96,708.00
180	STATOR FAULT DIAGNOSIS THROUGH WAVELET.....INVERTER FED INDUCTION MOTOR"	4,82,890.00		1,12,581.00	5,95,471.00	1,00,000.00	4,95,471.00
181	SOCIOTYPE MAPPING AS A TOOL FOR POLICY FRAMEWORK IN AN URBAN CULTURAL LANDSCAPE	19,733.00		2,42,692.00	2,62,425.00	2,55,280.00	7,145.00
182	DESIGN AND FABRICATION STRATEGIES.....HYBRID PEROVSKITE SOLAR CELLS"	43,655.00		1,72,552.00	2,16,207.00	2,13,854.00	2,353.00
183	"PROACTIVE MONITORING OF ONLINE.....WOMEN AND CHILDREN"	1,52,552.00		20,09,169.00	21,61,721.00	5,20,472.00	16,41,249.00
184	"TO DEVELOP A SOFTWARE FOR LINEAR.....APPLIED ELEMENT METHOD"	3,90,654.00		8,57,526.00	12,48,180.00	5,27,654.00	7,20,526.00
185	DST MATHEMATICS FIST PROGRAM 2020	14,68,703.00		33,521.00	15,02,224.00	10,98,353.00	4,03,871.00

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भारत  
01, India

186	"TUNING THE PERFORMANCE OF THINFILM.....OSMOSIS IN WATER REMEDIATION"	11,93,731.00	10,818.00	12,04,549.00	39,150.00	11,65,399.00
187	"DEVELOPMENT OFDESALINATION SYSTEM.....SOLA ABSORBER"	3,11,474.00	5,45,244.00	8,56,718.00	3,04,534.00	5,52,184.00
188	"GAN BASED HIGH GAIN DC/DCCONVERTER.....UPS APPLICATION"	27,17,795.00	66,226.00	27,84,021.00	15,65,019.00	12,19,002.00
189	"FLOODFORECASTING USING..... WAVELET-SVM MODELS"	4,25,260.00	1,77,930.00	6,03,190.00	2,16,303.00	3,86,887.00
190	"DEVELOPMENT OF AN ALTERNATIVE FLUIDTO TRANSFORMER MINERAL OIL"	2,54,639.00	2,60,178.00	5,14,817.00	2,16,938.50	2,97,878.50
191	"IMAGE BASED SMARTPARKING.....TRANSPORTATION SYSTEM"	5,46,570.00	2,73,292.00	8,19,862.00	2,10,000.00	6,09,862.00
192	"RISKASSESSMENT OF NANOPARTICLE.....PHYTOTOXICITY USING GENOMICAPPROACHES"	5,99,680.00	9,572.00	6,09,252.00	4,99,015.50	1,10,236.50
193	"ARYAKA NETWORKS INDIA PVT LTD"	5,52,702.00	10,166.00	5,62,868.00	2,85,936.00	2,76,932.00
194	"INVESTIGATION OF SHORELINESTABILITY.....COASTAL PROTECTION MEASURES"	3,19,325.00	4,98,787.00	8,18,112.00	2,79,550.00	5,38,562.00
195	"FABRICATION ANDCHARACTERIZATION.....PHOTO SENSORS"	20,66,737.00	50,627.00	21,17,364.00	5,43,456.50	15,73,907.50
196	"FRAMEWORKFOR FLOOD MAPPING.....NORTHERN REGION OFKERALA"	22,77,647.00	3,20,213.00	25,97,860.00	23,41,600.50	2,56,259.50
197	"HOD DEPARTMENT OFCHEMISTRY DST FIST PROGRAMME"	2,01,27,225.00	5,48,962.00	2,06,76,187.00		2,06,76,187.00
198	,"DEVELOPMENT OF A DIAGNOSTIC TOOL FORCOLD ATMOSPHERIC PLASMA"	17,95,924.00	44,256.00	18,40,180.00	4,60,565.50	13,79,614.50
199	"DEVELOPMENT OFALUMINIUM-CERIUM..... EXPERIMENTALINVESTIGATIONS"	29,14,240.00	1,76,558.00	30,90,798.00	4,05,000.00	26,85,798.00
200	"GRAPHENE-GOLDNANOCLUSTER...EARLY DIAGNOSIS OF CVDS"	9,91,754.00	10,17,106.00	20,08,860.00	10,75,534.00	9,33,326.00
201	"HOD DEPARTMENT OFPHYSICS DST FIST PROGRAMME"	1,40,32,104.00	3,82,720.00	1,44,14,824.00		1,44,14,824.00
202	,"DESIGNAND SYNTHESIS OF.....C-C BOND FORMATIONREACTIONS"	24,35,572.00	65,612.00	25,01,184.00	4,15,978.00	20,85,206.00
203	"DESIGNAND DEVELOPMENT OF A DEEPLARNING.....SPEECH SYSTHESIS"	8,87,932.00	14,825.00	9,02,757.00	6,10,938.00	2,91,819.00
204	"DEVELOPMENT OF 2DHETEROSTRUCTURES.....RESISTANT COATINGS"	6,89,108.00	10,31,593.00	17,20,701.00	5,63,963.00	11,56,738.00

*R. Prasad*  
 निदेशक / DIRECTOR

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*Sahadevi P.S.*  
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*Sharma*  
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 Assistant Registrar (F&A)  
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205	"DEVELOPMENT OF ORGANICOIL.....BRAKE SYSTEM"	2,40,639.00	6,564.00	2,47,203.00		2,47,203.00
206	"HUMAN TOLL-LIKERECEPTOR.....HETEROCYCLIC SCAFFOLDS"	29,31,707.00	73,384.00	30,05,091.00	17,85,021.00	12,20,070.00
207	"ANOVEL REGENERATIVE DRIVE TRAIN....POWERFACTOR CONNECTION CAPABILITY"	11,55,450.00	30,266.00	11,85,716.00	2,71,293.00	9,14,423.00
208	OTHER PROJ.DR.SANDHYARANI SERB POWER		12,90,543.00	12,90,543.00	5,35,389.00	7,55,154.00
209	CSIR RSEARCH PROJ."DESIGN AND DEVELOPMENT OF SOLAR.....IRRIGATION SYSTEM"		5,13,062.00	5,13,062.00	2,46,702.00	2,66,360.00
210	NON-INVASIVE MEASUREMENT.....PULMONARY CONGESTION"		22,78,330.00	22,78,330.00	9,24,874.00	13,53,456.00
211	SOLAR DRIVEN COGENERATION OF .....RURAL COMMUNITIES"		3,80,331.00	3,80,331.00	3,73,584.00	6,747.00
212	ONLINE INTERNATIONAL CONFERENCE "TRANSPORTATION SYSTEMS.....MANAGEMENT (CTSEM)"		2,47,878.00	2,47,878.00	1,57,674.00	90,204.00
213	"DEVELOPMENT OF SPRAY EVALUATION.....SPARY COATING METHOD"		53,06,474.00	53,06,474.00	4,06,849.00	48,99,625.00
214	"SUSTAINABLE LANDSCAPE.....ECOLOGY AND AESTHETICS"		1,51,423.00	1,51,423.00	-	1,51,423.00
215	DESIGN AND DEVELOPMENT .....ENHANCED FOR VIRTUALISATION"		34,30,737.00	34,30,737.00		34,30,737.00
216	INSPIRE FELLOWSHIP MS.DHILSHANA		4,52,965.00	4,52,965.00	4,42,619.00	10,346.00
217	EXPERIMENTAL INVESTIGATIONS.....TURBINE BLADES AND VANES"		11,09,949.00	11,09,949.00	34,826.00	10,75,123.00
218	"COMPUTER AIDED DIGNOSIS.....TUMOR CLASSIFICATION"		13,20,216.00	13,20,216.00		13,20,216.00
219	DEVELOPMENT OF .....WARM HUMID CLIMATE"		20,94,622.00	20,94,622.00	2,50,089.00	18,44,533.00
220	INTEGRATED ELECTRO OXIDATION.....CARBON BASED POLLUTANTS"		14,30,586.00	14,30,586.00	1,14,000.00	13,16,586.00
221	INSPIRE FELLOWSHIP MR.MUNUGALA CHANDRAKANTH		2,12,791.00	2,12,791.00	1,87,528.00	25,263.00
222	FIST PROGRAMME UNDER DEPARTMENT OF CHEMICAL ENGINEERING		60,40,839.00	60,40,839.00	-	60,40,839.00
223	SERB-CHEMICAL SYNTHESSES OF FILLED LOW DIMENSIONAL COSB3		17,72,573.00	17,72,573.00	-	17,72,573.00

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NIT CALICUT

निदेशक / DIRECTOR  
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224	INSPIRE FACULTY AWARD UNDER THE INSPIRE PROGRAM DR.DEEPTHI PP			22,09,281.00	22,09,281.00	6,91,667.00	15,17,614.00
225	"STABILIZATION OF COMPOUNDS.....GROUP ELEMENTS"			24,65,533.00	24,65,533.00	-	24,65,533.00
226	"SUPRAMOLECULAR RIGID AROMATIC.....ASYMMETRIC ANALYSIS"			23,07,859.00	23,07,859.00	-	23,07,859.00
227	DST INSPIRE FACULTY PROGRAM			27,94,908.00	27,94,908.00	13,08,334.00	14,86,574.00
228	SERB AGGLOMERATION ABATEMENT IN FLUIDISED BED			17,45,449.00	17,45,449.00	-	17,45,449.00
229	PROTOTYPE FOR DRONE BASED INTELLIGENT COCONUT HARVESTER			9,92,007.00	9,92,007.00	-	9,92,007.00
230	CONDITION ASSESSMENT OF POLYMERIC CABLE INSULATION			13,55,773.00	13,55,773.00	-	13,55,773.00
231	ACOUSTIC EMISSIONS FROM A PREMIXED FLAME PROPAGATING IN A TUBULAR COMBUSTER			20,29,747.00	20,29,747.00	-	20,29,747.00
232	AS A NOVEL DIRECT DRUG TARGET FOR PREVENTING BARRIER			18,09,490.00	18,09,490.00	1,34,500.00	16,74,990.00
233	INVESTIGATION OF CROSS TALK OF GENE REGULATION OF L- SORBOSE AND GALACTOSE			11,79,624.00	11,79,624.00	1,48,196.00	10,31,428.00
234	DEVELOPMENT OF AN ADAPTIVE DISTANCE RELAYING SYSTEM			21,70,266.00	21,70,266.00	-	21,70,266.00
235	INVESTIGATION OF SOLAR ERUPTIONS			6,05,197.00	6,05,197.00	-	6,05,197.00
236	DEVELOPMENT OF A MODEL FOR GENERATION OF HIGH RESOLUTION			5,80,014.00	5,80,014.00	-	5,80,014.00
237	SERB TARE TO DR.BEENA A O			3,35,000.00	3,35,000.00	25,000.00	3,10,000.00
238	SOLVING A TRAJECTORY PLANNING PROBLEM			2,20,000.00	2,20,000.00	-	2,20,000.00
239	V SERB TARE TO DR.MRINAL K R			3,35,000.00	3,35,000.00	-	3,35,000.00
240	S EXPLORING THE EFFECT OF SINGLE AND BIMETALLIC- DOPED GRAPHENE OXIDE			33,25,000.00	33,25,000.00	-	33,25,000.00
241	MODERNIZATION OF POLLUTION CONTROL SYSTEM OF STEEL INDUSTRIES			4,80,000.00	4,80,000.00	-	4,80,000.00
242	MACHINABILITY STUDIES AND DEVELOPMENT OF A STABLE MANUFACTURING			1,59,000.00	1,59,000.00	-	1,59,000.00

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Sathidevi P.S.  
DEPUTY DIRECTOR  
NIT CALICUT

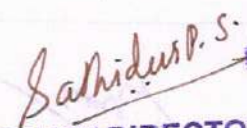
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243	DST SERB RAMANUJAN FELLOWSHIP			23,80,000.00	23,80,000.00	-	23,80,000.00	
244	COMPUTATIONAL MODELLING OF TRANSITION METAL OXIDES			29,65,000.00	29,65,000.00	-	29,65,000.00	
245	PERFORMANCE ENHANCEMENT OF TERNARY ORGANIC SOLAR CELLS			8,60,000.00	8,60,000.00	-	8,60,000.00	
Total		15,43,23,821.50	44,31,430.00	8,46,42,594.98	23,45,34,986.48	6,42,79,415.20	17,56,47,320.03	53,91,748.75

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


(Amount in Rupees)

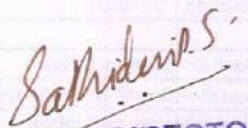
1.Sr. No	2. Name of Sponsor	Opening Balance		Transactions during the year		Closing Balance	
		3. Credit	4. Debit	5. Credit	6. Debit	7. Credit	8. Debit
1	University Grants Commission	83,87,310.00	-	0.00	0.00	83,87,310.00	-
	<b>Ministry (Central Govt.)</b>	0.00	0.00				
2	Director of College Education		4,000.00	-	-		4,000.00
3	Cultural Scholarship	12,39,519.00		6,13,548.00	2,60,769.00	15,92,298.00	
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	79,035.00		12,650.00	-	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		5,07,020.00	5,07,020.00	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	7,92,336.44		98,38,659.54	99,24,961.54	7,06,034.44	
14	Inspire Fellowship		57,962.00	-	-		57,962.00
15	AIEE-CCB		-	-	-		-
16	Visweswarayya Scheme	1,41,687.00		1,33,639.00	2,69,716.00	5,610.00	
17	Inspire Fellowship - Dr. Subrahmanian Nampoothiri	41,83,003.00		72,506.00	4,80,225.00	37,75,284.00	
18	Inspire Fellowship - Dr. Mini Mol	6,74,694.00		16,202.00	5,09,985.00	1,80,911.00	
19	Post Doctoral Fellowship - Dr. Robin	2,28,873.00	-	0.00	-	2,28,873.00	-
20	OBC Scholarship		-	-	-		-
21	Inspire Faculty Award-Dr. Lakshmi V Nair	18,55,026.00		25,81,873.00	19,49,464.50	24,87,434.50	
22	Young Faculty research Fellowship- Dr.Kumaravel	3,61,659.00		7,397.00	2,55,359.00	1,13,697.00	
23	National post doctral fellowship- Dr.Muhsin	3,14,548.00		3,93,747.00	6,61,400.00	46,895.00	
24	Inspire Faculty Award-Dr. Tharaknath Kobaku	18,198.00		497.00	-	18,695.00	
25	Inspire Fellowship-Anagha Yadeendran	2,77,011.00		2,999.00	2,62,450.00	17,560.00	
26	Post Doctoral Fellowship - Dr Baby Viswambaran	(556.00)		8.00	-	(648.00)	
27	Inspire Faculty Award-Dr.Sreelakshmi	2,76,700.00		7,102.00	55,272.00	2,28,530.00	
	<b>Kerala Government</b>	0.00	-				
21	KSCSTE Fellowship	4,62,069.00		3,10,400.00	2,66,628.00	5,05,841.00	

22	E- Grants (For Backward Castes)	88,59,063.50		2,99,04,109.00	3,30,54,329.00	57,18,843.50	
23	Minorities Scholarship		41,595.00	-	-		41,595.00
	<b>Other State Governments</b>	0.00	0.00			-	-
24	Andhra Pradesh		34,692.00	-	-		34,692.00
25	Bihar	2,84,666.00		2,49,418.00	80,700.00	4,53,384.00	
26	Karnataka	1,080.00	-	-	-	1,080.00	-
27	Lakshadweep	-	-	-	-	-	-
28	Madhya Pradesh	55,375.00	-	-	-	55,375.00	-
29	Maharashtra		4,675.00	-	-		4,675.00
30	Tamil Nadu	1,000.00	-	-	-	1,000.00	-
31	Chattisgarh	92,040.00		0.00	-	92,040.00	
	<b>Others</b>	0.00	0.00			-	-
32	E- Remittance (other States)	34,17,785.00		21,63,909.00	20,73,405.00	35,08,289.00	
33	Vishakhapatnam Steel Plant Scholarship	-	-	-	-	-	-
34	NIT - Kharakpur - GIAN		3,39,344.25	46,233.00	0.00		2,93,111.25
35	QIP - Poly Grant	72,23,735.00		0.00	-	72,23,735.00	
	<b>Total</b>	<b>4,59,69,766.94</b>	<b>9,32,942.25</b>	<b>4,68,61,916.54</b>	<b>5,06,11,684.04</b>	<b>4,21,73,766.44</b>	<b>8,86,709.25</b>

  
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 NIT CALICUT

  
 निदेशक / DIRECTOR  
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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	49,16,74,195.00	51,16,41,252.00
Add: Receipts during the year	7,44,00,000.00	5,00,00,000.00
<b>Total (a)</b>	<b>56,60,74,195.00</b>	<b>56,16,41,252.00</b>
Less: Refunds	-	-
Less: Utilized for Revenue Expenditure	-	-
Less: Utilized for Capital Expenditure	8,62,57,766.00	6,99,67,057.00
<b>Total (b)</b>	<b>8,62,57,766.00</b>	<b>6,99,67,057.00</b>
(Deficit)/Unitilized carried forward (a-b)	47,98,16,429.00	49,16,74,195.00
<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>
Unitilized carried forward (c-d)	-	-

<b>C. Non Plan: Government of India</b>		
Balance B/F	-	(90,60,91,574.98)
Add: Receipts during the year	1,50,56,29,297.00	1,36,36,59,216.00
Add: Adjustment of Grant receivable from GOI	-	-
<b>Total (e)</b>	<b>1,50,56,29,297.00</b>	<b>45,75,67,641.02</b>
Less: Refunds	-	-
Less: Utilized for Revenue Expenditure	1,44,85,85,330.00	1,48,79,43,715.75
Less: Utilized for Capital Expenditure	-	-
Less: Lapsed amount	5,70,43,967.00	-

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 UNIVERSITY GRANTS COMMISSION

<b>Total (f)</b>	1,50,56,29,297.00	1,48,79,43,715.75
(Deficit)/Unutilized carried forward (e-f)	-	(1,03,03,76,074.73)
<b>D. Non Plan: UGC grants</b>		
Balance B/F	-	-
Add: Receipts during the year	-	-
<b>Total (g)</b>	-	-
Less: Refunds	-	-
Less: Utilized for Revenue Expenditure	-	-
Less: Utilized for Capital Expenditure	-	-
<b>Total (h)</b>	-	-
Unutilized carried forward (g-h)	-	-
<b>Grand Total (A+B+C+D)</b>	<b>47,98,16,429.00</b>	<b>(53,87,01,879.73)</b>



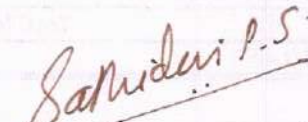
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Assistant Registrar (F&A)  
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National Institute of Technology Calicut  
कालिकट / Calicut - 673601



**DEPUTY REGISTRAR (Finance)**  
National Institute of Technology  
Calicut 673601



कुल सचिव / REGISTRAR  
राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
National Institute of Technology Calicut  
कालिकट / Calicut



**DEPUTY DIRECTOR**  
NIT CALICUT



**DIRECTOR**  
राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
National Institute of Technology Calicut  
एन.ई.टी. कॉम्पस (पी.ओ.) कालिकट, केरल - 673601, भारत  
NIT Campus (P.O), Calicut, Kerala - 673 601, India

**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	60,09,96,863.00	65,18,715.00	8,80,00,000.00	51,95,15,578.00	60,09,96,863.00
<b>Total</b>	<b>60,09,96,863.00</b>	<b>65,18,715.00</b>	<b>8,80,00,000.00</b>	<b>51,95,15,578.00</b>	<b>60,09,96,863.00</b>

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SCHEDULE 4 – FIXED ASSETS

(Amount in Rupees)

S. No	DESCRIPTION	GROSS BLOCK				DEPRECIATION					NET BLOCK	
		TANGIBLE ASSETS	Opening Balance 01/04/2021	Additions during the year	Deductions/ Reclassification during the year	Closing Balance	Dep. rates	Depreciation Opening Balance	Depreciation for the year	Deductions/Adjustment	Total Depreciation	31-03-2022
1	Land:											
	a) Freehold	7,69,000.00	-	-	7,69,000.00	Nil	-	-	-	-	7,69,000.00	7,69,000.00
	b) Leasehold	-	-	-	-	-	-	-	-	-	-	-
2	Buildings:											
	a) On Freehold Land											
	i. Residential	1,60,38,95,657.00	-	-	1,60,38,95,657.00	2%	58,02,35,388.70	2,13,26,255.59	-	60,15,61,644.29	1,00,23,34,012.71	1,02,36,60,268.30
	ii. Non Residential	93,28,84,226.00	1,29,55,57,934.00	-	2,22,84,42,160.00	2%	61,74,26,432.29	3,24,82,598.87	-	64,99,09,031.16	1,57,85,33,128.84	31,54,57,793.71
	b) On Leasehold Land	-	-	-	-	-	-	-	0.00	-	-	-
	c) Ownership Flats/ Premises	-	-	-	-	-	-	-	0.00	-	-	-
	d) Superstructures on Land not belonging to educational institutions	-	-	-	-	-	-	-	0.00	-	-	-
3	Tube wells & water supply	-	-	-	-	-	-	-	0.00	-	-	-
4	Sewerage & Drainage	-	-	-	-	-	-	-	0.00	-	-	-
5	Furniture & fixtures	13,43,21,039.00	35,38,851.00	-	13,78,59,890.00	7.5%	7,10,73,842.01	57,94,996.78	-	7,68,68,838.80	6,09,91,051.20	6,32,47,196.99
6	Electrical Installations	4,24,75,958.00	19,47,861.00	-	4,44,23,819.00	5%	3,03,00,412.22	17,16,588.77	-	3,20,17,001.00	1,24,06,818.00	1,21,75,545.78
7	Plants, machinery & equipment	92,38,69,228.00	13,84,94,414.00	-	1,06,23,63,642.00	7.5%	57,57,09,447.52	3,17,95,946.37	-	60,75,05,393.89	45,48,58,248.11	34,81,59,780.48
8	FRG-IRG equipment	8,20,620.00	2,57,833.00	-	10,78,453.00	5%	41,031.00	53,922.65	-	94,953.65	9,83,499.35	7,79,589.00
9	Office Equipment	48,18,731.00	-	-	48,18,731.00	7.5%	45,02,698.82	27,468.28	-	45,30,167.10	2,88,563.90	3,16,032.18
10	Computer & Peripherals	19,61,55,677.00	1,06,87,813.00	-	20,68,43,490.00	20%	16,97,70,505.13	97,14,711.16	-	17,94,85,216.29	2,73,58,273.71	2,63,85,171.87
11	Vehicles	69,98,909.00	-	-	69,98,909.00	10%	56,53,359.92	1,68,193.64	-	58,21,553.56	11,77,355.45	13,45,549.08
12	Library books	5,55,39,361.00	4,20,871.00	-	5,59,60,232.00	10%	4,90,07,208.04	8,25,824.33	-	4,98,33,032.38	61,27,199.62	65,32,152.96
Total (A)		3,90,25,48,406.00	1,45,09,05,577.00	0.00	5,35,34,53,983.00		2,10,37,20,325.66	10,39,06,506.43	-	2,20,76,26,832.09	3,14,58,27,149.79	1,79,88,28,079.31
13	Capital Work-in-progress (B)	2,34,41,93,530.00	1,52,75,824.00	1,38,16,73,115.00	97,77,96,239.00		-	-	-	-	97,77,96,239.00	2,34,41,93,530.00
S. No	INTANGIBLE ASSETS	Opening Balance	Additions during the year	Deductions during the year	Closing Balance	Total Depreciation	Depreciation/ Amortizations for the year	Deductions/Adjustment	Total Depreciation	31/03/2022	31/03/2021	
14	Computer Software	3,26,92,237.00	24,93,116.00	-	3,51,85,353.00	40%	2,60,52,178.34	57,80,180.66	-	3,18,32,359.00	33,52,994.00	66,40,058.66
15	E-journals	-	4,97,76,168.20	-	4,97,76,168.20	-	1,99,10,467.28	-	1,99,10,467.28	2,98,65,700.92	-	
16	Patents and Copyrights	-	-	-	-	-	-	-	0.00	-	-	
Total (C)		3,26,92,237.00	5,22,69,284.20	-	8,49,61,521.20	2,60,52,178.34	2,56,90,647.94	-	5,17,42,826.28	3,32,18,694.92	66,40,058.66	
Grand Total (A+B+C)		6,27,94,34,173.00	1,51,84,50,685.20	1,38,16,73,115.00	6,41,62,11,743.20	2,12,97,72,504.00	12,95,97,154.38	-	2,25,93,69,658.37	4,15,68,42,083.71	4,14,96,61,667.97	

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Director  
निदेशक / DIRECTOR

राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट

National Institute of Technology Calicut

एन.ई.टी. कॉम्पस (पी.ओ.) कालिकट - 673601 भारत

NIT Campus (P.O.) Calicut - 673 601, India

कालिकट / Calicut - 673601

**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	85,99,74,638.00	83,89,67,083.00
7. Others	-	-
<b>Total (A)</b>	<b>85,99,74,638.00</b>	<b>83,89,67,083.00</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>-</b>
<b>Grand Total (A+B)</b>	<b>85,99,74,638.00</b>	<b>83,89,67,083.00</b>



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NIT CALICUT




निदेशक / DIRECTOR  
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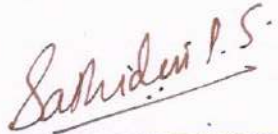
**SCHEDULE 6 - INVESTMENTS OTHERS**

(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>	-	-

  
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**NIT CALICUT**

  
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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>6,83,267.00</b>	<b>7,94,449.50</b>
(i) Cash in hand	0.00	2,02,112.50
(ii) Imprest	6,83,267.00	5,92,337.00
<b>4. Cash in Bank</b>		
a) With Scheduled Banks:		
In Current Accounts	-1,37,36,044.66	4,63,88,638.04
In Term deposit Accounts	1,13,55,05,210.96	1,05,19,97,664.96
In Savings Accounts	2,62,53,84,479.60	2,22,46,83,377.22
In EEFC Accounts (USD)	24,88,801.70	7,37,73,359.52
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>3,75,61,32,404.60</b>	<b>3,40,34,44,179.24</b>

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**SCHEDULE 8 – LOANS, ADVANCES & DEPOSITS**


(Amount in Rupees)

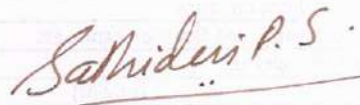
Particulars	Current Year	Previous Year
<b>1. Advances to employees: (Interest bearing)</b>		
a) Salary		
b) Festival	(1,61,485.00)	(1,13,185.00)
c) LTC	6,91,620.00	11,73,247.00
e) Special EL&LTC	13,72,674.00	50,66,587.00
e) Medical Advance	2,86,400.00	-
f) Travelling advance	12,18,547.67	12,58,147.67
g) Computer advance	(1,89,489.00)	(1,60,689.00)
h) Marriage advance	(66,184.00)	(66,184.00)
i) Other (Plan & Dept. advances)	82,50,869.30	83,21,078.30
<b>2. Long Term Advances to employees: (Interest bearing)</b>		
a) Vehicle loan	1,24,457.00	1,68,244.00
b) Home loan	(35,62,034.00)	(35,17,805.00)
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	50,52,00,468.00
b) To suppliers	(4,12,375.00)	(4,08,127.00)
c) Deficit Balance of Grants (Excess of expenditure)	-	-
d) TDS deducted on bank interest	2,47,61,495.00	3,32,13,417.00
e) Rent Receivable	54,08,084.00	24,08,084.00
f) Tuition Fee Receivable	-	-
<b>4. Prepaid Expenses</b>		
a) Insurance	4,76,242.00	6,74,806.00
b) Other expenses	-	-
<b>5. Deposits</b>		
a) Telephone	-	-
b) Lease Rent	-	-
c) Electricity	56,93,967.00	57,00,517.00
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	6,67,67,076.00	1,54,642.00
b) On Investments- Term Deposits	17,26,94,824.92	14,30,99,146.92
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	44,31,430.00
b) Debit balances in Sponsored Fellowships & Scholarships	8,86,709.25	9,32,942.25
c) Grants Receivable	-	-
d) Other receivables from UGC	-	-
<b>8. Claims Receivable</b>	-	-
<b>Total</b>	<b>89,38,40,577.89</b>	<b>70,78,43,729.14</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	38,69,96,760.92	35,95,92,904.55
2. Admission fee	6,45,000.00	5,79,300.00
3. Enrolment Fee	-	-
4. Library Admission fee	32,36,153.55	29,02,323.00
5. Laboratory fee	-	-
6. Art & Craft fee	-	-
7. Registration fee	29,73,500.00	32,07,200.00
8. Syllabus fee	-	-
<b>Total (A)</b>	<b>39,38,51,414.47</b>	<b>36,62,81,727.55</b>
<b>Examinations</b>		
1. Admission test fee	-	-
2. Annual Examination fee	77,25,025.00	62,77,095.00
3. Mark sheet, certificate fee	3,71,150.00	1,40,307.00
4. Entrance examination fee	-	-
<b>Total (B)</b>	<b>80,96,175.00</b>	<b>64,17,402.00</b>
<b>Other fees</b>		
1. Identity card fee	11,100.00	1,850.00
2. Fine/Miscellaneous fee	34,06,493.00	14,90,592.00
3. Medical fee	-	-
4. Transportation fee	-	-
5. Convocation fee	-	-
6. Academic IRG	3,25,13,144.50	1,59,672.00
<b>Total (C)</b>	<b>3,59,30,737.50</b>	<b>16,52,114.00</b>
<b>Sale of publications</b>		
1. Sale of Admission forms	0.00	-28,500.00
2. Sale of syllabus and Question Paper, etc.	-	-
3. Sale of prospectus	-	-
<b>Total (D)</b>	<b>0.00</b>	<b>-28,500.00</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>43,78,78,326.97</b>	<b>37,43,22,743.55</b>

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SCHEDULE 10 – GRANTS/DONATIONS/SUBSIDIES

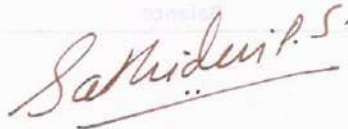
(Amount in Rupees)

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	49,16,74,195.00	-	-	49,16,74,195.00	-	49,16,74,195.00	(39,44,50,322.98)
Add: Receipts during the year	7,44,00,000.00	-	-	7,44,00,000.00	1,50,56,29,297.00	1,58,00,29,297.00	1,41,36,59,216.00
Add: Adjustment of Grant receivable from GOI							
<b>Total</b>	<b>56,60,74,195.00</b>			<b>56,60,74,195.00</b>	<b>1,50,56,29,297.00</b>	<b>2,07,17,03,492.00</b>	<b>1,01,92,08,893.02</b>
Less: Refund	-	-	-	-	-	-	-
<b>Balance</b>	<b>56,60,74,195.00</b>	-	-	<b>56,60,74,195.00</b>	<b>1,50,56,29,297.00</b>	<b>2,07,17,03,492.00</b>	<b>1,01,92,08,893.02</b>
Less: Utilised for Capital Expenditure	8,62,57,766.00	-	-	8,62,57,766.00	-	8,62,57,766.00	6,99,67,057.00
<b>Balance</b>	<b>47,98,16,429.00</b>			<b>47,98,16,429.00</b>	<b>1,50,56,29,297.00</b>	<b>1,98,54,45,726.00</b>	<b>94,92,41,836.02</b>
Less: Utilised for Revenue Expenditure	-	-	-	-	1,44,85,85,330.00	1,44,85,85,330.00	1,48,79,43,715.75
Less: Lapsed amount	-	-	-	-	5,70,43,967.00	-	-
<b>Balance C/F</b>	<b>47,98,16,429.00</b>	-	-	<b>47,98,16,429.00</b>	-	<b>47,98,16,429.00</b>	<b>(53,87,01,879.73)</b>

  
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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	3,10,02,845.00	5,09,58,381.00	7,34,28,759.00	-1,92,40,153.00
3) Income accrued but not due on Term Deposits/ Interest bearing advances to employees	6,67,67,076.00	1,54,642.00	-	-
4) Interest on Savings Banks Accounts	1,14,47,986.00	1,19,269.00	-	-
5) GPF& CPF	2,13,74,184.00	2,29,65,790.00	-	-
<b>Total</b>	<b>13,05,92,091.00</b>	<b>7,41,98,082.00</b>	<b>7,34,28,759.00</b>	<b>-1,92,40,153.00</b>
<b>Transferred to Earmarked/Endowment Funds</b>	<b>13,05,92,091.00</b>	<b>7,41,98,082.00</b>	-	-
<b>Balance</b>	-	-	<b>7,34,28,759.00</b>	<b>(1,92,40,153.00)</b>

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**SCHEDULE 12 – INTEREST EARNED**

(Amount in Rupees)

Particulars	Current Year	Previous Year
1. On Savings account with scheduled Banks	3,33,28,091.00	1,90,24,847.00
2. On Loans	1,87,800.00	
a. Employees/Staff	-	-
b. Others	-	-
3. On Debtors and other receivables	-	-
<b>Total</b>	<b>3,35,15,891.00</b>	<b>1,90,24,847.00</b>

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Sathidevi P. S.  
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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	0.00	9,94,700.00
2. License fee	58,59,562.00	37,44,048.00
3. Hire Charges of Auditorium/Play ground/Convention Centre, etc	-	-
4. Electricity charges recovered	51,18,125.00	55,58,603.00
5. Water charges recovered	1,01,380.00	1,21,044.00
6. Others	5,04,502.00	3,91,886.00
<b>Total</b>	<b>1,15,83,569.00</b>	<b>1,08,10,281.00</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	33,30,043.50	26,70,643.00
2. RTI fees	335.00	458.00
3. Income from Royalty	-	-
4. Sale of application form (recruitment)	-	-
5. Misc. receipts (Sale of tender form, waste paper, etc.)	62,90,123.00	27,85,282.00
6. Profit on Sale/disposal of Assets:		
a) Owned assets	-	-
b) Assets acquired out of grants, or received free of cost	-	-
7. Grants/Donations from Institutions, Welfare Bodies and International Organizations	-	-
8. Others	19,43,343.00	7,12,001.00
<b>Total</b>	<b>1,15,63,844.50</b>	<b>61,68,384.00</b>
<b>GRAND TOTAL (A+B+C+D)</b>	<b>2,31,47,413.50</b>	<b>1,69,78,665.00</b>

  
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 Assistant Registrar (F&A)  
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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	16,44,31,638.96	3,50,004
<b>Total</b>	<b>16,44,31,638.96</b>	<b>3,50,004.00</b>

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*Sahadevi P.S.*  
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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	-	80,38,06,468.00	80,38,06,468.00	-	71,87,34,951.00	71,87,34,951.00
b) Allowances and Bonus	-	94,50,919.00	94,50,919.00	-	57,94,770.00	57,94,770.00
c) Contribution to Provident Fund (CPF)	-	-	0.00	-	-	-
d) Contribution to Other Fund (Leave Salary & Pension contribution)	-	0.00	0.00	-	25,81,295.00	25,81,295.00
e) Contribution to New Pension Scheme	-	4,55,12,330.00	4,55,12,330.00	-	4,14,39,532.00	4,14,39,532.00
f) Staff Welfare Expenses	-	-	0.00	-	-	-
g) Retirement and Terminal Benefits	-	32,54,23,727.00	32,54,23,727.00	-	26,37,31,181.00	26,37,31,181.00
h) LTC facility	-	1,28,89,826.00	1,28,89,826.00	-	14,62,725.00	14,62,725.00
i) Medical facility	-	17,70,660.00	17,70,660.00	-	17,27,097.00	17,27,097.00
j) Children Education Allowance	-	80,78,378.00	80,78,378.00	-	66,48,735.00	66,48,735.00
k) Honorarium	-	17,45,820.00	17,45,820.00	-	16,56,705.00	16,56,705.00
l) Travelling Allowances	-	49,01,704.00	49,01,704.00	-	1,84,539.00	1,84,539.00
m) Others (Stipend to Trainees)	-	-	-	-	-	0.00
n) Provision for gratuity and leave encashment	-	6,02,74,315.00	6,02,74,315.00	-	4,14,09,482.00	4,14,09,482.00
<b>Total</b>	<b>-</b>	<b>1,27,38,54,147.00</b>	<b>1,27,38,54,147.00</b>	<b>-</b>	<b>1,08,53,71,012.00</b>	<b>1,08,53,71,012.00</b>

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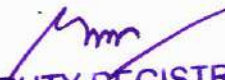
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**SCHEDULE 15A – EMPLOYEES RETIREMENT AND TERMINAL BENEFITS**

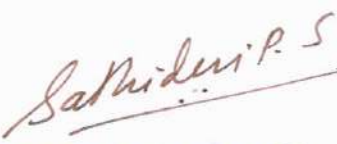
(Amount in Rupees)

Particulars	Pension	Gratuity	Leave Encashment	Total
Opening Balance as on	-	26,36,37,029.00	27,86,62,118.00	54,22,99,147.00
Addition: Capitalised value of Contributions received from other Organisations	-	-	-	-
<b>Total (a)</b>	-	<b>26,36,37,029.00</b>	<b>27,86,62,118.00</b>	<b>54,22,99,147.00</b>
Less: Actual payment during the year (b)	-	-	-	-
Balance available on 31/03/2022 (C)	-	26,36,37,029.00	27,86,62,118.00	54,22,99,147.00
Provision required as on 31/03/2022 as per Actuarial Valuation (d)	-	27,20,04,846.00	33,05,68,616.00	60,25,73,462.00
A. Provision to be made in current year (d-c)	-	83,67,817.00	5,19,06,498.00	6,02,74,315.00
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>83,67,817.00</b>	<b>5,19,06,498.00</b>	<b>6,02,74,315.00</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	-	-	-4,000.00	-4,000.00
c) Expenses on Seminars/Workshops	-	-	-	-	-	-
d) Payment to visiting faculty	-	-	-	-	-	-
e) Examination	-	-	-	-	-	-
f) Student Welfare expenses	-	-	-	-	-	-
g) Admission expenses	-	-	-	-	-	-
h) Convocation expenses	-	5,87,697.00	5,87,697.00	-	79,183.00	79,183.00
i) Publications	-	-	-	-	-	-
j) Stipend/means-cum-merit scholarship	-	28,70,56,755.00	28,70,56,755.00	-	24,11,06,125.00	24,11,06,125.00
k) Books, periodicals, journals and e-journals	-	24,04,841.44	24,04,841.44	-	2,70,40,286.00	2,70,40,286.00
l) Others (FDP,R&D,Medals & prizes)	-	1,31,39,286.00	1,31,39,286.00	-	1,75,85,145.00	1,75,85,145.00
<b>Total</b>	<b>-</b>	<b>30,31,88,579.44</b>	<b>30,31,88,579.44</b>	<b>-</b>	<b>28,58,06,739.00</b>	<b>28,58,06,739.00</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	-	3,07,33,312.00	3,07,33,312.00	-	2,01,95,230.00	2,01,95,230.00
b) Water charges	-	-	-	-	-	-
c) Insurance	-	-	-	-	-	-
d) Rent, Rates and Taxes (including property tax)	-	1,87,782.00	1,87,782.00	-	43,33,954.00	43,33,954.00
<b>B) Communication</b>						
e) Postage & telegram	-	2,99,429.00	2,99,429.00	-	6,51,669.00	6,51,669.00
f) Telephone, Fax and Internet Charges	-	4,36,760.00	4,36,760.00	-	3,16,597.00	3,16,597.00
<b>C) Others</b>						
g) Printing and Stationary	-	15,42,213.00	15,42,213.00	-	18,46,815.00	18,46,815.00
h) Traveling and Conveyance Expenses	-	-	-	-	-	-
i) Hospitality	-	2,89,408.00	2,89,408.00	-	7,71,396.00	7,71,396.00
j) Auditors Remuneration	-	1,92,410.00	1,92,410.00	-	1,38,210.00	1,38,210.00
k) Professional Charges	-	-	-	-	-	-
l) Advertisement and Publicity	-	27,64,787.00	27,64,787.00	-	17,08,908.00	17,08,908.00
m) Magazines & Journals	-	-	-	-	-	-
n) Legal charges	-	6,05,726.00	6,05,726.00	-	6,18,025.00	6,18,025.00
o) Hospital contingencies	-	28,11,376.00	28,11,376.00	-	26,62,817.00	26,62,817.00
p) Department Operating Charges (DOC)	-	1,11,88,967.00	1,11,88,967.00	-	1,47,31,663.75	1,47,31,663.75
q) Others (OE&Misc.,T&P,Hindi translation)	-	40,74,689.00	40,74,689.00	-	20,50,164.00	20,50,164.00
<b>Total</b>	<b>-</b>	<b>5,51,26,859.00</b>	<b>5,51,26,859.00</b>	<b>-</b>	<b>5,00,25,448.75</b>	<b>5,00,25,448.75</b>

  
 सहायक कुलसचिव, (खाता और वित्त)  
 Assistant Registrar (F&A)  
 राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
 National Institute of Technology Calicut  
 कालिकट / Calicut - 673601

  
**DEPUTY REGISTRAR(Finance)**  
**National Institute of Technology**  
 Calicut 673501

  
 कुल सचिव / REGISTRAR  
 राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
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**DEPUTY DIRECTOR**  
**NIT CALICUT**

  
 निदेशक / DIRECTOR  
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 NIT Campus (F.O.) Calicut Kerala - 673 601, India

**SCHEDULE 18 – TRANSPORTATION EXPENSES**

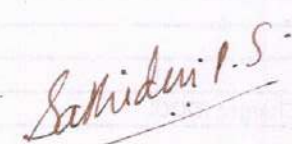
(Amount in Rupees)

Particulars	Current Year			Previous Year		
	Plan	Non plan	Total	Plan	Non plan	Total
1. Vehicles (owned by educational institution)						
a) Running expenses	-	11,37,031.00	11,37,031.00	-	9,24,958.00	9,24,958.00
b) Repairs & maintenance	-	-	-	-	-	-
c) Insurance expenses	-	2,01,221.00	2,01,221.00	-	2,07,463.00	2,07,463.00
2. Vehicles taken on rent/lease						
a) Rent/lease expenses	-	-	-	-	-	-
3. Vehicle (Taxi) hiring expenses	-	-	-	-	-	-
<b>Total</b>	-	<b>13,38,252.00</b>	<b>13,38,252.00</b>	-	<b>11,32,421.00</b>	<b>11,32,421.00</b>

  
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**SCHEDULE 19 – REPAIRS & MAINTENANCE**

(Amount in Rupees)

Particulars	Current Year			Previous Year		
	Plan	Non plan	Total	Plan	Non plan	Total
a) Building	-	-	-	-	-	-
1. Institute building	-	1,05,88,823.00	1,05,88,823.00	-	81,34,654.00	81,34,654.00
2. Guest house	-	1,92,194.00	1,92,194.00	-	1,31,203.00	1,31,203.00
3. Hostels	-	-15,000.00	-15,000.00	-	286.00	286.00
4. Pump & filter house	-	3,34,365.00	3,34,365.00	-	7,10,089.00	7,10,089.00
5. Quarters	-	14,11,172.00	14,11,172.00	-	1,68,713.00	1,68,713.00
b) Furniture & Fixture	-	-	-	-	-	-
c) Plant & Machinery (Major)	-	14,76,962.00	14,76,962.00	-	11,00,019.00	11,00,019.00
d) Office Equipments	-	-	-	-	19,854.00	19,854.00
e) Computers	-	1,51,126.00	1,51,126.00	-	-45,527.00	-45,527.00
f) Laboratory & Scientific equipments (Minor)	-	0.00	0.00	-	40,906.00	40,906.00
g) Cleaning Material & Services	-	-	-	-	-	-
h) Book binding charges	-	-	-	-	-	-
i) Gardening	-	-	-	-	-	-
f) Others	-	-	-	-	-	-
1. Campus	-	5,64,43,582.00	5,64,43,582.00	-	5,67,73,660.00	5,67,73,660.00
2. Water supply	-	8,70,991.00	8,70,991.00	-	1,00,369.00	1,00,369.00
3. Electrical installations	-	17,96,092.00	17,96,092.00	-	2,87,242.00	2,87,242.00
4. Play fields	-	-	-	-	0.00	0.00
5. Campus Road	-	0.00	0.00	-	1,657.00	1,657.00
7. Staff Club	-	-	-	-	18,988.00	18,988.00
<b>Total</b>	-	<b>7,32,50,307.00</b>	<b>7,32,50,307.00</b>	-	<b>6,74,42,113.00</b>	<b>6,74,42,113.00</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	-	1,16,928.25	1,16,928.25	-	1,37,247.00	1,37,247.00
b) Others (HEFA Interest)	-	42460297.00	42460297.00	-	3,94,38,217.00	3,94,38,217.00
<b>Total</b>	-	<b>4,25,77,225.25</b>	<b>4,25,77,225.25</b>	-	<b>3,95,75,464.00</b>	<b>3,95,75,464.00</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	-	5,70,43,967.56	5,70,43,967.56	-	-	-
c) Grants/Subsidies to other institutions/organizations	-	-	-	-	-	-
d) Others-Actuarial Valuation cost components	-	-	-	-	-	-
i) Interest Costs	-	-	-	-	-	-
ii) Current Service Costs	-	-	-	-	-	-
iii) Net Actuarial Gain	-	-	-	-	-	-
<b>Total</b>	-	<b>5,70,43,967.56</b>	<b>5,70,43,967.56</b>	-	<b>0.00</b>	<b>0.00</b>

  
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**SCHEDULE 22 – PRIOR PERIOD EXPENSES**

(Amount in Rupees)

Particulars	Current Year			Previous Year		
	Plan	Non plan	Total	Plan	Non plan	Total
1. Establishment expenses	-	-	-	-	-	-
2. Academic expenses	-	-	-	-	-	-
3. Administrative expenses	-	-	-	-	-	-
4. Transportation expenses	-	-	-	-	-	-
5. Repairs and Maintenance	-	-	-	-	-	-
6. Others	-	1,07,39,722.11	1,07,39,722.11	-	-	-
<b>Total</b>	-	<b>1,07,39,722.11</b>	<b>1,07,39,722.11</b>	-	-	-

  
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 National Institute of Technology Calicut  
 कालिकट / Calicut - 673601

**NATIONAL INSTITUTE OF TECHNOLOGY, CALICUT**

Cash Flow Statement for the year ended 31.03.2022

Cash Flow from Operating Activities:	Amount(Rs.)
Increase/(Decrease) in Current Assets	18,59,96,848.75
Increase/(Decrease) in Current Liabilities	12,49,05,127.24
<b>Net Cash from Operating Activities</b>	<b>(6,10,91,721.51)</b>
<b>Cash Flow from Investing Activities:</b>	
(Purchase)/Sale of fixed assets	(71,80,415.73)
(Purchase)/Sale of investments	(2,10,07,555.00)
Interest received	-
Dividend received	-
<b>Net Cash from Investing Activities</b>	<b>(2,81,87,970.73)</b>

Contd..

Cash Flow from Financing Activities:	Amount (Rs.)
Additions to general fund during the year	38,54,98,385.60
Grants/funds in nature of founders'/promoters' contribution	-
Grants/funds related to assets not requiring fulfillment of any obligation	-
Endowment fund (principal sum)	11,76,98,505.00
Cpf & Gpf	2,02,52,312.00
Proceeds from long term borrowings	65,18,715.00
(Repayment of long-term borrowings)	(8,80,00,000.00)
Interest paid on loans	-
<b>Net Cash Flow From Financing Activities</b>	<b>44,19,67,917.59</b>
<b>Net Increase /(Decrease) in Cash equivalents</b>	<b>35,26,88,225.35</b>
<b>Cash and Cash equivalent at the beginning of the period</b>	<b>3,40,07,54,150.24</b>
<b>Cash and Cash equivalent at the end of the period</b>	<b>3,75,34,42,375.59</b>

Cash and Cash equivalent represented by:-	Amount (Rs.)
Cash in Hand	6,83,267.00
Cash in Bank	
- In Current Accounts	(1,37,36,044.66)
- In Savings Accounts	2,62,53,84,479.60
- In Term Deposits	1,13,55,05,210.96
- EEFC Account	24,88,801.70
Cash in Treasury	31,16,661.00
<b>Total</b>	<b>3,75,34,42,375.60</b>

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**DEPUTY REGISTRAR(Finance)**  
**National Institute of Technology**  
Calicut 673601

सहायक कुलसचिव / REGISTRAR  
राष्ट्रीय प्रौद्योगिकी संस्थान कलिकट  
National Institute of Technology Calicut  
कलिकट / Calicut

**DEPUTY DIRECTOR,**  
**NIT CALICUT**

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एच.ई.टी. कॉम्पस (F.O.), Calicut Kerala 673 601, भारत

*R. Prasad*

निदेशक / DIRECTOR

राष्ट्रीय प्रौद्योगिकी संस्थान कलिकट

*Sathidevi P. S.*

**NATIONAL INSTITUTE OF TECHNOLOGY, CALICUT**  
**RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR 2021-22**

(Amount in Rupees)

RECEIPTS	Sch No.	Current Year	Previous Year	PAYMENTS	Sch No.	Current Year	Previous Year
<b>I. Opening Balances</b>				<b>I. Expenses</b>			
a) Cash in Hand		7,94,449.50	8,83,785.50	a) Establishment expenses	37	1,13,14,59,147.00	1,09,94,34,591.00
b) Bank balances				b) Academic expenses	38	27,00,20,729.44	28,31,12,491.00
i) In Current accounts		4,63,88,638.04	(28,97,37,018.16)	c) Administrative expenses	39	6,16,50,226.00	5,42,93,953.75
ii) In Savings accounts		2,22,46,83,377.22	1,24,44,59,473.37	d) Transportation expenses	40	13,38,252.00	11,32,421.00
iii) In Deposit accounts		1,89,09,64,747.96	2,95,29,82,668.26	e) Repairs and Maintenance	41	7,29,70,324.00	6,87,71,443.00
iv) EEFC Accounts		7,37,73,359.52	10,67,58,953.97	f) Finance Costs	20	4,25,77,225.25	3,95,75,464.00
c) Treasury		31,16,661.00	31,16,661.00	g) Prior period expenses			
<b>II. Grants received</b>				<b>II. Payment against earmarked funds,gpf&amp;cpf</b>	34	15,95,59,436.00	14,04,16,982.00
a) From GOI	25	1,58,00,29,297.00	1,41,36,59,216.00				
b) From State Govt.							
c) From Other sources							
<b>III. Academic Receipts</b>	9	43,78,78,326.97	37,43,22,743.55	<b>III. Payment against sponsored Projects/Schemes</b>	3A	6,42,79,415.20	6,75,87,150.00
<b>IV. Receipts against Earmarked Endowment Funds,gpf&amp;cpf</b>	26	16,55,47,713.00	17,32,43,839.00	<b>IV. Payment against sponsored Fellowships/Scholarships</b>	3B	5,06,11,684.04	3,70,02,085.00
<b>V. Receipts against Sponsored Projects/Schemes</b>	3A	8,46,42,594.98	8,19,58,803.00	<b>V. Investments and Deposits made</b>			
				a) Out of Earmarked/ Endowment funds			
				b) Out of own funds			
<b>VI. Receipts against Sponsored Fellowships and Scholarships</b>	3B	4,68,61,916.54	3,47,00,386.00	<b>VI. Term Deposits with Scheduled Banks</b>			
<b>VII. Income on Investments from</b>				<b>VII. Expenditure on fixed Assets and Capital Works-in-Progress</b>			
a) Earmarked/Endowment funds	27	5,31,85,304.00	7,43,32,831.00	a) Fixed Assets	4	1,50,31,74,861.20	6,47,95,434.00
b) Other investments				b) Capital Work-in-Progress		(1,36,63,97,291.00)	23,39,89,106.00
<b>VIII. Interest received on</b>				<b>VIII. Other payments including Statutory payments</b>	42	40,45,79,914.08	33,90,83,194.00
a) Bank Deposits	28	8,78,31,588.00	(2,02,34,115.00)				
b) Loans and Advances							
c) Savings Bank Accounts	29	3,48,68,961.00	2,17,86,461.00				
<b>IX. Investments encashed</b>		-	-	<b>IX. Refund of Grants</b>			
<b>X. Term Deposits with Scheduled Banks encashed</b>		-	-	<b>X. Deposits and Advances repaid</b>	35	45,52,777.00	67,88,221.00
<b>XI. Other income (Including Prior Period Income)</b>	30	1,82,08,417.50	49,80,560.00	<b>XI. Deposits made (Cash Security Deposit with &lt;SEB)</b>			
<b>XII. Deposits and Advances Received</b>	31	53,99,278.40	74,78,362.50	<b>XIII. Loans and Advances given</b>	36	10,82,46,170.00	1,24,23,093.00
<b>XIII. Loans and Advances given repaid</b>	32	1,36,22,229.00	1,24,17,466.00				
<b>XIV. Miscellaneous Receipts including Statutory receipts</b>	33	35,42,43,023.52	49,10,15,785.00	<b>XII. Closing balances</b>			
<b>XV. Any other receipts</b>				a) Cash in Hand		6,83,267.00	7,94,449.50
				b) Bank balances			
				i) In Current accounts		(1,37,36,044.66)	4,63,88,638.04
				ii) In Savings accounts	7	2,62,53,84,479.60	2,22,46,83,377.22
				iii) In Deposit accounts		1,99,54,79,848.96	1,89,09,64,747.96
				iv) EEFC Accounts		24,88,801.70	7,37,73,359.52
				c) Treasury		31,16,661.00	31,16,661.00
<b>TOTAL</b>		<b>7,12,20,39,883.81</b>	<b>6,68,81,26,861.99</b>	<b>TOTAL</b>		<b>7,12,20,39,883.81</b>	<b>6,68,81,26,861.99</b>

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**NATIONAL INSTITUTE OF TECHNOLOGY CALICUT**  
**SCHEDULES FORMING PART OF RECEIPTS & PAYMENTS ACCOUNT FOR THE YEAR 2021-22**  
**25. GRANTS RECEIVED**

Particulars	Current Year	Previous Year
1. Plan	7,44,00,000.00	5,00,00,000.00
2. Non Plan	1,50,56,29,297.00	1,36,36,59,216.00
	1,58,00,29,297.00	1,41,36,59,216.00
Less: Current year Grants Receivable		
Plan	-	-
Non Plan	-	-
Add: Previous year Grants received		
Plan	-	-
Non Plan	-	-
<b>Net Receipt</b>	<b>1,58,00,29,297.00</b>	<b>1,41,36,59,216.00</b>

**26. RECEIPTS AGAINST EARMARKED ENDOWMENT FUNDS,GPF&CPF**

(Amount in Rupees)

Particulars	Current Year	Previous Year
1. TEQIP I	0.00	-
2. TEQIP II	0.00	0.00
3. TEQIP III	20,12,846.00	51,43,511.00
4. GPF	4,83,07,776.00	5,70,58,642.00
5. CPF	8,00,70,458.00	7,61,13,743.00
6. FBS	-	-
7. Growth Fund	1,46,34,750.00	1,20,45,024.00
8. Students Fund	1,19,28,740.00	1,24,04,021.00
9. TBI	18,81,532.00	74,59,164.00
10. TBI II	0.00	-
10. TEQIP II modernisation fund	0.00	-
11. Teqip reserves	-	-
12. Gymkhana	1,13,300.00	0.00
13. HWD	4,09,000.00	0.00
14. TBI Nidhi Prayas	61,89,311.00	30,19,734.00
Less: non cash items	-	-
<b>Net Receipt</b>	<b>16,55,47,713.00</b>	<b>17,32,43,839.00</b>

सहायक कुलसचिव, (खाता और वित्त)  
 Assistant Registrar (F&A)  
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**DEPUTY REGISTRAR(Finance)**  
**National Institute of Technology**  
**Calicut 673601**

कुल सचिव / REGISTRAR  
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**DEPUTY DIRECTOR**  
 NIT CALICUT

निदेशक / DIRECTOR  
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 NIT Campus (P.O), Calicut Kerala 673 601, India

27. INCOME ON INVESTMENTS EARMARKED FUNDS ,GPF&CPF

(Amount in Rupees)

Particulars	Current Year	Previous Year
1. TEQIP I	-	-
2. TEQIP II	-	-
3. TEQIP III	-	-
4. GPF	2,27,44,633.00	2,20,12,661.00
5. CPF	0.00	10,87,878.00
6. FBS	-	-
7. Growth Fund	10,70,06,314.00	5,03,88,137.00
8. Students Fund	52,816.00	4,69,814.00
9. TBI	4,28,573.00	3,74,341.00
10. TEQIP II modernisation fund	-	-
11. Teqip reserves	17,30,204.00	-
12. Gymkhana	-	-
13. HWD	-	-
	13,19,62,540.00	7,43,32,831.00
Add: Interest accrued in the previous year and realised in the current year		
Less: Interest accrued not yet received	7,87,77,236.00	-
<b>Net Receipt</b>	<b>5,31,85,304.00</b>	<b>7,43,32,831.00</b>

28. INTEREST ON BANK DEPOSITS

(Amount in Rupees)

Particulars	Current Year	Previous Year
1. Interest on fixed deposit of Plan Fund	2,28,45,761.00	-93,65,486.00
2. Interest on other Fixed Deposits	7,34,28,759.00	-1,92,40,153.00
	9,62,74,520.00	-2,86,05,639.00
Add: Interest accrued in the previous year and realised in the current year	89,87,944.00	14,98,23,590.00
Less: Interest accrued not yet received	1,74,30,876.00	14,14,52,066.00
<b>Net Receipt</b>	<b>8,78,31,588.00</b>	<b>-2,02,34,115.00</b>

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*Mmm*  
**DEPUTY REGISTRAR (Finance)**  
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*[Signature]*  
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*Saheedul P. S.*  
**DEPUTY DIRECTOR**  
**NIT CALICUT**

*[Signature]*  
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29. INTEREST ON SAVINGS BANK DEPOSITS

(Amount in Rupees)

Particulars	Current Year	Previous Year
1. Interest on SB A/c of Plan Fund	15,40,870.00	27,61,614.00
2. Interest on other SB Accounts	3,33,28,091.00	1,90,24,847.00
3. Interest on SB Accounts of Earmarked Funds		
	3,48,68,961.00	2,17,86,461.00
Less: Interest accrued not yet received		
<b>Net Receipt</b>	<b>3,48,68,961.00</b>	<b>2,17,86,461.00</b>

30. OTHER INCOME INCLUDING PRIOR PERIOD INCOME

(Amount in Rupees)

Particulars	Current Year	Previous Year
1. Prior period Income	16,44,31,638.96	3,50,004.00
2. Other Income	2,31,47,413.50	1,69,78,665.00
3. Interest on cash security deposit with KSEB	-	0.00
	18,75,79,052.46	1,73,28,669.00
Add: Interest accrued on cash security deposit with KSEB in the previous year realised		
Less: Non Cash Items	16,93,70,634.96	1,23,48,109.00
<b>Net Receipt</b>	<b>1,82,08,417.50</b>	<b>49,80,560.00</b>

31. DEPOSITS AND ADVANCES RECEIVED

(Amount in Rupees)

Particulars	Current Year	Previous Year
1. EMD	6,80,900.00	20,48,330.00
2. Security Deposit & Bank Guarantee	13,77,878.40	23,98,532.50
3. Caution Deposit	33,40,500.00	30,31,500.00
<b>Net Receipt</b>	<b>53,99,278.40</b>	<b>74,78,362.50</b>

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32. LOANS AND ADVANCES GIVEN RECEIVED BACK

(Amount in Rupees)

Particulars	Current Year	Previous Year
1. Advances given to employees	1,36,22,229.00	1,14,95,265.00
2. Other Advances	0.00	9,22,201.00
<b>Net Receipt</b>	<b>1,36,22,229.00</b>	<b>1,24,17,466.00</b>

33. MISCELLANEOUS RECEIPTS INCLUDING STATUTORY RECEIPTS

(Amount in Rupees)

Particulars	Current Year	Previous Year
1. Statutory Receipts	15,86,06,233.00	15,15,09,841.00
2. Other Miscellaneous receipts	19,56,36,790.52	33,95,05,944.00
3. All other misc receipts		
<b>Net Receipt</b>	<b>35,42,43,023.52</b>	<b>49,10,15,785.00</b>

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**NATIONAL INSTITUTE OF TECHNOLOGY CALICUT**  
**SCHEDULES FORMING PART OF RECEIPTS & PAYMENTS ACCOUNT FOR THE YEAR 2021-22**

**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	0.00	0.00
3. TEQIP III	26,89,037.00	58,18,404.00
4. GPF	4,55,47,836.00	4,10,21,893.00
5. CPF	8,53,22,719.00	7,63,63,184.00
6. FBS	0.00	0.00
7. Growth Fund	44,390.00	99,132.00
8. Students Fund	38,71,512.00	72,95,475.00
9. TBI	20,46,614.00	34,92,897.00
10. TEQIP II modernisation fund	0.00	0.00
11. Teqip reserves	0.00	0.00
12. Gymkhana	0.00	0.00
13. HWD	1,59,614.00	2,02,178.00
14. TBI Nidhi Prayas	1,98,77,714.00	61,23,819.00
<b>Net Payment</b>	<b>15,95,59,436.00</b>	<b>14,04,16,982.00</b>

**35. DEPOSITS REPAID**

(Amount in Rupees)

Particulars	Current Year	Previous Year
1. EMD	10,02,411.00	26,97,077.00
2. Security Deposit	12,46,966.00	17,11,644.00
3. Caution Deposit	23,03,400.00	23,79,500.00
<b>Net Payment</b>	<b>45,52,777.00</b>	<b>67,88,221.00</b>

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36. LOANS AND ADVANCES GIVEN

(Amount in Rupees)

Particulars	Current Year	Previous Year
1. Advances given to employees	91,92,901.00	67,24,481.00
2. Other Advances	9,90,53,269.00	56,98,612.00
<b>Net Payment</b>	<b>10,82,46,170.00</b>	<b>1,24,23,093.00</b>

37. ESTABLISHMENT EXPENSES

(Amount in Rupees)

Particulars	Current Year	Previous Year
Expense as per the Income and Expenditure Account	1,21,35,79,832.00	1,04,39,61,530.00
Less: Establishment expenses payable at the year end	8,65,85,086.00	44,64,401.00
Add: Establishment Expenses of previous year paid in the current year	44,64,401.00	5,99,37,462.00
<b>Net Payment</b>	<b>1,13,14,59,147.00</b>	<b>1,09,94,34,591.00</b>

38. ACADEMIC EXPENSES

(Amount in Rupees)

Particulars	Current Year	Previous Year
Expense as per the Income and Expenditure Account	30,31,88,579.44	28,58,06,739.00
Less: Academic expenses payable at the year end	3,31,67,850.00	26,94,248.00
Add: Academic Expenses of previous year paid in the current year	26,94,248.00	2,19,38,154.00
<b>Net Payment</b>	<b>27,00,20,729.44</b>	<b>28,31,12,491.00</b>

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**39. ADMINISTRATIVE EXPENSES**

(Amount in Rupees)

Particulars	Current Year	Previous Year
Expense as per the Income and Expenditure Account	5,51,26,859.00	5,00,25,448.75
Less: Administrative Expenses payable at the year end	25,71,463.00	2,14,87,822.00
Add: Administrative Expenses of previous year paid in the current year	90,94,830.00	2,57,56,327.00
<b>Net Payment</b>	<b>6,16,50,226.00</b>	<b>5,42,93,953.75</b>

**40. TRANSPORTATION EXPENSES**

(Amount in Rupees)

Particulars	Current Year	Previous Year
Expense as per the Income and Expenditure Account	13,38,252.00	11,32,421.00
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>13,38,252.00</b>	<b>11,32,421.00</b>

**41. REPAIRS AND MAINTENANCE**

(Amount in Rupees)

Particulars	Current Year	Previous Year
Expense as per the Income and Expenditure Account	7,32,50,307.00	6,74,42,113.00
Less: Repairs & Maintenance expense payable at the year end	60,18,713.00	57,38,730.00
Add: Repairs & Maintenance expense of previous year paid in the current year	57,38,730.00	70,68,060.00
<b>Net Payment</b>	<b>7,29,70,324.00</b>	<b>6,87,71,443.00</b>

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NIT Campus (P.O.), Calicut Kerala 673 601, India.


42. OTHER PAYMENTS INCLUDING STATUTORY PAYMENTS

(Amount in Rupees)

Particulars	Current Year	Previous Year
1. Statutory Payments	13,91,94,156.00	14,18,75,930.00
2. Other Payments	26,53,85,758.08	19,72,07,264.00
<b>Total</b>	<b>40,45,79,914.08</b>	<b>33,90,83,194.00</b>

  
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**NATIONAL INSTITUTE OF TECHNOLOGY CALICUT**  
**PROVIDENT FUND ACCOUNT**  
**BALANCE SHEET AS AT MARCH 31, 2022**

Amount	Liabilities	Amount	Amount	Assets	Amount
	<b>GPF</b>				
	Opening Balance	13,42,54,061.00		Investment	39,36,75,317.00
	Less: Subscription for March			Interest accrued as on 31/03/2022	
				Subscription due for March 2021	
	Add: Subscription in the year	4,83,07,776.00		GPF	
	Add: Subscription for March 2021			CPF	
	Add: Interest credited	1,13,33,093.65		UC due to CPF	
	Less: Advance/Withdrawal	4,55,47,836.00		NPS II	
	Closing balance		14,83,47,094.65		
				Tax recovered from interest on	
				Investments	
				pending refund from Income Tax	
				Dept.	
	<b>CPF</b>			<b>Cash at Bank</b>	
	Opening Balance	1,03,56,258.00		SBI Branch	
	Less: Subscription for March 2022			Others	
	Add: Subscription in the year	8,00,70,458.00			
	Add: Subscription for March 2021				
	Add: Interest credited				
	Less: Advance/Withdrawal	8,53,22,719.00			
	Closing balance		51,03,997.00		
	<b>University Contribution (CPF)</b>				
	Opening Balance				
	Less: Subscription for March 2021				
	Add: Subscription in the year				
	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	21,71,29,656.35			
Add: Excess of income over expenditure	2,30,94,569.00	24,02,24,225.35		
Closing Balance				
<b>Total</b>		<b>39,36,75,317.00</b>	<b>Total</b>	<b>39,36,75,317.00</b>

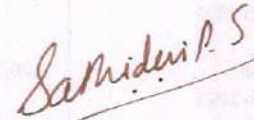


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**NATIONAL INSTITUTE OF TECHNOLOGY CALICUT**  
**PROVIDENT FUND ACCOUNT**  
**INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31/03/2022**


(Amount in Rs.)


Expenditure	Amount	Income	Amount
Interest credited to: GPF account	-	Interest earned on Investment	2,30,94,569.00
CPF account	-	Add: Interest accrued on 03/22	
University Contribution (CPF)	-	Add: Tax recovered on interest- Refund to be obtained	
NPS Tier-II account	-	Adjustment (Prior period income)	-
Excess of Income over Expenditure	2,30,94,569.00	Excess of Expenditure over Income-	
<b>Total</b>	<b>2,30,94,569</b>	<b>Total</b>	<b>2,30,94,569</b>

  
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**NATIONAL INSTITUTE OF TECHNOLOGY CALICUT**  
**PROVIDENT FUND ACCOUNT**  
**RECEIPTS AND PAYMENTS ACCOUNTS FOR 2021-22**

(Amount in Rs.)

Receipts	Amount	Payments	Amount
<b>Opening Balance:</b>		GPF Adv/Withdrawal	4,55,47,836.00
Savings Bank Accounts	6,79,74,104.00	CPF Adv/Withdrawal	8,53,22,719.00
Term Deposits	28,93,68,099.00		
MOD Balances	-	NPS Tier II	-
GPF Subscription	4,96,78,225.00	University Contribution Withdrawal	-
CPF Subscription	8,04,20,394.00		
CPF University Contribution	-	Investments during the year	-
NPS Tier II account	-	Others	-
Investments encashed	-	<b>Closing Balance</b>	
Interest received	-	Savings Bank Accounts	6,72,02,168.00
Other receipts	3,71,05,050.00	Term Deposits	32,64,73,149.00
		MOD Balances	-
<b>Total</b>	<b>52,45,45,872.00</b>	<b>Total</b>	<b>52,45,45,872.00</b>

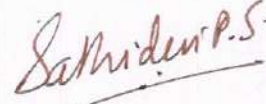


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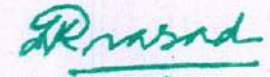
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## Schedule 23


### 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 2022 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.

  
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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.

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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.

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

  
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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.

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

  
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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.

Employer's (Institute's) contribution to New Pension Scheme and Contributory Provident Fund has been recognized as an expense for the financial year 2021-2022.

#### **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

  
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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.

## 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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## 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.

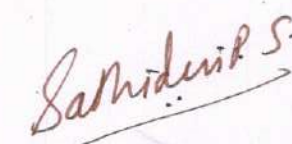
## 18. Cash flow statement

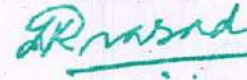
Cash flows are reported using direct method, whereby surplus is adjusted for the effects of transactions of a non-cash nature and any deferrals or accruals of past or future cash receipts or payments. The cash flows from regular revenue generating, investing and financing activities of the Institute are segregated.

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## 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. For Plan grants, the actual expenditure incurred for acquisition of fixed assets and capital work-in-progress is shown as deduction from the total of grants received during the year and the opening balance of grants consists of internal revenue of past financial years. Similar treatment is done for Non-Plan grants by deducting all the items of expenditure in the Income and Expenditure Account except for depreciation.

*(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).*

  
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DEPUTY REGISTRAR(Finance)  
National Institute of Technology  
Calicut 673601

  
कुल सचिव / REGISTRAR  
राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
National Institute of Technology Calicut  
कालिकट / Calicut

  
DEPUTY DIRECTOR  
NIT, CALICUT

  
निदेशक / DIRECTOR  
राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
National Institute of Technology Calicut  
कालिकट / Calicut - 673601  
एन.ई.टी. कॉम्पस (पी.ओ.)  
NIT Campus (P.O.)

### 3. FIXED ASSETS

Total addition to the assets during the FY 2021-22 was Rs. 13,67,77,570/-. Total depreciation on assets up to the period 2021-22 was Rs.2,25,93,69,658/- and that includes depreciation for the FY 2021-22 amounted to Rs. 12,95,97,154/-  
(Refer Schedule 4- Fixed Assets)

### 4. FIXED DEPOSITS

Disclosure for Fixed Deposits with nationalized banks shown in books of accounts is as follows:

(Amount in Rupees)

Sl. No.	Particulars	2021-22	2020-21
1	Fixed Deposits made out of Earmarked/ Designated Funds## , and GPF, CPF	135,40,58,468	128,42,29,965
2	Fixed Deposits made out of Plan Funds (includes FD of Rs. 1,89,41,657 pledged with Hon'ble Additional Sub-Judge, Kozhikode)	11,53,21,243	11,64,13,818
3	Fixed Deposits from Other Funds (Revenue Funds)	47,53,86,832	44,05,23,428
4	Fixed Deposits for Letters of Credit		44,92,000
5	Fixed Deposits for Bank Guarantee (in favor of KSEB)	20,50,840	20,50,840
6	Fixed Deposits from ERA BG	5,07,13,344	4,43,93,272
	<b>Total</b>	<b>1,99,75,30,727</b>	<b>1,89,21,03,323</b>

(Refer Schedule 5 – Investments from Earmarked/Endowment Funds and Schedule 7- Current Assets- Cash in Bank in Term Deposits Accounts).

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Assistant Registrar (F&A)  
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एन.ई.टी. कैंपस (पी.ओ.) कालिकट, केरल - 673601 भारत  
NIT Campus (P.O.), Calicut, Kerala - 673 601 India

## The details of Fixed Deposits made out of Earmarked/ Designated Funds, GPF & CPF shown hereinabove is provided below:

(Amount in Rupees)

Sl. No.	Particulars	2021-22	2020-21
1	Growth Fund	85,99,74,637	83,89,67,082
2	General Provident Fund	32,07,66,120	28,38,19,107
3	Contributory Provident Fund	57,07,029	55,48,992
4	Technology Business Incubator (TBI)	31,60,489	31,60,489
5	Students Fund	51,360	-
6	Refund	16,43,98,833	15,27,34,295
	<b>Total</b>	<b>135,40,58,468</b>	<b>128,42,29,965</b>

The fixed deposits created during the financial year 2021-22 and the fixed deposits for past financial years are shown in Balance Sheet as at 31 March 2022 at their principal value only.

The principal amount of all fixed deposits in the name of the Institute as on 31/03/2022 amounts to Rs. 199,75,30,727/-

## 5. INVENTORY

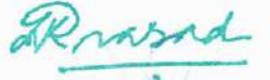
The stock purchased and issued to various departments is shown under the respective departmental operating cost ledger heads.

  
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## 6. 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	2021-22	2020-21
1	Contribution to New Pension Scheme	4,55,12,330	4,14,39,532
2	Leave Salary & Pension Contribution		25,81,295
	<b>Total</b>	<b>4,55,12,330</b>	<b>4,40,20,827</b>

(Refer Schedule 15- Staff payments and Benefits [Establishment Expenses])

## 7. 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 2020-21 are as follows:

(Amount in Rupees)

Sl. No.	Particulars	2021-22	2020-21
1	Pension	24,95,88,650	17,82,24,109
2	Death-cum-Retirement-Gratuity (DCRG)	2,49,49,381	1,52,54,996
3	Pension Commutation	2,94,33,671	43,69,894
	<b>Total</b>	<b>30,39,71,702</b>	<b>19,78,48,999</b>

(Refer Schedule 15- Staff payments and Benefits [Establishment Expenses]).

*R. Prasad*

निदेशक / DIRECTOR  
राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट

National Institute of Technology Calicut  
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*Sathidani P. S.*

DEPUTY DIRECTOR  
NIT CALICUT

*[Signature]*  
कुल सचिव / REGISTRAR  
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*[Signature]*  
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Calicut 673601

*[Signature]*  
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Assistant Registrar (F&A)  
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## 8. E-JOURNALS

As per MHRD format of annual accounts is provided that "Electronic Journals (E-Journals) are separated from Library Books in view of the limited benefit that could be derived from the on-line access provided. 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; Depreciation is provided in respect of E-journals at a higher rate of 40%".

Therefore, from FY 2021-22 onwards institute has capitalizing the E-journals instead of showing as revenue expenditure in past years.

## 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. 16,44,31,639 is accounted after adjusting the FD interest for the past years and from the correction in suspense accounts.

*(Refer Schedule 14-Prior Period Income).*

  
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National Institute of Technology Calicut  
एन. टी. को. 72, पो. को. कलिकट, केरल - 673601, भारत  
NIT Calicut (PO), Calicut, Kerala - 673 601, In

## 11. PRIOR PERIOD EXPENSES

Disclosure for prior period expenses for financial year 2021-22 is as under:

(Amount in Rupees)

Sl. No.	Particulars	2021-22	2020-21
1	Depreciation	NIL	NIL
2	Others	1,07,39,722	
	<b>Total</b>	<b>1,07,39,722</b>	

(Refer Schedule 22-Prior Period Expenses)

## 12. CONTINGENT LIABILITIES AND CONTINGENT ASSETS

- 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.
- 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.

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National Institute of Technology Calicut  
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- 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 2022 and the Income and Expenditure Account for the year ended on that date.

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 2021-22 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			
			(Amount in Rupees)
S. No	Bank & Branch Details	A/c No	Amount
1	PNB ,LINK ROAD	1423000105436300	49,91,947.50
2	PNB,MKV	4312000100731440	19,644.00
3	PNB,KPK MENON	4258000105056900	2,11,26,973.35
4	HDFC, CALICUT	12551450000070	2,27,725.00
5	UCO, CALICUT	1470100010215	7,46,393.00
6	SBI, NIT	10401159325	46,565.47
7	SBI, NIT	10401160454	1,12,89,346.73
8	SBI, NIT	30583579511	1,07,995.00
9	SBI, NIT	30705794534	2,30,461.00
10	SBI, NIT	30971545390	39,28,311.25
11	SBI, NIT	31064842240	610.00
12	SBI, NIT	31098052035	25,07,790.00
13	SBI, NIT	31444243085	3,18,128.00
14	SBI, NIT	31994129466	9,72,610.75
15	SBI, NIT	32399109132	21,72,638.75
16	SBI, NIT	35570283919	5,87,708.50
17	SBI, NIT	35582060998	47,111.00
18	SBI, NIT	35730420414	29,66,936.00
19	SBI, NIT	35730420822	29,66,936.00
20	SBI, NIT	35730421214	29,66,936.00
21	SBI, NIT	35730436537	29,66,936.00
22	SBI, NIT	35981271500	7,69,97,069.78
23	SBI, NIT	37838333933	7,22,34,990.10
24	SBI, NIT	38224161112	62,07,788.25

Not to be used for any other purpose  
 Only for the purpose of the  
 accounts of the Institute only  
 The Department of Accounts, Institute  
 10/10/10 - 10/10/10 75



25	SBI, NIT	38224161622	1,24,06,709.00
26	SBI, NIT	38297554301	75,47,67,420.70
27	SBI, NIT	39140066916	3,24,52,523.50
28	SBI, NIT	10401159303	1,16,41,340.55
29	SBI, NIT	10401159314	5,98,49,949.73
30	SBI, NIT	10401159530	5,59,55,686.91
31	SBI, NIT	10401159802	43,04,69,194.70
32	SBI, NIT	30261390339	74,36,83,311.35
33	SBI, NIT	33413466990	60,34,364.00
34	SBI, NIT	37090485326	7,54,830.00
35	SBI, NIT	10401160396	59,319.86
36	SBI, NIT	10401160578	3,10,69,276.62
<b>Total</b>			<b>2,35,57,73,478.35</b>
<b>(ii) Current Accounts</b>			
1	SBI, NIT	30846292747	91,69,539.00
2	SBI, NIT	36379213387	15,99,195.40
3	SBI, NIT	36379215839	96,250.62
4	SBI, NIT	36379216015	4,876.07
5	SBI, NIT	10401158082	7,48,38,003.72
6	SBI, NIT	10401158106	2,92,66,529.36
7	SBI, NIT	34899799867	10,48,477.50
8	CANARA,CLT	839201000560	6,790.95
9	CANARA,CLT	839201000561	6,196.00
10	CANARA,CLT	839201000567	70,89,270.80
<b>Total</b>			<b>12,31,25,129.42</b>
<b>(iii) Term Deposits</b>			
1	SBI, NIT	35791056509	1,08,33,703.00
2	SBI, NIT	35791081150	1,08,33,703.00
3	SBI, NIT	35791081229	47,17,777.00
4	SBI, NIT	36231766736	1,19,88,359.00
5	SBI, NIT	36231770152	1,19,88,359.00
6	SBI, NIT	36231772036	1,19,88,359.00
7	SBI, NIT	36231773299	1,19,88,359.00

8	SBI, NIT	36231774725	1,19,88,359.00
9	SBI, NIT	36231776007	1,19,88,359.00
10	SBI, NIT	36231782216	1,19,88,359.00
11	SBI, NIT	36231783945	1,19,88,359.00
12	SBI, NIT	36231785137	1,19,88,359.00
13	SBI, NIT	36231787269	1,19,88,359.00
14	SBI, NIT	36231788478	1,19,88,359.00
15	SBI, NIT	36231790442	1,19,88,359.00
16	SBI, NIT	36231792734	1,19,88,359.00
17	SBI, NIT	36231795407	1,19,88,359.00
18	SBI, NIT	36231795677	1,19,88,359.00
19	SBI, NIT	36231801999	1,19,88,359.00
20	SBI, NIT	36231803985	1,19,88,359.00
21	SBI, NIT	36231806192	1,19,88,359.00
22	SBI, NIT	36231807185	1,19,88,359.00
23	SBI, NIT	36231808190	1,19,88,359.00
24	SBI, NIT	36231819395	34,94,312.00
25	SBI, NIT	36231819703	98,00,064.00
26	SBI, NIT	36331596395	91,09,550.00
27	SBI, NIT	36455246010	1,17,49,313.00
28	SBI, NIT	36455249667	1,17,49,313.00
29	SBI, NIT	36455249725	1,17,49,313.00
30	SBI, NIT	36455249792	55,19,348.00
31	SBI, NIT	36812083014	1,13,54,098.00
32	SBI, NIT	36812085873	1,13,54,098.00
33	SBI, NIT	36812086128	1,13,54,098.00
34	SBI, NIT	36812108053	53,44,853.00
35	SBI, NIT	36812108122	97,86,597.00
36	SBI, NIT	37158545237	1,12,57,092.00
37	SBI, NIT	38002158419	64,74,610.00
38	SBI, NIT	38947580787	1,10,65,389.00
39	SBI, NIT	40524209465	17,77,023.00
40	SBI, NIT	40851242830	1,50,00,000.00

41	SBI, NIT	40851328955	57,60,639.00
42	SBI, NIT	40851329266	57,60,639.00
43	SBI, NIT	40851329709	57,60,639.00
44	SBI, NIT	40851329947	57,60,639.00
45	SBI, NIT	40851330226	57,60,639.00
46	SBI, NIT	40851330522	57,60,639.00
47	SBI, NIT	40851330849	57,60,639.00
48	SBI, NIT	40851331184	57,60,639.00
49	SBI, NIT	40851331355	57,60,639.00
50	SBI, NIT	40851331571	57,60,639.00
51	SBI, NIT	40851331763	95,27,253.00
52	SBI, NIT	40851332053	2,13,344.00
53	SBI, NIT	40851332326	59,58,156.00
54	SBI, NIT	40851333330	1,50,00,000.00
55	SBI, NIT	40851333704	1,50,00,000.00
56	SBI, NIT	40851335452	1,50,00,000.00
57	SBI, NIT	40851335940	1,50,00,000.00
58	SBI, NIT	40851341783	1,50,00,000.00
59	SBI, NIT	40851342119	1,50,00,000.00
60	SBI, NIT	40851342448	1,50,00,000.00
61	SBI, NIT	40851342710	1,50,00,000.00
62	SBI, NIT	40851343021	1,50,00,000.00
63	SBI, NIT	40851343225	1,50,00,000.00
64	SBI, NIT	40851343554	1,50,00,000.00
65	SBI, NIT	40851344047	1,50,00,000.00
66	SBI, NIT	40851344490	1,50,00,000.00
67	SBI, NIT	40851344911	1,50,00,000.00
68	SBI, NIT	40851345290	1,50,00,000.00
69	SBI, NIT	40851345664	1,50,00,000.00
70	SBI, NIT	40851346000	1,50,00,000.00
71	SBI, NIT	40851346883	1,50,00,000.00
72	SBI, NIT	40851347435	1,50,00,000.00
73	SBI, NIT	40851700142	1,38,59,526.00

74	SBI, NIT	36574989128	94,601.00
75	SBI, NIT	37572024812	99,983.00
76	SBI, NIT	39161790427	56,360.00
77	SBI, NIT	39162445119	16,576.00
78	SBI, NIT	39180588755	7,50,400.00
79	SBI, NIT	39202041712	1,58,037.00
80	SBI, NIT	40024214600	85,769.00
81	SBI, NIT	38764167969	51,360.00
82	SBI, NIT	39542471714	3,45,396.00
83	SBI, NIT	35385766884	1,28,35,269.00
84	SBI, NIT	36234517379	1,30,65,354.00
85	SBI, NIT	36234519536	1,30,65,354.00
86	SBI, NIT	36234521432	1,30,65,354.00
87	SBI, NIT	36234522742	1,30,65,354.00
88	SBI, NIT	36234523348	1,30,65,354.00
89	SBI, NIT	36234523745	1,30,65,354.00
90	SBI, NIT	36234525119	1,30,65,354.00
91	SBI, NIT	36234525482	1,30,65,354.00
92	SBI, NIT	36234525674	1,30,65,354.00
93	SBI, NIT	36234525845	1,30,65,354.00
94	SBI, NIT	36234526032	1,30,65,354.00
95	SBI, NIT	36234526214	1,30,65,354.00
96	SBI, NIT	36234536506	1,30,65,354.00
97	SBI, NIT	36234536743	1,30,65,354.00
98	SBI, NIT	36234536889	1,30,65,354.00
99	SBI, NIT	36234536970	1,30,65,354.00
100	SBI, NIT	36234538694	1,30,65,354.00
101	SBI, NIT	32775839242	1,11,82,271.00
102	SBI, NIT	32797684133	1,16,07,767.00
103	SBI, NIT	32808580270	1,11,55,469.00
104	SBI, NIT	35079055642	1,13,12,986.00
105	SBI, NIT	35079067443	1,13,95,450.00
106	SBI, NIT	35079068695	1,13,95,450.00

107	SBI, NIT	35079069586	1,13,95,450.00
108	SBI, NIT	35293809903	27,34,354.00
109	SBI, NIT	35307800580	93,80,475.00
110	SBI, NIT	35385766396	1,10,66,194.00
111	SBI, NIT	35397552993	1,11,57,672.00
112	SBI, NIT	35420944340	93,51,730.00
113	SBI, NIT	36234470190	31,78,779.00
114	SBI, NIT	36234470474	42,17,853.00
115	SBI, NIT	36234482323	42,28,123.00
116	SBI, NIT	36234499835	43,02,535.00
117	SBI, NIT	36234504405	1,04,78,575.00
118	SBI, NIT	36234505895	1,14,62,687.00
119	SBI, NIT	36234513001	72,05,431.00
120	SBI, NIT	36234515429	72,85,022.00
121	SBI, NIT	36312000910	46,16,226.00
122	SBI, NIT	36714003255	1,11,70,698.00
123	SBI, NIT	36714003277	1,11,70,698.00
124	SBI, NIT	36042749067	53,67,439.00
125	SBI, NIT	36043107039	1,42,61,580.00
126	SBI, NIT	36824037290	70,83,554.00
127	SBI, NIT	38380267786	41,89,250.00
128	SBI, CLT	32457363478	1,08,35,508.00
129	SBI, CLT	32457358254	1,08,35,508.00
130	PNB, LINK ROAD	142300DP00009337	93,73,080.00
131	PNB, LINK ROAD	142300DP00009434	1,00,64,146.00
132	PNB, LINK ROAD	142300DP00009601	57,74,811.00
133	PNB, LINK ROAD	142300DP00009878	90,00,000.00
134	PNB, LINK ROAD	142300DP00009887	90,00,000.00
135	PNB, LINK ROAD	142300DP00009896	90,00,000.00
136	PNB, LINK ROAD	142300DP00009902	90,00,000.00
137	PNB, LINK ROAD	142300DP00009911	90,00,000.00
138	PNB, LINK ROAD	142300DP00009920	90,00,000.00
139	PNB, LINK ROAD	142300DP00009939	90,00,000.00

140	PNB ,LINK ROAD	142300DP00009948	23,66,290.00
141	PNB ,LINK ROAD	142300DP00010122	99,00,000.00
142	PNB ,LINK ROAD	142300DP00010131	95,44,811.00
143	PNB ,LINK ROAD	142300DP00010344	90,00,000.00
144	PNB ,LINK ROAD	142300DP00010353	90,00,000.00
145	PNB ,LINK ROAD	142300DP00010362	53,50,320.00
146	PNB ,LINK ROAD	142300DP00011255	96,94,223.00
147	PNB ,LINK ROAD	142300DP00011264	81,54,130.00
148	PNB ,LINK ROAD	142300DP00011273	96,94,223.00
149	PNB ,LINK ROAD	142300DP00011282	96,94,223.00
150	PNB ,LINK ROAD	142300DP00011291	96,94,223.00
151	PNB ,LINK ROAD	142300DP00011307	89,77,812.00
152	PNB ,LINK ROAD	142300DP00011556	96,94,223.00
153	PNB ,LINK ROAD	142300DP00011565	96,94,223.00
154	PNB ,LINK ROAD	142300DP00011574	96,94,223.00
155	PNB ,LINK ROAD	142300DP00011583	96,94,223.00
156	PNB ,LINK ROAD	142300DP00011592	96,94,223.00
157	PNB ,LINK ROAD	142300DP00011608	96,94,223.00
158	PNB ,LINK ROAD	142300DP00012360	99,48,160.00
159	PNB ,LINK ROAD	142300DP00012379	99,48,162.00
160	PNB ,LINK ROAD	142300DP00012388	99,48,163.00
161	PNB ,LINK ROAD	142300DP00012397	93,29,923.00
162	PNB ,LINK ROAD	142300DP00012591	4,41,876.00
163	PNB ,LINK ROAD	142300DP00012607	4,77,137.00
164	PNB ,LINK ROAD	142300DP00012616	4,77,138.00
165	PNB ,LINK ROAD	142300DP00012625	4,77,137.00
166	PNB ,LINK ROAD	142300DP00012634	4,77,314.00
167	PNB ,LINK ROAD	142300DP00012786	12,12,665.00
168	PNB ,LINK ROAD	142300DP00012795	12,57,787.00
169	PNB ,LINK ROAD	142300DP00012801	6,77,454.00
170	PNB ,LINK ROAD	142300DP00012810	11,39,577.00
171	PNB ,LINK ROAD	142300DP00012829	11,39,575.00
172	PNB ,LINK ROAD	142300DP00012935	6,27,983.00

173	PNB ,LINK ROAD	142300DP00012944	6,28,030.00
174	PNB ,LINK ROAD	142300DP00012953	6,28,029.00
175	PNB ,LINK ROAD	142300DP00012962	6,28,030.00
176	PNB ,LINK ROAD	142300DP00012971	5,81,620.00
177	PNB ,LINK ROAD	142300DP00012980	1,52,303.00
178	PNB ,LINK ROAD	142300DP00013192	7,860.00
179	PNB ,LINK ROAD	142300DP00013226	29,96,947.00
180	PNB ,LINK ROAD	142300DP00013235	1,46,051.00
181	PNB ,LINK ROAD	142300DP00013244	9,483.00
182	PNB ,LINK ROAD	142300PU00003503	46,38,473.00
183	PNB ,LINK ROAD	142300PU00003910	8,08,286.00
184	PNB ,LINK ROAD	142300PU00003929	7,48,541.00
185	PNB ,LINK ROAD	142300PU00003938	8,08,272.00
186	PNB ,LINK ROAD	142300PU00003947	8,08,271.00
187	PNB ,LINK ROAD	142300PU00003956	8,08,271.00
188	PNB ,LINK ROAD	142300PU00004955	4,72,532.00
189	PNB ,LINK ROAD	142300PU00004964	4,72,532.00
190	PNB ,LINK ROAD	142300PU00004973	4,72,532.00
191	PNB ,LINK ROAD	142300PU00004982	4,72,532.00
192	PNB ,LINK ROAD	142300PU00004991	4,72,531.00
193	PNB ,LINK ROAD	142300PU00005006	4,72,532.00
194	PNB ,LINK ROAD	142300PU00005112	4,35,540.00
195	PNB ,LINK ROAD	142300PU00005219	4,15,440.00
196	PNB ,LINK ROAD	142300PU00005228	4,57,645.00
197	PNB ,LINK ROAD	142300PU00005237	4,57,645.00
198	PNB ,LINK ROAD	142300PU00005246	4,57,645.00
199	PNB ,LINK ROAD	142300PU00005255	4,57,646.00
200	PNB ,LINK ROAD	142300PU00005264	4,57,644.00
201	PNB ,LINK ROAD	142300PU00005273	4,57,645.00
202	PNB ,LINK ROAD	142300PU00005644	11,45,729.00
203	PNB ,LINK ROAD	142300PU00005653	11,45,728.00
204	PNB ,LINK ROAD	142300PU00005662	11,45,727.00
205	PNB ,LINK ROAD	142300PU00005671	11,45,726.00

206	PNB ,LINK ROAD	142300PU00005680	11,45,733.00
207	PNB ,LINK ROAD	142300PU00005699	11,45,726.00
208	PNB ,LINK ROAD	142300PU00005705	11,45,726.00
209	PNB ,LINK ROAD	142300PU00005714	3,01,239.00
210	PNB ,LINK ROAD	142300PU00006360	6,61,747.00
211	PNB ,LINK ROAD	142300PU00006379	6,61,753.00
212	PNB ,LINK ROAD	142300PU00006388	6,61,748.00
213	PNB ,LINK ROAD	142300PU00006397	6,61,753.00
214	PNB ,LINK ROAD	142300PU00006403	6,61,750.00
215	PNB ,LINK ROAD	142300PU00006412	6,61,750.00
216	PNB ,LINK ROAD	142300PU00006430	1,84,101.00
217	PNB ,LINK ROAD	142300PU00006573	28,844.00
218	PNB ,LINK ROAD	142300PU00006582	43,48,241.00
219	PNB ,LINK ROAD	142300PU00006591	2,09,500.00
220	PNB ,LINK ROAD	142300PU00007466	1,13,195.00
221	PNB ,LINK ROAD	142300PU00007475	2,00,698.00
222	PNB ,LINK ROAD	142300PU00007484	5,25,994.00
223	PNB ,LINK ROAD	142300PU00007624	31,414.00
224	PNB ,LINK ROAD	142300PU00007633	33,919.00
225	PNB ,LINK ROAD	142300PU00007642	33,920.00
226	PNB ,LINK ROAD	142300PU00007651	33,920.00
227	PNB ,LINK ROAD	142300PU00007660	33,921.00
228	PNB ,LINK ROAD	142300PU00007679	4,84,937.00
229	PNB ,LINK ROAD	142300PU00007688	5,23,632.00
230	PNB ,LINK ROAD	142300PU00007697	5,23,633.00
231	PNB ,LINK ROAD	142300PU00007703	5,23,634.00
232	PNB ,LINK ROAD	142300PU00007712	5,23,671.00
233	PNB ,LINK ROAD	142300PU00007721	23,863.00
234	PNB ,LINK ROAD	142300PU00007730	25,769.00
235	PNB ,LINK ROAD	142300PU00007749	25,769.00
236	PNB ,LINK ROAD	142300PU00007758	25,770.00
237	PNB ,LINK ROAD	142300PU00007767	25,778.00
238	PNB ,LINK ROAD	142300PU00007882	21,364.00



239	PNB ,LINK ROAD	142300PU00007891	4,65,738.00
240	PNB ,LINK ROAD	142300PU00007907	4,65,737.00
241	PNB ,LINK ROAD	142300PU00007916	4,65,738.00
242	PNB ,LINK ROAD	142300PU00007925	4,65,739.00
243	PNB ,LINK ROAD	142300PU00007934	4,65,738.00
244	PNB ,LINK ROAD	142300PU00007943	4,65,737.00
245	PNB ,LINK ROAD	142300PU00007952	4,22,789.00
246	PNB ,LINK ROAD	142300PU00008067	22,433.00
247	PNB ,LINK ROAD	142300PU00008076	22,431.00
248	PNB ,LINK ROAD	142300PU00008085	22,434.00
249	PNB ,LINK ROAD	142300PU00008094	22,433.00
250	PNB ,LINK ROAD	142300PU00008100	22,432.00
251	PNB ,LINK ROAD	142300PU00008119	22,431.00
252	PNB ,LINK ROAD	142300PU00008146	20,366.00
253	PNB ,LINK ROAD	142300PU00008845	10,88,227.00
254	PNB ,LINK ROAD	142300PU00008854	10,88,227.00
255	PNB ,LINK ROAD	142300PU00008863	10,88,225.00
256	PNB ,LINK ROAD	142300PU00008872	10,88,227.00
257	PNB ,LINK ROAD	142300PU00008881	10,88,228.00
258	PNB ,LINK ROAD	142300PU00008890	10,88,226.00
259	PNB ,LINK ROAD	142300PU00008906	10,88,228.00
260	PNB ,LINK ROAD	142300PU00008915	2,86,118.00
261	PNB ,LINK ROAD	142300PU00008988	11,97,066.00
262	PNB ,LINK ROAD	142300PU00008997	11,54,119.00
263	PNB ,LINK ROAD	142300PU00009084	10,88,266.00
264	PNB ,LINK ROAD	142300PU00009093	10,88,286.00
265	PNB ,LINK ROAD	142300PU00009109	6,46,964.00
266	PNB ,LINK ROAD	142300DP00012865	84,871.00
267	PNB ,LINK ROAD	142300DP00013165	8,997.00
268	PNB ,LINK ROAD	142300DP00013174	5,072.00
269	PNB ,LINK ROAD	142300DP00013332	4,047.00
270	PNB ,LINK ROAD	142300PU00003451	18,28,260.00
271	PNB ,LINK ROAD	142300PU00003983	37,68,318.00

272	PNB ,LINK ROAD	142300PU00004256	7,33,900.00
273	PNB ,LINK ROAD	142300PU00007439	23,575.00
274	PNB ,LINK ROAD	142300PU00009136	87,751.00
275	PNB ,LINK ROAD	142300PU00009145	1,55,582.00
276	PNB ,LINK ROAD	142300PU00009154	4,07,760.00
277	PNB ,LINK ROAD	142300PU00003406	93,70,440.00
278	PNB ,LINK ROAD	142300PU00003831	8,29,514.00
279	PNB ,LINK ROAD	142300PU00004849	5,48,018.00
280	PNB ,LINK ROAD	142300PU00006175	5,82,259.00
281	PNB ,LINK ROAD	142300PU00007545	5,35,707.00
282	PNB ,LINK ROAD	142300PU00007554	5,35,707.00
283	PNB ,LINK ROAD	142300PU00007563	33,286.00
284	PNB ,LINK ROAD	142300PU00007572	33,286.00
285	PNB ,LINK ROAD	142300DP00013280	4,69,497.00
286	PNB ,LINK ROAD	142300PU00003390	90,00,000.00
287	PNB ,LINK ROAD	142300PU00006494	5,67,985.00
288	PNB ,LINK ROAD	142300DP00012874	1,50,478.00
289	PNB ,LINK ROAD	142300DP00013253	6,898.00
290	PNB ,LINK ROAD	142300DP00013341	7,178.00
291	PNB ,LINK ROAD	142300PU00003433	32,41,505.00
292	PNB ,LINK ROAD	142300PU00003974	19,46,700.00
293	PNB ,LINK ROAD	142300PU00004089	7,56,874.00
294	PNB ,LINK ROAD	142300PU00004098	7,56,876.00
295	PNB ,LINK ROAD	142300PU00004104	8,06,101.00
296	PNB ,LINK ROAD	142300PU00006449	49,114.00
297	PNB ,LINK ROAD	142300PU00006458	46,814.00
298	PNB ,LINK ROAD	142300PU00006467	46,817.00
299	PNB ,LINK ROAD	142300PU00006476	46,817.00
300	PNB ,LINK ROAD	142300PU00003415	93,70,440.00
301	PNB ,LINK ROAD	142300PU00003789	9,51,942.00
302	PNB ,LINK ROAD	142300PU00003840	8,29,515.00


303	PNB ,LINK ROAD	142300PU00003965	9,11,746.00
304	PNB ,LINK ROAD	142300PU00004858	5,48,019.00
305	PNB ,LINK ROAD	142300PU00004876	41,95,254.00
306	PNB ,LINK ROAD	142300PU00006166	5,82,259.00
307	PNB ,LINK ROAD	142300PU00003442	1,07,70,776.00
308	PNB ,LINK ROAD	142300DP00012883	3,94,378.00
309	PNB ,LINK ROAD	142300DP00013350	18,809.00
310	PNB ,LINK ROAD	142300PU00003424	84,95,492.00
311	PNB ,LINK ROAD	142300PU00004052	7,56,874.00
312	PNB ,LINK ROAD	142300PU00004061	7,56,875.00
313	PNB ,LINK ROAD	142300PU00004070	8,06,102.00
314	PNB ,LINK ROAD	142300PU00003381	86,23,909.00
315	PNB ,LINK ROAD	142300PU00004274	7,03,556.00
316	PNB ,LINK ROAD	142300PU00003372	95,00,000.00
317	PNB ,LINK ROAD	142300PU00004335	7,75,028.00
318	PNB ,LINK ROAD	142300PU00003363	95,00,000.00
319	PNB ,LINK ROAD	142300PU00004326	7,75,027.00
320	PNB ,LINK ROAD	142300PU00003354	95,00,000.00
321	PNB ,LINK ROAD	142300PU00004317	7,75,030.00
322	PNB ,LINK ROAD	142300PU00003345	95,00,000.00
323	PNB ,LINK ROAD	142300PU00004308	7,75,026.00
324	PNB ,LINK ROAD	142300PU00003336	95,00,000.00
325	PNB ,LINK ROAD	142300PU00004292	7,75,028.00
326	PNB ,LINK ROAD	142300PU00003327	95,00,000.00
327	PNB ,LINK ROAD	142300PU00004283	7,75,028.00
328	PNB, MNKV	431200PU00004551	16,56,160.00
329	PNB, MNKV	431200PU00005736	1,01,41,372.00
330	PNB, MNKV	431200PU00006018	13,70,123.00
331	PNB, MNKV	431200PU00006027	1,01,53,158.00
332	PNB, MNKV	431200PU00006036	1,25,89,333.00
333	PNB, MNKV	431200PU00009778	1,33,48,021.00
334	PNB, MNKV	431200PU00009839	1,33,48,021.00

335	PNB, MNKV	431200PU00009848	1,33,48,020.00
336	PNB, MNKV	431200PU00009857	1,33,48,024.00
337	PNB, MNKV	431200PU00009866	1,33,48,020.00
338	PNB, MNKV	431200PU00009875	1,33,48,020.00
339	PNB, MNKV	431200PU00009884	1,33,48,022.00
340	PNB, MNKV	431200PU00009893	1,33,48,020.00
341	PNB, MNKV	431200PU00010039	83,97,281.00
342	PNB, MNKV	431200PU00010677	1,20,89,174.00
343	PNB, MNKV	431200PU00010686	1,20,89,172.00
344	PNB, MNKV	431200PU00010695	26,86,481.00
345	PNB, MNKV	431200PU00011816	1,16,31,307.00
346	PNB, MNKV	431200PU00011825	1,16,31,311.00
347	PNB, MNKV	431200PU00011834	1,16,31,309.00
348	PNB, MNKV	431200PU00011843	1,16,31,307.00
349	PNB, MNKV	431200PU00011852	1,16,31,308.00
350	PNB, MNKV	431200PU00011861	43,24,359.00
351	PNB, MNKV	431200PU00014150	5,05,356.00
352	PNB, KPK MENON	425800DP00010662	89,14,144.00
353	PNB, KPK MENON	425800DP00010671	89,14,149.00
354	PNB, KPK MENON	425800DP00010680	89,14,144.00
355	PNB, KPK MENON	425800DP00010699	37,88,513.00
356	PNB, KPK MENON	425800DP00011227	99,29,132.00
357	PNB, KPK MENON	425800DP00011236	99,29,129.00
358	PNB, KPK MENON	425800DP00011245	99,29,131.00
359	PNB, KPK MENON	425800DP00011254	99,29,117.00
360	PNB, KPK MENON	425800DP00011263	99,29,111.00
361	UCO ,BANK	1470310049006	1,09,59,925.00
362	UCO ,BANK	1470310049037	1,09,58,499.00
363	UCO ,BANK	1470310049044	1,09,57,072.00
364	UCO ,BANK	1470310049051	1,09,55,646.00
365	UCO ,BANK	1470310049068	1,09,54,220.00
366	UCO ,BANK	1470310049082	1,69,51,367.00
367	UCO ,BANK	1470310049105	1,09,49,941.00

368	UCO ,BANK	1470310049112	1,09,48,514.00
369	UCO ,BANK	1470310049143	1,09,34,902.00
370	UCO ,BANK	1470310049136	1,09,36,327.00
371	UCO ,BANK	1470310046586	1,23,85,176.00
372	UCO ,BANK	1470310046630	68,81,037.00
373	UCO ,BANK	1470310049204	1,21,52,661.00
374	CANARA,CLT	0839303000302/8	1,90,30,189.00
375	CANARA,CLT	0839303000302/9	1,40,22,244.00
376	CANARA,CLT	0839303000302/10	1,10,17,478.00
<b>Total</b>			<b>2,30,09,48,264.00</b>
(iv)	<b>Forex Accounts</b>		
<b>S. No</b>	<b>Bank &amp; Branch Details</b>	<b>A/c No</b>	<b>Amount (USD)</b>
1	SBI, CLT	35350525917	5.00
<b>Total</b>			<b>5.00</b>

  
 सहायक कुलसचिव, (खाता और वित्त)  
 Assistant Registrar (F&A)  
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 National Institute of Technology Calicut  
 कालिकट / Calicut - 673601

  
**DEPUTY REGISTRAR(Finance)**  
**National Institute of Technology**  
**Calicut 673601**

  
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 राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
 National Institute of Technology Calicut  
 कालिकट / Calicut

  
**DEPUTY DIRECTOR**  
**NIT CALICUT**

  
 निदेशक / DIRECTOR  
 राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
 National Institute of Technology Calicut  
 एन.ई.टी. कॉम्पस (पी.ओ.) कालिकट, केरल - 673601 भारत  
 NIT Campus (P.O.), Calicut/Kerala - 673601, India

**ANNEXURE B**

**Bank Accounts for Projects shown in Books of Accounts (Savings)**

S.No	Bank & Branch Details	A/c No	(Amount in Rupees)
			Amount
1	SBI, NIT	30428621431	6,51,380.00
2	SBI, NIT	30458848311	17,64,207.00
3	SBI, NIT	30506640444	36,94,895.00
4	SBI, NIT	30808033649	15,698.00
5	SBI, NIT	30948537262	12,663.00
6	SBI, NIT	31091558694	584.44
7	SBI, NIT	31130641093	21,04,189.00
8	SBI, NIT	31762778358	218.12
9	SBI, NIT	31789866710	23,26,166.00
10	SBI, NIT	31789868139	47,585.00
11	SBI, NIT	31915181691	2,489.00
12	SBI, NIT	32015957716	4,018.00
13	SBI, NIT	32101535934	1,899.00
14	SBI, NIT	32563027683	2,619.00
15	SBI, NIT	32954434797	1,88,491.00
16	SBI, NIT	33015477472	1,846.85
17	SBI, NIT	33049806044	31,838.00
18	SBI, NIT	33067690208	27,86,957.25
19	SBI, NIT	33175087386	22,743.50
20	SBI, NIT	33187581587	21,805.00
21	SBI, NIT	33301926627	9,123.00
22	SBI, NIT	33368719830	38,816.00
23	SBI, NIT	33368722037	1,058.00
24	SBI, NIT	33368731461	496.00
25	SBI, NIT	33627227608	413.52
26	SBI, NIT	33869260955	2,034.25
27	SBI, NIT	34055770847	384.00
28	SBI, NIT	34743361812	71,453.00
29	SBI, NIT	34922458279	81,374.50

30	SBI, NIT	34984625589	5,62,944.50
31	SBI, NIT	35105587080	2,90,388.00
32	SBI, NIT	35108714120	10,39,164.75
33	SBI, NIT	35256507611	14,623.50
34	SBI, NIT	35260115754	48,440.50
35	SBI, NIT	35373645311	1,13,562.00
36	SBI, NIT	35531852511	6,493.50
37	SBI, NIT	35547110999	1,74,812.50
38	SBI, NIT	34781526032	18,049.00
39	SBI, NIT	35601784856	259.68
40	SBI, NIT	35707855365	15,36,703.50
41	SBI, NIT	35712118085	12,906.50
42	SBI, NIT	35724132844	2,27,392.89
43	SBI, NIT	35760309489	4,72,967.50
44	SBI, NIT	35909407299	15,27,002.08
45	SBI, NIT	35977962286	68,285.20
46	SBI, NIT	36028528852	1,12,695.75
47	SBI, NIT	36076948949	35,556.25
48	SBI, NIT	36273863935	20,379.50
49	SBI, NIT	36374406306	1,600.00
50	SBI, NIT	36598636298	4,922.35
51	SBI, NIT	37186010229	4,891.25
52	SBI, NIT	37251562506	1,67,252.72
53	SBI, NIT	37286864074	6,12,295.25
54	SBI, NIT	37324305638	16.50
55	SBI, NIT	37481542974	1,20,794.00
56	SBI, NIT	37520426749	4,47,869.00
57	SBI, NIT	37618269594	25,98,111.25
58	SBI, NIT	37720597560	17,13,466.00
59	SBI, NIT	37747553259	1,516.85
60	SBI, NIT	37779456678	58,985.00
61	SBI, NIT	37814761399	1,49,241.00
62	SBI, NIT	38017800860	5,04,395.85

63	SBI, NIT	38030654242	182.00
64	SBI, NIT	38044293551	765.75
65	SBI, NIT	38103882462	2,83,918.75
66	SBI, NIT	38103882983	8,07,130.50
67	SBI, NIT	38132483430	4,01,596.50
68	SBI, NIT	38180891032	4,80,406.75
69	SBI, NIT	38259781306	63,218.25
70	SBI, NIT	38276476234	1,27,684.85
71	SBI, NIT	38297555305	16,573.00
72	SBI, NIT	38302334688	1,24,306.25
73	SBI, NIT	38340306789	81,657.25
74	SBI, NIT	38340307057	1,688.00
75	SBI, NIT	38358757972	7,149.00
76	SBI, NIT	38399582550	6,26,628.25
77	SBI, NIT	38399582684	7,739.00
78	SBI, NIT	38399582924	3,90,783.25
79	SBI, NIT	38415705045	24,87,075.00
80	SBI, NIT	38441229277	11,537.00
81	SBI, NIT	38441229539	641.00
82	SBI, NIT	38446714927	47,359.00
83	SBI, NIT	38446715137	1,13,697.25
84	SBI, NIT	38475444194	2,46,130.60
85	SBI, NIT	38475444445	1,13,293.10
86	SBI, NIT	38543741053	46,895.35
87	SBI, NIT	38550040182	4,29,374.00
88	SBI, NIT	38590885678	2,28,530.85
89	SBI, NIT	38603503929	18,695.85
90	SBI, NIT	38711830160	2,45,951.85
91	SBI, NIT	38882570452	1,46,204.35
92	SBI, NIT	39022693751	17,559.75
93	SBI, NIT	39022694530	2,11,536.75
94	SBI, NIT	39022694697	4,30,144.25
95	SBI, NIT	39022694857	1,68,305.25



96	SBI, NIT	39075298670	302.25
97	SBI, NIT	39075299209	1,74,848.00
98	SBI, NIT	39075299844	1,82,692.25
99	SBI, NIT	39075304469	9,26,416.75
100	SBI, NIT	39075304899	5,37,481.50
101	SBI, NIT	39075305418	1,95,764.77
102	SBI, NIT	39106480976	31,030.75
103	SBI, NIT	39106481288	6,17,759.25
104	SBI, NIT	39106481539	3,77,594.50
105	SBI, NIT	39125726125	8,96,708.25
106	SBI, NIT	39169217888	4,95,471.75
107	SBI, NIT	39219255091	58,145.25
108	SBI, NIT	39506730808	16,42,299.35
109	SBI, NIT	39506731880	2,353.00
110	SBI, NIT	39506732329	7,20,526.00
111	SBI, NIT	39532201273	12,19,752.35
112	SBI, NIT	39532201910	4,03,871.00
113	SBI, NIT	39553813917	4,01,310.00
114	SBI, NIT	39597928075	5,52,184.75
115	SBI, NIT	39639368255	6,09,862.00
116	SBI, NIT	39639368562	3,86,887.00
117	SBI, NIT	39639369112	2,97,878.50
118	SBI, NIT	39682643050	1,10,236.50
119	SBI, NIT	39691957043	2,76,932.05
120	SBI, NIT	39691957189	5,38,562.00
121	SBI, NIT	39798625732	2,56,259.50
122	SBI, NIT	39798626054	15,75,157.50
123	SBI, NIT	39820592642	2,06,76,187.00
124	SBI, NIT	39961039639	11,56,738.25
125	SBI, NIT	39961040736	2,47,203.00
126	SBI, NIT	39961041242	9,33,326.50
127	SBI, NIT	39961041945	26,85,798.00
128	SBI, NIT	39972423477	1,44,14,824.00

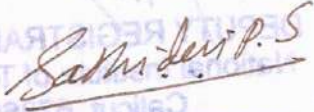
129	SBI, NIT	39972423874	2,92,419.25
130	SBI, NIT	39972424277	13,80,864.50
131	SBI, NIT	39975740517	12,21,320.50
132	SBI, NIT	39975741077	20,85,206.00
133	SBI, NIT	40032780802	9,13,723.50
134	SBI, NIT	40108343879	2,67,610.50
135	SBI, NIT	40136854519	7,55,154.10
136	SBI, NIT	40246973460	13,54,456.00
137	SBI, NIT	40393321018	6,746.70
138	SBI, NIT	40447651763	34,30,737.00
139	SBI, NIT	40486596952	49,00,875.10
140	SBI, NIT	40486597694	1,51,423.00
141	SBI, NIT	40569756904	10,346.50
142	SBI, NIT	40569757192	60,40,839.00
143	SBI, NIT	40587974657	18,44,533.50
144	SBI, NIT	40587974862	13,20,216.00
145	SBI, NIT	40598344282	10,75,123.50
146	SBI, NIT	40615978508	25,263.00
147	SBI, NIT	40615978734	13,14,506.00
148	SBI, NIT	40673159342	15,17,614.00
149	SBI, NIT	40688164264	17,72,573.00
150	SBI, NIT	40693897885	24,65,533.00
151	SBI, NIT	40704583427	23,07,859.00
152	SBI, NIT	40716271992	9,92,007.00
153	SBI, NIT	40716272486	14,86,574.00
154	SBI, NIT	40728095320	17,45,449.00
155	SBI, NIT	40740615538	13,55,773.00
156	SBI, NIT	40740683144	16,74,990.00
157	SBI, NIT	40740683723	20,29,747.00
158	SBI, NIT	40775884749	10,31,428.00
159	SBI, NIT	40779308556	21,70,266.00
160	SBI, NIT	40796510675	6,05,197.00
161	SBI, NIT	40804478339	5,80,014.00

162	SBI, NIT	40826202831	4,80,000.00
163	SBI, NIT	40826206030	3,10,000.00
164	SBI, NIT	40836489311	3,35,000.00
165	SBI, NIT	40845926102	33,25,000.00
166	SBI, NIT	40845926985	2,20,000.00
167	SBI, NIT	40860542253	29,65,000.00
168	SBI, NIT	40860542480	23,80,000.00
169	SBI, NIT	40860542707	8,60,000.00
170	SBI, NIT	40860542956	1,59,000.00
171	SBI, NIT	36697532901	2,45,944.00
172	SBI, NIT	36697545105	50.00
173	SBI, NIT	36699462861	1,68,477.50
174	SBI, NIT	36826070008	33,110.50
175	SBI, NIT	36826070213	48,666.50
176	SBI, NIT	37096085388	1,92,063.50
177	SBI, NIT	32276182737	7,070.00
178	SBI, NIT	32785878304	1,57,503.00
179	SBI, NIT	32785641568	72,652.00
<b>Total</b>			<b>15,06,28,068.27</b>

Bank Accounts for Projects shown in Books of Accounts (Current)			
S.No	Bank & Branch Details	A/c No	Amount
1	SBI, NIT	37154522972	9,744.00
2	SBI, NIT	40137995865	2,11,193.79
3	SBI, NIT	40170034377	83,513.33
4	SBI, NIT	37021855472	27,744.00
<b>Total</b>			<b>3,32,195.12</b>

  
 सहायक कुलसचिव, (खाता और वित्त)  
 Assistant Registrar (F&A)  
 राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
 National Institute of Technology Calicut  
 कालिकट / Calicut - 673601

  
 DEPUTY REGISTRAR(Finance)  
 National Institute of Technology  
 Calicut 673601  
 कुल सचिव / REGISTRAR  
 राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
 National Institute of Technology Calicut  
 कालिकट / Calicut

  
 DEPUTY DIRECTOR  
 NIT CALICUT

  
 निदेशक / DIRECTOR  
 राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
 National Institute of Technology Calicut  
 एन.ई.टी. कैंपस (पी.ओ.) कालिकट, केरल - 673601  
 NIT Campus (P.O), Calicut Kerala 673601.

ANNEXURE C			
List of Bank accounts and Fixed Deposits not shown in the Institute's books of accounts			
Savings Accounts			
S.No	Bank & Branch Details	A/c No	(Amount in Rupees) Amount
1	SBI, NIT	31317481538	15,136.00
2	SBI, NIT	31725977448	499.00
3	SBI, NIT	32385509903	4,07,928.50
4	SBI, NIT	33588035836	92,571.50
5	SBI, NIT	33605148992	20.00
6	SBI, NIT	30013250817	68.00
Total			5,16,223.00
(ii) Current Accounts			
1	SBI, NIT	33950524246	28,616.30
2	SBI, NIT	35725957831	39,466.84
3	SBI, CLT	31039642229	2,05,815.00
Total			2,73,898.14
(iii) Term Deposit A/c			
1	PNB, MKV	431200PU00004551	16,56,160.00
2	PNB, MKV	431200PU00014150	5,05,356.00
Total			21,61,516.00

सहायक कुलसचिव, (खाता और वित्त)  
Assistant Registrar (F&A)  
राष्ट्रीय प्रौद्योगिकी संस्थान कलिकट  
National Institute of Technology Calicut  
कलिकट / Calicut - 673601

DEPUTY REGISTRAR (Finance)  
National Institute of Technology  
Calicut 673601

कुल सचिव / REGISTRAR  
राष्ट्रीय प्रौद्योगिकी संस्थान कलिकट  
National Institute of Technology Calicut  
कलिकट / Calicut

DEPUTY DIRECTOR  
NIT CALICUT

निदेशक / DIRECTOR  
राष्ट्रीय प्रौद्योगिकी संस्थान कलिकट  
National Institute of Technology Calicut  
एन.ई.टी. कॉम्पस (पी.ओ.) कलिकट केरल - 673601 भारत  
NIT Campus (P.O.), Calicut Kerala 673 601, India

**AUDIT CERTIFICATE  
AND  
AUDIT REPORT**

**2021-2022**

**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 2022**

We have audited the attached Balance Sheet of National Institute of Technology, Calicut as at 31 March 2022, 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 (erstwhile Ministry of Human Resource Development), 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 Rs.38.20 crore (Schedule 2A)**

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 2A of the Balance sheet of Main Accounts for the year 2021-22. This has resulted in overstatement of Liabilities by Rs.38.20 crore in the Balance sheet under GPF & CPF (Schedule 2A) and corresponding overstatement of Investment from Earmarked/Endowment funds in Schedule 5 – Investments from Earmarked/Endowment Funds and Schedule 8 – Loans, Advances and Deposits.

Though similar observation was made in the previous year SAR, no corrective action has been taken yet.

## **B. GENERAL**

### **B.1 Current Assets Rs.375.61 crore (Schedule 7) – Differences in Savings Accounts**

The Savings Account balance as per Schedule 7 of Balance sheet shows a balance of Rs.262.53 crore while the bank has confirmed the balance as on 31.03.2022 as Rs. 235.58 crore. Thus Rs. 26.95 crore was shown in excess without confirmation of the bank. But six Savings Accounts having a balance of Rs.5.16 lakh were not included in the accounts resulting in understatement of Current Assets by that amount.

The Institute did not prepare Bank Reconciliation Statements in respect of 142 accounts. Some of these accounts shows minus balance also. Even the Bank Reconciliation prepared by the Institute cannot be considered as complete. In 22 bank reconciliation statements there are unexplained items classified as “Difference in opening balance”. Further, very old debit and credit items are also pending for clearance in the bank reconciliation statement.

The Institute is keeping, in the Books of Accounts, the balances of Savings Bank Accounts, which had already been closed/inoperative. Some accounts show minus balance also.

Thus, the savings account balance shown in Schedule 7 cannot be considered as showing a true and fair view of the Current Assets of the Institute as on 31<sup>st</sup> March 2022.

**B.2 Current Assets Rs.375.61 crore (Schedule 7) – Difference in Current Accounts**

The Current Account Balance as per Schedule 7 of Balance Sheet shows a balance of Rs.(-)137.36 lakh as against Rs. 1231.25 lakh certified by the banks. Three current accounts having a total sum of Rs.2.74 lakh were not included in the accounts of the Institute. Thus, current account balance shown in the accounts does not show a correct picture of the funds available with the Institute.

**B.3 Current Assets Rs.375.61 crore (Schedule 7) – Difference in Cash in Treasury**

The District Treasury Officer, Kozhikode has confirmed the balance of Rs. 22.90 lakh only whereas the cash in treasury as per Schedule 7 shows a balance of Rs.31.17 lakh. The difference is yet to be reconciled. Moreover, DTO, Kozhikode also confirmed that two PD Accounts amounting to Rs. 20.81 lakh was transferred to Lapsed Deposits. Thus, balance in Treasury shown in the accounts does not show a true and fair view of the funds available with the Treasury.

**B.4 Differences in Term Deposits (Schedules 5, 7 & 8)**

The total of term deposits along with accrued interest with banks as on 31.03.2022 as per Schedule 5, 7 & 8 was Rs. 223.49 crore. However, as per Annexure- A, bank has certified the fixed deposit balance as Rs. 230.10 crore.

The Institute did not include two Term Deposits for a total sum of Rs.21.62 lakh in its Annual financial statements.

Thus, the Term deposit account balance does not show a true and fair view of funds in these accounts.

**B.5 Difference in EEFC Accounts**

NITC is maintaining an EEFC Account for collection of fee in foreign exchange. As per Schedule 7, there was a balance of Rs. 24.89 lakh as on 31.03.2022. However, the bank has confirmed the balance as US \$ 5 only. The difference has not been reconciled. Thus, the balance shown in the accounts does not show a correct view of the funds available with the Institute.

**B.6 Current Assets and Loans, Advances & Deposits – General – (Schedule 7 & 8)**

Confirmation of following Debtors/Loans and advances has not been furnished.

- (i) Advance to CPWD on capital account Rs.603900468/- (Schedule 8). Details of all works-in-progress has also not been furnished.
- (ii) Electricity Deposit and interest accrued on it Rs.5693967/- & Rs.215573 respectively (Schedule 8).



- (iii) Debit balances in Sponsored Fellowships & Scholarships by officers concerned – Rs.886709/- (Schedule 8).
- (iv) Debit balances in Sponsored Projects by officers concerned – Rs.5391749/- (Schedule 8).

**B.7 Maintenance of accounts of Designated/Earmarked/Endowment funds –**

**(Schedule 2)**

As per Schedule 2 – Designated/Earmarked/Endowment funds, the closing balance is Rs.146.84 crore. But balance under Schedule 5– Investment from Earmarked/Endowment fund & Schedule 7- Current Assets is Rs.144.58 crore only. Difference between these two figures needs to be reconciled.

**B.8 Maintenance of Subsidiary Registers**

Various sections/wings of the Institute are maintaining subsidiary registers in respect of transactions relating to their sections/wings. Payment orders and demands are being initiated by these departments on the basis of these subsidiary registers. Test check of the subsidiary registers revealed that the figures in the subsidiary registers maintained by various wings/sections of the Institute do not tally with the figures incorporated in the relevant accounting records as given below:

- (i) As per accounts, balance amount available under QIP-Poly Grant from AICTE was Rs.72.24 lakh. But as per reply furnished by the Institute the balance available under this head was only Rs.1.45 lakh.
- (ii) The opening and closing balances of E-Grants (For Backward Castes) from Kerala Government were Rs.88,69,063.50 and Rs.57,18,843.50 as against actual bank balances of Rs.1,17,02,357/- & Rs.91,69,539/- respectively (A/c No.30846292747).

**B.9 Non-creation of provision for pension on actuarial valuation**

No provision has been created in the accounts in respect of pension liability on actuarial valuation basis (Schedule 15). In Schedule 23, it is reported that employees are covered by NPS. However employees joined prior to 01-04-2004 are not covered under NPS.

**B.10 Comments on GPF & CPF Accounts**

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 annexed along with Annual Accounts of the Institute. However, the Institute has included the GPF & CPF Accounts in Schedule 2A of the

Balance Sheet of Main Accounts for the year 2021-22. Another annual accounts of PF was prepared with entirely different figures. Though the Institute had agreed to rectify the mistakes during the audit of 2020-21 accounts, same was not complied with this year also.

#### **B.11 Comments on Accounts of Charitable Trust**

One Charitable Trust under the name of Calicut Regional Engineering College Silver Jubilee Endowment Trust with Chairman, Board of Governors, Regional Engineering College, Calicut and officers of this Institute as Trustees was formed in 1986. A disclosure on this has not been made in the Notes to Accounts (Schedule 24) under "Related Party Disclosures" as prescribed in MHRD guidelines.

#### **C. Grant-in-Aid**

The Institute received a grant-in-aid of Rs. 158 crore from the Government of India during 2021-22, which includes Rs.7.44 crore of Non-Recurring Grant (Grant in aid-Capital) and Rs.150.56 crore of Recurring Grant (Grant in aid-Salaries).

The unspent balance carried forward from previous year was Non-Recurring Grant of Rs.49.17 crore. Thus, the total fund available during 2021-22 was Rs.207.17 crore.

The Institute utilized an amount of Rs. 153.49 crore which comprised of non-recurring expenditure (capital) of Rs.8.63 crore and recurring expenditure of Rs.144.86 crore. An amount of Rs.5.70 crore was lapsed during the year.

Hence, the unspent balance as on 31-03-2022 was Rs.47.98 crore.

#### **D. Management Letter**

The deficiencies which have not been included in the Audit Report have been brought to the notice of National Institute of Technology, Calicut through a Management Letter issued separately for remedial/corrective action.

#### **E. Revision of Accounts**

The Institute revised the accounts on the basis of audit observations and resubmitted the revised accounts on 18.11.2022. The effect of revision was as under:

- (i) The "Sources of Funds" decreased by Rs. 53.68 lakh.
- (ii) The "Application of Funds" increased by Rs. 45.74 lakh.
- (iii) Income increased by Rs. 84.18 lakh
- (iv) Expenditure decreased by Rs. 15.24 lakh.

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 **gives a true and fair view** in conformity with 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 2022 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**



7.12.2022

**Principal Director of Audit (Central) Chennai**

**Place: Chennai**

**Date: 07 December 2022**

## 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 2021-22.

### 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, stationary etc. An amount of Rs.2690029/- was taken under Current Assets (schedule 7) in 2020-21 and 2021-22 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.

Further, subordinate officers are initiating journal entries without obtaining sanction of higher responsible officers. 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.

  
25/11/22  
Dy. Director (DT) II

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