

# **The National Institute of Engineering**

(An Autonomous Institution under Visvesvaraya Technological University, Belagavi)

• Recognised by AICTE, New Delhi • Grant-in-Aid by Government of Karnataka



ESTD : 1946

## **ANNUAL REPORT**

**2020-2021**

# **The National Institute of Engineering, Mysuru**

## **ANNUAL REPORT – 2020-2021**

### **Contents**

1. The Institute
2. Governance
3. Divisions and Departments
4. Academic Programmes
5. Centres of Excellence
6. Finance & Accounts
7. Admission Policies
8. Admissions
9. Examinations
10. Research Programmes
11. Research & Development
12. Incubation, Patents & Start Ups
13. Human Resources
14. Student Placements
15. Financial Assistance / Scholarships to Students
16. Library
17. Facilities / Amenities
18. Major Events of the Year

# **CHAPTER 1**

## **THE INSTITUTE**

### *1.1 Profile of the Institute*

The National Institute of Engineering was founded in 1946 by visionary Engineers - Sri S. Ramaswamy, Sri D. V. Narasimha Rao, and Sri T. Rama Rao - with the support of 13 other eminent persons. The first batch of 86 students attended classes in a rustic room with thatched roof in Lakshmipuram. Later, the classes were held in a temporary shed in Sharada Vilas High School campus. With the untiring efforts of the founders and philanthropists, in 1950, NIE had its own classrooms and workshops on a sprawling 6-acre plot. Also, it became the Second Engineering College in the State, and the First in Mysore; thereby earning the sobriquet, "The Pride of Mysore". Later, it was conferred the status of "Private-Aided Institution" under grant-in-aid code of the state government. NIE has come a long way in many respects. What has remained unchanged is the spirit to excel and equip its students with sound theoretical knowledge, practical exposure and confidence to rise up to any challenge. NIE is affiliated to Visvesvaraya Technological University. In 2007, NIE became an autonomous college in Karnataka. UGC has recommended extension of autonomy for another six years w.e.f. 2015-16. Five U.G. Programmes; Civil Engineering, Mechanical Engineering, Electronics & Communication Engineering, Electrical & Electronics Engineering, Industrial & Production Engineering and three P.G. Programmes Hydraulics Engineering, Production Engineering & System Technology and Structural Engineering has been granted accreditation by the National Board of Accreditation (NBA), New Delhi. In 2015, the intake of students for UG and PG programmes touched 1200. NIE offers Bachelor of Engineering (BE) in Civil Engineering, Mechanical Engineering, Electrical & Electronics Engineering, Electronics & Communication Engineering, Industrial & Production Engineering, Computer Science and Engineering, Information Science and Engineering. It offers 10 Master of Technology (M.Tech) programmes including Computer Applications in Industrial Drives, Industrial Automation & Robotics and Nano Technology and Master of Computer Applications (MCA). Over 100 scholars are currently pursuing Ph.D. It is noteworthy that NIE faculty has filed 15 patents so far. Additionally, NIE is one of the 31 engineering colleges in the country that has been selected for World Bank-MHRD's prestigious TEQIP grant. NIE has set up 15 'Centers of Excellence' in collaboration with major Indian companies and MNCs. These organizations also provide our

students, opportunities for internships. NIE faculty is highly qualified, with over 45% of them holding doctoral degrees. It has an incubation studio to handhold and lend support to budding entrepreneurs during the initial period of their start-up. NIE has undergone a significant metamorphosis in terms of infrastructure, with a state-of-the-art library, lecture theatre complex, girls' hostel, indoor sports complex and modern building for Electrical Sciences.

## ***1.2. Vision, Mission & Values***

### **Vision**

NIE will be a globally acknowledged institution providing value-based technological and scientific education through best-in-class talent.

### **Mission**

- To impart state-of-the-art engineering education through strong theoretical foundation and practical training to students in their choice of area of specialization.
- To create new knowledge through innovation and cutting-edge research in science and engineering.
- To provide a platform for inclusiveness and collaboration by following ethical and responsible engineering practices for long term interaction with academia and industry.
- To encourage entrepreneurship and to develop sustainable technologies for the benefit of global society.

### **Values**

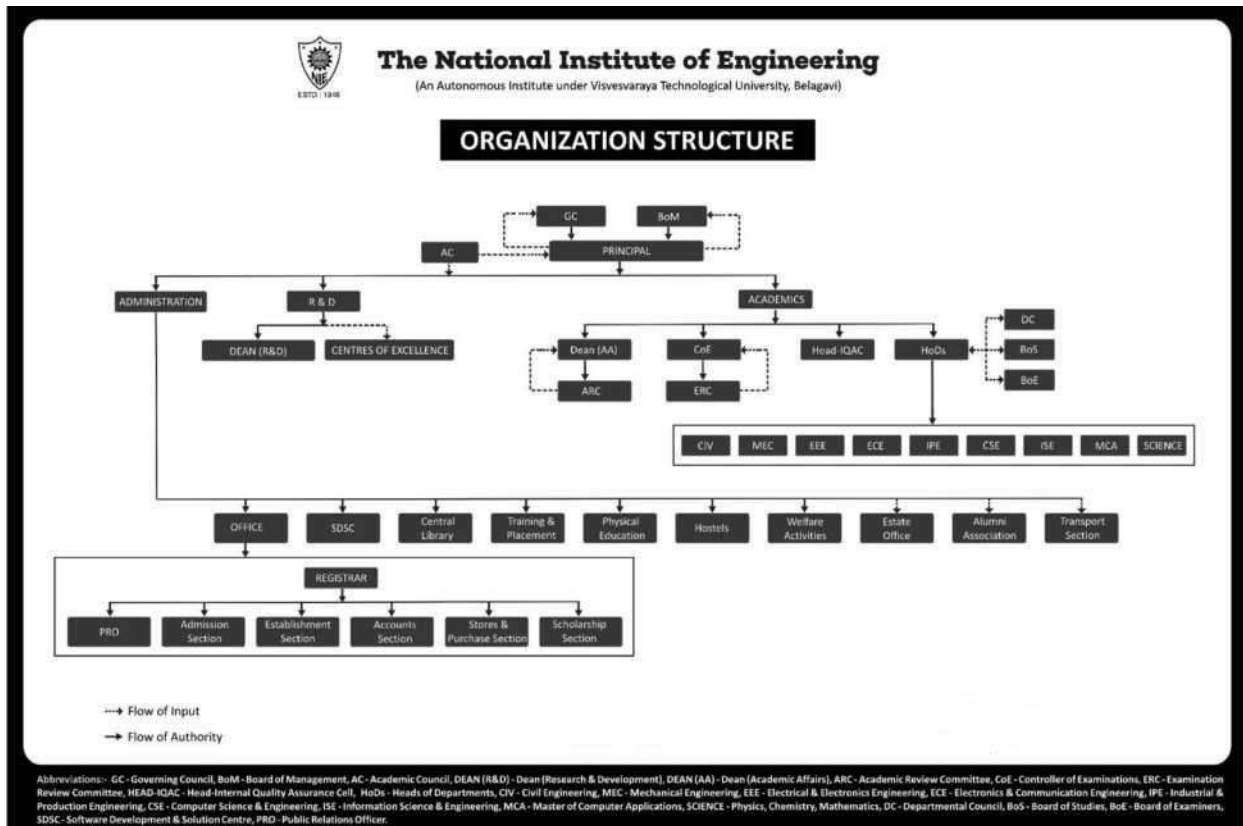
- Integrity and accountability
- Cooperation and collaboration
- Professionalism and dedication
- Intellectual excellence and innovation
- Social and moral responsibility

## ***1.3. Ranking***

NIRF Ranking 2021 - 196<sup>th</sup> top Engineering College in India.

## CHAPTER 2 GOVERNANCE

### 2.1. Organizational Structure



### 2.2 Officers of the Institute

Faculty	Leadership
Dr. N. V. Raghavendra	Principal
Dr. M. S. Ganeshprasad	Dean (Academic Affairs)
Dr. Shabana Sultana	Controller of Examinations
Dr. S Kuzhalvaimozhi	Head, Internal Quality Assurance Cell (IQAC)
Dr. K.Pushpalatha	Dean (Research & Development)
Dr. Arvindrao M. Yadwad	Dean (Students Welfare)
Dr. Shankar Nalinakshan	Deputy Dean (Academic Affairs)
Dr. S. Parameshwara	Deputy Controller of Examinations
Dr. Shailesh Rao A.	Deputy Dean (Research & Development)
Dr. K. C. Manjunath	Head, Department of Civil Engineering
Dr. B. Suresha	Head, Department of Mechanical Engineering
Dr. H. Pradeepa	Head, Department of Electrical & Electronics Engineering
Dr. Narasimha Kaulgud	Head, Department of Electronics & Communication Engineering

Dr. K. M. Subbaiah	Head, Department of Industrial & Production Engineering
Dr. V. K. Annapoorna	Head, Department of Computer Science & Engineering
Dr. P. Devaki	Head, Department of Information Science & Engineering
Mrs. N. Asha	Head, Department of Master of Computer Applications
Dr. S. Doreswamy	Head, Department of Physics
Dr. L. Sukanya Ravishankar	Head, Department of Chemistry
Dr.S.V. Roopa	Head, Department of Mathematics
Dr. Y. M. Manjunath	Warden, Boys' Hostel
Sumana K. R	Warden, Girls' Hostel
Ms. C. K. Vanamala	Coordinator, Cultural Activities
Dr. P.N.Chandramouli,	Coordinator, Evening College

### ***2.3 Administration***

Mr. Santosh	Chief Finance Officer
Mr. Y. S. Harish	Librarian
Mr. M. V. Rajendra	AAO
Mrs. Mani M.	Public Relation Officer
Mr. Harshith Diwakar	Head, Training & Placement Division

## CHAPTER 3

### DIVISIONS AND DEPARTMENTS

#### ***3.1 Divisions – Heads***

1. Civil Division
2. Mechanical Division
3. Electrical Science Division
4. Computer Science Division

#### **3.2 Departments**

##### ***3.2.1: Department of Civil Engineering***

Civil Engineering was first offered as a Diploma course and later, as a bachelor's degree post affiliation to the University of Mysore in 1950. Now, the department is affiliated to Visvesvaraya Technological University (VTU). Over the last three decades, the department which is part of one of the best engineering colleges in India, has received support from various agencies including the Ministry of Human Resource Development (MHRD), All India Council for Technical Education (AICTE) and University Grants Commission (UGC), under their funding schemes resulting in regular modernization of the laboratories. Recently, the department was granted patent for the inventions.

The department is committed to keeping up with industry standards. In line with this, the syllabus for the academic year 2021 - 2022 has been reviewed and revised by industry and academic experts. The department also has high placement statistics with 90% of the students getting placed in various leading companies such as ATKINS, L&T, Brigade Group, Vedanta Ltd., BMRCL, TCS Ltd., B L Kashyap & Sons, Sallarpuria Sattva Group and Sobha Developers.

#### **Vision**

The Department will be an internationally recognized centre for value-based learning, research and consultancy in Civil Engineering and will produce competent Civil Engineers having commitment to national development.

#### **Mission**

- To impart high quality Civil Engineering education through competent faculty and modern labs and facilities.
- To engage in R & D activities and to provide state-of-the-art consultancy services addressing Civil Engineering challenges of the society.

- To nurture social purpose in Civil Engineers through collaborations

### **Programmes Offered**

The Department of Civil Engineering offers both Undergraduate (UG) and Post-graduate programmes (PG) with a duration of 4 years and 2 years respectively.

- B.E. in Civil Engineering (UG)
- M.Tech. in Hydraulics Engineering (PG)
- M.Tech. in Structural Engineering (PG)
- M.Sc. (Engg.) by Research (PG)

**Doctoral Programme** – The Department is recognized as research center under Visvesvaraya Technological University (VTU) and All-India Council for Technical Education (AICTE) for Quality Improvement Program (QIP).

### **Facilities**

Of late, the department notched up its facilities via World Bank-aided Technical Education Quality Improvement Programme (TEQIP) to install state-of-the-art equipment and software in 13 laboratories. The Field Hydrological Laboratory has been set up in a remote area of the Western Ghats for field research and mountain hydrology.

The department provides consultancy services to external organization, including government, public sector bodies and industry associations such as South Western Railways (SWR), BARC, Indian Institute of Science (IISc), Bangalore, Infosys and Mysore City Corporation (MCC).

### **Laboratories**

Basic Material Testing Laboratory | Concrete Laboratory | Environmental Engineering Laboratory | Geotechnical Engineering Laboratory | CAD Laboratory | Survey Laboratory | Hydraulics Laboratory | Applied Engineering Geology Laboratory | Highway Engineering Laboratory | Structures Laboratory | Structural Dynamics Laboratory (PG Structural Engineering) | Structural Engineering Laboratory (PG Structural Engineering) | Field Hydrological Laboratory

### **Centres of Excellence**

- Building Fire Research Centre (BFRC)
- Water Resources Centre (WRC)

### **Student Chapters**

- Builders Association of India (BAI) | Shilpi wing

### **Faculty**

1. Dr. K.C. Manjunath, B.E., M.Tech., Ph.D., Professor & Head
2. Mr. T.H. Sadashiva Murthy, B.E., M.E., (Ph.D.), Associate Professor
3. Dr. Yusuf Javeed, B.E., M.Tech., M.E., M.E., Ph.D., Professor

4. Dr. P.N. Chandramouli, B.E., M.E., Ph.D., Professor
5. Dr. H.S. Prasanna, B.E., M.E.M., M.E., Ph.D., Professor
6. Dr. M.S. Ganesh Prasad, B.E., M.Tech., Ph.D., Professor & Vice-Principal
7. Dr. Y.M. Manjunath, B.E., M.Tech., Ph.D., Professor
8. Dr. K. Gourav, B.E., M.Sc. Engg., Ph.D., Assistant Professor
9. Mr. Madan Kumar L, B.E., M.Tech, Assistant Professor
10. Mrs. Hema H, B.E., M.Tech, Assistant Professor
11. Dr. N.C. Balaji, B.E., M.Sc. Engg., Ph.D., Associate Professor
12. Ms. M.S. Kanchana, B.E., M.S., Assistant Professor
13. Dr. Puneeth B. Kotagi, B.E., M.Tech., Ph.D., Assistant Professor
14. Dr. B. O. Naveen, B.E., M.Tech., Ph.D., Assistant Professor
15. Dr. Anand M.H, B.E., M.Tech., Ph.D., Assistant Professor
16. Mrs. R. Vedaprada, B.E., M.Tech., Assistant Professor
17. Mr. N. R. Vadiraja Rao, B.E., M.Tech., Assistant Professor
18. Dr. Chandan M.C, B.E., M.Tech., Ph.D., Assistant Professor
19. Dr. Abhishek A Pathak, B.E., M.Tech., Ph.D., Assistant Professor
20. Mrs. S. Srirashmi, B.E., M.Tech., Assistant Professor
21. Mrs. N. Roopa, B.E., M.Tech., Assistant Professor
22. Mrs. Shruthi A.N. , B.E., M.Tech., Assistant Professor
23. Mr. Avinash R, B.E., M.Tech., Assistant Professor
24. Mrs. Sumaraj, B.E., M.Tech., Assistant Professor
25. Ms. Pooja P K, B.E., M.Tech., Assistant Professor
26. Mr. Jayanth K, B.E., M.Tech., Assistant Professor
27. Mr. Sachin V, B.E., M.Tech., Assistant Professor
28. Mr. Pandu N S, B.E., M.Tech., Assistant Professor

### ***3.2.2 Department of Mechanical Engineering***

The department of Mechanical Engineering of NIE was established in the year 1958. The department offers 1 Under Graduate programme in Mechanical Engineering with an intake of 180 students. The core curriculum consists of basic courses related to Thermal Engineering, Design Engineering, Manufacturing Engineering, and Management streams. Also, the department has 14 well-equipped laboratories with highly qualified technical staff. In addition, to update the students with emerging technologies in industries, department has setup 6 Centres of Excellence in the fields of material science, design and simulation, renewable energy resources, automobiles, advanced machining, and robotics. The UG programme in Mechanical Engineering is accredited by National Board of Accreditation (NBA) up to June 2023.

The department also offers 3 Post Graduate programmes namely M.Tech in Machine Design, Industrial Automation and Robotics, and Nanotechnology since 2014. The department has been recognized as a research center by VTU and offers research programmes leading to Ph.D in Mechanical Engineering Sciences.

The department attracts talented students from all over Karnataka and India. The department has an energetic student body numbering around 792 and highly qualified and experienced faculty members numbering nearly 50. About 45% of the faculty members have received their doctoral degree from reputed universities in various disciplines of Mechanical Engineering. Faculty members have published more than 250 indexed research articles in the reputed international Journals and Conferences. In addition, nearly 7 patents have been published and 1 patent have been granted to the department.

The department is actively engaged in research activities in various research areas and has been funded by several Government organizations such as the Department of Science & Technology (DST), AICTE, UGC-DAE, and Vision Group on Science and Technology (VGST), Govt of Karnataka. The students of the department are members for various student chapters namely, Society of Automotive Engineers (SAE), Fluid Power Society of India (FPSI), Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE). Every year, department organizes an inter-college technical event “CogNIEscience” to showcase the student talent. Students have been consistently placed in different multi-national companies and industries all over India and abroad.

### **Vision**

The Department of Mechanical Engineering will mould globally competent engineers by imparting value-based technological education through contemporary infrastructure and best-in-class people.

### **Mission**

- Provide a strong foundation in Mechanical Engineering to make our engineers globally competitive.
- Inculcate creativity in developing solutions to Mechanical Engineering problems by adopting ethical and responsible engineering practices.
- Creating Centres of Excellence to provide students with opportunities to strengthen their leadership & entrepreneurial skills and research proficiency.
- Building relationships with globally acknowledged academic institutions and industries.

### **Programmes Offered**

B.E: Mechanical Engineering

M.Tech: Industrial Automation & Robotics, Machine Design, Nano Technology

M. Sc. (Engg) by Research

Doctoral Programme: Focused Research Areas: Advanced Material Characterization and Advanced Industrial Automation

Short Term Courses: Ready Engineer Program by Tata, CATIA, Hypermesh, CNC Programming and Operation of CNC Machine, Basic & Advanced Course on Automotive

Technology, Training on Computer Aided Design, Training on Automation Technology (CMM, FPS, Robotics).

### **Facilities**

The CAD / CAM Laboratory of Mechanical Engineering Department is equipped with latest computers and software such as Solidworks 2015, Mastercam 2017, Ansys R19.1, Abaqus 2017, Matlab 2017, Solidedge ST6. The Department has maintained a library having over 3000 books, journals, periodicals and DVDs.

### **Labs / Workshops**

CAD/CAM, Dynamics, Fuels & Lubricants, I.C. Engines, Heat Transfer, Nano Technology, Automation, CNC, Fitting Shop, Foundry, Machine Shop, Smithy, Welding Shop, Motor Sports Workshop, KUKA Robot Lab, Flexible Manufacturing System Lab, CMM Lab, Hydraulic and Pneumatic Lab/ PLC and SCADA Lab, Drives and Controls Lab, Aerodynamics Lab, Flow Visualization Lab

### **Centres of Excellence**

- Centre for Composite Materials Research (CMR)
- NIE-Eicher Centre for Automobile Technology (NECAT)
- CNC Training Centre (CNC-TC)
- Centre for Nano-Technology (CNT)
- Centre for Automation Technology (CAT)
- NIE-Siemens Technical Training Centre (NSTTC)

### **Student Chapters**

- Society of Automotive Engineers (SAE)
- Indian Society of Heating and Air conditioning Engineers (ISHRAE)
- Fluid Power Society of India (FPSI)
- Additive Manufacturing Society of India (ISMI)
- Indian Society of Technical Education (ISTE)
- Institution of Engineers (India) (IEI)

### **Student Clubs**

- Aero Tantrix
- Robotics
- Force Ikshvaku

## Faculty

1. Dr. B. Suresha, B.E., M.Tech., Ph.D., Professor & Head
2. Dr. N. V. Raghavendra, B.E., M.Tech., Ph.D., Professor & Principal
3. Dr. T. N. Shridhar, B.E., M.Tech., Ph.D., Professor
4. Dr. L. Krishnamurthy, B.E., M.Tech., Ph.D., Professor
5. Dr. M. V. Achutha, B.E., M.E.M., M.Tech., Ph.D., Professor
6. Dr. Arvind Rao M Yadwad, B.E., M.Tech., MBA, Ph.D., Professor
7. Mr. S. Shamsundar, B.E. , M.Sc., Associate Professor
8. Mr. Tajmul Pasha, B.E., M.Tech. Associate Professor
9. Mr. Ravikumar Beeranur, B.E., M.Tech., Assistant Professor
10. Dr. B. Hulagappa, B.E., M.Tech., Ph.D., Assistant Professor
11. Dr. K. K. Yogesh, B.E., M.Tech., Ph.D., Assistant Professor
12. Mr. J. Dharanish, B.E.,M.Tech., Assistant Professor
13. Mr. Bheemraj, B.E., M.Tech., Assistant Professor
14. Mr. Madaiah D. C., B.E., M.Tech., Assistant Professor
15. Dr. Anand A., B.E., M.Tech., Ph.D., Assistant Professor
16. Dr. K. R. Prakash, B.E., M.Tech., Ph.D., Professor
17. Dr. Siddhartha Joshi, M.Sc., Ph.D., Associate Professor
18. Dr. Imran M Jamadar, B.E., M.Tech., Ph.D., Associate Professor
19. Dr. Sharath Chandra N., B.E., M.Tech., Ph.D., Assistant Professor
20. Mr. Sunil S.R. Gaekwad, B.E., M.Tech., Assistant Professor
21. Mr. N.S Srikanth, B.E., M.Tech. , Assistant Professor
22. Mr. P. Srinag, B.E., M.Tech., Assistant Professor
23. Mr. Vikram Athreya V., B.E., M.Tech., Assistant Professor
24. Mrs. Aruna Mokhamatam, B.Tech., M.Tech., Assistant Professor
25. Mr. K. Chandrashekar, M.Sc., Assistant Professor
26. Mr. Madhusudhan R., M.Sc., Assistant Professor
27. Mr. Prithvi C., B.E., M.E., Assistant Professor
28. Mr. Prashanth Kumar Samal, B.Tech., M.E. , Assistant Professor
29. Dr. Mrinal K. R., B.E., M.Tech., Ph.D., Assistant Professor
30. Dr. Sathisha H. M., B.E., M.Tech. Ph.D., Assistant Professor
31. Mr. Vinod Kumar H. P., B.E, M.Tech., Assistant Professor
32. Dr. Harshavardhan B., B.E., M.Tech., Ph.D, Assistant Professor
33. Mr. Ravikiarn, B.E., M.Tech., Assistant Professor
34. Dr. Raghunandan S., B.E., M.Tech., Ph.D., Assistant Professor

35. Mr. Vaibhav S Deshpande, B.E., M.Tech., Assistant Professor
36. Dr. Akhil V. M., B.E., M.Tech., Ph.D., Assistant Professor
37. Dr. Tejjappanavara Raghavendra, B.E., M.Tech., Ph.D., Assistant Professor
38. Dr. Abhinaba Roy, B.E., M.Tech., Ph.D., Assistant Professor
39. Dr. Aravind S. L., B.E., M.Tech., Ph.D., Assistant Professor
40. Dr. Alan Sam, B.E., M.Tech., Ph.D., Assistant Professor
41. Dr. Sachin B., B.E., M.Tech., Ph.D., Assistant Professor
42. Mr. M. Rakesh, B.E., M.Tech., Assistant Professor
43. Mr. L. Bharath Raj, B.E., M.Tech., Assistant Professor
44. Mr. Deepak P., B.E., M.Tech., Assistant Professor
45. Mr. Ajay Anand, B.E., M.Tech., Assistant Professor
46. Mr. Sathish H. S., B.E., M.Tech., Assistant Professor
47. Mr. Shivaraj Dharenavar, B.E., M.Tech., Assistant Professor
48. Mrs. Sriraksha, B.E., M.Tech., Assistant Professor
49. Mr. Somashekar H.K., B.E., M.Tech., Assistant Professor

### ***3.2.3 Department of Electrical & Electronics Engineering***

The undergraduate programme in Electrical & Electronics Engineering was started in the year 1958. Subsequently, post-graduate programmes in Power Systems and Computer Applications in Industrial Drives were started in 1971 and 1996 respectively. The Department has highly qualified and experienced faculty members. It has produced 20 Ph.D.'s and 17 candidates are currently pursuing Ph.D. 2VGST-K-FIST Projects of GoK , 4 TEQIP-3 (NIE-CRD) and 1 DST-FIST projects are being carried out at the Department.

#### **Vision**

The department will be an internationally recognized centre of excellence imparting quality education in electrical engineering for the benefit of academia, industry and society at large.

#### **Mission**

- Impart quality education in electrical and electronics engineering through theory and its applications by dedicated and competent faculty.
- Nurture creative thinking and competence leading to innovation and technological growth in the overall ambit of electrical engineering.
- Strengthen industry-institute interaction to inculcate best engineering practices for sustainable development of the society.

## **Programmes Offered**

B.E: Electrical & Electronics Engineering

M.Tech: Power Systems, Computer Applications in Industrial Drives M.Sc. (Engg) by Research

Doctoral Programme: Focussed Research Areas: Power System Engineering, Control Systems, Industrial Electronics & Drives

## **Facilities**

The Department under TEQIP enhanced the facilities of the existing laboratories and set up a few state-of-the-art laboratories to meet the UG, PG and research needs. The Department has a Computer Centre with MATLAB, MiPower, DIgSILENT, P-Sim, PSPICE , AUTOCAD and ETAP Software packages for study and analysis of large Power and Power Electronics systems.

## **Laboratories**

Circuit Simulation and Measurements, Electrical Machines, Power Electronics, Electrical CAD, Control Systems, Microcontroller, Embedded Systems, Relay and High Voltage, Power System Simulation, Electric Drives, Power System Hardware Simulation, Industrial Controls Lab

## **Centre of Excellence**

- Centre for Energy Management & Test Systems for Electrical Apparatus (CEMATEA)

## **Student Chapters**

- Institution of Electrical & Electronics Engineering (IEEE)
- Indian Society for Technical Education (ISTE)
- Institution of Engineers (India) (IEI)
- NIE-IEEE-PES

## **Faculty**

1. Dr. H.Pradeepa , B.E., M.Tech., Ph.D , Associate Professor& Head
2. Dr.H.V.Saikumar , B.E., M.Tech., Ph.D. , Professor
3. Dr. Gurumurthy S R , B.E., M.Sc(Engg), Ph.D. Professor
4. Mrs. R. Radha, B.E. M.E. , Associate Professor
5. Dr. R.Chidanandappa , B.E. , M.E. , Ph.D., Associate Professor
6. Dr. Ananthapadmanabha B R , B.E., M.Tech., Ph.D., Associate Professor
7. Dr. Likith Kumar M V, B.E., M.Tech., Associate Professor
8. Dr. Shankar Nalinakshan, B.E. , M.E. , Ph.D., Associate Professor
9. Ms. SonaxiBhagawan Raikar, B.E., M.Tech., Assistant Professor
10. Dr. Jayasankar V N, B.Tech, M.Tech, Ph.D., Assistant Professor
11. Mr. Neeli Mallikarjuna , B.Tech, M.Tech. Assistant Professor
12. Dr. Gowrishankar S, B.E, M.E. Ph.D., Assistant Professor

13. Dr. Omkar S Powar ,B.E, M.Tech. Ph.D., Assistant Professor
14. Dr. Rohit K Mathew, B.Tech, M.Tech ,Ph.D., Assistant Professor
15. Dr. Mohanalakshmi J, B.E, M.Tech , Ph.D., Assistant Professor
16. Ms. Hema J, B.E, M.Tech., Assistant Professor
17. Mrs. Vidya L, B.E, M.Tech., Assistant Professor
18. Ms. Arshia Tabassum, B.E, M.Tech., Assistant Professor
19. Ms. Athulya M T, B.Tech, M.Tech. Assistant Professor
20. Mr. Lakith G, B.E, M.Tech., Assistant Professor
21. Ms. Nidya M V, B.Tech, M.Tech., Assistant Professor
22. Ms. Reshma P, B.E, M.Tech., Assistant Professor
23. Ms. Sandhya Rani N, B.E, M.Tech., Assistant Professor
24. Ms. Shree Harshitha H M, B.E, M.Tech. , Assistant Professor
25. Ms. Shwetha M, B.E. , M.Tech , Assistant Professor
26. Ms. Shilpashree M S, B.E, M.Tech, Assistant Professor
27. Ms. Saritha, B.E, M.Tech, Assistant Professor
28. Mrs. Shruthi, B.E, M.Tech., Assistant Professor

#### ***3.2.4 Department of Electronics & Communication Engineering***

In the year 1971, NIE started BE in Electronics and Communication Engineering. This programme emphasizes the basics of Electronics, Computers, Communication Engineering and Instrumentation. The Department is well equipped with modern laboratory facilities and good infrastructure.

#### **Vision**

Department of Electronics and Communication will be globally recognized that imparts high quality education and enables innovation, research and teamwork capabilities to students, whose graduates serve diverse needs of society.

#### **Mission**

- Design academic curricula and activities to produce competent Electronics graduates.
- Develop acumen to absorb emerging knowledge and to life-long learning.
- Provide group activities in the area of Electronics and Communication Engineering that enable innovation and teamwork.
- Interact with professional bodies and corporate in Electronics, Communication, IT sectors

## **Programmes Offered**

**B.E:** Electronics & Communication Engineering

**M.Tech:** Networking & Internet Engineering

**Doctoral Programme:** Focused Research Areas: Digital Signal & Image Processing, VLSI and Digital Communication & Radar

**Short Term Courses** on topics of current interest

## **Facilities**

The Department has adequate Linux and Windows based computing facilities with open source tools like Open CV, Open NLP, Open MP, Tina V10, NS-II, gns3, Scilab and Octave and licensed software like Matlab, Netsim, CodeComposer, Xilinx, and Altium Designer Software Tools etc. Modern equipment available in the Department includes Analog and Digital (storage) Oscilloscopes, various Analog, Digital and Power Electronics training boards, Microprocessor and Microcontroller board, ARM and FPGA prototyping boards. Digital and Analog Communication Modules, Antenna Microwave and Fiber Optic Trainers, Texas/Motorola DSP boards. Xilinx and Altera, VHDL Synthesis software package. Students extensively carry out projects on latest development boards like Altera DE-II, Atmel AVR 32, MSP430, Tiva-C, Omap, multicore DSP and ARM which exposes them to the state-of-the-art industry standards. The Department also has adequate library facility with 3000+ books.

## **Laboratories**

The department is well equipped with modern laboratory facilities and good infrastructure. The Department has eleven major laboratories namely: Analog Electronics Lab, Digital Electronics Lab, Communication Lab, Advanced Communication Lab, Microprocessors/Microcontroller Labs, Very Large-Scale Integration Lab, Internet of Things of Lab, Digital Signal Processing Lab, Advanced Signal Processing Lab, Programming Lab, and Power Electronics Lab.

## **Faculty**

1. Dr. Rohini Nagapadma, B.E., M.Tech. , Ph.D., Professor (Retired on 30 Nov 2020)
2. Dr. Narasimha Kaulgud, B.E., M.Tech., Ph.D., Professor & Head
3. Ms. K.V. Nagalakshmi, B.E., M.E., Associate Professor (Retired on 31 May 2021)
4. Mr. Ananad Srivatsa, B.E., M.S., Associate Professor
5. Dr. K. Roopa, B.E., M.Tech. Ph.D., Associate Professor
6. Dr. H. R. Shashidhara, B.E., M.Tech. Ph.D., Associate Professor
7. Mr. K. Rajaram, B.E., M.Tech. , Associate Professor

8. Dr. S. Parameshwara, B.E., M.Tech. Ph.D., Assistant Professor
9. Dr. C. Anjanappa, B.E., M.E. , Ph.D., Assistant Professor
10. Dr. Rajalekshmi Kishore, BE, M.Tech., Ph.D., Associate professor
11. Mr. M.K. Vishwanath, BE M.Tech., Assistant Professor
12. Dr. C. Nagaraju, B.E., M.Tech., Ph.D., Assistant Professor
13. Ms. S.S. Kavitha, B.E., M.Tech., Assistant Professor
14. Mr. S. Puneeth, B.E., M.Tech. Assistant Professor
15. Mr. Lokesh H.R., B.E., M.Tech., Assistant Professor
16. Mr. Pavan Kumar P. Bandoji, B.E., M.Tech., Assistant Professor
17. Ms. B. S. Sharmila, B.E., M.Tech. , Assistant Professor
18. Dr. Remya Jayachandran, B.Tech., M.Tech.,Ph.D., Assistant Professor
19. Dr. B. T. Vijay, B.E., M.Tech., Ph.D., Assistant Professor
20. Ms. M. S. Deepthi, B.E., M.Tech. Assistant Professor
21. Ms. R. Shruthi, B.E., M.Tech., Assistant Professor
22. Ms. Anupama B.C., B.E., M.Tech., Assistant Professor
23. Ms. Nadini S.P., B.E., M.Tech., Assistant Professor
24. Ms. Harini R., B.E., M.Tech., Assistant Professor
25. Ms. Mythri R., B.E., M.Tech., Assistant Professor

### ***3.2.5: Department of Industrial & Production Engineering***

B.E. in Industrial & Production Engineering was first started in 1981 in the Department of Mechanical Engineering. However, realising the importance of Production Engineering, a separate department was set up in 1985 with the primary objective of carrying out teaching and research in the broad areas of Production with specialization in Metal Cutting, Machine Tools, CAD-CAM, Robotics, Industrial Engineering, Management, Finance, Quality Control, Advanced Manufacturing Practices, Advanced Materials and their Characterisation. In 1987 M.Tech Production Engineering & System Technology (PEST) was started. B.E. (Industrial & Production Engineering) is accredited by NBA till June – 2020-2023.

#### **Vision**

To produce competent engineers possessing technical knowledge, professional ethics and research culture, catering to the needs of Industry and Society

## **Mission**

- Imparting students with enhanced knowledge in emerging technology having specific excellence in the areas of Production and Industrial Engineering.
- Collaborating with Industries for training, research and encouraging students to pursue higher education in Institutions of repute.
- Imbibing Professional ethics and to encourage entrepreneurship for inclusive growth.

## **Programmes Offered**

B.E: Industrial and Production Engineering

M.Tech: Production Engineering & System Technology

M.Sc. (Engg.) by Research

Doctoral Programme: Focused Research Areas: Manufacturing Engineering and Industrial Engineering

## **Facilities**

The Department has established many laboratories which cater to the needs of UG, PG students and research scholars. Students and research scholars from other institutions are also utilising these facilities.

## **Laboratories**

Industrial Engineering, Metrology, Machine Tool, CAD/CAM, Software Application, Composite Fabrication & Testing

## **Centre of Excellence**

Composite Material Fabrication and Testing Laboratory (CMFTL)

## **Student Chapters**

- Society of Automotive Engineers (SAE)
- Indian Society of Heating and Air conditioning Engineers (ISHRAE)
- Fluid Power Society of India (FPSI)
- Advanced Manufacturing Society of India (ISMI)
- Indian Society of Technical Education (ISTE)
- Institution of Engineers (India) (IEI)

## **Faculty**

1. Dr. K.M. Subbaiah, B.E., M.Tech., Ph.D., Professor & Head
2. Dr. H.N. Divakar, B.E. , M.Tech. (Mysore), Ph.D., Professor
3. Dr. Y.S. Varadarajan, B.E., M.Tech., Ph.D., Professor
4. Dr. M. Mohan Ram, B.E., M.Tech., Ph.D., Professor
5. Dr. A. Shailesh Rao, B.E., M.Tech. Ph.D., Associate Professor
6. Ms. S. N. Rashmi, B.E., M.Tech. , Assistant Professor
7. Mr. Santhosh Kumar, B.E., M.Tech. (Kuvempu), Assistant Professor
8. Ms. T. S. Nandini, B.E. , M.Sc. Engg., Assistant Professor
9. Ms. B. M. Latha, B.E. , M.Tech., Assistant Professor
10. Dr. Vadivel S. M., B.E., M.Tech. Ph.D., Assistant Professor
11. Mr. Deepak D.Adiga, B.E. , M.Tech., Assistant Professor
12. Mr. G. Maadhu., B.E. , M.Tech., Assistant Professor
13. Dr. Charitha M. Rao, B.E., M.Tech. Ph.D., Assistant Professor

### ***3.2.6: Department of Computer Science & Engineering***

The Department of Computer Science & Engineering was started in the year 1983 with BE programme. It has grown by leaps and bounds over the last three decades in terms of infrastructure, courses and faculty. The Department has received the World Bank grant under TEQIP which has been utilised for enhancing the facilities of the Department and also for the faculty development programmes. The Department has been recognized as centre for Research by VTU. The Department has produced 17 doctorates till now.

#### **Vision**

The department will offer, through best-in-class faculty and infrastructure, globally acceptable education in Computer Science and produce highly competent and value-based Computer Engineers.

#### **Mission**

- To evolve into an outstanding department contributing significantly to teaching, research and consultancy in computer science in an integrated manner.
- To develop start-of-the-art infrastructure and advanced computing facility in tune with requirement of industry and national projects.
- To promote innovation and entrepreneurship to enhance competence of graduates of computer science.

## **Programmes Offered**

B.E: Computer Science & Engineering

M.Tech: Information Technology

M.Sc. (Engg) by Research

Doctoral Programme: Focused Research Areas: Computer Systems and Intelligent Systems

## **Facilities**

The Department has 9 spacious computer centres with more than 200 latest computers and software. A campus-wide networking facility connects all the departments, hostels, office and golden jubilee block. 10 different servers including middle range servers are running on the LAN.

## **Laboratories**

Data Structures, Digital Electronics, OOPs with C++, Algorithms, Microprocessor & interfacing, Database, Computer Networks, Web Technologies & Applications, Digital Language, Cloud Computing.

## **Student Chapters**

- Computer Society of India (CSI)
- Association for Computing Machinery (ACM)
- Institution of Electrical & Electronics Engineering (IEEE)
- Indian Society of Technical Education (ISTE)
- Institution of Engineers (India) (IEI)
- Information Systems Security Association (ISSA)
- Google DSC
- Geeks for Geeks

## **Faculty**

1. Dr. V.K. Annapurna, B.E., M.Tech., Ph.D., Professor & Head
2. Dr. C. Vidya Raj, B.E., M.Tech., Ph.D. , Professor
3. Dr. H.D. Phaneendra, B.E., M.Tech., Ph.D., Professor
4. Dr. B.N. Yuvaraju, B.E., M.Tech., Ph.D., Professor
5. Mr. S. Lokesh, B.E., M.Tech, (Ph.D.), Associate Professor
6. Dr. Shabana Sultana, B.E., M.Tech, Ph.D., Professor & CoE
7. Dr. R. Anitha, B.E., M.Tech, Ph.D., Associate Professor
8. Dr. B.S.Jayasri, B.E., M.Tech., Ph.D., Professor

9. Dr. Shirirang Ambaji Kulkarni, B.E., M.Tech. Ph.D., Associate Professor
10. Dr. K.S. Rekha, B.E., M.Tech, Ph.D., Associate Professor
11. Dr. Abhinandan S P, B.E., M.Tech., Ph.D., Associate Professor
12. Mrs. B.R. Vatsala, B.E., M.Tech., (Ph.D.), Assistant Professor
13. Mrs. M.R. Rashmi, B.E., M.Tech., (Ph.D.), Assistant Professor
14. Mr. G. Ramesh, B.E., M.E(IISc), Assistant Professor
15. Ms. M.S. Padmini, BE, M.Tech., Assistant Professor
16. Mr. M.J. Yogesh, B.E., M.Tech., (Ph.D.), Assistant Professor
17. Mr. S. Suhas, B.E., M.Tech., (Ph.D.), Assistant Professor
18. Mr. Tojo Mathew, B.Tech., M.Tech., (Ph.D.), Assistant Professor
19. Mr. M. Narender, B.E., M.Tech., (Ph.D.), Assistant Professor
20. Ms. S. Ramya, B.E., M.Tech., Assistant Professor
21. Mr. Shashank S, B.E., M.Tech., (Ph.D.) (IISC), Assistant Professor
22. Ms. S. Nivedha, B.E., M.Tech., Assistant Professor
23. Ms. P. Nandini, B.E. , M.Tech., Assistant Professor
24. Ms. Priyanka R.V. , B.E., M.Tech., Assistant Professor
25. Ms.Poornima N., B.E., M.Tech., Assistant Professor
26. Ms. Sindhu Devaki, B.E., M.Tech., Assistant Professor
27. Ms. Usha Devi A., B.E., M.Tech., Assistant Professor
28. Ms. Hema Pandith, B.E., M.Tech., Assistant Professor

### ***3.2.7: Department of Information Science & Engineering***

The Department of Information Science & Engineering (ISE) established in 1999 with the B.E. Programme and M.Tech. (CNE) programme in the year 2012. The department provides state-of-the-art computational facilities and learning resources. The strength of the department has been in its diverse areas of research, with highly qualified and dedicated faculty members. Since its inception, the department has maintained a steady growth and played an important role in producing IT engineers who are serving in different organizations. The department is looking forward to work in the challenging academic environment with the industry participation in the form of MoUs with IBM, Nokia, Entilika, VSG Tech, etc.

#### **Vision**

The Department will provide quality and value-based education to produce innovative world-class computing engineers and will enhance quality research for the betterment of society

## **Mission**

- To Impart high quality training, education and competence in information science domain through best-in class faculty and facilities.
- To produce globally acceptable information science graduates who can contribute professionally to the industry and research activities by offering courses on emerging technologies.
- To provide platforms to work effectively and innovatively in multi-disciplinary domain

## **Programmes Offered:**

**B.E:** Information Science and Engineering

**M.Tech:** Computer Network Engineering

## **Laboratory**

1. 6 Software Laboratories: -, Analysis and Design of Algorithms, Network, Web Programming, Data Base Systems Lab, Object Oriented Programming, System Software, Operating System, Data Structure.
2. 1 Hardware Laboratory: Logic Design Lab, Microprocessor.
3. Research Laboratory

## **Student Club**

ONYX

## **Student Chapters**

- Computer Society of India (CSI)
- Institution of Electrical & Electronics Engineering (IEEE)

## **Faculty**

1. Dr. P Devaki, B.E., M.Tech., Ph.D., Professor & Head
2. Dr. K Raghuvver, B.E., M.E., Ph.D., Professor
3. Dr. S Kuzhalvai Mozhi, B.E., M.E., Ph.D., IQAC Head
4. Mr. Rampur Srinath, B.E., M.Tech., Associate Professor
5. Mr. C N Chinna Swamy, B.E., M.Tech., Associate Professor
6. Dr. Bhat Geetalaxmi Jairam, B.E., M.Tech., Ph.D., Associate Professor

7. Smt. C. K Vanamala, B.E., M.Tech., Associate Professor
8. Mr. B N Kiran, B.E., M.Tech., Assistant Professor
9. Ms. Prathibha, B.E., M.Tech., Assistant Professor
10. Smt. Prajakta M., B.E., M.Tech., Assistant Professor
11. Smt. B M Nandini, B.E., M.Tech., Assistant Professor
12. Mr. N Rajesh., B.E., M.Tech., Assistant Professor
13. Mr. Shashank D., B.E., M.Tech., Assistant Professor
14. Dr. John Paul C I, B.Tech, M.Tech, PhD., Assistant Professor
15. Mr. Pradeep Kumar H S., B.E., M.Tech., Assistant Professor
16. Mr. R. Suhas Bharadwaj ., B.E., M.Tech., Assistant Professor
17. Mr. Suhaas K P., B.E., M.Tech., Assistant Professor
18. Smt. Mayura D.Tapkire, B.E., M.Tech., Assistant Professor
19. Smt. Monika Nag K J., B.E., M.Tech., Assistant Professor
20. Smt. G N Shwetha, B.E., M.Tech, Assistant Professor
21. Smt. Shwetha S., B.E., M.Tech., Assistant Professor
22. Ms. Ashwini M, B.E., M.Tech., Assistant Professor
23. Ms. Padma M T, B.E., M.Tech., Assistant Professor

### ***3.2.8: Master of Computer Applications***

The Department was started in the year 1997. It has a policy of providing training and education related to industry trends and requirements. The Department nurtures the software skills in the budding software engineers through training programmes in high end technologies.

#### **Vision**

MCA will be an outstanding department contributing significantly to teaching, research and consultancy through well-equipped laboratories and well-trained staff to meet global challenges in the field of computer engineering and application.

#### ***Mission***

- Impart quality education and provide skills in Computer Application through best of practices.
- Produce graduates who can contribute professionally to society and widely as IT professionals or entrepreneurs.

#### **Programmes Offered**

Master of Computer Applications (M.C.A.)

## **Facilities**

The Department has 2 modern computer centers with high-end computers loaded with relevant softwares.

## **Laboratories**

M.C.A. Labs I and II

## **Student Club**

ONYX

## **Student Chapters**

- Computer Society of India (CSI)
- Association for Computing Machinery (ACM)
- Institution of Electrical & Electronics Engineering (IEEE)
- Indian Society of Technical Education (ISTE)
- Institution of Engineers (India) (IEI)
- Information Systems Security Association (ISSA)

## **Faculty**

1. Dr. Girish, B.E, M.Tech., Ph.D., Professor
2. Dr. N. Asha, B.E., M.Tech , Ph.D., Associate Professor & HOD
3. Mr. C. K. Sanjay Kumar, B.E., M.Tech., (Ph.D.), Assistant Professor
4. Ms. K.R. Sumana, B.E., M.Tech , (Ph.D.), Assistant Professor
5. Mr. G. S. Ananth, M.C.A., (Ph.D.), Assistant Professor
6. Ms. Vaishnavi, B.E., M.Tech., Assistant Professor
7. Ms. Madhu Nagaraj, B.E., M.Tech., Assistant Professor
8. Ms. Gouri S Kulkarni, B.E., M.Tech., Assistant Professor
9. Ms. Neethi M.V, B.E., MTech., (Ph.D.), Assistant Professor

### ***3.3.9: Department of Physics***

The Department has a well-equipped laboratory. Separate sections are maintained for optical, mechanical and electrical experiments. Low power He-N laser is available for diffraction experiments. Research Optical Bench is available for conducting interference experiments. Under AICTE NODROB scheme the Department has upgraded with the research level apparatus to study the electrical and thermal properties of materials. The Department is a recognised research centre of VTU/AICTE.

Focused Research Areas: Condensed Matter Physics

#### **Faculty**

1. Dr. S. Doreswamy, M.Sc., M.Phil., Ph.D., Professor & Head
2. Dr. M. V. Deepa Urs, M.Sc., Ph.D., Associate Professor
3. Dr. P. Parameswara, M.Sc., Ph.D., Assistant Professor
4. Dr. S. Neetha, M.Sc., Ph.D., Assistant professor
5. Dr. B. M. Shankaran, M.Sc., Ph.D. Assistant Professor
6. Dr. Chandra, M.Sc., Ph.D. Mysore, Assistant Professor

### ***3.3.10: Department of Chemistry***

The Department of Chemistry has facilities for conducting micro analytical work, chemical investigation of engineering materials including analysis of ores and alloys. The research interest of the faculty deals with theoretical aspects of electrochemistry, study of phase transitions in adsorbed systems, nano materials for solar cells, study of drugs and recent advances in Chemical biology, Reaction kinetics. The Department is a recognised research centre of VTU/AICTE.

Focused Research Areas: Advanced Functional materials & Polymer Chemistry, Synthetic Organic Chemistry & Reaction Kinetics

#### **Faculty**

1. Dr. L. Sukanya Ravishankar, M.Sc, Ph.D., Professor & Head
2. Dr. Ramdas Bhandarkar, M.Sc., Ph.D., Professor
3. Dr. K. Pushpalatha, M.Sc., Ph.D., Professor & Dean Research & Development
4. Dr. Lakshmi Ranganath, M.Sc. (Mysore), Ph.D. (Mysore), Assistant Professor
5. Dr. K. S. Nithin, M.Sc. (Mangalore), Ph.D. (VTU), Assistant Professor

6. Dr. M. A. Sangamesh, M.Sc. (Mysore), (Ph.D.), Assistant Professor
7. Mr. Shashidhar Bharadwaj S. M.Sc., Assistant Professor

### ***3.3.11: Department of Mathematics***

Department of Mathematics has experienced faculty members. comprising, a Professor, two Associate Professors and five Assistant Professors. One faculty member is doctorate degree holder and majority of the remaining faculty members are pursuing Ph.D. in the area of Number Theory, Graph Theory and Fluid Mechanics. Faculty members are involved in teaching B.E., M.Tech and MCA Courses.

Faculty:

1. Ms. S. V. Roopa, M.Sc. (Mysore), (Ph.D.), Associate Professor & Head
2. Dr. D. Mamtha, M.Sc. , Ph.D., Professor
3. Ms. R. Jyothi, M.Sc., Associate Professor
4. Dr. Shubha Nagaraj, M. Sc., Ph.D. Associate Professor
5. Dr. Shivaraj Kumar, M.Sc., Ph.D. Associate Professor
6. Ms. D. P. Pushpa, M.Sc., M.Phil., Assistant Professor
7. Ms. N. Krupa, M.Sc., Assistant Professor
8. Mr. N. S. Guruprasad, M.Sc., Assistant Professor
9. Mr. N. S. Darshan, M.Sc., Assistant Professor

### ***3.3.12: Department of Humanities***

The Institute is also providing addition academic inputs for enhancing the overall improvement of students' knowledge and skills in the following areas:

English Enhancement Course (EEC) and Soft Skills:

English is integrated with soft skills and taken a Communication skill. The course covers grammar and Listening, Speaking, Reading and Writing (LSRW) through challenging and competitive activities. English Enhancement Course is technology driven and methods of self and peer appraisal helps to improve and improvise. Grooming and body language is dealt deftly. Soft skills integrated in the course helps in developing self confidence to speak effectively, identify problems and analysis for probable solution, brainstorm for new ideas. The course is enjoyable and is learnt with humour and precision.

### Constitution of India and Professional Ethics:

The course helps to make students understand Indian Constitution and Professional Ethics that should be developed to enter the world of work. Ethical values like duties towards our motherland, sincerity to work and dedication are inculcated through the course.

### Environmental Studies:

The course is a unique effort to provide awareness about environmental issues from the perspective of social sciences, technology and education.

### Faculty:

1. Ms. Chitra Ramesh
2. Mr. H.P.Shivaswamy
3. Ms. Vijayalakshmi.K.Metrani

## CHAPTER 4

### ACADEMIC PROGRAMMES

#### *4.1 U.G. Programmes / Bachelor of Engineering (B.E.)*

<b>Programme</b>	<b>Year of Commencement</b>	<b>Intake (As on 2019-2020)</b>
Civil Engineering	1950	120
Mechanical Engineering	1958	180
Electrical & Electronics Engineering	1958	120
Electronics & Communication Engineering	1971	120
Industrial & Production Engineering	1981	60
Computer Science & Engineering	1983	120
Information Science & Engineering	1999	120

#### *4.2 P.G. Programmes Master of Technology (M.Tech.) & Master of Computer Applications (MCA)*

<b>Programme</b>	<b>Year of Commencement</b>	<b>Intake (As on 2020-2021)</b>
Power Systems	1971	18
Hydraulics Engineering	1971	18
Production Engineering System Technology	1987	12
Computer Applications in Industrial Drives	1996	18
Information Technology	2002	18
Industrial Automation & Robotics	2011	18
Structural Engineering	2012	18
Computer Network Engineering	2012	24
Nano-Technology	2014	24
Machine Design	2014	24
Networking and Internet Engineering	2018	18
Master of Computer Applications	1997	60

#### ***4.3 Doctoral (Ph.D.) / M.Sc. Engineering(by Research)***

<b>Programme</b>	<b>Year of Commencement</b>
Civil Engineering	1981
Mechanical Engineering	1987
Electrical & Electronics Engineering	1987
Industrial & Production Engineering	2000
Computer Science & Engineering	2000
Electronics & Communication Engineering	2012
Physics	2013
Chemistry	2013
Mathematics	2019
Nano Technology	2020

## CHAPTER 5

### CENTRES OF EXCELLENCE

#### *5.1 Centres of Excellence at the Institute Level*

##### **Centre for Renewable Energy & Sustainable Technologies (CREST)**

NIE-CREST is a leading Centre for development of renewable energy based efficient devices/systems and dissemination of system / products to the people in the region.

The objectives of the Centre are:

- To promote widespread use of renewable energy devices and systems
- To develop qualified personnel in the field of Renewable energy and Sustainable Technologies
- To design and develop renewable energy systems
- To provide students innovative projects and courses in the field of renewable energy technology
- To collaborate with overseas universities to work in the field of renewable energy and sustainable technologies
- To provide comprehensive and effective renewable energy solutions through project and consultancy services
- To work for the cause of society and for green and sustainable technologies

Collaborations/Activities

- a) Signed MoU for Water, Sanitation and Hygiene (WASH) Project-Innovation Hub for WASH and National Institution of Urban Affairs, Govt. of India and Mysore City Corporation
- b) Conducted a Do-It-Yourself Aerobic Composter workshop in February 2018 under TEQIP III with other faculty coordinators from other departments as an Induction Programme for First year undergraduate engineering students
- c) Inaugurated the 100Kg/day Kitchen Waste Biogas plant at NIE Boys Hostel
- d) Four Undergraduate students from Department of Electrical & Electronics Engineering participated in the two weeks winter study circle on "Developing Energy Management Applications for Microgrid" during December 17 - January 18 at University Wisconsin, Madison, USA
- e) A 2 Credit interdisciplinary elective Microgrid with "Microgrid with Renewable Energy Integration" for Mechanical Electrical & Electronics sixth semester students was undertaken as part of the ongoing project "Microgrids Partnership for Sustainable Global

Development" with University of Wisconsin, Madison, USA

- f) Bio fuel project funded by Karnataka State Bio fuel Development Board
- g) Student project on Biogas bottling, Electronically controlled solar thermal cooker and Micro grid in under progress
- h) NIE-CREST organised and participated in a number of awareness programmes and exhibitions mainly in Mysuru Open Street Winter Festival, AlvasNudisiriMoodbidriAdichunchanagiri Exhibition and awareness programmes at academic and government institutions and various apartment complexes in Mysuru.

### **Centre for Training in Advanced Technologies (CTAT)**

Established in 2014 with the following objectives:

- To bridge the gap between academia and industry providing "Hands on" practical applications of key technologies
- To provide world class training on cutting edge technologies across industry and business spectrum at an affordable cost to industries and corporate around Mysuru
- Has won world accolades from industry on the professional approach and effective delivery of training programmes.
- The centre offers various programmes across Civil, Mechanical, Electronics and management Science fields. Customers include L&T, Bosch, Triton, Soft Vision among others.
- The centre runs an award-winning programme with L&T enabling rural youth to excel in industries.

### **Unilog Centre for Entrepreneurship (UCE)**

- The Centre was established in association with Unilog Centre Solutions Pvt. Ltd., Mysuru in 2018. The centre promotes innovation among faculty and students besides offering funding and infrastructure for Entrepreneurs. The centre works on a 3 tier model.
- Innovation harvesting layer: The centre hosts multiple idea hackathons for faculty and students. A panel of industry experts and technologists kick the best ideas which get funding and mentors.
- Product Development layer: Ideas which graduate out of innovation layer get additional funding for prototype development. Besides, the centre also develops products for companies, institutions and hospitals. Centre offers infrastructure at subsidised cost for alumni and current students.

- Students who are promoted out of the Product development layer get exposure to accelerators and investors. This part is promoted by Sri AchuthaBachally, founder of Unilog Corp and offers funding and mentorship for Products coming out of the Product development layer.

### **Centre for Research & Consultancy (CRC)**

CRC was established in May 2000 to improve the Institute-Industry interaction and to provide need-based technology to existing industries. Since its inception, the Centre has completed over 150 major consultancy projects and 18000 minor projects and has carried out large number of testing work. Its clients include government and private organisations and individuals. The Centre has procured a number of equipment required for consultancy work. It has also contributed to seminars/workshops and research-oriented students' projects. The Centre has also extended financial assistance to establish other centres such as Centre for Renewable Energy & Sustainable Technology (CREST) and Centre for Energy management Testing Systems for Electrical Apparatus (CEMATEA).

### **Innovation & Entrepreneurship Development Centre (IEDC)**

IEDC was established in the year 2010 with the support of Department of Science & Technology, Govt. of India. The objective of IEDC is to develop an Entrepreneurship Eco-system and promote Innovation and Entrepreneurship in the student community. Over 50 innovative ideas were developed and supported by the Centre in the span of last 5 years and 17 patents have been applied. 13 of them were published.

New Age Incubation Network (NAIN) was established with the support of KBITS, Govt. of Karnataka Technology Innovations. Over 28 ideas have been supported till date and two students groups have incorporated in their companies. Also a Start-up Cell is established under TEQIP-III. The Cell is expected to provide assistance to student based Start-ups with information regarding company promotion, legal matters, financial assistance etc. A 'Maker Space' equipped with Mechanical/Electronics tools and equipment is established to facilitate student innovation and prototype development.

A Technology Business Incubator (TBI) has been established to support Start-ups. Currently there are 5 Start-ups founded by NIE alumni in the Incubator.

## **Software Development Solution Centre (SDSC)**

The objective of the Centre is to provide software support to the institution's needs. SDSC processes admission, hall ticket generation, examination results and online feedback from students. SDSC is in progress to bring the following Commercial Off the Shelf (COTS) Software or applications:

- Google Apps for Education and has been incorporated for NIE and all faculty and staff members are using them which helps NIE administration, management, staff and students to get their own e-mail ID with NIE domain
- Unlimited storage, on the fly creation of sites, interacting with students by teachers in the Classroom Applications and several other advantages
- Maintenance of Institute's data through NIE-SARAL., and ERP Solution
- Student details, Department and faculty details, student course regulations and grades that are calculated, CIE and Grades obtained in SEE, data for academic and Examination Sections.
- Student feedback, Course feedback, NBA feedback and Graduate Exit Suvey.

## ***5.2 Centres of Excellence at the Department Level***

### **Department of Civil Engineering**

#### **1. Building Fire Research Centre (BFRC)**

Since its inception in 2004, the Building Fire Research Centre (BFRC), an integral part of the Department has been conducting systematic research and training in the testing of materials, providing consultancy on fire safety, and imparting short- and long-term training programmes on building fire research. The Centre has received recognition nationally as one of the leading facilities for research and testing of its kind. According to MS Systems Schrodgers, Germany, the test and assessment reports of the Centre meet international standards and match the reports of international laboratories.

Consultancy services offered by BFRC:

- Fire resistance test of doors (As per IS 3614 (Part 2): 2021)
- Fire extinguishers tests (mechanical)
- Destructive and non-destructive testing of concrete
- Expert advice for repair and rehabilitation of fire-affected structures

#### **2. Water Resources Centre (WRC)**

The Department of Civil Engineering with supporting grants from the Ministry of Human Resource Development (MHRD) established the Water Resources Centre (WRC) in 1988 as part of the consultancy services offered by the University. The Centre was set up with the objective to conduct research in the fields of hydraulics and water resources and train students to undertake studies for real-world application.

The major areas in which the WRC provides consultancy services are:

- Hydrological design for Water resources development
- Flow measurement in canals and small streams
- Hydrological impacts of land development
- Rain water harvesting

The setting up of Experimental Watersheds in the Western Ghat, Field Hydrological Laboratory at Kodagu and the completion of Ground Water Studies in Mysore are some of the more notable projects of impact that took shape in this Centre.

## **Department of Mechanical Engineering**

### **1. CNC Training Centre (CNC-TC)**

The CNC Training Centre (CNC-TC), established through funding from TEQIP, has been conducting short term courses on the Programming & Operation of CNC Machines since 2008 with continual improvement in its curriculum. The Centre has completed its 40<sup>th</sup> and 41<sup>st</sup> batches of the short term course on Operation of CNC Machines. The Centre is now expanded its course curriculum to include two new modules, namely the Construction of Hydraulic & Pneumatic Circuits and the Programming and Operation of Anthropomorphic Robot.

The training programme utilized the facilities available at the Centre of Automation Technology. These modules increase the training duration from 18 sessions to 49 sessions. The trainees learn the fundamentals of programming & Operation of CNC Machines & Industrial Robots so that they are prepared for life in the industry. The module on Hydraulics & Pneumatics provides a foundation for the applications of fluid power in the real world. This move has strengthened the training prowess at the Department of Mechanical Engineering.

### **2. NIE-Eicher Centre for Automobile Technology (NECAT)**

NECAT, established in collaboration with Volvo-Eicher Commercial Vehicles Ltd. (VECV), a joint venture of Volvo & Eicher, provides top-notch training and education to students and faculty of Industrial/Vocational Training Institutes, Polytechnic Institutes and Engineering Colleges. NECAT also conducts training programmes for the industrial personnel and automobile mechanics and technicians.

The main objectives of the Centre are:

- To implement 'Eicher Technical Training Programme, a proprietary teaching and education programme in Automobile Engineering and Technology
- To familiarise students of Vocational Training Institutes, ITI, Diploma and Mechanics and Technicians in repair, maintenance and overhauling of commercial vehicles through

practical demonstration in the most scientific way

- To provide educational and research support to students and faculty of Engineering Colleges and Industry Personnel
- To give joint certification and to organise workshops/seminars/conventions and other academic programmes

### **3. Centre for Nano-Technology (CNT)**

The Centre for Nano-Technology (CNT) was established to carry out focused research on cutting edge areas in Nano-Science and nano-Technology. The Nano Mission, Department of Science & Technology, Govt. of India sanctioned financial grant of ₹ 186 lakhs for a research project titled "Characterization of Composite materials and Application of Nano-materials for Sustainable Energy". Vision Group of Science & Technology (VGST), Govt. of Karnataka has also sanctioned a research grant of ₹ 60 lakhs under Centre of Excellence in Science, Engineering & Medicine (CESEM) to carry out research on Development of CIGS based NanoMaterials for Photovoltaic. CNT is a multidisciplinary research centre, which has brought together Physical, Chemical and Mechanical Sciences.

The objectives of this centre are:

- Create infrastructure for research on fundamental aspects of Nano-Technology to students and teachers of Science and Engineering and promote application oriented R&D projects among students
- Provide effective education and training to students, researchers and professionals as part of human resources development
- Develop interdisciplinary research culture in Nano-Science, Engineering and Technology
- Share sophisticated facilities with other scientists and researchers in the region

Forge linkages and achieve synergy between the educational research institutions and industry to promote international collaborative research.

### **4. Centre for Automation Technology (CAT)**

The Centre for Automation Technology (CAT) was established with a vision of creating state-of-the-art facilities in Automation & Manufacturing Engineering with a total budget of 4 crores to support students, researchers and industries in the region. The facilities in this Centre include Rapid Prototyping, FMS, Sensors Lab, PLC, SCADA, Mechatronics Systems and Industrial Drives. Currently it is supporting PG students and Industrial Automation & Robotics, Computer Applications in Industrial Drives and Power Systems.

The Centre has received a fund of 1 crore from Department of Science & Technology, Govt. of India and 50 Lakhs from Karnataka Council for Technology Up gradation (KCTU), Govt. of Karnataka. In the year 2017 the Centre added Robotic Studio to support student projects and initiated projects on virtual lab to promote e-education.

## **5. Centre for Composite Materials Research (CCMR)**

CMR was established as the Composite Materials Research Laboratory in 2000 to pursue research and to provide education in the Department of Mechanical Engineering for UG, PG and research scholars in interdisciplinary field of materials science and technology. It was renamed as the Centre for Composite Materials Research (CCMR) in 2014.

This Centre has five inter-related technical objectives:

- Polymer composites nano and/or micro fibre reinforcements with emphasis on structural components, bearings, sliding components in manufacturing and automobiles and biomedical applications
- Advance manufacturing processes to reduce cost and energy usage
- Enhanced performance and durability of components ND STRUCTURES
- Development and evaluation of functional / hybrid / bio-friendly polymer based composites with fire retarded and good load bearing attributes
- Design of reliable composite systems and components development using natural renewable sources, incorporating waste materials such as fly ash, wood flour, in composite components and processes.

## **Department of Electrical & Electronics Engineering**

### **1. Centre for Energy Management & Testing System for Electrical Apparatus (CEMATEA):**

CEMATEA has a testing centre for electrical apparatus authorized by the Electrical Inspectorate, Govt. of Karnataka. It renders consultancy service to electrical consumers for a better and safer quality of electrical installations in and around Mysuru city. It carries out energy audit of industries and other organizations and recommends energy conservation measures and provides a forum for interaction between the various organizations associated in promoting energy conservation and safer and efficient electrical installations. This is the only Centre established by an Engineering Institution authorized by Electrical Inspectorate, Govt. of Karnataka.

## **Department of Industrial & Production Engineering**

### **1. Composite Material Fabrication and Testing Laboratory (CMFT)**

The CMFT laboratory has been established with the main objective to inculcate research culture among the faculty and students. The laboratory has been equipped with machines which are helpful in characterizing the mechanical and tribological characteristics of polymer matrix composites, metal matrix composites as well as the ceramic coating placed on a steel substrate

## **Department of Computer Science & Engineering**

### **1. Simulation, Machine Intelligence & Learning Laboratory (SMILE)**

IBM and OpenPOWER centre of Excellence in Artificial Intelligence and Cloud called “SMILE” (Simulation, Machine Intelligence and LEarning) lab was established in year 2019. The Institute has collaborated with ‘IBM’, a multinational technology company, to develop ‘IBM Centre of Excellence’ (COE).

AI lab consists of a state-of-the-art IBM Power system AC922 with GPUs and Intel i7 based desktops. IBM Power System AC922 delivers unparalleled performance for analytics, artificial intelligence (AI), and modern High-Performance Computer (HiPC). The Power AC922 belongs to the POWER9 family. The world’s fastest current supercomputer Summit is built using IBM AC922 nodes. The main aim of this lab is to provide research scholars, UG and PG students to do their projects and research work in interdisciplinary field of Artificial Intelligence.

# CHAPTER 6

## FINANCE & ACCOUNTS

### NATIONAL INSTITUTE OF ENGINEERING , MYSURU COLLEGE CONSOLIDATED

BALANCE SHEET AS AT MARCH 31, 2021

SOURCES OF FUNDS	SCH	(In Rupees)	
		<u>31 MARCH, 2021</u>	<u>31 MARCH, 2020</u>
Capital Fund	1	61,67,20,742	54,66,88,457
Endowment Funds	2	48,55,984	48,56,960
Other Fund	3	24,21,32,628	25,66,76,013
<b>TOTAL FUND EMPLOYED</b>		<b>86,37,09,354</b>	<b>80,82,21,429</b>
<b>APPLICATION OF FUNDS</b>			
PROPERTY, PLANT & EQUIPMENTS	4		
Net Block		40,29,18,171	41,15,06,682
<b>CURRENT ASSETS, LOANS AND ADVANCES</b>			
Account Receivable	5a	8,32,99,129	6,07,56,278
Cash and Bank Balance	5b	1,80,09,919	6,89,36,517
Other Current Assets	5c	13,04,861	16,40,623
Loans and Advances	5d	14,27,856	37,45,946
Intra-Organisation	5e	48,28,87,908	38,69,33,950
		58,69,29,673	52,20,13,314
Less: Current Liabilities and Provisions	6	12,61,38,490	12,52,98,567
<b>NET CURRENT ASSETS</b>		<b>46,07,91,183</b>	<b>39,67,14,747</b>
<b>TOTAL ASSETS (NET)</b>		<b>86,37,09,354</b>	<b>80,82,21,429</b>

As per our attached report of even date

For RAU & NATHAN

Chartered Accountants

Firm Registration # 003178S

Narayana moorthy Vaidyanathan

Partner

Membership # 022573

Place: Mysuru

Date: 10-11-2021



For National Institute of Engineering

PRINCIPAL  
The National Institute of Engineering  
MYSURU-570008

**NATIONAL INSTITUTE OF ENGINEERING , MYSURU  
COLLEGE CONSOLIDATED**

**INCOME AND EXPENDITURE ACCOUNT  
FOR THE YEAR ENDED MARCH 31, 2021**

		(In Rupees)	
OPERATING RECEIPTS	SCH	<u>31 MARCH, 2021</u>	<u>31 MARCH, 2020</u>
Tuition and Other Fees	7	30,70,28,081	26,72,30,391
Salary Grants	8	15,09,28,411	12,38,23,238
Interest Income	9	5,09,660	7,34,484
Grants from Teqip III	10	70,21,224	2,65,73,976
Research Grants	11	18,17,879	40,67,216
Consultancy Services	12	1,35,21,468	1,00,45,161
Miscellaneous Income	13	1,95,55,598	2,71,80,604
<b>TOTAL OPERATING RECEIPTS</b>		<b><u>50,03,82,321</u></b>	<b><u>45,96,55,070</u></b>
 <b>OPERATING EXPENSES</b>			
Staff Compensation	14	35,52,98,471	32,09,79,331
Academic Expenses	15	1,51,86,128	2,49,70,047
Utilities and Services	16	2,21,10,622	2,68,47,073
Office and General Expenses	17	44,67,484	75,51,675
Teqip Phase III Expenses	18	70,33,766	2,64,44,467
Consultancy Expenses	19	70,37,954	1,17,70,622
<b>TOTAL OPERATING EXPENSES</b>		<b><u>41,11,34,424</u></b>	<b><u>41,85,63,215</u></b>
<b>OPERATING SURPLUS/(DEFICIT)</b>		<b><u>8,92,47,897</u></b>	<b><u>4,10,91,855</u></b>
(Transferred to NIE Society)			
Depreciation	20	2,40,17,268	2,70,78,758
Provision for Gratuity	21	(48,01,657)	-
<b>Surplus/(Deficit)</b>		<b><u>7,00,32,285</u></b>	<b><u>1,40,13,097</u></b>

As per our attached report of even date

For RAU & NATHAN

Chartered Accountants

Firm Registration # 003178S

*Narayanamoorthy Vaidyanathan*  
Narayanamoorthy Vaidyanathan

Partner

Membership # 022573

Place: Mysuru

Date: 10-11-2021



For National Institute of Engineering

*[Signature]*  
Principal  
The National Institute of Engineering  
MYSURU-570008

**NATIONAL INSTITUTE OF ENGINEERING COLLEGE CONSOLIDATED  
SCHEDULES TO BALANCE SHEET AS AT MARCH 31, 2021**

(In Rupees)

	<u>31 MARCH, 2021</u>	<u>31 MARCH, 2020</u>
<b>SCHEDULE 1</b>		
<b>CAPITAL FUND</b>		
Capital Fund	54,66,88,457	52,43,03,874
Add: Surplus/(Deficit) during the year	7,00,32,285	1,40,13,097
Add : Transfer from Gratuity	-	83,71,486
	<b>61,67,20,742</b>	<b>54,66,88,457</b>
 <b>SCHEDULE 2</b>		
<b>ENDOWMENT FUNDS</b>		
Poor Student Aid Fund	4,59,147	4,60,122
Student Aid Fund	1,43,071	1,43,071
Scholarship Fund	42,53,767	42,53,767
	<b>48,55,984</b>	<b>48,56,960</b>
 <b>SCHEDULE 3</b>		
<b>OTHER FUNDS</b>		
Capital Grant Fund	22,48,56,953	23,94,00,338
Capitation and Development Fund	92,76,342	92,76,342
Building Fund -T & P	20,000	20,000
Digital Library Fund - Elearning	5,00,000	5,00,000
Elearning Centre Fund	12,50,000	12,50,000
Infosys Foundation - Library Books	15,00,000	15,00,000
Library Development Fund	36,27,700	36,27,700
Management Scholarship account	7,97,073	7,97,073
VTU Grants - Library Book	3,04,560	3,04,560
	<b>24,21,32,628</b>	<b>25,66,76,013</b>
 <b>SCHEDULE 5</b>		
<b>CURRENT ASSETS, LOANS AND ADVANCES</b>		
<b>a: Accounts Receivable</b>		
Receivable General	2,322	2,22,566
Grants Receivable	4,16,80,123	3,84,57,852
Receivable from TEQIP	8,42,021	1,37,718
Fee Receivable	4,03,06,445	2,15,68,696
Consultancy charges receivable	3,09,097	2,16,654
Sundry Debtors	1,59,120	1,52,791
	<b>8,32,99,129</b>	<b>6,07,56,278</b>



**NATIONAL INSTITUTE OF ENGINEERING COLLEGE CONSOLIDATED  
SCHEDULES TO BALANCE SHEET AS AT MARCH 31, 2021**

	(In Rupees)	
	<u>31 MARCH, 2021</u>	<u>31 MARCH, 2020</u>
<b>b: Cash and Bank Balances</b>		
Cash in Hand	4,080	30,000
Canara Bank CA 101-34	5,54,882	12,36,133
Canara Bank SB 201-12230	4,94,450	82,08,378
Canara Bank CA 101-20	76,83,388	3,64,97,311
Canara Bank SB 201-69781	-	54,081
Canara Bank SB 201-35291	9,34,317	7,96,041
Canara Bank SB 201-12318	-	12,17,868
Canara Bank SB 201-69796	2,31,377	5,05,226
Canara Bank SB 201-60057	14,99,818	14,64,763
Canara Bank SB 201-78706	2,132	2,081
Canara Bank SB 221-34845	12,60,060	13,27,390
SBI Mysuru- SB 64050205694	3,58,586	1,39,01,320
Canara Bank SB 201-59287	-	2,029
Canara Bank SB 201-105049	1,32,616	4,85,241
Canara Bank SB 201-15651	1,125	1,098
Canara Bank SB 201-52395	3,63,342	78,194
Canara Bank SB 201-60394	-	20,447
HDFC Bank SB 50100243056071	44,89,745	31,08,916
	<b>1,80,09,919</b>	<b>6,89,36,517</b>
<b>c: Other Current Assets:</b>		
Telephone Deposit	36,531	36,531
Electricity Deposit	8,38,520	8,38,520
Gas Deposits	3,45,806	6,90,112
Other Utility Deposits	25,320	25,320
Security Deposit	50,000	50,000
Receivable: TDS	8,684	140
	<b>13,04,861</b>	<b>16,40,623</b>
<b>d: Loans and Advances</b>		
Advances-Staff	-	6,22,302
Festival Advance	41,311	41,311
Advance General	13,86,545	29,27,832
Loans & Advances - Teqip	-	1,54,501
	<b>14,27,856</b>	<b>37,45,946</b>
<b>e: Intra Organisation</b>		
NIE Society	48,45,64,400	38,08,03,639
NIE Hostel	(11,64,682)	58,27,833
NIE Unaided courses	5,89,89,640	5,08,08,674
NIE Aided courses	(5,89,89,640)	(5,08,08,674)
NIE FGC	9,11,018	36,876
NIE ITI	(14,22,828)	2,65,602
	<b>48,28,87,908</b>	<b>38,69,33,950</b>



**NATIONAL INSTITUTE OF ENGINEERING COLLEGE CONSOLIDATED  
SCHEDULES TO BALANCE SHEET AS AT MARCH 31, 2021**

(In Rupees)

**SCHEDULE 6**

**CURRENT LIABILITIES**

**A: Account Payable**

	<u>31 MARCH, 2021</u>	<u>31 MARCH, 2020</u>
Payable General	25,88,828	1,52,07,157
Fee received in advance	50,23,451	14,00,038
Retention Money	9,81,726	9,22,050
Research Grants	50,72,135	44,57,896
TDS Payable	62,47,408	35,27,452
Postal Revenue Stamp	-	7,161
Sundry Creditors	1,38,54,059	46,60,307
Payroll Clearance	-	2,18,635
Accrued Expenses	40,600	25,64,672
Scholarship	67,12,218	3,59,08,824
Fees payable to VTU	1,22,12,905	1,05,31,658
Youth Red Cross Unit NIE	-	4,49,180
GST Payable	3,70,198	1,61,793
Professional Tax payable	77,600	81,400
ESI Payable	38,466	51,385
LIC Payable	6,92,635	9,63,881
PF payable	14,36,230	14,52,495
Family benefit Fund	-	1,070
Employee Deduction - Loan	34,172	-
	<u>5,53,82,631</u>	<u>8,25,67,053</u>

**b: Deposits Refundable**

Library and Lab Deposit:	15,51,000	12,69,250
Utility Deposit	31,500	31,500
SC/ST Book Bank membership fee	-	250
	<u>15,82,500</u>	<u>13,01,000</u>

**c: Payable to Other institutions**

NIE Foundation	2,69,28,544	2,58,122
NIE IT	59,91,663	(2,22,876)
Yuvika	(4,23,547)	(1,58,088)
	<u>3,24,96,660</u>	<u>(1,22,842)</u>

**d: Provision**

Provision for Gratuity	3,66,76,699	4,15,53,356
------------------------	-------------	-------------

	<u>3,66,76,699</u>	<u>4,15,53,356</u>
<b>Total Current Liabilities and Provisions</b>	<u>12,61,38,490</u>	<u>12,52,98,567</u>



**NATIONAL INSTITUTE OF ENGINEERING COLLEGE CONSOLIDATED  
SCHEDULES TO INCOME AND EXPENDITURE ACCOUNT  
FOR THE YEAR ENDED MARCH 31, 2021**

	(In Rupees)	
	<u>31 MARCH, 2021</u>	<u>31 MARCH, 2020</u>
<b>SCHEDULES 7</b>		
<b>TUITION AND OTHER FEES</b>		
Tuition/Other Fees	24,49,65,065	21,97,21,231
PhD/MSC Engg.Fees	-	9,93,500
Admission Fee	-	1,15,100
Examination fee	15,33,800	18,62,400
Lab. Fee	-	6,60,000
Medical Examination Fee	-	76,660
Student Facilitation Fees	5,96,99,215	4,22,02,500
Sports Fee	-	2,91,600
Magazine Fee	-	95,800
Association Fees	-	1,91,600
Summer term fee	8,30,001	10,20,000
	<u>30,70,28,081</u>	<u>26,72,30,391</u>
 <b>SCHEDULES 8</b>		
<b>SALARY GRANTS</b>		
Grants DTE	15,09,28,411	12,38,23,238
	<u>15,09,28,411</u>	<u>12,38,23,238</u>
 <b>SCHEDULES 9</b>		
<b>INTEREST INCOME</b>		
Interest from Savings Banks	4,44,722	6,72,048
Interest on SBI Sweep	-	41,960
Interest Others	64,939	20,476
	<u>5,09,660</u>	<u>7,34,484</u>
 <b>SCHEDULES 10</b>		
<b>TEQIP RECEIPTS</b>		
Receipts from TEQIP III	70,21,224	2,65,73,976
	<u>70,21,224</u>	<u>2,65,73,976</u>
 <b>SCHEDULES 11</b>		
<b>RESEARCH GRANTS</b>		
Research Grants	18,17,879	40,67,216
	<u>18,17,879</u>	<u>40,67,216</u>
 <b>SCHEDULES 12</b>		
<b>INCOME FROM CONSULTANCY SERVICES</b>		
Consultancy Services	1,35,21,468	93,86,431
CWSH Income	-	6,58,730
	<u>1,35,21,468</u>	<u>1,00,45,161</u>



**NATIONAL INSTITUTE OF ENGINEERING COLLEGE CONSOLIDATED  
SCHEDULES TO INCOME AND EXPENDITURE ACCOUNT  
FOR THE YEAR ENDED MARCH 31, 2021**

(In Rupees)

	<u>31 MARCH, 2021</u>	<u>31 MARCH, 2020</u>
<b>SCHEDULES 13</b>		
<b>MISCELLANEOUS INCOME</b>		
Application fee	-	3,46,719
Adm Date Entry and Processing Fees	-	1,57,000
Registration Fee	-	8,47,800
Registration fee TEQIP Courses	-	1,52,021
Short term courses	-	3,500
Fitness centre membership fee	99,000	1,88,500
Sale of Used items	2,69,187	1,19,960
Duplicate marks/ID card fee	-	1,12,656
Hand book	-	1,78,050
Conference/Workshop/Symposium	-	8,050
Miscellaneous Income	4,85,731	61,311
ID card Fee	20,600	76,645
Transfer from Capital Grant	1,60,01,003	1,85,90,489
Fine	18,521	4,48,256
Plagiarism test fee	-	1,95,620
Sponsorship	5,000	23,475
Women Cell Fees	-	10,500
Certificate Fee	1,65,000	4,39,454
Transcripts	4,48,550	6,11,540
Registration Fee	-	12,26,700
Reading room fees	-	95,800
Campus facilitation Charges	27,006	3,13,861
Excess/ Short Provision of Earlier years	-	2,60,797
Contribution from Students	20,16,000	27,11,900
	<b><u>1,95,55,598</u></b>	<b><u>2,71,80,604</u></b>

**SCHEDULES 14**

**STAFF COMPENSATION**

**Establishment Charges**

Establishment Charges - Aided	17,75,33,448	14,55,37,919
Establishment Charges - Unaided	17,06,12,097	16,71,16,940
Contribution to Employees Provident Fund	62,81,999	66,18,376
EPF Administrative charges	5,48,794	5,53,208
ESIC Matching	3,22,133	3,29,957
Health Insurance	-	6,72,931
Incentives - Phd holders	-	1,50,000
	<b><u>35,52,98,471</u></b>	<b><u>32,09,79,331</u></b>



**NATIONAL INSTITUTE OF ENGINEERING COLLEGE CONSOLIDATED  
SCHEDULES TO INCOME AND EXPENDITURE ACCOUNT  
FOR THE YEAR ENDED MARCH 31, 2021**

	(In Rupees)	
	<b>31 MARCH, 2021</b>	<b>31 MARCH, 2020</b>
<b>SCHEDULE 15</b>		
<b>ACADEMIC EXPENSES</b>		
Consumables-Laboratory	6,41,620	18,96,258
Sports and Games	32,396	11,06,856
Convocation Expenses	17,28,105	12,36,743
Student Development Programmes	1,80,751	6,60,313
Student Facilitation Expenses	-	2,94,756
Health Care Expenses	3,86,951	2,66,148
Curriculum/Faculty Development	1,92,812	1,21,691
Affiliation/Membership	18,14,032	11,62,000
Consolidated Project Expenses	16,34,953	35,03,427
Meeting Expenses- academic	6,69,329	15,17,748
Examination Expenses	47,50,349	81,90,231
Research Expenses	11,45,601	7,08,917
Scholarship/Stipend	-	5,82,055
NSS Programme	-	8,273
Reading room Expenses	-	50,081
Hand Book	-	3,03,775
Function Expenses	1,59,602	6,25,739
Guest Lecture	5,15,207	8,67,750
Short term courses/Training Programmes	-	1,22,500
Technicks Expenses	-	10,40,336
Library Journals	5,96,921	7,04,450
Placement Services	7,18,052	-
Staff Welfare Expenses	15,670	-
College Magazine	3,777	-
	<b>1,51,86,128</b>	<b>2,49,70,047</b>

**SCHEDULE 16  
UTILITIES AND SERVICES**

Electricity/Generator Charges	33,67,737	51,49,604
Water Charges	97,115	21,143
<b>Repairs and Maintenance:</b>		
Building	34,46,587	68,82,571
Equipment	5,52,084	5,49,807
Estate and Grounds	18,29,095	13,17,716
Electrical	12,98,925	74,773
General	2,66,494	8,97,920
Vehicles	5,24,904	4,18,722
Generator	2,46,157	4,66,517
Computers	5,17,386	92,598
Software (AMC)	14,35,741	7,12,006
Internet Charges	9,05,060	14,12,228
Security Charges	41,20,521	44,44,459
House Keeping Charges	35,02,816	44,07,009
	<b>2,21,10,622</b>	<b>2,68,47,073</b>



**NATIONAL INSTITUTE OF ENGINEERING COLLEGE CONSOLIDATED  
SCHEDULES TO INCOME AND EXPENDITURE ACCOUNT  
FOR THE YEAR ENDED MARCH 31, 2021**

	(In Rupees)	
	<b>31 MARCH, 2021</b>	<b>31 MARCH, 2020</b>
<b>SCHEDULE 17</b>		
<b>OFFICE AND GENERAL EXPENSES</b>		
Bank Charges	10,538	5,98,822
Hospitality/Guest Entertainment	2,54,325	5,07,583
Flag Expenses	-	22,630
Printing & Stationery	9,38,789	21,30,885
Postage/Courier	22,137	61,693
Telephone	81,120	75,300
Advertisement/Publicity	7,81,129	13,61,819
Professional Service Fees	1,49,472	2,26,278
Membership Fee	-	43,260
NBA Expenses	-	1,23,806
Legal fees/Expenses	1,84,900	2,25,550
Miscellaneous Expenses	5,144	1,82,090
Rent, Rates & Taxes	5,77,934	2,80,313
GST	7,72,965	2,51,741
Travel : General	1,77,404	2,91,701
Office Staff Salary	-	1,02,204
Excess / Short Provision of earlier years	-	10,66,000
Website Designing Expenses	5,11,627	-
	<b>44,67,484</b>	<b>75,51,675</b>
 <b>SCHEDULE 18</b>		
<b>TEQIP III EXPENSES</b>		
TEQIP Phase III Expenses	70,33,766	2,64,44,467
	<b>70,33,766</b>	<b>2,64,44,467</b>
 <b>SCHEDULE 19</b>		
<b>CENTRE OF EXCELLENCE</b>		
Consultancy Expenses	70,37,954	1,17,70,622
	<b>70,37,954</b>	<b>1,17,70,622</b>
 <b>SCHEDULE 20</b>		
<b>DEPRECIATION</b>		
Buildings	3,25,048	3,61,164
Equipment	1,13,62,576	1,20,45,224
Furniture	15,53,177	16,66,677
Vehicles	40,500	47,647
Library Books	23,08,609	32,32,819
Computers	84,27,359	97,25,226
	<b>2,40,17,268</b>	<b>2,70,78,758</b>
 <b>SCHEDULE 21</b>		
<b>PROVISIONS</b>		
Provision for Gratuity	(48,01,657)	-
	<b>(48,01,657)</b>	<b>-</b>



NATIONAL INSTITUTE OF ENGINEERING, MYSURU  
COLLEGE CONSOLIDATED

SCHEDULES TO BALANCE SHEET AS AT MARCH 31, 2021

SCHEDULE 4  
PROPERTY, PLANT & EQUIPMENTS

PARTICULARS	GROSS BLOCK						DEPRECIATION BLOCK				NET BLOCK As on 31/03/2021
	Assets Purchased till 31.03.2012	Assets Purchased from 01.04.2012 till 31.03.2020	Additions during 2020-21	Assets Transferred	Deletions during 2020-21	Closing Balance 31/03/2021	Asset Value considered for depreciation	Opening Balance 01/04/2020	Depreciation for 2020-21	Closing Balance 31/03/2021	
BUILDING	1,48,11,134	36,11,639	-	-	-	1,84,22,773	32,50,475	3,61,164	3,25,048	6,86,212	1,77,36,561
EQUIPMENT	24,63,36,117	8,03,01,499	74,94,229	-	-	33,41,31,845	7,57,50,504	1,20,45,224	1,13,62,576	2,34,07,800	31,07,24,046
FURNITURE AND FIXTURES	1,46,55,772	1,66,66,771	5,31,675	-	-	3,18,54,218	1,55,31,769	16,66,677	15,53,177	33,19,854	2,86,34,364
LIBRARY BOOKS	2,64,44,258	80,82,047	9,22,295	-	-	3,54,48,601	57,71,523	33,32,819	23,08,609	55,41,428	2,99,07,173
VEHICLES	4,78,959	3,17,649	-	-	-	7,96,608	2,70,002	47,647	40,500	88,147	7,08,461
COMPUTERS	25,66,529	2,43,13,066	64,80,557	-	-	3,33,60,152	2,10,68,397	97,25,226	84,27,359	1,81,52,585	1,52,07,567
<b>TOTAL</b>	<b>30,52,92,769</b>	<b>13,32,92,671</b>	<b>1,54,28,756</b>	<b>-</b>	<b>-</b>	<b>45,40,14,197</b>	<b>12,16,42,670</b>	<b>2,70,78,757</b>	<b>2,40,17,268</b>	<b>51,09,60,025</b>	<b>40,29,18,171</b>

(In Rupees)



**NATIONAL INSTITUTE OF ENGINEERING SOCIETY  
CONSOLIDATED**

**BALANCE SHEET AS AT MARCH 31, 2021**

		( In Rupees)	
<b>SOURCES OF FUNDS</b>	<b>SCH</b>	<b>31 MARCH, 2021</b>	<b>31 MARCH, 2020</b>
Capital Fund	1	1,21,79,62,970	1,11,04,01,652
Designated, Endowment and Other Funds	2	31,85,06,252	31,83,40,617
<b>TOTAL FUNDS EMPLOYED</b>		<b>1,53,64,69,222</b>	<b>1,42,87,42,269</b>
<b>APPLICATION OF FUNDS</b>			
<b>PROPERTY, PLANT &amp; EQUIPMENTS</b>	3		
Net Block		1,07,13,30,905	1,10,15,85,755
Work In Progress		3,86,97,548	3,73,11,638
<b>INVESTMENTS</b>	4	41,16,15,833	25,44,30,497
<b>CURRENT ASSETS, LOANS AND ADVANCES</b>			
Accrued Interest	5	1,89,41,780	1,19,57,350
Account Receivable	6	8,55,54,820	6,32,65,065
Cash and Bank Balance	7	3,84,19,207	9,19,51,970
Loans and Advances	8	21,50,151	50,29,612
Other Current Assets	9	1,44,18,985	2,09,73,051
		15,94,84,944	19,31,77,048
<b>Less: Current Liabilities and Provisions</b>	10	17,46,60,008	15,77,62,668
<b>NET CURRENT ASSETS</b>		(51,75,064)	3,54,14,380
<b>TOTAL APPLICATION OF FUNDS</b>		<b>1,53,64,69,222</b>	<b>1,42,87,42,269</b>
<b>SIGNIFICANT ACCOUNTING POLICIES</b>	29		
<b>CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS</b>	30		

As per our attached report of even date

**For RAU & NATHAN**  
Chartered Accountants  
Firm Registration # 003178S

*Vaidyanathan*  
Narayanamorthy Vaidyanathan  
Partner  
Membership # 022573

Place: Mysuru  
Date: 10-11-2021



For National Institute of Engineering Society

*[Signature]*  
Hon. Secretary

**Honorary Secretary**  
National Institute of Engineering (R)  
MYSURU-570 008

*[Signature]*  
Hon. Treasurer

**Honorary Treasurer**  
National Institute of Engineering (R)  
MYSURU-570 008

**NATIONAL INSTITUTE OF ENGINEERING SOCIETY  
CONSOLIDATED**

**INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED MARCH 31, 2021**

		( In Rupees)	
		<u>31 MARCH, 2021</u>	<u>31 MARCH, 2020</u>
<b>OPERATING RECEIPTS</b>			
Tuition and Other Fees	11	33,04,44,833	28,68,48,421
Hostel and Other Facilities	12	1,50,06,946	3,94,18,408
Interest Income	13	1,88,35,822	1,74,23,872
Salary Grants	14	16,45,94,485	13,91,65,726
Development Fee	14a	5,57,40,354	6,64,40,981
Research Grants	15	18,17,879	40,67,216
Grants from Teqip - III	16	70,21,224	2,65,73,976
Consultancy Services	17	1,35,21,468	1,00,45,161
Miscellaneous Income	18	2,03,56,459	2,87,88,450
<b>TOTAL OPERATING RECEIPTS</b>		<b><u>62,73,39,470</u></b>	<b><u>61,87,72,210</u></b>
<b>OPERATING EXPENSES</b>			
Staff Compensation	19	38,82,06,223	35,66,92,719
Hostel Consumables	20	42,62,047	1,47,56,860
Academic Expenses	21	1,57,90,830	2,66,39,136
Teqip Phase III Expenses	22	70,33,766	2,64,44,467
Consultancy Expenses	23	70,37,954	1,17,70,622
Utilities and Services	24	2,89,53,318	3,53,77,412
Office and General Expenses	25	1,67,55,245	2,08,26,642
Donations, Grants & Contributions	26	7,570	10,000
<b>TOTAL OPERATING EXPENSES</b>		<b><u>46,80,46,952</u></b>	<b><u>49,25,17,858</u></b>
<b>SURPLUS/(DEFICIT)</b>		<b><u>15,92,92,518</u></b>	<b><u>12,62,54,353</u></b>
Depreciation	27	4,69,26,553	5,25,97,337
Provision for Gratuity	28	(51,95,353)	8,61,192
<b>Surplus/(Deficit)</b>		<b><u>11,75,61,318</u></b>	<b><u>7,27,95,824</u></b>
<b>SIGNIFICANT ACCOUNTING POLICIES</b>	29		
<b>CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS</b>	30		

As per our attached report of even date

For RAU & NATHAN

Chartered Accountants

Firm Registration # 003178S

*Vaidyanathan*  
Narayana moorthy Vaidyanathan

Partner

Membership # 022573

Place: Mysuru

Date: 10-11-2021



For National Institute of Engineering Society

*[Signature]*  
Hon. Secretary

**Honorary Secretary**  
**National Institute of Engineering (R)**  
**MYSURU-570 008**

*[Signature]*

Hon. Treasurer

**Honorary Treasurer**

**National Institute of Engineering (R)**  
**MYSURU-570 008**

**NATIONAL INSTITUTE OF ENGINEERING SOCIETY CONSOLIDATED  
SCHEDULES TO BALANCE SHEET AS AT MARCH 31, 2021**

(In Rupees)

	<u>31 MARCH, 2021</u>	<u>31 MARCH, 2020</u>
<b>SCHEDULE 1</b>		
<b>CAPITAL FUND</b>		
Capital Fund	1,11,04,01,652	1,02,92,34,342
Add: Surplus/(Deficit) during the Year	11,75,61,318	7,27,95,824
Add: Additions during the year	-	83,71,486
	<b>1,22,79,62,970</b>	<b>1,11,04,01,652</b>
<b>SCHEDULE 2</b>		
<b>ENDOWMENT, DESIGNATED AND OTHER FUNDS</b>		
<b>A. ENDOWMENT FUNDS</b>		
Opening Balance	1,01,94,909	84,73,450
Add :Additions for the year	-	10,73,116
Add :Interest earned	6,85,719	6,48,344
Less : Withdrawals/Transfer during the year	975	-
Closing Balance	<b>1,08,79,653</b>	<b>1,01,94,909</b>
<b>B. DESIGNATED FUNDS</b>		
Opening Balance	5,16,94,089	4,50,39,390
Add: Additions for the year	50,00,000	50,00,000
Add : Interest earned	27,19,230	26,36,520
Less : Withdrawals/Transfer during the year	36,94,954	9,81,821
Closing Balance	<b>5,57,18,365</b>	<b>5,16,94,089</b>
<b>C. OTHER FUNDS</b>		
<b>(As per the sub schedule)</b>		
Opening Balance	25,64,51,619	26,58,63,122
Add: Additions for the year	17,46,804	1,14,50,331
Add : Interest earned	-	-
Less : Withdrawals/Transfer during the year	1,62,90,189	2,08,61,834
Closing Balance	<b>24,19,08,234</b>	<b>25,64,51,619</b>
<b>TOTAL ENDOWMENT, DESIGNATED AND OTHER FUNDS</b>	<b>30,85,06,252</b>	<b>31,83,40,617</b>
<b>SCHEDULE 4</b>		
<b>INVESTMENTS</b>		
Share in Consumer Cooperative Society	10	10
<b>Fixed Deposits with Banks</b>		
Canara Bank	8,69,41,650	4,16,82,965
Karnataka Bank	12,03,66,241	1,78,64,609
Vijaya Bank	8,352	7,403
State Bank of India	-	41,81,473
HDFC Bank	20,20,00,000	16,96,30,000
LIC Group Gratuity Scheme	2,22,99,581	2,10,64,037
	<b>43,16,15,833</b>	<b>25,44,30,497</b>



**NATIONAL INSTITUTE OF ENGINEERING SOCIETY CONSOLIDATED  
SCHEDULES TO BALANCE SHEET AS AT MARCH 31, 2021**

(In Rupees)

	<u>31 MARCH, 2021</u>	<u>31 MARCH, 2020</u>
<b>SCHEDULE 5</b>		
<b>ACCRUED INTEREST</b>		
Accrued Interest on Investments	1,89,41,780	1,19,57,350
	<u>1,89,41,780</u>	<u>1,19,57,350</u>
 <b>SCHEDULE 6</b>		
<b>ACCOUNTS RECEIVABLE</b>		
Tuition and Other fees	4,20,74,895	2,15,68,696
Salary Grants Receivable	4,17,55,992	4,07,38,364
Other Receivables	15,64,813	8,03,443
Sundry Debtors	1,59,120	1,54,561
	<u>8,55,54,820</u>	<u>6,32,65,065</u>
 <b>SCHEDULE 7</b>		
<b>CASH AND BANK BALANCE</b>		
Cash in Hand	14,080	48,661
Balances with Banks in Savings Account	3,84,05,127	9,19,03,309
	<u>3,84,19,207</u>	<u>9,19,51,970</u>
 <b>SCHEDULE 8</b>		
<b>LOANS AND ADVANCES</b>		
Festival Advance	41,311	41,311
Advances Staff	52,620	17,61,973
Advance : General	20,56,220	30,71,827
Loans & Advances - Teqip	-	1,54,501
	<u>21,50,151</u>	<u>50,29,612</u>
 <b>SCHEDULE 9</b>		
<b>OTHER CURRENT ASSETS</b>		
Hostel Inventory	5,68,345	5,28,405
Prepaid Expenses	3,57,801	6,98,812
Receivables from Foundation and Institutions	1,02,77,514	67,49,104
Security Deposits	3,000	3,000
Tax Deducted at Source	1,15,56,224	1,16,27,908
Utility Deposits	16,56,102	13,65,822
	<u>2,44,18,985</u>	<u>2,09,73,051</u>



**NATIONAL INSTITUTE OF ENGINEERING SOCIETY CONSOLIDATED  
SCHEDULES TO BALANCE SHEET AS AT MARCH 31, 2021**

(In Rupees)

	<u>31 MARCH, 2021</u>	<u>31 MARCH, 2020</u>
<b>SCHEDULE 10</b>		
<b>CURRENT LIABILITIES AND PROVISIONS</b>		
<b>A. CURRENT LIABILITIES</b>		
Audit Fee Payable	3,68,000	1,18,000
Deposit Refundable	99,75,500	83,24,000
Employee Deduction - Loan	34,172	-
Expenses Payable	45,85,721	1,89,49,659
FCRA	26,42,338	25,69,499
Fees Payable to UOM,VTU & others	1,22,12,905	1,20,03,650
Fees Received in Advance	58,88,841	49,40,192
GST Payable	5,06,667	1,85,402
Hostel Fees received in Advance	2,18,38,659	40,75,000
Internal Audit Fees Payable	2,20,615	4,72,000
NSDC Exam fees payable	-	1,43,908
Other Liabilities	27,19,771	31,95,096
Payable to Other Institutions	3,29,63,865	-
Payroll Clearance	25,75,098	52,51,890
Research Grants received in advance	50,72,135	44,57,896
Scholarships	67,54,008	3,60,25,917
Sundry Creditors	1,73,49,923	55,39,052
TDS Payable	62,54,751	35,44,115
	<b>13,19,62,968</b>	<b>10,97,95,275</b>
 <b>B. PROVISIONS</b>		
Provision for Gratuity	4,26,97,040	4,79,67,393
	<b>4,26,97,040</b>	<b>4,79,67,393</b>
 <b>TOTAL CURRENT LIABILITIES AND PROVISIONS</b>	<b>17,46,60,008</b>	<b>15,77,62,668</b>



**NATIONAL INSTITUTE OF ENGINEERING SOCIETY CONSOLIDATED  
SCHEDULES TO INCOME AND EXPENDITURE ACCOUNT  
FOR THE YEAR ENDED MARCH 31, 2021**

(In Rupees)

	<u>31 MARCH, 2021</u>	<u>31 MARCH, 2020</u>
<b>SCHEDULE 11</b>		
<b>TUITION AND OTHER FEES</b>		
Tuition/Other Fees	26,83,81,817	24,03,32,761
Admission Fee	-	1,15,100
Other Fee	8,30,001	13,07,400
Sports Fee	-	2,91,600
Laboratory Fee	-	6,60,000
Examination fee	15,33,800	18,62,400
Medical Examination Fee	-	76,660
Student Facilitation Fees	5,96,99,215	4,22,02,500
	<u>33,04,44,833</u>	<u>28,68,48,421</u>
<b>SCHEDULE 12</b>		
<b>HOSTEL AND OTHER FACILITIES</b>		
Hostel Facilities	1,50,06,946	3,94,18,408
	<u>1,50,06,946</u>	<u>3,94,18,408</u>
<b>SCHEDULE 13</b>		
<b>INTEREST INCOME</b>		
Interest from Banks- SB	11,43,486	14,87,168
Interest from Banks- FD	1,59,21,071	1,50,20,954
Interest Others	17,71,265	9,15,750
	<u>1,88,35,822</u>	<u>1,74,23,872</u>
<b>SCHEDULE 14</b>		
<b>SALARY GRANTS</b>		
Salary Grants	16,45,94,485	13,91,65,726
	<u>16,45,94,485</u>	<u>13,91,65,726</u>
<b>SCHEDULE 14a</b>		
<b>DEVELOPMENT FEE</b>		
Development Fee- Alumni	35,000	4,40,000
Development Fee- Miscellaneous	5,57,05,354	6,60,00,981
	<u>5,57,40,354</u>	<u>6,64,40,981</u>
<b>SCHEDULE 15</b>		
<b>RESEARCH GRANTS</b>		
Research Grants	18,17,879	40,67,216
	<u>18,17,879</u>	<u>40,67,216</u>
<b>SCHEDULE 16</b>		
<b>TEQIP RECEIPTS</b>		
Receipts from TEQIP III	70,21,224	2,65,73,976
	<u>70,21,224</u>	<u>2,65,73,976</u>



**NATIONAL INSTITUTE OF ENGINEERING SOCIETY CONSOLIDATED  
SCHEDULES TO INCOME AND EXPENDITURE ACCOUNT  
FOR THE YEAR ENDED MARCH 31, 2021**

(In Rupees)

	<u>31 MARCH, 2021</u>	<u>31 MARCH, 2020</u>
<b>SCHEDULE 17</b>		
<b>INCOME FROM CONSULTANCY SERVICES</b>		
Consultancy Services	1,35,21,468	1,00,45,161
	<b>1,35,21,468</b>	<b>1,00,45,161</b>

**SCHEDULE 18**

**MISCELLANEOUS INCOME**

Adm Date Entry and Processing Fees	-	1,57,000
Application fee	70,928	4,50,292
Campus facilitation charges	4,25,276	7,67,419
Certificate Fee	1,65,000	4,39,454
Conference/workshop/symposium	-	8,050
Contribution from Students	20,16,000	27,11,900
Duplicate marks/ID card fee	-	1,12,656
Excess/Short Provisions of earlier years	-	2,64,500
Fine	18,811	4,55,133
Fitness centre membership fee	99,000	1,88,500
Hand book	-	1,78,050
ID card Fee	20,600	79,245
Membership Fee	-	20,000
Miscellaneous Receipts	4,96,685	71,909
Plagiarism test fee	-	1,95,620
Reading room fees	-	95,800
Registration fee TEQIP Courses	-	1,52,021
Registration Fees	-	20,74,500
Sale of Used items	2,86,806	1,79,167
Short term courses	-	18,680
Sponsorship	5,000	23,475
Training Charges	2,82,500	8,97,500
Transcripts	4,48,550	6,35,940
Transfer Certificate Fee	20,300	10,650
Transfer from Capital Grant fund	1,60,01,003	1,85,90,489
Women Cell Fees	-	10,500
	<b>2,03,56,459</b>	<b>2,87,88,450</b>

**SCHEDULE 19**

**STAFF COMPENSATION**

**Establishment Charges**

Establishment Charges - Aided	19,12,23,522	16,09,80,693
Establishment Charges - Unaided	18,79,64,562	18,49,36,131
Incentive	-	4,08,874
Staff Welfare Expenses	12,230	56,052
Contribution to Employees Provident Fund	76,45,055	81,60,281
EPF Administrative Fees	6,67,860	6,82,366
ESIC Matching	6,92,994	7,95,391
Health Insurance	-	6,72,931
	<b>38,82,06,223</b>	<b>35,66,92,719</b>



**NATIONAL INSTITUTE OF ENGINEERING SOCIETY CONSOLIDATED  
SCHEDULES TO INCOME AND EXPENDITURE ACCOUNT  
FOR THE YEAR ENDED MARCH 31, 2021**

(In Rupees)

	<u>31 MARCH, 2021</u>	<u>31 MARCH, 2020</u>
<b>SCHEDULE 20</b>		
<b>HOSTEL CONSUMABLES</b>		
Purchases Gas	2,51,945	8,77,220
Mess Purchases	40,10,102	1,38,79,640
	<u>42,62,047</u>	<u>1,47,56,860</u>
<b>SCHEDULE 21</b>		
<b>ACADEMIC EXPENSES</b>		
Academic & Capacity Building Activities	6,000	20,706
Affiliation/Membership	21,44,449	20,28,219
College Magazine	3,777	-
Conference/Workshops/Seminar	2,500	34,547
Consolidated Project Expenses	16,34,953	35,03,427
Convocation Expenses	17,28,105	12,36,743
Curriculum/Faculty Development	2,32,640	1,21,691
Examination Expenses	47,50,349	81,90,231
Function & Co-Curricular Activity	1,74,599	7,53,575
Guest Lecture	6,23,607	10,45,950
Hand Book	-	3,03,775
Health Care Expenses	3,93,622	2,66,148
Laboratory Consumables	7,16,062	20,99,131
Library Journals	5,96,921	7,04,450
Meeting Expenses- academic	6,69,329	15,17,748
NSS Programme	-	8,273
Placement Services	7,18,052	-
Reading room Expenses	12,875	63,831
Research Expenses	11,45,601	7,08,917
Scholarship	-	5,82,055
Short term courses/Training Programmes	-	1,90,098
Sports and Games	32,396	12,64,216
Staff Welfare Expenses	15,670	-
Student Development Programmes	1,80,751	6,60,313
Student Facilitation Expenses	-	2,94,756
Technicks Expenses	-	10,40,336
Travel - Academic	8,572	-
	<u>1,57,90,830</u>	<u>2,66,39,136</u>
<b>SCHEDULE 22</b>		
<b>TEQIP III EXPENSES</b>		
TEQIP Phase III Expenses	70,33,766	2,64,44,467
	<u>70,33,766</u>	<u>2,64,44,467</u>
<b>SCHEDULE 23</b>		
<b>CENTRE OF EXCELLENCE</b>		
Consultancy Expenses	70,37,954	1,17,70,622
	<u>70,37,954</u>	<u>1,17,70,622</u>



**NATIONAL INSTITUTE OF ENGINEERING SOCIETY CONSOLIDATED  
SCHEDULES TO INCOME AND EXPENDITURE ACCOUNT  
FOR THE YEAR ENDED MARCH 31, 2021**

	<u>31 MARCH, 2021</u>	<u>31 MARCH, 2020</u>
(In Rupees)		
<b>SCHEDULE 24</b>		
<b>UTILITIES AND SERVICES</b>		
Electricity/Generator Charges	47,77,188	77,86,242
Water Charges	1,19,859	95,532
<b>Repairs and Maintenance:</b>		
Building	37,03,756	72,90,878
Equipment	7,23,620	10,69,847
Estate and Grounds	21,88,007	15,31,808
Electrical	13,22,520	80,438
General	2,74,127	9,10,536
Vehicle	5,37,784	4,61,601
Computers	5,68,956	97,846
Generator	3,08,511	5,79,635
Software (AMC)	14,35,741	7,12,006
House Keeping Charges	52,73,811	61,69,473
Security Charges	68,14,378	71,79,342
Internet Charges	9,05,060	14,12,228
	<b>2,89,53,318</b>	<b>3,53,77,412</b>

<b>SCHEDULE 25</b>		
<b>OFFICE AND GENERAL EXPENSES</b>		
Advertisement/Publicity	8,32,934	13,99,987
Audit Fees/Expenses	2,50,000	1,18,000
Bank Charges	26,742	6,01,495
Excess/Short Provisions of earlier years	-	10,91,000
Flag Fee	-	22,630
Function Expenses	4,902	10,150
General Body Meeting Expenses	2,08,929	3,31,900
Gratuity Fund Charges	3,24,516	-
GST	13,99,539	3,52,385
Hospitality/Guest Entertainment	3,43,787	7,04,013
Internal Audit Fees	-	4,72,000
Legal fees/Expenses	2,19,150	2,25,550
Membership Fee	-	43,260
Miscellaneous Expenses	27,376	2,21,565
NBA Expenses	-	1,23,806
Office Staff Salary	60,40,980	55,43,181
Periodicals/Publications	14,169	49,031
Postage/Courier	36,454	68,110
Printing & Stationary	11,11,440	24,61,289
Professional Service fee	3,91,398	15,46,612
Professional Tax	-	2,500
Rent, Rates & Taxes	35,32,070	19,29,925
Sports Expenses	-	21,305
Telephone	95,060	1,07,406
Travel: General	4,32,638	4,72,116
Travelling allowance- Directors	-	2,04,532
Website Designing Expenses	14,63,161	27,02,894
	<b>1,67,55,245</b>	<b>2,08,26,642</b>



**NATIONAL INSTITUTE OF ENGINEERING SOCIETY CONSOLIDATED  
SCHEDULES TO INCOME AND EXPENDITURE ACCOUNT  
FOR THE YEAR ENDED MARCH 31, 2021**

(In Rupees)

	<u>31 MARCH, 2021</u>	<u>31 MARCH, 2020</u>
<b>SCHEDULE 26</b>		
<b>DONATIONS, GRANTS &amp; CONTRIBUTIONS</b>		
Contribution others	7,570	10,000
	<u>7,570</u>	<u>10,000</u>
 <b>SCHEDULE 27</b>		
<b>DEPRECIATION</b>		
Buildings	1,92,98,923	2,14,43,248
Equipment	1,33,72,725	1,43,05,317
Furniture	29,82,172	32,54,449
Library Books	24,26,950	33,36,546
Vehicles	1,13,143	47,647
Utensils	39,904	42,606
Computers	86,92,737	1,01,67,524
	<u>4,69,26,553</u>	<u>5,25,97,337</u>
 <b>SCHEDULE 28</b>		
<b>PROVISIONS</b>		
Provision for Gratuity	(51,95,353)	8,61,192
	<u>(51,95,353)</u>	<u>8,61,192</u>



NATIONAL INSTITUTE OF ENGINEERING SOCIETY  
CONSOLIDATED  
SCHEDULES TO BALANCE SHEET AS AT MARCH 31, 2021

**SCHEDULE 3  
PROPERTY, PLANT & EQUIPMENTS**

PARTICULARS	GROSS BLOCK						DEPRECIATION BLOCK				NET BLOCK	
	Assets Purchased till 31/03/2012	Assets Purchased from 01/04/2012 till 31/03/2020	Additions during 2020-21	Assets Transferred	Deletions during 2020-21	Closing Balance 31/03/2021	Asset Value considered for depreciation	Opening Balance 01/04/2020	Depreciation for 2020-21	Closing Balance 31/03/2021	As on 31/03/2021	As on 31/03/2021
LAND	12,26,504	43,64,99,215	-	-	-	43,77,25,719	43,64,99,215	2,14,43,248	-	-	-	43,77,25,719
BUILDING	3,63,63,477	21,44,32,482	-	-	-	25,07,95,959	19,29,89,234	1,43,05,316	1,92,98,923	4,07,42,171	21,00,53,788	21,00,53,788
EQUIPMENT	25,46,23,745	9,53,68,779	-80,88,035	-	-	35,80,80,560	8,91,51,498	32,54,448	1,33,72,725	2,76,78,041	33,04,02,519	33,04,02,519
FURNITURE AND FIXTURES	1,82,56,115	3,25,44,489	5,31,675	-	-	5,13,32,280	2,98,21,716	33,36,546	29,82,172	62,36,620	4,50,95,660	4,50,95,660
LIBRARY BOOKS	2,74,40,935	83,41,365	10,62,555	-	-	3,68,44,855	60,67,374	47,647	24,26,950	57,63,496	3,10,81,359	3,10,81,359
VEHICLES	4,78,959	3,17,649	4,84,285	-	-	12,80,893	7,54,287	42,606	1,13,143	1,60,790	11,20,103	11,20,103
UTENSILS	-	2,84,038	24,595	-	-	3,08,633	2,66,027	47,647	39,904	82,510	2,26,123	2,26,123
COMPUTERS	23,86,529	2,54,18,809	64,80,557	-	-	3,44,85,895	2,17,31,842	1,01,67,524	86,92,737	1,88,60,261	1,56,25,634	1,56,25,634
<b>TOTAL</b>	<b>34,09,76,264</b>	<b>81,32,06,827</b>	<b>1,66,71,702</b>	<b>-</b>	<b>-</b>	<b>1,17,08,54,794</b>	<b>77,72,81,194</b>	<b>5,25,97,335</b>	<b>4,69,26,553</b>	<b>9,95,23,888</b>	<b>1,07,13,30,905</b>	<b>1,07,13,30,905</b>
<b>PARTICULARS</b>	<b>Opening Balance</b>	<b>Additions During 2020-21</b>	<b>Capitalised</b>	<b>Adjustments</b>	<b>Closing Balance</b>							
Capital Work In Progress	3,51,78,788	-	-	-	3,51,78,788							
Software ERP - WIP	21,32,850	13,85,910	-	-	35,18,760							
<b>TOTAL WIP</b>	<b>3,73,11,638</b>	<b>13,85,910</b>	<b>-</b>	<b>-</b>	<b>3,86,97,548</b>							



NATIONAL INSTITUTE OF ENGINEERING SOCIETY

BALANCE SHEET AS AT MARCH 31, 2021

( In Rupees)

SOURCES OF FUNDS	Consolidated	NIE	NIE EGC	NIE ITL	NIE HOSTELS	SOCIETY MGMT
Capital Fund	1,22,79,62,970	61,67,20,742	3,73,53,332	22,50,792	6,19,16,592	50,97,21,512
Designated, Endowment and Other Funds	30,83,06,252	24,69,88,613	1,06,701	23,100	40,00,000	5,73,87,839
Intra Organisation *	51,33,79,727	-	-	84,86,994	-	50,50,92,733
<b>TOTAL FUNDS EMPLOYED</b>	<b>2,05,00,48,949</b>	<b>86,37,09,354</b>	<b>3,74,60,033</b>	<b>1,07,60,886</b>	<b>6,59,16,592</b>	<b>1,07,22,02,084</b>
<b>APPLICATION OF FUNDS</b>						
<b>PROPERTY, PLANT &amp; EQUIPMENTS</b>	<b>1,07,13,30,905</b>	<b>40,29,18,171</b>	<b>1,52,12,728</b>	<b>99,56,538</b>	<b>9,12,53,600</b>	<b>55,19,89,868</b>
Net Block	3,86,97,548	-	-	-	-	3,86,97,548
Work In Progress	43,16,15,833	-	-	-	10	43,16,15,823
<b>INVESTMENTS</b>	<b>1,89,41,780</b>	<b>8,32,99,129</b>	<b>14,46,440</b>	<b>4,64,099</b>	<b>-</b>	<b>1,89,41,780</b>
<b>CURRENT ASSETS, LOANS AND ADVANCES</b>	<b>8,55,54,820</b>	<b>1,80,09,919</b>	<b>26,69,810</b>	<b>3,13,942</b>	<b>10,20,899</b>	<b>3,45,152</b>
Accrued Interest	3,84,19,207	14,27,856	41,391	52,620	75,000	1,64,04,637
Account Receivable	21,50,151	13,04,861	8,025	9,90,114	10,36,973	5,53,284
Cash and Bank Balance	2,44,18,985	48,28,87,908	2,16,60,930	-	90,30,888	2,10,79,012
Loans and Advances	51,35,79,726	58,69,29,673	2,58,26,596	18,20,775	1,11,63,760	5,73,23,865
Other Current Assets	68,30,64,670	12,61,38,490	35,79,291	10,16,427	3,65,00,779	74,25,021
Intra-Organisation *	17,46,60,008	46,07,91,183	2,22,47,305	8,04,349	(2,53,37,018)	4,98,98,844
Less: Current Liabilities and Provisions	50,84,04,662	86,37,09,354	3,74,60,033	1,07,60,886	6,59,16,592	1,07,22,02,084
<b>NET CURRENT ASSETS</b>	<b>2,05,00,48,949</b>	<b>86,37,09,354</b>	<b>3,74,60,033</b>	<b>1,07,60,886</b>	<b>6,59,16,592</b>	<b>1,07,22,02,084</b>
<b>TOTAL ASSETS (NET)</b>						

NATIONAL INSTITUTE OF ENGINEERING SOCIETY

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED MARCH 31, 2021

(In Rupees)

	<u>Consolidated</u>	<u>NIE</u>	<u>NIE FGC</u>	<u>NIE III</u>	<u>NIE HOSTELS</u>	<u>SOCIETY MGMT</u>
<b>OPERATING RECEIPTS</b>						
Tuition and Other Fees	33,04,44,833	30,70,28,081	2,23,95,540	10,21,212	-	-
Hostel and Other Facilities	1,50,06,946	-	-	63,959	1,50,06,946	-
Interest Income	1,88,35,822	5,09,660	57,078	1,36,66,074	60,448	1,81,44,678
Salary Grants	16,45,94,485	15,09,28,411	-	9,50,751	-	-
Development Fee	5,57,40,354	-	-	-	-	5,47,89,603
Research Grants	18,17,879	18,17,879	-	-	-	-
Grants from Teqip - III	70,21,224	70,21,224	-	-	-	-
Consultancy Services	1,35,21,468	1,35,21,468	-	-	-	-
Miscellaneous Income	2,03,56,459	1,95,55,598	80,879	3,08,078	13,634	3,98,270
<b>TOTAL OPERATING RECEIPTS</b>	<b>62,73,39,470</b>	<b>50,03,82,321</b>	<b>2,25,33,497</b>	<b>1,60,10,074</b>	<b>1,50,81,027</b>	<b>7,33,32,551</b>
<b>OPERATING EXPENSES</b>						
Staff Compensation	38,82,06,223	35,52,98,471	1,04,98,233	1,54,63,355	69,46,164	-
Hostel Consumables	42,62,047	-	-	-	42,62,047	-
Academic Expenses	1,57,90,830	1,51,86,128	5,17,050	87,652	-	-
Teqip Phase III Expenses	70,33,766	70,33,766	-	-	-	-
Consultancy Expenses	70,37,954	70,37,954	-	-	-	-
Utilities and Services	2,89,53,318	2,21,10,622	7,92,491	9,69,373	48,93,658	1,87,174
Office and General Expenses	1,67,55,245	44,67,484	2,54,496	2,18,139	3,82,124	1,14,33,002
Donations, Grants & Contributions	7,570	-	-	-	-	7,570
<b>TOTAL OPERATING EXPENSES</b>	<b>46,80,46,952</b>	<b>41,11,34,424</b>	<b>1,20,62,269</b>	<b>1,67,38,519</b>	<b>1,64,83,993</b>	<b>1,16,27,746</b>
<b>OPERATING SURPLUS/(DEFICIT)</b>	<b>15,92,92,518</b>	<b>8,92,47,897</b>	<b>1,04,71,228</b>	<b>(7,28,445)</b>	<b>(14,02,965)</b>	<b>6,17,04,805</b>
Depreciation	4,69,26,553	2,40,17,268	7,94,830	4,48,555	89,28,696	1,27,37,204
Provision for Gratuity	(51,95,353)	(48,01,657)	(1,99,418)	38,453	(2,32,731)	-
<b>SURPLUS/(DEFICIT)</b>	<b>11,75,61,318</b>	<b>7,00,32,285</b>	<b>98,75,816</b>	<b>(12,15,453)</b>	<b>(1,00,98,930)</b>	<b>4,89,67,600</b>

NATIONAL INSTITUTE OF ENGINEERING SOCIETY  
SCHEDULE TO FUNDS AS ON MARCH 31, 2021

(In Rupees)

Particulars	Balance as on	Addition during the year		Withdrawal	Transfer during	Balance as on
	01-04-2020	Interest	Contribution	during year	the year	31-03-2021
<b>NIE</b>						
<b>ENDOWMENT FUNDS</b>						
Poor Student Aid Fund	4,60,122	-	-	975	-	4,59,147
Student Aid Fund	1,43,071	-	-	-	-	1,43,071
Scholarship Fund	42,53,767	-	-	-	-	42,53,767
<b>TOTAL ENDOWMENT FUNDS</b>	<b>48,56,960</b>	-	-	<b>975</b>	-	<b>48,55,985</b>
<b>OTHER FUNDS</b>						
Capital Grant Fund	23,94,00,338	-	17,46,804	1,62,90,189	-	22,48,56,953
Capitation and Development Fund	92,76,342	-	-	-	-	92,76,342
Building Fund - T & P	20,000	-	-	-	-	20,000
Digital Library Fund - Elearning	5,00,000	-	-	-	-	5,00,000
Elearning Centre Fund	12,50,000	-	-	-	-	12,50,000
Infosys Foundation - Library Books	15,00,000	-	-	-	-	15,00,000
Library Development Fund	36,27,700	-	-	-	-	36,27,700
Management Scholarship account	7,97,073	-	-	-	-	7,97,073
VTU Grants - Library Book	3,04,560	-	-	-	-	3,04,560
	<b>25,66,76,013</b>	-	<b>17,46,804</b>	<b>1,62,90,189</b>	-	<b>24,21,32,628</b>
<b>NIE ITI</b>						
Anniversary Fund	5,000	-	-	-	-	5,000
A S Bhojaraja Scholarship	2,000	-	-	-	-	2,000
Endowment Cash Prize	1,100	-	-	-	-	1,100
Endowment Scholarship	13,000	-	-	-	-	13,000
Sri Basavaraj Urs Memorial Fund	2,000	-	-	-	-	2,000
	<b>23,100</b>	-	-	-	-	<b>23,100</b>

NATIONAL INSTITUTE OF ENGINEERING SOCIETY  
SCHEDULE TO FUNDS AS ON MARCH 31, 2021

(In Rupees)

Particulars	Balance as on	Addition during the year			Withdrawal	Transfer during	Balance as on
	01-04-2020	Interest	Contribution		during year	the year	31-03-2021
<b>NIE FGC</b>							
Endowment Fund	1,00,000	6,701	-	-	-	-	1,06,701
	<b>1,00,000</b>	<b>6,701</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,06,701</b>
<b>NIE Hostels</b>							
NRN Maintenance Fund	40,00,000	2,67,277	-	2,67,277	-	-	40,00,000
	<b>40,00,000</b>	<b>2,67,277</b>	<b>-</b>	<b>2,67,277</b>	<b>-</b>	<b>-</b>	<b>40,00,000</b>
<b>NIE Society</b>							
<b>ENDOWMENT FUNDS</b>							
Scholarship fund	52,14,850	6,79,018	-	-	-	-	58,93,868
	<b>52,14,850</b>	<b>6,79,018</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>58,93,868</b>
<b>OTHER FUND</b>							
Capital Grant Fund	-	-	-	-	-	-	-
	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>DESIGNATED FUND</b>							
NRN - School of Electrical Sciences	80,00,000	5,22,555	-	5,22,555	-	-	80,00,000
TEQIP Recommended funds	2,99,37,617	17,54,734	-	-	-	-	3,16,92,351
University Development Fund	50,65,112	-	-	-	-	-	50,65,112
CWSH Project Fund	44,66,966	1,74,664	20,00,000	3,90,191	-	-	62,51,439
Innovation & Incubation Centre Fund	-	-	30,00,000	25,14,931	-	-	4,85,069
	<b>4,74,69,695</b>	<b>24,51,953</b>	<b>50,00,000</b>	<b>34,27,677</b>	<b>-</b>	<b>-</b>	<b>5,14,93,971</b>

NATIONAL INSTITUTE OF ENGINEERING SOCIETY  
SCHEDULE TO FUNDS AS ON MARCH 31, 2021

(In Rupees)

Particulars	Balance as on	Addition during the year		Withdrawal	Transfer during	Balance as on
	01-04-2020	Interest	Contribution	during year	the year	31-03-2021

NATIONAL INSTITUTE OF ENGINEERING SOCIETY

SUMMARY OF FUNDS AS ON MARCH 31, 2021

Particulars	Opening Balance	Addition during the year		withdrawal	Transfer during	Balance as on
	01-04-2020	Interest	Contribution	during year	the year	31-03-2021
ENDOWMENT FUND	1,01,94,909	6,85,719	-	975	-	1,08,79,653
DESIGNATED FUND	5,14,69,695	27,19,230	50,00,000	36,94,954	-	5,54,93,971
OTHER FUND	25,66,76,013	-	17,46,804	1,62,90,189	-	24,21,32,628
<b>TOTAL</b>	<b>31,83,40,617</b>	<b>34,04,949</b>	<b>67,46,804</b>	<b>1,99,86,118</b>	<b>-</b>	<b>30,85,06,252</b>

## **CHAPTER 7**

### **ADMISSION POLICIES**

#### ***7.1. U.G. Admission – Govt. Quota (CET, COMEDK):***

##### **Bachelor of Engineering (B.E.)**

Admission to B.E. programme is open to candidates who have passed the second year Pre University (PUC) or +2 or equivalent examination held preceding the entrance test with Physics and Mathematics as compulsory subjects along with one of the subjects: Chemistry, Bio-Technology, Computer Science, Biology, Electronics and secured not less than 45% (Fourty five percent) of the aggregate marks in optional subjects with English as one of the languages for admission to Engineering & Technology Programmes. The minimum marks shall be 40% (Fourty percent) of aggregate in optional subjects in case of candidates belonging to Scheduled Caste (SC), Scheduled Tribe (ST) and Other Backward Classes specified in the relevant Government order for the purpose of reservation in respect of Engineering & Technology Programmes.

Admission to B.E. Programme will be through CET & COMED-K only.

Management quota seats are also available.

#### ***7.2. P.G. Admission***

##### **Master of Computer Applications (MCA)**

Candidates who have passed any undergraduate examination of minimum 3 years or equivalent examination with Mathematics or Statistics or Computer Science or Computer Applications or Business Mathematics or Business Statistics as one of the optional subjects and obtained an aggregate of 50% marks taken together in all the subjects for the all the years are eligible for admission to MCA Programme, 45% of marks in qualifying examination in case of SC, ST and Category-I candidates, provided that in respect of candidates who have studied and passed one of the subjects specified above.

Admission to MCA Programme is through Karnataka PG CET conducted by Karnataka Examination Authority (KEA) only.

##### **Master of Technology (M.Tech.)**

- i) Candidates with valid GATE scores
- ii) Candidates who have passed prescribed qualifying examination or equivalent examination and obtained an aggregate minimum of 50% marks in B.E. taken together in all the subjects for all the

years are eligible for admission to M.Tech Programme, 45% of marks in case of SC, ST and category-I candidates.

Admission to M.Tech Programme is also through Karnataka PG CET conducted by Karnataka Examination Authority (KEA) only.

Management seat quota seats are also available in some disciplines.

### **M.Sc. (Engineering) by Research:**

Candidates who have passed B.E./B.Tech. Examination of VTU or B.E./B.Tech of any other University, recognized by VTU as equivalent thereto or any other examination recognized by VTU as equivalent thereto and have passed the prescribed qualifying examination with not less than 60% of the marks in the aggregate, in the examinations of the semesters considered for the declaration of class/grade. However, a relaxation to the extent of 10% shall be allowed for candidates belonging to SC/ST and any other category as notified by Government of Karnataka from time to time.

### **Doctoral Programmes (Ph.D.)**

The eligibility requirements for candidates to get admitted to the Ph.D. programme shall include the following:

There shall be provision for the following categories of candidates for admission to Ph.D.:

- a) **Full-Time:** Candidates to pursue Ph.D. research on full time basis shall also include NDF/QIP / FIP scholars and those belonging to Integrated Degree programmes such as M.Sc. (Engg.) by Research/(Full-Time)M.Tech /M.Arch+ Ph.D.
- b) **Part-Time:** In-service candidates having a minimum professional experience of one year after their PG Degree from among the regular faculty members working in any Engineering College / Polytechnic / University / Deemed to be University (recognized /accredited by appropriate bodies in India) or research staff of public/private organizations shall be eligible to pursue Ph.D. research on a part time basis.
- c) **Full-Time (Special):** NRI/FN/PIO candidates shall be eligible for admission to Full Time Ph.D. research as indicated in 5.1.1 a). However, the candidates shall have passed the UG/ PG programmes with medium of instruction in English or qualified in TOEFL / ELTS, or equivalent and be able to communicate in English and also submit the thesis in English language only.
- d) **Integrated Degree:** Students registered for M.Sc. (Engg.) by Research (Full- Time)/ M.Tech./ M.Arch. may be allowed to upgrade to Ph.D. as per 5.2.1 a) as applicable on a case-by-case basis.

**CHAPTER 8**  
**ADMISSIONS**

*8.1 UG – Program wise, Semester wise, Boys & Girls:*

ADMISSIONS DETAIL FOR ACADEMIC YEAR 2020-21												
Sl. No.	UG-	I Year		II Year		III Year		IV Year		Grand Total		
	Programmes	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Total
1	CE	74	49	80	53	77	48	77	58	308	208	516
2	CS	88	39	94	48	101	47	89	61	372	195	567
3	EE	66	43	82	54	38	24	33	33	219	154	373
4	EC	79	43	103	36	81	43	85	53	348	175	523
5	IP	30	16	36	18	45	16	48	18	159	68	227
6	IS	92	34	101	36	81	53	75	52	349	175	524
7	ME	157	16	198	9	184	9	198	3	737	37	774
	Total	586	240	694	254	607	240	605	278	2492	1012	3504

**8.2 UG – Programs Category wise**

Sl. No.	UG- Programmes	I Year					II Year					III Year					IV Year					Grand Total
		GM	OBC	SC	ST	Total	GM	OB C	SC	ST	Total	GM	OBC	SC	ST	Total	GM	OBC	SC	ST	Total	
1	CE	48	48	23	4	<b>123</b>	53	56	19	5	<b>133</b>	45	61	16	3	<b>125</b>	39	69	23	4	<b>135</b>	516
2	CS	94	23	7	3	<b>127</b>	97	30	13	2	<b>142</b>	95	38	12	3	<b>148</b>	93	45	10	2	<b>150</b>	567
3	EE	59	36	12	2	<b>109</b>	76	45	15	0	<b>136</b>	29	24	8	1	<b>62</b>	22	32	10	2	<b>66</b>	373
4	EC	72	39	9	2	<b>122</b>	78	42	13	6	<b>139</b>	65	38	16	5	<b>124</b>	67	53	12	6	<b>138</b>	523
5	IP	29	14	3	0	<b>46</b>	20	22	9	3	<b>54</b>	21	32	7	1	<b>61</b>	21	32	11	2	<b>66</b>	227
6	IS	89	26	10	1	<b>126</b>	97	28	10	2	<b>137</b>	86	35	12	1	<b>134</b>	67	48	10	2	<b>127</b>	524
7	ME	89	62	17	5	<b>173</b>	104	73	21	9	<b>207</b>	82	79	22	10	<b>193</b>	87	84	22	8	<b>201</b>	774
	Total	480	248	81	17	<b>826</b>	525	296	100	27	<b>948</b>	423	307	93	24	<b>847</b>	396	363	98	26	<b>883</b>	3504

**8.3 PG - Program wise, Semester wise, Boys & Girls:**

Sl. No.	PG- Programmes	I Year			II Year			Grand Total		
		Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
1	CAID	7	6	13	5	7	12	12	13	25
2	CNE	7	8	15	3	8	11	10	16	26
3	HYD	6	9	15	6	6	12	12	15	27
4	IAR	8	3	11	11	3	14	19	6	25
5	IT	2	10	12	0	13	13	2	23	25
6	MD	13	3	16	12	2	14	25	5	30
7	NT	5	4	9	1	6	7	6	10	16
8	NIE	5	7	12	1	8	9	6	15	21
9	PS	6	7	13	6	9	15	12	16	28
10	PEST	6	0	6	7	3	10	13	3	16
11	SE	12	6	18	9	5	14	21	11	32
	Total	77	63	140	61	70	131	138	133	271

8.4 PG – Programs Category wise:

Sl. No.	PG	I Year					II Year					Grand
	Programs	GM	OBC	SC	ST	Total	GM	OBC	SC	ST	Total	Total
1	CAID	4	5	1	3	13	4	6	2	0	12	25
2	CNE	9	3	2	1	15	3	6	2	0	11	26
3	HYD	9	4	1	1	15	7	3	2	0	12	27
4	IAR	6	2	3	0	11	5	8	1	0	14	25
5	IT	10	2	0	0	12	4	7	1	1	13	25
6	MD	12	3	1	0	16	5	6	3	0	14	30
7	NT	6	0	3	0	9	2	3	1	1	7	16
8	NIE	8	0	3	1	12	3	5	1	0	9	21
9	PS	8	3	2	0	13	6	7	2	0	15	28
10	PEST	4	1	1	0	6	2	6	1	1	10	16
11	SE	12	4	1	1	18	1	10	2	1	14	32
	Total	88	27	18	7	140	42	67	18	4	131	271

**8.5 MCA - Semester wise, Boys & Girls**

I Year			II Year			III Year			Grand Total		
Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
35	25	60	25	30	55	21	41	62	81	96	177

**8.6 MCA –Category wise**

I Yr					II Yr					III Yr					Grand Total
GM	OBC	SC	ST	Total	GM	OBC	SC	ST	Total	GM	OBC	SC	ST	Total	
44	10	4	2	60	39	11	4	1	55	31	25	5	1	62	177

## LIST OF RANK HOLDERS : UG 2017 - 2021 BATCH

## Civil Engineering

Sl. No.	USN	Name	CGPA	RANK
1	4NI17CV105	SRICHARAN N	9.54	I Rank
2	4NI17CV063	NIVEDITHA K	9.26	II Rank
3	4NI17CV012	ARJUMAND TAHURA	9.16	III Rank
4	4NI17CV084	SAMARTH S	9.02	IV Rank
5	4NI17CV059	NEHA S	8.98	V Rank
6	4NI17CV066	POOJA B S	8.97	VI Rank

## Mechanical Engineering

Sl. No.	USN	Name	CGPA	RANK
1	4NI17ME167	VISHWAS HEGDE	9.36	I Rank
2	4NI17ME002	ABHISHEK AYYAPPA BHAT B	9.33	II Rank
3	4NI17ME131	SHARATH M S	9.31	III Rank
4	4NI17ME146	SUFAIZ CU	9.28	IV Rank
5	4NI17ME083	NAGAVARAPU SHRAVAN SANTH	9.23	V Rank
6	4NI17ME172	YOGINDRA K G	9.21	VI Rank
7	4NI17ME020	ARAVIND REDDY G	9.18	VII Rank
8	4NI17ME040	DHANYAKUMAR L	9.18	VII Rank
9	4NI17ME123	SANTHOSH D	9.17	VIII Rank
10	4NI17ME018	ANANTHA PADMANABHA	9.16	IX Rank

## Industrial &amp; Production Engineering

S. No.	USN	Name	CGPA	RANK
1	4NI17IP037	RAKSHITHA R	9.27	I Rank
2	4NI17IP005	AKASH H C	9.22	II Rank
3	4NI17IP026	M A NIKHIL SRINIVAS	9.21	III Rank

## Electrical &amp; Electronics Engineering

S. No.	USN	Name	CGPA	RANK
1	4NI17EE028	KUSHAL GOWDA N	9.61	I Rank
2	4NI17EE035	NIDA KOUSER	9.39	II Rank
3	4NI17EE029	LAVANYA M R	9.18	III Rank

## Electronics &amp; Communication Engineering

S. No.	USN	Name	CGPA	RANK
1	4NI17EC064	PRIYA BHAT	9.73	I Rank
2	4NI17EC057	PRAMOD N	9.66	II Rank
3	4NI17EC094	VAISHNAVI K N	9.65	III Rank
4	4NI17EC028	DEEKSHITHA T	9.61	IV Rank
5	4NI17EC067	RACHANA T G	9.56	V Rank
6	4NI17EC022	CHINMAI	9.48	VI Rank

## LIST OF RANK HOLDERS : UG 2017 - 2021 BATCH

## Computer Science &amp; Engineering

S. No.	USN	Name	CGPA	RANK
1	4NI17CS093	SHYAM R	9.94	I Rank
2	4NI17CS011	ANAGHA RAVISHANKAR	9.88	II Rank
3	4NI17CS114	BINDU R	9.79	III Rank
4	4NI17CS042	MRUDUL A KATTI	9.76	IV Rank
5	4NI17CS060	PRUTHVI M PATIL	9.75	V Rank
6	4NI17CS054	PRAKRUTHI MANJUNATH	9.74	VI Rank

## Information Science &amp; Engineering


S. No.	USN	Name	CGPA	RANK
1	4NI17IS055	POORVI S L	9.52	I Rank
2	4NI17IS074	SHITHIJ RAI K	9.52	I Rank
3	4NI17IS085	SUSHMIT M S	9.51	II Rank
4	4NI17IS008	AKASH KARIAPPA C	9.48	III Rank
5	4NI17IS019	CHANDANA D	9.48	III Rank
6	4NI17IS037	MANASA S	9.41	IV Rank
7	4NI17IS027	HARSHITA J	9.40	V Rank
8	4NI17IS044	N S SAHANA	9.37	VI Rank

  
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**LIST OF RANK HOLDERS**

**Master of Computer Applications (MCA) 2018 - 2021 BATCH**

<b>S. No.</b>	<b>USN</b>	<b>Name</b>	<b>CGPA</b>	<b>RANK</b>
1	4NI18MCA13	MONICA M	9.62	I Rank
2	4IK18MCA04	ARCHANA A	9.37	II Rank
3	4NI18MCA10	MADHURA H K	9.19	III Rank

  
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**LIST OF RANK HOLDERS : M.Tech 2019 - 2021 BATCH**

**M.Tech in Hydraulics (Civil Engg. Branch)**

S. No.	USN	Name	CGPA	RANK
1	4NI19CHY12	VASANTH KUMAR B M	9.05	I Rank
2	4NI19CHY03	GEETHALAKSHMI S	8.96	II Rank

**M.Tech in Structural Engineering (Civil Engg. Branch)**

S. No.	USN	Name	CGPA	RANK
1	4NI19CSE08	LAKSHMI N H	9.52	I Rank
2	4NI19CSE07	KUSUMA Y	9.40	II Rank

**M.Tech in Industrial Automation & Robotics (Mechanical Engg. Branch)**

S. No.	USN	Name	CGPA	RANK
1	4NI19MAR04	DIVEETH M P	9.25	I Rank
2	4NI19MAR08	MADHAV M KARPUR	9.25	I Rank
3	4NI19MAR10	NISCHAL R O	9.14	II Rank

**M.Tech in Machine Design (Mechanical Engg. Branch)**

S. No.	USN	Name	CGPA	RANK
1	4NI19MMD09	SUCHETHA KARIAPPA	9.52	I Rank
2	4NI19MMD04	D LOKESH	9.51	II Rank

**M.Tech in Nano Technology (Mechanical Engg. Branch)**

S. No.	USN	Name	CGPA	RANK
1	4NI19INT02	LOVESOME BENEDICT S	9.08	I Rank
2	4NI19INT05	MADHURYA S	8.96	II Rank

**M.Tech in Production Engineering & System Technology (IP Engg. Branch)**

S. No.	USN	Name	CGPA	RANK
1	4NI19MPT02	CHANDRASHEKAR H K	9.26	I Rank
2	4NI19MPT07	RAVIKUMAR M	9.08	II Rank
3	4NI19MPT06	PALLAVI B K	9.08	II Rank

**M.Tech in Computer Applications in Industrial Drives (E & E Engg. Branch)**

S. No.	USN	Name	CGPA	RANK
1	4NI19ECD04	PRIYA S	9.03	I Rank
2	4NI19ECD05	RANJITHA G	8.92	II Rank

**LIST OF RANK HOLDERS : M.Tech 2019 - 2021 BATCH****M.Tech in Power System (E & E Engg. Branch)**

S. No.	USN	Name	CGPA	RANK
1	4NI19EPS07	HARISHA K	9.39	I Rank
2	4NI19EPS13	SHREYA TARALI	8.91	II Rank

**M.Tech in Networking & Internet Engineering (E & C Engg. Branch)**


S. No.	USN	Name	CGPA	RANK
1	4NI19LNI05	MANUSHREE N	9.41	I Rank
2	4NI19LNI03	DEEPTHI N	9.30	II Rank

**M.Tech in Information Technology (CS Engg. Branch)**

S. No.	USN	Name	CGPA	RANK
1	4NI19SIT10	MARIYAM NABILA NALBAND	9.33	I Rank
2	4NI19SIT04	ARPITHA S	9.30	II Rank


**M.Tech in Computer Network Engineering (IS Engg. Branch)**

S. No.	USN	Name	CGPA	RANK
1	4NI19SCN11	UDAY DESHPANDE	9.47	I Rank
2	4NI19SCN04	MADHU NAGARAJ	9.28	II Rank

  
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MYSURU-570008


**The National Institute of Engineering, Mysuru**  
**Semester wise statistics of ODD Semester UG 2020-21**

Sl. No	Branch	1st Sem			3th Sem			5th Sem			7th Sem		
		Appeared	Passed	Pass%	Appeared	Passed	Pass%	Appeared	Passed	Pass%	Appeared	Passed	Pass%
1	Civil Engg.	123	78	63.41	131	106	80.92	111	94	84.68	122	118	96.72
2	Mechanical Engg.	173	127	73.41	197	137	69.54	166	124	74.70	184	183	99.46
3	Industrial & Production Engg.	46	27	58.70	52	39	75.00	53	47	88.68	54	53	98.15
4	Electrical & Electronics Engg.	109	95	87.16	136	102	75.00	55	55	100.00	59	59	100.00
5	Electronics & Communication Engg.	122	107	87.70	143	118	82.52	115	96	83.48	123	123	100.00
6	Computer Science & Engg.	127	112	88.19	136	111	81.62	131	128	97.71	133	129	96.99
7	Information Science & Engg.	126	111	88.10	137	115	83.94	116	110	94.83	102	102	100.00
<b>Total</b>		<b>826</b>	<b>657</b>	<b>79.54</b>	<b>932</b>	<b>728</b>	<b>78.11</b>	<b>747</b>	<b>654</b>	<b>87.55</b>	<b>777</b>	<b>767</b>	<b>98.71</b>

  
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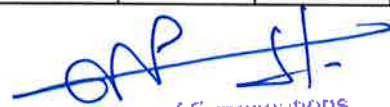
**The National Institute of Engineering, Mysuru**  
**Semester wise statistics of Even Semester UG 2020-21**

Sl. No	Branch	2nd Sem			4th Sem			6th Sem			8th Sem		
		Appeared	Passed	Pass%	Appeared	Passed	Pass%	Appeared	Passed	Pass%	Appeared	Passed	Pass%
1	Civil Engg.	123	111	90.24	127	126	99.21	111	110	99.10	122	122	100.00
2	Mechanical Engg.	172	157	91.28	194	188	96.91	166	163	98.19	183	182	99.45
3	Industrial & Production Engg.	46	42	91.30	52	51	98.08	53	53	100.00	54	54	100.00
4	Electrical & Electronics	109	104	95.41	134	129	96.27	55	55	100.00	59	59	100.00
5	Electronics & Communication Engg.	122	120	98.36	135	133	98.52	114	108	94.74	123	123	100.00
6	Computer Science & Engg.	127	125	98.43	133	131	98.50	131	131	100.00	134	134	100.00
7	Information Science & Engg.	126	124	98.41	128	125	97.66	116	110	94.83	102	102	100.00
<b>Total</b>		<b>825</b>	<b>783</b>	<b>94.91</b>	<b>903</b>	<b>883</b>	<b>97.79</b>	<b>746</b>	<b>730</b>	<b>97.86</b>	<b>777</b>	<b>776</b>	<b>99.87</b>

  
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**The National Institute of Engineering, Mysuru**  
**Semester wise statistics of ODD Semester PG 2020-21**

Sl. No	Branch	1st Sem			3rd Sem			5th Sem		
		Appeared	Passed	Pass%	Appeared	Passed	Pass%	Appeared	Passed	Pass%
1	Master of Computer Applications	60	55	91.67	55	51	92.73	61	56	91.80
2	Hydraulics	15	11	73.33	12	12	100.00			
3	Structural Engg.	18	16	88.89	14	14	100.00			
4	Computer Application in Industrial Drives	13	8	61.54	12	12	100.00			
5	Power System	13	13	100.00	15	15	100.00			
6	Networking & Internet Engg.	12	12	100.00	9	9	100.00			
7	Information Technology	12	11	91.67	13	13	100.00			
8	Computer Network Engg.	15	15	100.00	11	11	100.00			
9	Production Engg. & System Technology	6	4	66.67	10	10	100.00			
10	Industrial Automation & Robotics	11	11	100.00	14	14	100.00			
11	Nano Technology	9	7	77.78	7	7	100.00			

  
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**Semester wise statistics of Even Semester PG 2020-21**

Sl. No	Branch	2nd Sem			4th Sem			6th Sem		
		Appeared	Passed	Pass%	Appeared	Passed	Pass%	Appeared	Passed	Pass%
1	Master of Computer Applications	60	54	90.00	47	44	93.62	61	60	98.36
2	Hydraulics	11	11	100.00	12	7	58.33			
3	Structural Engg.	18	16	88.89	14	14	100.00			
4	Computer Application in Industrial Drives	13	13	100.00	12	10	83.33			
5	Power System	13	12	92.31	15	14	93.33			
6	Networking & Internet Engg.	12	11	91.67	9	9	100.00			
7	Information Technology	12	12	100.00	13	13	100.00			
8	Computer Network Engg.	15	14	93.33	11	11	100.00			
9	Production Engg. & System Technology	6	5	83.33	10	9	90.00			
10	Industrial Automation & Robotics	11	11	100.00	14	14	100.00			
11	Nano Technology	9	8	88.89	7	7	100.00			
12	Machine Design	16	16	100.00	14	14	100.00			
<b>Total</b>		<b>196</b>	<b>183</b>	<b>93.37</b>	<b>178</b>	<b>166</b>	<b>93.26</b>	<b>61</b>	<b>60</b>	<b>98.36</b>

**27th Academic Council Meeting**  
**The National Institute of Engineering, Mysuru**  
**Summary of Award of Degree - UG / MCA / M.Tech 2020-2021**


Sl. No.	BRANCH	PDC issued	Rank Awarded
1	Civil Engineering	127	6
2	Mechanical Engineering	196	10
3	Industrial & Production Engineering	67	3
4	Electrical & Electronics Engineering	66	3
5	Electronics & Communication Engineering	137	6
6	Computer Science & Engineering	143	6
7	Information Science & Engineering	122	8
<b>Total</b>		<b>858</b>	<b>42</b>

**Master of Computer Applications (MCA)**

1	MCA	58	3
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**M.Tech**

Sl. No.	BRANCH	PDC issued	Rank Awarded
1	Hydraulics	8	2
2	Structural Engineering	16	2
3	Industrial Automation & Robotics	14	3
4	Machine Design	15	2
5	Nano Technology	7	2
6	Production Engineering & System Technology	9	3
7	Computer Applications in Industrial Drives	10	2
8	Power Systems	15	2
9	Networking & Internet Engineering	9	2
10	Information Technology	13	2
11	Computer Network Engineering	11	2
<b>Total</b>		<b>127</b>	<b>24</b>
<b>Grand Total</b>		<b>1043</b>	<b>69</b>

  
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 The National Institute of Engineering  
 MYSURU-570008

## CHAPTER 10

### RESEARCH PROGRAMMES

#### *10.1 M.Sc. (Engineering) By Research – Number of Students Registered*

No Candidate has been registered during 2020-201

#### *10.2 M.Sc. (Engineering) By Research – Number of Students Awarded*

No Candidate has been awarded M.Sc. (Engineering) By Research Degrees during 2020-21

#### *10.3 Ph.D. Programmes – Number of Scholars Registered - 2020*

<b>Branch</b>	<b>Number Registered</b>
Department of Civil Engineering	03
Department of Mechanical Engineering	01
Department of Electrical & Electronics Engineering	04
Department of Electronics & Communication Engineering	00
Department of Industrial & production Engineering	01
Department of Computer Science & Engineering	00
Department of Physics	00
Department of Chemistry	00

#### *10.4 Ph.D. Programmes – Number of Ph.D. Degrees Awarded*

<b>Branch</b>	<b>Number Awarded</b>
Department of Civil Engineering	01
Department of Mechanical Engineering	04
Department of Electrical & Electronics Engineering	01
Department of Electronics & Communication Engineering	00
Department of Industrial & production Engineering	00
Department of Computer Science & Engineering	04
Department of Physics	00
Department of Chemistry	00

## CHAPTER 11

### RESEARCH & DEVELOPMENT

<b>Ongoing Research Projects Funded by Various External Agencies</b>						
Sl. No.	Name of the PI	Department	Title of the Project	Funding Agency	Date of Sanction & Tenure of the Project	Amount Sanctioned (Rs.)
1.	Dr Sathisha H M	Mechanical Engineering	Numerical analysis of Heat and Mass Transfer in various grain Drying Process for food Processing applications	SERB- TARE, DST, Govt. of India	02.12.2021 03 years	₹15,00,000
2.	Dr Mrinal K R	Mechanical Engineering	Enhancing the performance of solar collector using nanofluids	SERB- TARE, DST, Govt. of India	02.12.2021 03 years	₹15,00,000
3.	Dr.H.Pradeepa	Electrical & Electronics Engineering	Centre of Excellence in Renewables, Battery management System and Internet of Things	DST – FIST, Govt. of India	05.03.2021 05 years	₹96,00,000
4.	Dr. Sanghamesh	Chemistry	Biodegradable Plastic Mulch Films from Agriculture waste for Sustainable Agriculture	VGST-Govt.of Karnataka	26.08.2021 01 year	₹3,00,000
5.	Dr. Nithin K S	Chemistry	Non Destructive Testing Instrument for Identification of Silk Content in the Fabric	Central Silk Board	02.07.2021 03 years	₹22,80,000
6.	Dr.Nithin K.S.	Department of Chemistry	Development of Artificial Intelligence Empowered Multi-Sensor Approach for Gender Classification and Separation of Silkworm Cocoons.	Central Silk Board	02.02.2021 01 Year	₹17,92,000
7.	Dr. Chidanandappa R.	Electrical & Electronics Engineering	Establishment of Real Time Monitoring System R & D Facility for Efficient Operation of Campus Power Distribution Network	K-STEPS VGST (KFIST-L1) Govt. of Karnataka	08.01.2020 02 years	₹20,00,000
8.	Dr. Siddarth Joshi	Mechanical Engineering	Preparation and Evaluation of VITAMIN A Encapsulation using different Diblock Copolymers Matrices	DST, SERB Govt. of India. TARE (Joint Association with DFRL)	26.09.2019 03 years	₹18,30,000
9.	Dr. Yusuf Javeed	Civil Engineering	Hydrological Study in the Catchment of Western Ghats with Impetus on Ground Water System	AICTE, New Delhi, Govt. of India	13.03.2019 03 years	₹6,40,000
10.	Dr. Sripathi Punchithaya	Physics	Spectroscopic Measurement of Neutral and Ion Temperatures and Their Radial Profiles in The Edge Region of Aditya Upgrade Tokamak	DAE BRNS, Govt. of India	11.05.2018 02 years	₹12,05,900
11.	Dr. Siddarth Joshi	Mechanical Engineering	Synchrotron Based X-Ray Diffraction Studies of Various Layers in Perovskite Thin Film Based Solar Cells	UGC DAE CSR Govt. of India	28.10.2018 02 years	₹7,26,360
12.	Dr. H. Pradeepa	Electrical & Electronics Engineering	Digital Protection Algorithms for Renewable Integrated Grid	K-STEPS VGST, Govt. of Karnataka	27.08.2018 02years	₹20,00,000

13.	Dr. R. Yadupathi Putty	Civil Engineering	Impact of Lu/Lc and Catchment Characteristics on Runoff and Ground Water Dynamics of Western Ghats Karnataka	MOES Govt. of India	05.06.2018 03 years	₹30,70,660
14.	Dr.Siddarth Joshi	Mechanical Engineering	Surface Interface Studies of Nanostructured Metal oxide Thin Films Towards the Photovoltaic/Sensors Applications	UGC DAE CSR Govt. of India	31.03.2018 02 years	₹90,000
15.	Dr. Suresha B.	Mechanical Engineering	Polyamide Alloyed with Thermoplastic Elastomer Fibrillar Reinforced with Nano Fillers Multi Phased Composite for Bearing Applications	UGC DAE CSR Govt. of India	31.03.2018 02 years	₹90,000
16.	Principal, NIE, Mysuru	Institute	Karnataka New Age Incubation Net Work Centre - (IT Incubation Centre Programme)	Dept. of IT, BT and ST, Bangalore, KBTIS Govt. of Karnataka	30.12.2013 06 years	₹55,00,000
17.	Mr. Shamsundar S.	Mechanical Engineering	Establishment of Information & Demonstration Centre Under Biofuel Sector	KSBDB, Bangalore, Govt. of Karnataka	19.04.2011 09 years	₹46,40,000
<b>Total</b>				<b>₹ 3,87,64,920.00</b>		

### NIE-CRD Accepted Projects 2020-21

#### **A. Electronics and Communication Engineering**

<b>Sl. No.</b>	<b>Title of the Project</b>	<b>Code</b>	<b>Guide/Faculty</b>
1	Ambient back scatter communication to counteract jamming attacks on wireless networks	UG/ECE001	Dr. Rajalekshmi Kishore
2	Design and development of smart stethoscope using active acoustic filtering techniques	Faculty/ECE001	Ms. Shruthi R. Ms. Deepthi M. S.
3	Analysis of age information in cognitive radio based IoT systems	Faculty/ECE002	Dr. Rajalekshmi Kishore
4	Health monitoring of premature infants through the EEG signals – an FPGA implementation	Faculty/ECE003	Dr. Shashidhara H. R. Dr. Remya Jayachandran

#### **B. Electrical and Electronics Engineering**

<b>Sl. No.</b>	<b>Title of the Project</b>	<b>Code</b>	<b>Guide/Faculty</b>
1	Boost PFC Converter with a Novel Control Strategy	UG/EEE01	Dr.B.R Ananthpadmanabaha
2	Development of IOT based prototype electrical distribution management system with renewable integration	UG/EEE02	Dr. Chidanandappa R.
3	APP Based Remote Controlled Security Door Control System	UG/EEE003	Dr.Gurumurthy S.
4	IMC Based brushless DC motor performance evaluation for EV applications	PG/EEE001	Dr. Shankar Nalinakshan

5	Control of grid interfacing inverter of wind-based energy system	PG/EEE002	Dr. Jayasankar.V.N.
6	Design and implementation of a novel control strategy for the grid integration of solar energy system	Faculty/EEE01	Dr. Jayasankar.V.N. Dr. Shankar Nalinakshan

### C. Computer Science & Engineering

Sl. No.	Title of the Project	Code	Guide/Faculty
1	Blockchain based e-voting System	UG/CS01	Dr.C.Vidyaraj
2	Smart Irrigation System	UG/CS02	Dr. Yuvaraj B.N. Mr.Narender M.
3	Automated Waste Segregation System	UG/CS03	Dr.Anitha R. Ms.Prameela
4	Design and Actualization of Block Chain and IoT based Logistics System	UG/CS04	Ms.Valsala B.R.
5	IoT based Traffic Signal Monitoring & Controller System	UG/CS05	
6	IoT Based Smart Light	UG/CS06	Ms.Rashmi M.R. Dr. Abhinandan S.P.
7	Monitoring of Electricity Distribution System using IoT	UG/CS07	Dr. Rekha K.S.
8	Energy Efficient Shady activity Detection using IoT Sensors	UG/CS08	Ms.Padmini Dr. Shabana Sultana
9	An Edge Driven Security Framework for Intelligent Internet of Things	UG/CS09	Mr.Narender M. Dr. Yuvaraj B.N.

### D. Industrial & Production Engineering

Sl. No.	Title of the Project	Code	Guide/Faculty
1	Banana Waste Based Biodegradable Plastic Mulches for Sustainable Agriculture	UG/IP01	Dr. Shailesh Rao A.
2	Study of Mechanical and Tribological Properties of Aluminium Metal Matrix Composites Reinforced with Organic Filler	UG/IP02	Dr. Y.S.Varadarajan
3	Integrated Energy Recuperation and Conveyance while braking a prime mover using a flywheel	UG/IP01	Dr. Vadivel S.M.

4	Characterization of Magnesium-Silver (Mg-Ag) Alloy for its Corrosion properties and Mechanical Behaviour	UG/IP02	Dr.Y.S.Varadarajan Dr. Shailesh Rao A.
5	Design and develop a method to predict the behavior of materials under combined loading (Centrifugal and thermal)	UG/IP02	Mr. Santosh Kumar
6	Three-body Abrasive wear behavior of Polylactic acid (PLA) composites	PG/IP02	Mr. Santosh Kumar
7	Corrosion and Erosion behavior of Inconel 718 alloy produced by Laser Powder Bed Fusion technique	PG/IP02	Ms. B.M.Latha
8	Tribological study of Inconel 718/ Inconel 625 Process by laser powder bed fusion technique	PG/IP02	Ms. Rashmi S.N.
9	Mechanically Flexible Luminescent Down-convertes Towards Enhancing the Photovoltaic Performance of Perovskite Solar Cells	Faculty/IP01	Dr. K .M. Subbaiah Dr. H. N. Divakar
10	Studies on Tool Wear and Cutting Performance of Nanocoated Inserts for High Speed Machining Applications	Faculty/IP02	Dr. Shailesh Rao A.
11	Mechanical and Fracture Characterization of Biodegradable reinforced Polymers	Faculty/IP03	Mr. Santosh Kumar
12	Studies on High Temperature Wear Characteristics of inconel 625 and Inconel 718 with and without slurry	Faculty/IP04	Dr. Vadivel S. M. Mr. Bharath T. S.

### E. Mechanical Engineering

Sl. No.	Title of the Project	Code	Guide/Faculty
1	Bore well – Rescuer Machine	UG/Mech 001	Dr.N.V.Raghavendra
2	Development of facial recognition attendance system with automatic thermal screening and sanitization	UG/Mech 002	Dr.N.V.Achutha Mr. Vinodkumar H.P.
3	Comprehensive evaluation of tribological characteristics of castor mahua blend with nano additives using four ball tester	UG/Mech 003	Dr.Suresha B.
4	Design and development of semi automated wall painting robot	UG/Mech004	Mr.Rakesh M. Dr.K.R.Prakash

5	Design and fabrication of combined Mechatronics Hooper control and sorting system	PG/Mech01	Mr.Vinodkumar H.P.
6	Designing a haptic glove using piezoelectric polymer	PG/Mech02	Dr.K.R.Prakash Dr.Nithin K.S.
7	Mechanical behaviour of HDFE nano composites: An experimental investigation using 3D printing	PG/Mech03	Dr.Suresha.B.
8	Numerical and experimental study for the vibration control of complex shaped flexible manipulators	PG/Mech04	Dr.Imran M. Janadar
9	Development of low cost test rig for the study of dynamic characteristics of railway suspension system.	PG/Mech05	Mr.Prithvi C.
10	Black cotton soil stabilization using nano composites based hydrogels to enhance the crop yield	PG/Mech06	Mr.Madhusudhana R.
11	Characterization of bio based nano composites for light weight tribo component developed by FDM technology	Faculty/Mech01	Dr.Suresha B.
12	Energy harvesting from aircraft vibrations using piezoelectric materials	Faculty/Mech02	Dr. Aravindrao M. Yadwad
13	Investigation and optimization of NiO hole transport layer on perovskite thin films for photo voltaic applications	Faculty/Mech03	Dr. Siddharth Joshi
14	Non-linear dynamical evaluation of unsteady flow field around a flapping wing	Faculty/Mech04	Mr. P. Srinag

#### F. Civil Engineering

Sl. No.	Title of the Project	Code	Guide/Faculty
1	A simplified approach to evaluate structure exposed to elevated temperature	UG/Civil 01	Dr.N.Suresh
2	Biological concrete	UG/Civil 02	Dr.N.C.Balaji Mrs. SriRashmi S.
3	An experimental investigation on usage of expanded polystyrene as fine aggregates in concrete paver blocks	UG/Civil 03	Mr.Madhan Kumar L. Ms. Aiswaria K.
4	Repair and restoration of the historical Wellesley bridge at Srirangapatna - A Case study	UG/Civil 04	Mr.Madan Kumar L.

5	Studies on tensile behaviour of steel fibre- reinforced concrete under monotonic stress	PG/Civil 01	Dr.Naveen B.O
6	Evaluation of Mechanical properties and strength recovery of post fire curing of recycled aggregate concrete	PG/Civil 02	Mr. Vadiraj Rao N.R.
7	Studies on the past cracking behaviour of recycled aggregate concrete beams subjected to sustained elevated temperature	Faculty/Civil 01	Mr. Vadiraj Rao N.R.

### G. Interdisciplinary

Sl. No.	Title of the Project	Code	Guide/Faculty
1	Collaborative development of indigenous low cost hydrological monitoring equipment	Faculty/Civil/EEE/01	Dr. Yusuf Javeed Dr.Likith Kumar M.V.

### H. Chemistry

Sl. No.	Title of the Project	Code	Guide/Faculty
1	Design, Docking and Synthesis of 5-phenyl-4-((2-(piperazin-1-yl)ethyl)thio)-1,2,3-oxadiazole analogues: Application towards Antimicrobial activities	Faculty/Chemistry01	Dr.Lakshmi Ranganth V.
2	Development and performance evaluation of polymer based Pb-Free piezoelectrics	Faculty/Chemistry02	Dr. Nithin. K.S.
3	Nanotechnology Enabled Organic Polymer composites for Optical and Packaging Application	Faculty/Chemistry03	Dr. Sangamesha M. A.

### I. Physics

Sl. No.	Title of the Project	Code	Guide/Faculty
1	Structure study of medically important molecules	Faculty/Physics 01	Dr. S. Neetha
2	Characterizations of materials using beta and gamma radiations	Faculty/Physics 02	Dr. B. M. Sankarshan
3	Structural characterization and molecular modelling studies of biologically important heterocyclic compounds	Faculty/Physics 03	Dr. Chandra

**Total Project Proposal Submitted**

<b>Sl. No.</b>	<b>Branches</b>	<b>U.G.</b>	<b>P.G.</b>	<b>Faculty</b>
1	Electronics and Communication Engineering	1	-	3
2	Electrical and Electronics Engineering	3	2	1
3	Computer Science Engineering	9	-	-
4	Industrial Production Engineering	5	3	4
5	Mechanical Engineering	4	6	4
6	Civil Engineering	4	2	1
7	Interdisciplinary	0	0	1
8	Chemistry	0	0	3
9	Physics	0	0	3
	<b>Total Project Proposals</b>	<b>26</b>	<b>13</b>	<b>20</b>

**LIST OF PUBLICATIONS BY FACULTY MEMBERS IN SCOPUS INDEXED JOURNALS 2020**

SL. NO.	AUTHOR	TITLE	YEAR	SOURCE TITLE	VOLUME	ISSUE	PAGE START	PAGE END	DOI	PUBLISHER	ISSN	DEPARTMENT
1	Lakshmi Ranganatha V., Pramila S., Nagaraju G., Udayabhanu, Surendra B.S., Mallikarjunaswamy C. (WoS)	Cost-effective and green approach for the synthesis of zinc ferrite nanoparticles using Aegle Marmelos extract as a fuel: catalytic, electrochemical, and microbial applications	2020	Journal of Materials Science: Materials in Electronics	31	20			<a href="https://doi.org/10.1007/s10854-020-04295-6">https://doi.org/10.1007/s10854-020-04295-6</a>	SPRINGER	9574522	CHEMISTRY
2	Ravi Kumar V., Prakash K.R., Nithin K.S.	Strain sensing and characterization of CNFs wrapped with polyaniline/polypyrrole based polyester composites	2020	International Journal of Mechanical and Production Engineering Research and Development	10	2	1267	1274	10.24247/ijmperdapr2020121	TRANS STELLAR	22496890	CHEMISTRY
3	Patil S.M., Kumari V.B.C., Shirahatti P.S., Sujay S., Tejaswini M., Ranganatha V.L., Mallikarjunaswamy C., Javanthi M.K., Ramu R.	Pharmacotherapy of COVID-19: A Perspective of Pathogenicity and Life Cycle	2020	Biomedical and Pharmacology Journal	13	3			<a href="https://dx.doi.org/10.13005/bpj/2033">https://dx.doi.org/10.13005/bpj/2033</a>	Oriental Scientific Publishing Company	9746242	CHEMISTRY
4	Sivadasu P., Gowda D.V., Subramani N.K., Vishweshwaraiah B.M., Shivanna S., Hatna S. (WoS)	Direct brain targeted nanostructured lipid carriers for sustained release of schizophrenic drug: Formulation, characterization and pharmacokinetic studies	2020	Indian Journal of Pharmaceutical Education and Research	54	1	73	84	10.5530/ijper.54.1.9	ASSOC PHARMACEUTICAL TEACHERS INDIA	195464	CHEMISTRY
5	Mallikarjunaswamy C., Lakshmi Ranganatha V., Ramu R., Udayabhanu, Nagaraju G. (WoS)	Facile microwave-assisted green synthesis of ZnO nanoparticles: application to photodegradation, antibacterial and antioxidant	2020	Journal of Materials Science: Materials in Electronics	31	2	1004	1021	10.1007/s10854-019-02612-2	SPRINGER	9574522	CHEMISTRY
6	Kotagi P.B., Raj P., Asaithambi G.	Modeling lateral placement and movement of vehicles on urban undivided roads in mixed traffic: A case study of India	2020	Journal of Traffic and Transportation Engineering (English Edition)	7	6	860	873	<a href="https://doi.org/10.1016/j.jtte.2018.06.008">https://doi.org/10.1016/j.jtte.2018.06.008</a>	ELSEVIER	20957564	CIVIL
7	Gourav K., Ullas S.N., Venkatarama Reddy B.V. (WoS)	Studies on properties of Flowable Earth Mix concrete for monolithic load bearing walls	2020	Construction and Building Materials	250				10.1016/j.conbuildmat.2020.118876	ELSEVIER	9500618	CIVIL
8	Weed D.A., Tennant A.G., Motamedi M.H., Gourav K., Foster C.D., Reddy B.V.V. (WoS)	Finite element model application to flexural behavior of cement stabilized soil block masonry	2020	Materials and Structures/Materiaux et Constructions	53	3			10.1617/s11527-020-01490-z	SPRINGER	13595997	CIVIL
9	Jyothi D.N., Prasanna H.S., Vishwanath C.	A study on index properties of kaolinite and bentonite sand mixtures	2020	AIP Conference Proceedings	2204	1			<a href="https://doi.org/10.1063/1.5141546">https://doi.org/10.1063/1.5141546</a>		0094243X	CIVIL
10	Prasanna H.S., Basavaraju, Chaitra A.R.	Characterization of Compacted Fine-Grained Soils	2020	Lecture Notes in Civil Engineering	85		1	19	<a href="https://doi.org/10.1007/978-981-15-6086-6_1">https://doi.org/10.1007/978-981-15-6086-6_1</a>	SPRINGER	23662557	CIVIL
11	V S., Suresh N.	Residual properties of normal-strength concrete subjected to fire and sustained elevated temperatures: A comparative study	2020	Journal of Structural Fire Engineering					<a href="https://doi.org/10.1108/JSFE-02-2020-0007">https://doi.org/10.1108/JSFE-02-2020-0007</a>	EMERALD PUB.	20402317	CIVIL

12	Prasanna H.S., Harshavardhan S.C., Chaitra A.R., Pooja P.K., Beerasha P.	Increasing the yield of ring wells by user friendly method	2020	Lecture Notes in Civil Engineering	84		1	15	<a href="https://doi.org/10.1007/978-981-15-6090-3_1">https://doi.org/10.1007/978-981-15-6090-3_1</a>	SPRINGER	23662557	CIVIL
13	K. M. Mahanthes and B. O. Naveen	Dynamic Analysis of Multi-Layered Grid Space Structures	2020	IOP Conference Series: Materials Science and Engineering	1006 - 012024	1	1	11	<a href="https://iopscience.iop.org/arti">https://iopscience.iop.org/arti</a>	IOP Publishing Ltd	1757-899X	Civil
14	H. B. Akhilesh and B. O. Naveen	Dynamic Analysis of Vertical Irregular Tall Structural System	2020	IOP Conference Series: Materials Science and Engineering	1006 - 012021	1	1	16	<a href="https://iopscience.iop.org/arti">https://iopscience.iop.org/arti</a>	IOP Publishing Ltd	1757-899X	Civil
15	Akshay Koushik H., Bharadwaj R.B., Naik R.P.E., Ramesh G., Yogesh M.J., Habeeb S.	Detection and classification of diseased mangoes	2020	2020 International Conference on Computer Science and Its Application in Agriculture, ICOSICA 2020					10.1109/ICOSICA49951.2020.9243277	IEEE		CSE
16	Yuvaraju B.N., Narender M.	To Defeat DDoS Attacks in Cloud Computing Environment Using Software Defined Networking (SDN)	2020	Advances in Intelligent Systems and Computing	1224		73	93	<a href="https://doi.org/10.1007/978-3-030-51965-0_7">https://doi.org/10.1007/978-3-030-51965-0_7</a>	SPRINGER	21945357	CSE
17	Narender M., Yuvaraju B.N.	Preemptive modelling towards classifying vulnerability of DDoS attack in SDN environment	2020	International Journal of Electrical and Computer Engineering	10	2	1599	1611	<a href="http://doi.org/10.11591/ijece.v10i2.pp1599-1611">http://doi.org/10.11591/ijece.v10i2.pp1599-1611</a>		20888708	CSE
18	Rekha K.S., Kulkarni A.D., Phaneendra H.D.	A Novel Approach for the Run-Time Reconfiguration of Heterogeneous Applications in a Smart Home Monitoring System	2020	Lecture Notes in Networks and Systems	98		263	271	<a href="https://doi.org/10.1007/978-3-030-33846-6_30">https://doi.org/10.1007/978-3-030-33846-6_30</a>	SPRINGER	23673370	CSE
19	Jayasri B.S., Raghavendra Rao G.	A novel predictive optimization scheme for energy-efficient reliable operation of a sensor in dynamic scenarios	2020	International Journal of Electrical and Computer Engineering	10	1			<a href="http://doi.org/10.11591/ijec.e.v10i1.pp323-332">http://doi.org/10.11591/ijec.e.v10i1.pp323-332</a>		20888708	CSE
20	Dr. Jayasri B.S	Real-time object detection and face recognition system to assist the visually impaired	2020	Journal of physics conference series, 13-14 August 2020, First International Conference on Advances in Physical Sciences and Materials.				1706(2020)	doi:10.1088/1742-6596/1706/	IOP publisher		CSE
21	Dr. Jayasri B.S	Permissioned blockchain based public procurement system	2020	First International Conference on Advances in Physical Sciences and Materials , Journal of Physics: Conference Series				1706 (2020) 012157	doi:10.1088/1742-6596/1706/	IOP publisher		CSE
22	Suresh K., Padala P., Prasad Reddy P.	Secure Communication for Intelligent Enterprises	2020	Proceedings of the 5th International Conference on Inventive Computation Technologies ICICT 2020					10.1109/ICICT48043.2020.9112560	IEEE		CSE (STUDENT NIE)
23	Mahesha Y., Nagaraju C.	A LITERATURE REVIEW on ANALYSIS OF PALM PATTERNS to DETECT CONGENITAL HEART DISEASES	2020	Biomedical Engineering - Applications, Basis and Communications	32	2			<a href="https://doi.org/10.4015/S101623722050012X">https://doi.org/10.4015/S101623722050012X</a>		10162372	ECE
24	Shashidhara H.R., Prasad S.N., Prabhudeva B.L., Kulkarni S.S.	Design and implementation of argo ni-noc micro-architecture for mp soc using gals architecture	2020	Lecture Notes in Electrical Engineering	569		451	463	<a href="https://doi.org/10.1007/978-981-13-8942-9_37">https://doi.org/10.1007/978-981-13-8942-9_37</a>	SPRINGER	18761100	ECE
25	Hegde S., Nagapadma R.	Medical Image Compression Scheme Using Number Theoretic Transform	2020	Advances in Intelligent Systems and Computing	992		43	53	<a href="https://doi.org/10.1007/978-981-13-8798-2_5">https://doi.org/10.1007/978-981-13-8798-2_5</a>	SPRINGER	21945357	ECE

26	Shashank Hegde, Roopa K, Prabhulingesh K and Rohith Pandith	Remote Monitoring with Voice Command Control and Image Analysis	2020	International Journal of Advanced Science and Technology	Vol. 29,	10S	4355	4369			SERSC	2005-4238	ECE
27	Remya, Jayachandran, P. C. Subramaniam, and K. J. Dhanaraj.	"A novel tunable gain CMOS buffer amplifier for large resistive loads." Integration 77: 1-12.	2020	Integration-The VLSI journal Elsevier	77	#####	1	12		<a href="https://doi.org/10.1016/j.vlsi.2020.07.001">https://doi.org/10.1016/j.vlsi.2020.07.001</a>	ELSEVIER		ECE
28	Santhy P Kuruvilla, N M Renukappa and <b>Mythri R</b>	Assessment of Hydrophobicity of Silicone and Fiber Reinforced Filled Epoxy Composites under Contamination	2020	IEEE Transactions on Dielectrics and Electrical Insulation	27	2	649	657	10.1109/TDEI.2020.008464	IEEE	<b>Print ISSN:</b> 1070-9878 <b>Electronic ISSN:</b> 1558-4135		ECE
29	Jayasankar V.N., Vinatha U.	Backstepping Controller with Dual Self-Tuning Filter for Single-Phase Shunt Active Power Filters under Distorted Grid Voltage Condition	2020	IEEE Transactions on Industry Applications	56	6	7176	7184	10.1109/TIA.2020.3025520	IEEE		939994	EEE
30	Venkatesh A., Pradeepa H., Chidanandappa R., Nalinakshan S., Jayasankar V.N.	Brushless motor performance optimization by eagle strategy with firefly and PSO	2020	SSRG International Journal of Engineering Trends and Technology	68	9	146	153	10.14445/22315381/IJETT-V68I9P220	Seventh Sense Research Group		2231-5381	EEE
31	Venkatesh A., Nalinakshan S., Kiran S.S., Pradeepa H.	Energy transmission control for a Grid-connected modern power system Non-Linear loads with a Series Multi-Stage Transformer Voltage Reinjection with controlled converters	2020	SSRG International Journal of Engineering Trends and Technology	68	8			10.14445/22315381/IJETT-V68I8P2175	Seventh Sense Research Group		23490918	EEE
32	Baig Z., Shivakumar S.B., Ananthapadmanabha T.	A multi-objective hybrid algorithm for planning electrical distribution system	2020	International Journal of Electrical Engineering and Technology	11	3	66	82	10.34218/IJETT.11.3.2020.009	IAEME PUB.		9766545	EEE
33	Gurumurthy H., Bheemappa S., Chidanandappa R., Bhat P.	Optimization of Bio-based Liquid Transformer Insulator using MOORA Method	2020	Electric Power Components and Systems					<a href="https://doi.org/10.1080/15325008.2020.1854380">https://doi.org/10.1080/15325008.2020.1854380</a>	TAYLOR AND FRANCIS		15325008	EEE
34	Madhusudhan M., Kumar N., Pradeepa H.	Optimal location and capacity of DG systems in distribution network using genetic algorithm	2020	International Journal of Information Technology (Singapore)					<a href="https://doi.org/10.1007/s41870-020-00545-2">https://doi.org/10.1007/s41870-020-00545-2</a>	SPRINGER		25112104	EEE
35	Bilgundi S.K., Shivu M., Pradeepa H., Likith Kumar M.V.	Analysis of the Transient Stability of a Multi-machine System with SVC	2020	Lecture Notes in Electrical Engineering	686		1003	1016	<a href="https://doi.org/10.1007/978-981-15-7031-5_96">https://doi.org/10.1007/978-981-15-7031-5_96</a>	SPRINGER		18761100	EEE
36	Aishwarya p Kamatagi ., Rajeshwari B. UMADI, sujit M.S.	Development of Energy Meter Monitoring System (EMMS) for Data Acquisition and Tampering Detection using IoT	2020	Proceedings of CONECT 2020 - 6th IEEE International Conference on Electronics, Computing and Communication Technologies					10.1109/CONECT50063.2020.9198495	IEEE			EEE (STUDENT)
37	P MADHU ., SHAILESH RAO A	Interactive approach in improving rigidity of lathe structure	2020	International Journal on Interactive Design and Manufacturing					<a href="https://doi.org/10.1007/s12008-020-00732-2">https://doi.org/10.1007/s12008-020-00732-2</a>	SPRINGER		19552513	IPE
38	Darshan C.J., Mahendra H.S., Hemaraju, Rashmi S.N.	Inelastic Behavior of en 31 Steel Metallic Surface Subjected to Hard Body	2020	IOP Conference Series: Materials Science and Engineering	925	1			<a href="https://doi.org/10.1088/1757-899X/925/1/012046">https://doi.org/10.1088/1757-899X/925/1/012046</a>			17578981	IPE
39	Shailesh Rao A, Madhu P	Effect of Shear Center for Different sections for Improving Rigidity of Lathe Bed	2020	International Journal of Advanced	29	3	12174	12189	<a href="http://sersc.org/journals/index.php/ijadv">http://sersc.org/journals/index.php/ijadv</a>	SERSC		2005-4238	IPE

40	Mohammed Muddasir N., Raghuvveer K., Dayanand R.	Towards handling incremental load for anomalies in near real time data warehouse	2020	WSEAS Transactions on Systems and Control	15		684	690	DOI: 10.37394/23203.2020.15.68		19918763	ISE
41	Mohammed Muddasir N., Raghuvveer K.	A Novel Approach to Handle Huge Data for Refreshment Anomalies in Near Real-Time ETL Applications	2020	Advances in Intelligent Systems and Computing	1154		545	554	<a href="https://doi.org/10.1007/978-981-15-4032-5_50">https://doi.org/10.1007/978-981-15-4032-5_50</a>	SPRINGER	21945357	ISE
42	Indumathi R.S., Kanna M.R.R., Mamta D.	Computation of topological indices of polystyrene	2020	AIP Conference Proceedings	2277				<a href="https://doi.org/10.1063/5.0025226">https://doi.org/10.1063/5.0025226</a>	AIP PUBLISHING	0094243X	MATHEMATICS
43	Vasuki K.R., Mahadevaswamy (WoS)	Classical approach to Ramanujan's modular equations of septic degree	2020	Ramanujan Journal	51	3	553	561	<a href="https://doi.org/10.1007/s11139-018-0118-4">https://doi.org/10.1007/s11139-018-0118-4</a>	SPRINGER	13824090	MATHEMATICS
44	Indumathi R.S., Sridhar G., Rajesh Kanna M.R., Mamta D.	On new bounds for energy of graphs	2020	Advances in Mathematics: Scientific Journal	9	12	10137	10144	<a href="https://doi.org/10.37418/am.sj.9.12.5">https://doi.org/10.37418/am.sj.9.12.5</a>	UNION OF RESEARCHERS OF MACIDONIA	18578365	MATHEMATICS
45	Sampathkumar E., Roopa S.V., Vidya K.A., Sriraj M.A.	Partition energy of some trees and their generalized complements	2020	Turkish World Mathematical Society Journal of Applied and Engineering Mathematics	10	2	521	531		ISIK UNIVERSITY	21461147	MATHEMATICS
46	Asha N., Raghavendra Rao G.	Energy-efficiency driven strategy for resource aggregation based on future resource-usage inference in a cloud computing environment	2020	Lecture Notes in Electrical Engineering	643		143	151	<a href="https://doi.org/10.1007/978-981-15-3125-5_16">https://doi.org/10.1007/978-981-15-3125-5_16</a>	SPRINGER	18761100	MCA
47	Ananth G.S., Raghuvveer K.	A novel approach for music recommendation system using matrix factorization technique	2020	Advances in Intelligent Systems and Computing	1085		13	25	<a href="https://doi.org/10.1007/978-981-15-1366-4_2">https://doi.org/10.1007/978-981-15-1366-4_2</a>	SPRINGER	21945357	MCA
48	Bindushree N., Dhabale A., Dhanush M.S., Honakeri A., Ankit A., Anusha M.K., Kumar R., Choudhary H.K., Khopkar V., Sekhar K.C., Sahoo B. (WoS)	Role of Composition in Enhancing Heat Transfer Behavior of Carbon Nanotube-Ethylene Glycol Based Nanofluids	2020	Electronic Materials Letters	16	6	595	603	10.1007/s13391-020-00243-y	KOREAN INST METALS MATERIALS	17388090	MECH
49	Muralidhara B., Babu S.P.K., Suresha B. (WoS)	Studies on mechanical, thermal and tribological properties of carbon fibre-reinforced boron nitride-filled epoxy composites	2020	High Performance Polymers	32	9	1061	1081	10.1177/0954008320929396	SAGE PUBLICATIONS LTD	9540083	MECH
50	Naik M.M., Vinuth M., Karthik K., Suresha B., Nagaraju G., Sujatha H.R.	Photocatalytic degradation of dyes by cobalt ferrite nanoparticles synthesized by sol-gel method	2020	AIP Conference Proceedings	2274	1			<a href="https://doi.org/10.1063/5.0022559">https://doi.org/10.1063/5.0022559</a>	AIP PUBLISHING	0094243X	MECH
51	Ravi N., Shanmugam M., Bheemappa S., Gowripalan N. (WoS)	Influence of reinforcement on tribological properties of friction stir welded glass fiber reinforced polyamide 66	2020	Journal of Manufacturing Processes	58		1052	1063	10.1016/j.jmapro.2020.08.068	ELSEVIER SCI LTD	15266125	MECH
52	Suresha B., Hemanth G., Ananthapadmanabha, Kulkarni G.	Role of graphene nanoplatelets on tribological behaviour of madhuca indica oil	2020	AIP Conference Proceedings	2247	1			<a href="https://doi.org/10.1063/5.0004145">https://doi.org/10.1063/5.0004145</a>	AIP PUBLISHING	0094243X	MECH
53	Thejashwini B.R., Khopkar V., Madhusudhana R., Sahoo B. (WoS)	Crystal growth and effect of defects on the dielectric properties of ammonium dihydrogen phosphate (ADP) single crystals	2020	Journal of Materials Science: Materials in Electronics	31	13	10548	10552	10.1007/s10854-020-03603-4	SPRINGER	9574522	MECH

54	Pasare S.S., Suresha B.	Mechanical and tribological properties of carbon fabric reinforced epoxy composites with and without boron nitride filler	2020	AIP Conference Proceedings	2236	1			<a href="https://doi.org/10.1063/5.0006937">https://doi.org/10.1063/5.0006937</a>	AIP PUBLISHING	0094243X	MECH
55	Pooja, Rangaraj L., Suresha B.	Role of SiC on mechanical and tribological behavior of Mg metal matrix composites prepared by powder metallurgy route	2020	AIP Conference Proceedings	2236	1			<a href="https://doi.org/10.1063/5.0006939">https://doi.org/10.1063/5.0006939</a>	AIP PUBLISHING	0094243X	MECH
56	Prakash S., Sasikumar R., Natarajan E., Suresha B. (Wos)	Influence of Feeding Techniques in Bottom Tapping Stir Casting Process for Fabrication of Alumina Nano-filler-reinforced Aluminium Composites	2020	Transactions of the Indian Institute of Metals	73	5	1265	1272	10.1007/s12666-020-01975-z	SPRINGER	9722815	MECH
57	Suresha B., Divya G.S., Hemanth G., Somashekar H.M. (Wos)	Physico-Mechanical Properties of Nano Silica-Filled Epoxy-Based Mono and Hybrid Composites for Structural Applications	2020	Silicon					10.1007/s12633-020-00812-8	SPRINGER	1876990X	MECH
58	Ramya M.V., Purushothama G.K., Prakash K.R.	M-Learning Based Remote Laboratory for Electronics Experiments	2020	International journal of online and biomedical engineering	16	11	4	15	DOI:10.3991/IJOE.V16I11.16177	EBSCO Industries, Inc	26268493	MECH
59	Anjum N., Suresha B., Ajit Prasad S.L., Harshavardhan B.	Wear behaviour of sanseveria and carbon fiber reinforced epoxy with nanofillers: Taguchi method	2020	Tribology in Industry	42	3	443	460	10.24874/ti.861.03.20.06		3548996	MECH
60	Suresha B., Sriraksha, Hemanth R.	Mechanical Performance of HDPE/UHMWPE Hybrid Composites and Tribological Characterization using Taguchi Method	2020	Materials Today: Proceedings	24	2	1452	1461	<a href="https://doi.org/10.1016/j.matpr.2020.04.464">https://doi.org/10.1016/j.matpr.2020.04.464</a>	SCIENCE DIRECT	22147853	MECH
61	Suresha B., Halliyavar D.N.	Effects of Basalt Fiber and Zirconia Loading on Physico-Mechanical Behavior of PA66/HDPE Blend Composites	2020	Materials Today: Proceedings	24	2	1442	1451	<a href="https://doi.org/10.1016/j.matpr.2020.04.463">https://doi.org/10.1016/j.matpr.2020.04.463</a>	SCIENCE DIRECT	22147853	MECH
62	Ramya M.V., Purushothama G.K., Prakash K.R.	Design and implementation of IoT based remote laboratory for sensor experiments	2020	International Journal of Interactive Mobile Technologies	14	9	227	238	<a href="https://doi.org/10.3991/ijim.v14i09.13991">https://doi.org/10.3991/ijim.v14i09.13991</a>		18657923	MECH
63	Suresh B.S., Prithvi C., Ramachandracharya S.	Modal analysis of FIAT Bogie of LHB railway coach	2020	Materials Today: Proceedings	27	2	1889	1893	<a href="https://doi.org/10.1016/j.matpr.2020.03.817">https://doi.org/10.1016/j.matpr.2020.03.817</a>	SCIENCE DIRECT	22147853	MECH
64	Shariff Y.K.R., Choudhary H.K., Khopkar V., Yadav A., Madhusudhana R., Sahoo B.	Sol-gel auto-combustion synthesis of Ba-Sr hexaferrite ceramic powders	2020	Ceramics International					<a href="https://doi.org/10.1016/j.ceramint.2020.07.034">https://doi.org/10.1016/j.ceramint.2020.07.034</a>	ELSEVIER	2728842	MECH
65	Muralidhara B., Babu S.P.K., Suresha B.	Studies on the Role of Graphene Nanoplatelets on Mechanical Properties, Dynamic-mechanical and Thermogravimetric Analysis of Carbon-Epoxy Composites	2020	Journal of The Institution of Engineers (India): Series D					<a href="https://doi.org/10.1007/s40033-020-00219-0">https://doi.org/10.1007/s40033-020-00219-0</a>	SPRINGER	22502122	MECH
66	Rajeswari V.B., Paramashivan S.S., Mohan S., Albert S.K., Rahul M. (Wos)	Effect of substituting fine rutile of the flux with nano TiO <sub>2</sub> on the improvement of mass transfer efficiency and the reduction of welding fumes in the stainless steel GMAW electrode	2020	High Temperature Materials and Processes	39	1	117	123	<a href="https://doi.org/10.1515/htmp-2020-0030">https://doi.org/10.1515/htmp-2020-0030</a>	De Gruyter	3346455	MECH

67	Manur A., Marathe M., Manur A., Ramachandra A., Subbarao S., Venkataramanan G.	Smart Solar Home System with Solar Forecasting	2020	2020 IEEE International Conference on Power Electronics, Smart Grid and Renewable Energy, PESGRE 2020					10.1109/PESGRE45664.2020.9070340	IEEE		MECH
68	Mahadevaswamy H.S., Suresha B.	Role of nano-CaCO <sub>3</sub> on mechanical and thermal characteristics of pineapple fibre reinforced epoxy composites	2020	Materials Today: Proceedings	22	3	572	579	<a href="https://doi.org/10.1016/j.matpr.2019.08.211">https://doi.org/10.1016/j.matpr.2019.08.211</a>	SCIENCE DIRECT	22147853	MECH
69	Suresha B., Hemanth G., Hemanth R., Lalla N.P. (WoS)	Role of graphene nanoplatelets and carbon fiber on mechanical properties of PA66/thermoplastic copolyester elastomer composites	2020	Materials Research Express	7	1			10.1088/2053-1591/ab648d		20531591	MECH
70	Rakshath S., Suresha B., Sasi Kumar R., Saravanan I.	Dry sliding and abrasive wear behaviour of Al-7075 reinforced with alumina and boron nitride particulates	2020	Materials Today: Proceedings	22	3	619	626	<a href="https://doi.org/10.1016/j.matpr.2019.09.010">https://doi.org/10.1016/j.matpr.2019.09.010</a>	ELSEVIER	22147853	MECH
71	Suresha B., Hemanth G., Rakesh A., Adarsh K.M.	Tribological Behaviour of Neem Oil with and without Graphene Nanoplatelets Using Four-Ball Tester	2020	Advances in Tribology	2020				<a href="https://doi.org/10.1155/2020/1984931">https://doi.org/10.1155/2020/1984931</a>	HINDAWI	16875915	MECH
72	Somashekar H.M., Gowthama K., Suresha B.	Microstructure, mechanical properties and sliding wear behaviour of silicon carbide reinforced Al 6026 composites	2020	International Journal of Mechanical and Production Engineering Research and Development	10	1	259	270	10.24247/ijmperdfeb202022	TRANS STELLAR	22496890	MECH
73	Chandriah K.K., Raghavendra N.V.	Multi-objective optimization for preemptive and predictive supply chain operation	2020	International Journal of Electrical and Computer Engineering	10	2	1533	1543	<a href="http://doi.org/10.11591/ijec.e.v10i2.pp1533-1543">http://doi.org/10.11591/ijec.e.v10i2.pp1533-1543</a>		20888708	MECH
74	Sunil S R Gaekwad Dr. A. N. Santosh Kumar	Influence Of Surface Treatment on ABS Parts Printed Using Fused Deposition Modelling	2020	International Journal of Mechanical and Production Engineering Research and Development	Vol. 10	Issue 3	9751	9760	10.24247/ijmperdjun2020931	Transtellar	ISSN(P): 2249-6890 ; ISSN(E): 2249-8001	MECH
75	Sunil S R Gaekwad Dr. A. N. Santosh Kumar	Improvement in Properties of Chromium Coated ABS Parts	2020	International Journal of Mechanical and Production Engineering Research and Development	Vol. 10	Issue 3	13109	13118	10.24247/ijmperdjun2020125	Transtellar	ISSN(P): 2249-6890 ; ISSN(E): 2249-8002	MECH
76	Mahesha, Razak N.S.A., Jamalis J., M.V.Deepa Urs., Gowda N.S.L., Reddy K.R., Lokanath N.K., Naveen S.	Synthesis, characterization, crystal structure and theoretical simulation of novel ethyl 2-(7-hydroxy-4-methyl-2-oxo-2H-chromen-3-yl)acetate	2020	Chemical Data Collections	28				<a href="https://doi.org/10.1016/j.cdc.2020.100425">https://doi.org/10.1016/j.cdc.2020.100425</a>	ELSEVIER	24058300	PHYSICS
77	Sankarshan B.M., Athrey C.D., Umesh T.K. (WoS)	Effective atomic number for Compton scattering: a benchmark tool to characterize materials	2020	European Physical Journal Plus	135	4			10.1140/epjp/s13360-020-00347-2		21905444	PHYSICS

78	Rajeev N., Swaroop T.R., Alrawashdeh A.I., Rahman S., Alodhayb A., Anil S.M., Kiran K.R., Chandra, Georghiou P.E., Rangappa K.S., Sadashiva M.P. (WoS)	The reaction of arylmethyl isocyanides and arylmethylamines with xanthate esters: A facile and unexpected synthesis of carbamothioates	2020	Beilstein Journal of Organic Chemistry	16		159	167	10.3762/bjoc.16.18		18605397	PHYSICS
79	Narasimhamurthy K.H., Chandra, Swaroop T.R., Jagadish S., Rangappa K.S. (WoS)	Synthesis of piperidine conjugated dihydroquinazolin-4(1h)-ones and their antiproliferative activity, molecular docking studies and DFT calculations	2020	Letters in Drug Design and Discovery	17	1	85	93	10.2174/1570180816666190613120349		15701808	PHYSICS
<b>LIST OF PUBLICATIONS BY FACULTY MEMBERS IN WEB of SCIENCE INDEXED JOURNALS 2020</b>												
80	Muralidhara, B; Babu, SPK; Hemanth, G; Suresha, B	Optimization of abrasive wear behaviour of halloysite nanotubes filled carbon fabric reinforced epoxy hybrid composites	2020	SURFACE TOPOGRAPHY-METROLOGY AND PROPERTIES	8	4			10.1088/2051-672X/abc8e1	IOP PUBLISHING LTD	2051-672X	MECH
81	Desanamukula, VS; Chilukuri, PK; Padala, P; Padala, P; Pvgd, PR	AMMDAS: Multi-Modular Generative Masks Processing Architecture With Adaptive Wide Field-of-View Modeling Strategy	2020	IEEE ACCESS	8		198748	198778	10.1109/ACCESS.2020.3033537	IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC	2169-3536	CSE



11	Rakesh, K.M., Ramachandracharya, S., Gokulkumar, S., Nithin, K.S. (SCO)	Investigation on acoustical properties, thermal stabilities and water sorption abilities of finger millet straw fibers, darbha fibers and ripe bulrush fibers	2021	Materials Today: Proceedings	47		5268	5275	10.1016/j.matpr.2021.05.647			CHEM
12	Pramila, S., Ranganatha, V.L., Soundarya, T.L., Ramu, R., Nagaraju, G., Mallikarjunaswamy, C. (SCO)	Eco-Mediated Synthesis of Visible Active Bi2WO6 Nanoparticles and its Performance Towards Photocatalyst, Supercapacitor, Biosensor, and Antioxidant Activity	2021	Journal of Cluster Science					10.1007/s10876-021-02147-9			CHEM
13	Mathad, V., Padmapriya, P., Sangamesha, M.A. (SCO)	Some topological indices of phosphorus containing dendrimers	2021	Palestine Journal of Mathematics	10	Special Issue II	151	160				CHEM
14	Abhishek A. Pathak., Dodamani B.M. (SCO)	Connection between Meteorological and Groundwater Drought with Copula-Based Bivariate Frequency Analysis	2021	Journal of Hydrologic Engineering	26	7			10.1061/(ASCE)HE.1943-5584.0002089	American Society of Civil Engineers (ASCE)	10840699	CIV
15	Putty M.R.Y., Javeed Y., Shishir Kumar G.B., Ashwini K. (SCO)	Development of Intensity-Duration-Depth Relationships for Western Ghats in Karnataka, South India: A Pragmatic Approach for Utilizing Short Records	2021	Journal of Hydrologic Engineering	26	6			10.1061/(ASCE)HE.1943-5584.0002092	American Society of Civil Engineers (ASCE)	10840699	CIV
16	Putty M.R.Y., Prithviraj B.N., Kumar P.N., Nithish M.G., Giri G., Chandramouli P.N. (SCO/WoS)	An insight into the hydrological aspects of landslides of 2018 in Kodagu, South India	2021	Landslides	18	5	1597	1610	10.1007/s10346-020-01589-y	Springer Science and Business Media Deutschland GmbH	1612510X	CIV
17	Sachin V and Suresh N. (SCO)	Residual properties of normal-strength concrete subjected to fire and sustained elevated temperatures: A comparative study	2021	Journal of Structural Fire Engineering	12	1	1	16	10.1108/JSFE-02-2020-0007	Emerald Group Holdings Ltd.	20402317	CIV
18	Shariff F.U., Anand V.N., Balaji N.C. (SCO)	Flexural strengthening of RC beams using near surface mounted-Glass fiber reinforced polymer strips	2021	AIP Conference Proceedings	2327				10.1063/5.0039665	American Institute of Physics Inc.	0094243X	CIV
19	Rashmi M., Anand V.N., Balaji N.C. (SCO/WoS)	Shear strengthening of RC beams using near surface mounted technique with glass fiber reinforced polymer	2021	AIP Conference Proceedings	2327				10.1063/5.0039664	American Institute of Physics Inc.	0094243X	CIV
20	Sachin B Rao C.M., Naik G.M., Puneet N.P. (SCO/WoS)	Influence of slide burnishing process on the surface characteristics of precipitation hardenable steel	2021	SN Applied Sciences	3	2			10.1007/s42452-021-04260-w	Springer Nature	25233971	CIV
21	Jyothi D.N., Prasanna H.S., Akash H. (SCO)	A Parametric Study of Estimating Index Properties and Compaction Characters of Kaolinite-Bentonite-Sand Mixtures	2021	Lecture Notes in Civil Engineering	138		233	242	10.1007/978-981-33-6564-3_21	Springer Science and Business Media Deutschland GmbH	23662557	CIV
22	Suresh N., Manjunatha M. (SCO/WoS)	Post-thermal properties of Portland cement concrete made with copper slag as fine aggregates	2021	Journal of Structural Fire Engineering	12	2	173	192	10.1108/JSFE-06-2020-0018	Emerald Group Holdings Ltd.	20402317	CIV
23	Chandan M C, Aithal, Bharath H. (WoS)	Impact assessment of Corridor Oriented development A case of urban agglomerations of India	2021	International Review for Spatial Planning and Sustainable Development	9	2	172	194	10.14246/irspsdc.9.2_172	INT COMMUNITY SPATIAL PLANNING & SUSTAINABLE DEVELOPMENT	2187-3666	CIV
24	Niveditha, M.; Manjunath, Y. M.; Prasanna, H. S. (WoS)	Ferrock: A Carbon Negative Sustainable Concrete	2021	International Journal of Sustainable Construction Engineering and Technology	11	4	90	98	10.30880/ijscet.2021.11.04.008	UNIV TUN HUSSEIN ONN MALAYSIA	2180-3242	CIV

25	Geethalakshmi, S.; Manjunath, K. C. (WoS)	Climate Change in Urban Areas: A Case Study of Mysuru City	2021	BIOSCIENCE BIOTECHNOLOGY RESEARCH COMMUNICATIONS	14	5	277	282	10.21786/bbrc/14.5/50	SOC SCIENCE & NATURE	0974-6455	CIVIL
26	Putty, M.R.Y., Darshan, R., Kumar, N., Resmy, K., Javeed, Y., Pandu, N. (SCO)	Soil Properties Influencing the Hydrology of Western Ghats: A Case Study in Karnataka	2021	Journal of The Institution of Engineers (India): Series A	102	4	1161	1167	10.1007/s40030-021-00574-5			CIVIL
27	Divya, G.S., Suresha, B. (SCO)	Impact of nano-silicon dioxide on mechanical properties of carbon fabric reinforced epoxy composites	2021	Materials Today: Proceedings	46		8999	9003	10.1016/j.matpr.2021.05.377			CIVIL
28	Prakash, K., Sridharan, A., Prasanna, H.S. (SCO)	Engineering Behavior of Compacted and Reconstituted Soils: A Comparative study	2021	Indian Geotechnical Journal					10.1007/s40098-021-00558-z			CIVIL
29	B. P, S., Suresh, N. (SCO)	Flexural behaviour of reinforced self compacting concrete beams subjected to elevated temperature before and after retrofitting	2021	Journal of Structural Fire Engineering	12	3	293	308	10.1108/JSFE-07-2020-0022			CIVIL
30	Shrirang A. Kulkarni, Pannu J.S., Koval A.V., Merrin G.J., Gurupur V.P., Nasir A., King C., Wan T.T.H. (SCO/WoS)	A brief analysis of key machine learning methods for predicting medicare payments related to physical therapy practices in the united states	2021	Information (Switzerland)	12	2	1	18	10.3390/info12020057	MDPI AG	20782489	CSE
31	TojoMathew., Kini J.R., Rajan J. (SCO/WoS)	Computational methods for automated mitosis detection in histopathology images: A review	2021	Biocybernetics and Biomedical Engineering	41	1	64	82	10.1016/j.bbe.2020.11.005	Elsevier Sp. z o.o.	2085216	CSE
32	Acharya, M.N., Reddy, M.V., Jayasri, B.S., Rahul, K.P., Kumar, N., Lokesh, S. (SCO)	Covid-19 Safety Protocol Monitoring System using AI	2021	2021 Asian Conference on Innovation in Technology, ASIANCON 2021					10.1109/ASIANCON51346.2021.9544683			CSE
33	Kausar S.A., Roopa K., Arakalgud K.S., Anupama B.C. (SCO)	A Hybrid Model to Ensure Biosecurity during Pandemic Situations Using OpenCV	2021	Journal of Physics: Conference Series	1916	1			10.1088/1742-6596/1916/1/012129	IOP Publishing Ltd	17426588	ECE
34	Mahesha Y., Nagaraju C. (SCO/WoS)	Automating the identification and evaluation of the position of axial triradius on palm print: An approach to early detection of congenital heart diseases	2021	Biomedical Engineering - Applications, Basis and Communications	33	2			10.4015/S1016237221500216	World Scientific	10162372	ECE
35	Jayachandran Remya., Subramaniam P.C., Dhanaraj K.J. (SCO/WoS)	A novel tunable gain CMOS buffer amplifier for large resistive loads	2021	Integration	77		1	12	10.1016/j.vlsi.2020.10.007	Elsevier B.V.	1679260	ECE
36	Jayachandran Remya ., Rama Komaragiri ., Subramaniam P.C., Ranjith R. (SCO/WoS)	High-performance reconfigurable FET for a simple variable gain buffer amplifier design	2021	International Journal of Electronics					10.1080/00207217.2021.1908618	Taylor and Francis Ltd.	207217	ECE
37	Manthan C.S., Roopa K., Bindu H.S., Apoorva B.M., Madar M.D. (SCO)	Pseudonymization of Text and Image Data to Provide Confidentiality	2021	Lecture Notes on Data Engineering and Communications Technologies	62		553	564	10.1007/978-981-33-4968-1_43	Springer Science and Business Media Deutschland GmbH	23674512	ECE
38	Kavitha S.S., Kaulgud N. (SCO)	High-performance digital logic circuit realization using differential cascode voltage switch logic (dcvsl)	2021	Lecture Notes on Data Engineering and Communications Technologies	53		161	170	10.1007/978-981-15-5258-8_17	Springer Science and Business Media Deutschland GmbH	23674512	ECE
39	Kishore, R., Gurugopinath, S., Muhaidat, S., Bouanani, F.E., Dobre, O.A. (SCO)	Sum Rate Analysis of Generalized Space Shift Keying-Aided MIMO-NOMA Systems	2021	IEEE Transactions on Vehicular Technology	70	7	7232	7236	10.1109/TVT.2021.3085415			ECE

40	Remya Jayachandran, Dhanaraj, K.J., Subramaniam, P.C. (SCO)	Hardware realization and testing of multistage OTA buffer amplifier for heavy resistive load	2021	Proceedings of 4th International Conference on 2021 Devices for Integrated Circuit, DevIC 2021			550	554	10.1109/DevIC50843.2021.9455806			ECE
41	Jayasankar V.N., Vinatha U. (SCO)	FPGA-Based Implementation of Backstepping Controller for Three-Phase Shunt Active Power Filter Interfacing Solar Photovoltaic System to Distribution Grid	2021	Lecture Notes in Electrical Engineering	707		441	453	10.1007/978-981-15-8586-9_39	Springer Science and Business Media Deutschland GmbH	18761100	EEE
42	Lokesh M., Kulkarni A.D., Ananthapadmanabha T., Gurav N., Sandeep Kumar K.J. (SCO)	Enhancement of transient stability and voltage quality of microgrid with multiple DERs	2021	Proceedings - 5th International Conference on Intelligent Computing and Control Systems, ICICCS 2021			686	691	10.1109/ICICCS51141.2021.9432127	Institute of Electrical and Electronics Engineers Inc.		EEE
43	Madhusudhan M., Kumar N., Pradeepa H. (SCO)	Optimal location and capacity of DG systems in distribution network using genetic algorithm	2021	International Journal of Information Technology (Singapore)	13	1	155	162	10.1007/s41870-020-00545-2	Springer Science and Business Media B.V.	25112104	EEE
44	Appalabathula Venkatesh., Nalinakshan S., Jayasankar V.N., Aneesh V., Kiran S.S., Sivasubramanian V. (SCO/WoS)	Stability Testing and Restoration of a DEIG-Based Wind Power Plant with Indirect Grid Control Strategies	2021	IETE Journal of Research					10.1080/03772063.2021.1934126	Taylor and Francis Ltd.	3772063	EEE
45	Veerasha A.G., Prasanna H.A.M., Kumar M.V.L., Ananthapadmanabha T. (SCO)	An adaptive power system management with DG placement and cluster-based load forecasting by CS, K-means and ANN algorithms	2021	International Journal of Power Electronics	13	3	380	385	10.1504/IJPELEC.2021.114466	Inderscience Publishers	1756638X	EEE
46	Appalabathula Venkatesh., Nalinakshan S., Tony Aby Varkey M. (SCO)	Consistency of Extended Kalman Filtering and Particle Filtering Techniques for the State Estimation of Brushless DC Motor	2021	Lecture Notes in Electrical Engineering	707		327	337	10.1007/978-981-15-8586-9_30	Springer Science and Business Media Deutschland GmbH	18761100	EEE
47	Harisha, K., Jayasankar, V.N. (SCO)	Virtual Inertia Controller for the Grid Interfacing Inverter of Wind Energy System	2021	2021 Asian Conference on Innovation in Technology, ASIANCON 2021					10.1109/ASIANCON51346.2021.9544950			EEE
48	Deeksha, D.R., Mohana Lakshmi, M.L.J., Harshitha, H.M. (SCO)	Performance Improvement in Sensorless Vector Control of im using Bus Clamped PWM	2021	Proceedings - 2021 International Conference on Design Innovations for 3Cs Compute Communicate Control, ICDI3C 2021			88	92	10.1109/ICDI3C53598.2021.00026			EEE
49	Madhu P and Shailesh Rao A (SCO)	Interactive approach in improving rigidity of lathe structure	2021	International Journal on Interactive Design and Manufacturing	15	1	35	45	10.1007/s12008-020-00732-2	Springer-Verlag Italia s.r.l.	19552513	IPE
50	Latha B.M., Raghavendra N.V., Ramesh J. (SCO)	Application of value stream mapping using simulation tool in manufacturing assemble line: A case study	2021	IOP Conference Series: Materials Science and Engineering	1065	1			10.1088/1757-899X/1065/1/012002	IOP Publishing Ltd	17578981	IPE
51	Kumar S., Shamprasad M.S., Shamprasad, Varadarajan Y.S. (SCO)	Mechanical properties of natural fiber reinforced polylactide composites: A review	2021	IOP Conference Series: Materials Science and Engineering	1065	1			10.1088/1757-899X/1065/1/012001	IOP Publishing Ltd	17578981	IPE
52	Alam Radhika, Shailesh Rao A, Yogesh K B (SCO)	Evaluating machining performance of AISI 1014 steel using gingelly oil as cutting fluid	2021	International Journal of Modern Manufacturing Technologies	13	1	158	165		ModTech Publishing House	20673604	IPE
53	Vadivel Sengazhani Murugesan., Sequeira A.H., Sakkariyas R.R., Boobalan K. (SCO/WoS)	Impact of lean service, workplace environment, and social practices on the operational performance of India post service industry	2021	Annals of Operations Research					10.1007/s10479-021-04087-z	Springer	2545330	IPE

54	Nayak H., Krishnamurthy N., Shailesh R A (SCO/WoS)	Development and Adhesion Strength of Plasma-Sprayed Thermal Barrier Coating on the Cast Iron Substrate	2021	International Journal of Integrated Engineering	13	1	47	59	10.30880/ijie.2021.13.01.006	Penerbit UTHM	2229838X	IPE
55	Ramesh J., Ram M.M., Varadarajan Y.S. (SCO)	Sustainable energy strategies for micro, small, and medium enterprises in India: A review	2021	International Journal of Industrial and Systems Engineering	37	3	283	305	10.1504/IJISE.2021.113445	Inderscience Publishers	17485037	IPE
56	Vadivel Sengazhani Murugesan., Jauhar S.K., Sequeira A.H. (SCO/WoS)	Applying simulation in lean service to enhance the operational system in Indian postal service industry	2021	Annals of Operations Research					10.1007/s10479-020-03920-1	Springer	2545330	IPE
57	SantoshKumar, Shamprasad M S, Varadarajan Y S, Sangamesha M A (SCO)	Coconut coir fiber reinforced polypropylene composites: Investigation on fracture toughness and mechanical properties	2021	Materials Today Proceedings					<a href="https://doi.org/10.1016/j.matpr.2021.01.402">https://doi.org/10.1016/j.matpr.2021.01.402</a>	Science Direct		IPE
58	Radhika, A., Shailesh Rao Agari (SCO)	Machining behaviour of using bio-oils as lubricants during the turning process	2021	International Journal of Modern Manufacturing Technologies	13	1	158	165				IPE
59	Chandrashakara, J., Harish, Y.S., Sulakshana, H.V. (SCO)	Use and Access of E-Resources among Students in the National Institute of Engineering College Library in Mysuru: A Study	2021	Library Philosophy and Practice	2021		1	11				LIBRARY
60	Sharma R., Raju C.S., Animesaun I.L., Halavudara B. Santhosh., Mishra M.K. (SCO/WoS)	Insight into the significance of Joule dissipation, thermal jump and partial slip: Dynamics of unsteady ethelene glycol conveying graphene nanoparticles through porous medium	2021	Nonlinear Engineering	10	1	16	27	10.1515/nleng-2021-0002	De Gruyter Open Ltd	21928010	MATHS
61	Shubha Nagaraj, Harsha S (SCO)	A Study On Packet Loss Simulating a network as a Fluid	2021	International Journal of Advanced Research in Engineering and Technology (IJARET)	12	2	523	527	10.34218/IJARET.12.2.2020.049	IAEME Publication		MATHS
62	Shivarajkumar; Sriraj, M. A.; Hegde, S. M. (SCO/WoS)	Graceful labeling of digraphs-a survey		AKCE INTERNATIONAL JOURNAL OF GRAPHS AND COMBINATORICS					10.1080/09728600.2021.1978014	TAYLOR & FRANCIS LTD	0972-8600	MATHS
63	Vaishnavi, K.N., Khorvi, S.D., Kishore, R., Gurugopinath, S. (SCO)	A Survey on Jamming Techniques in Physical Layer Security and Anti-Jamming Strategies for 6G	2021	2021 28th International Conference on Telecommunications, ICT 2021					10.1109/ICT52184.2021.9511465			MCA
64	Chandriah K.K., Raghavendra N V (SCO)	RNN / LSTM with modified Adam optimizer in deep learning approach for automobile spare parts demand forecasting	2021	Multimedia Tools and Applications	80	17	26145	26159	10.1007/s11042-021-10913-0	Springer	13807501	MECH
65	Suresha B., Divya G.S., Hemanth G., Somashekar H.M. (SCO)	Physico-Mechanical Properties of Nano Silica-Filled Epoxy-Based Mono and Hybrid Composites for Structural Applications	2021	Silicon	13	7	2319	2335	10.1007/s12633-020-00812-8	Springer Science and Business Media B.V.	1876990X	MECH
66	Rani D., Rangaraj L., Suresha B., Venkateswarlu K. (SCO/WoS)	Influence of Ti3AlC2 Ceramic Particles in AZ91 Alloy: Produced by Melt Infiltration Method	2021	Transactions of the Indian Institute of Metals	74	3	743	752	10.1007/s12666-021-02185-x	Springer	9722815	MECH
67	Madhusudhana R., Lovesome Benedict S., Krishnamurthy L., Gopalakrishne Urs R., Vinaykumar L. (SCO)	Synthesis and characterization of yttrium nitrate hexahydrate	2021	IOP Conference Series: Materials Science and Engineering	1065	1			10.1088/1757-899X/1065/1/012019	IOP Publishing Ltd	17578981	MECH
68	Madhusudhana R., Navyashree K.C., Krishnamurthy L., Gopalakrishne Urs R. (SCO)	Synthesis and Characterization of Zirconium Oxide (ZrO2) Films on AA5052 and Glass substrates	2021	IOP Conference Series: Materials Science and Engineering	1065	1			10.1088/1757-899X/1065/1/012018	IOP Publishing Ltd	17578981	MECH

69	<b>Madhusudhana R.</b> , Sushma K.L., Chandra Sekhar K., Krishnamurthy L., Gopalakrishne Urs R., Sangamesha M.A. (SCO)	Nanostructured Anti-Glare Coatings for Night Visibility	2021	IOP Conference Series: Materials Science and Engineering	1065	1			10.1088/1757-899X/1065/1/012017	IOP Publishing Ltd	17578981	MECH
70	Divya G.S., <b>Suresha B.</b> , Somashekar H.M., Jamadar I.M. (SCO)	Dynamic mechanical analysis and optimization of hybrid carbon-epoxy composites wear using taguchi method	2021	Tribology in Industry	43	2	298	309	10.24874/ti.931.07.20.11	Faculty of Engineering, University of Kragujevac	3548996	MECH
71	Darshan S.M., <b>Suresha B.</b> (SCO/WoS)	Role of Silk Fiber Loading on Physico-Mechanical Properties of Epoxy Composites	2021	Journal of Natural Fibers					10.1080/15440478.2021.1921654	Bellwether Publishing, Ltd.	15440478	MECH
72	Ahamed E., <b>Prasanta Kumar Samal.</b> , Suresh B.S., Kemparaju H.R. (SCO)	Artificial Neural Network-Based Prediction of Cutting Parameters from Tool Vibration and Forces	2021	Lecture Notes in Electrical Engineering	693 LNEE		199	211	10.1007/978-981-15-7675-1_19	Springer Science and Business Media Deutschland GmbH	18761100	MECH
73	Chandriah K.K., <b>Raghavendra N V</b> (SCO)	Maximizing a deep submodular function optimization with a weighted MAX-SAT problem for trajectory clustering and motion segmentation	2021	Applied Intelligence					10.1007/s10489-021-02276-8	Springer	0924669X	MECH
74	<b>Akhil V.M.</b> , Jobin V., Ashmi M., Rajendrakumar P.K., Sivanandan K.S. (SCO)	Gait Variability and IEMG Variation in Gastrocnemius and Medial Hamstring Muscles on Inclined Even and Uneven Planes	2021	IRBM					10.1016/j.irbm.2021.02.006	Elsevier Masson s.r.l.	19590318	MECH
75	Kiran M.D., Govindaraju H.K., B.R L.Y., <b>Suresha B.</b> , Jayaraju T. (SCO)	Fracture Toughness of CNT Filled Carbon Fabric Reinforced Epoxy Composites	2021	Materials Research Innovations					10.1080/14328917.2021.1888511	Taylor and Francis Ltd.	14328917	MECH
76	Emmi M.G., <b>Yadwad A.M.</b> , Kuppast V.V., Talikoti B.S., Sampanna M. (SCO)	Simulation of Performance of Boiler System for a Bagasse Unit Using LabVIEW	2021	Lecture Notes in Mechanical Engineering	26		79	83	10.1007/978-981-15-7557-0_7	Springer Science and Business Media Deutschland GmbH	21954356	MECH
77	Katti S.R., <b>Achutha M.V.</b> , Sridhara B.K. (SCO)	Fatigue Behaviour of Polymer Nanocompositesâ€”A Review	2021	Lecture Notes in Mechanical Engineering			541	547	10.1007/978-981-15-4779-9_36	Springer Science and Business Media Deutschland GmbH	21954356	MECH
78	<b>Ravikiran</b> , Shariff M.J., Kaushil H., Likhitha S., Bhootpur N., Mohan S. (SCO)	Design and development of a cost-effective reloadable motor for sounding rocket	2021	Lecture Notes in Mechanical Engineering			443	450	10.1007/978-981-15-6619-6_48	Springer Science and Business Media Deutschland GmbH	21954356	MECH
79	Shariff, Yaseen K. R.; Choudhary, Harish K.; Khopkar, Vijay; Yadav, Ankit; <b>Madhusudhana, R.</b> ; Sahoo, Balaram (WoS)	Sol-gel auto-combustion synthesis of Ba-Sr hexaferrite ceramic powders	2021	Ceramics International	47	10	14907	14912	10.1016/j.ceramint.2020.07.034	ELSEVIER SCI LTD	0272-8842	MECH
80	Darshan, S. M.; <b>Suresha, B.</b> (WoS)	Effect of basalt fiber hybridization on mechanical properties of silk fiber reinforced epoxy composites	2021	Materials Today - Proceedings	43		986	994	10.1016/j.matpr.2020.07.618	ELSEVIER	2214-7853	MECH
81	Dixit, Arun C.; <b>Achutha, M. V.</b> ; Sridhara, B. K. (WoS)	Elastic properties of aluminum boron carbide metal matrix composites	2021	Materials Today - Proceedings	43		1253	1257	10.1016/j.matpr.2020.08.766	ELSEVIER	2214-7853	MECH
82	Dixit, Arun C.; <b>Harshavardhan, B.</b> ; Shivashankar, R.; Gururaja, S.; Vismay, K. G. (WoS)	Effect of dry sliding wear parameters on the tribological behavior of aluminum hybrid metal matrix composites	2021	Materials Today - Proceedings	43		2194	2197	10.1016/j.matpr.2020.12.113	ELSEVIER	2214-7853	MECH

83	<b>Harshavardhan, B.;</b> Ravishankar, R.; Suresha, B.; Srinivas, S.; Dixit, U. Arun C. (WoS)	Thermal characterization of polyethersulfone composites filled with self lubricants	2021	Materials Today - Proceedings	43		1258	1267	10.1016/j.matpr.2020.08.768	ELSEVIER	2214-7853	MECH
84	<b>Harshavardhan, B.;</b> Ravishankar, R.; Suresha, B.; Srinivas, S.; Dixit, U. Arun C. (WoS)	Influence of short carbon fiber content on thermal properties of polyethersulfone composites	2021	Materials Today - Proceedings	43		1268	1275	10.1016/j.matpr.2020.08.769	ELSEVIER	2214-7853	MECH
85	<b>Joshi, Siddharth;</b> Hasan, Z. Inamul; Pruthvi, M.; Tulsiram, M. P. (WoS)	X-ray diffraction - A simplistic approach for perovskite based solar cells degradation studies	2021	Materials Today - Proceedings	35		31	34	10.1016/j.matpr.2019.05.390	ELSEVIER	2214-7853	MECH
86	Pradeep, P.; Rao, <b>M. Y. Aravind;</b> Suresha, B.; Jamadar, Imran; Seetharamu, S. (WoS)	Mechanical behaviour and tribological properties of cenosphere-copper composites using design of experiments	2021	Materials Today - Proceedings	43		1798	1809	10.1016/j.matpr.2020.10.494	ELSEVIER	2214-7853	MECH
87	<b>Samal, Prasanta Kumar;</b> Pruthvi, I. S.; Suresh, B. S. (WoS)	Effect of fiber orientation on vibration response of glass epoxy composite beam	2021	Materials Today - Proceedings	43		1519	1525	10.1016/j.matpr.2020.09.315	ELSEVIER	2214-7853	MECH
88	Sandeep, B.; <b>Suresha, B.;</b> Divakar, H. N. (WoS)	Fracture toughness of alumina filler filled glass fabric reinforced epoxy composites	2021	Materials Today - Proceedings	43		1792	1797	10.1016/j.matpr.2020.10.489	ELSEVIER	2214-7853	MECH
89	<b>Suresha, B.;</b> Urs, M. V. Deepa; Venkatesh, H. N.; Vishwanath, H. R.; Ganesh, E. (WoS)	Influence of fillers on mechanical behaviour of carbon fiber/vinyl ester hybrid composites	2021	Materials Today - Proceedings	43		1331	1336	10.1016/j.matpr.2020.09.165	ELSEVIER	2214-7853	MECH
90	Yadav, B. R. Lokesh; Govindaraju, H. K.; Kiran, M. D.; <b>Suresha, B.</b> (WoS)	Three-point bending and impact behaviour of carbon/epoxy composites modified with titanium dioxide nanoparticles	2021	Materials Today - Proceedings	43		1755	1761	10.1016/j.matpr.2020.10.442	ELSEVIER	2214-7853	MECH
91	Suresha, B.; Indushekara, N. M.; Varun, Ca; Sachin, D.; Pranao, Kush (WoS)	Effect of carbon nanotubes reinforcement on mechanical properties of aramid/epoxy hybrid composites	2021	MATERIALS TODAY-PROCEEDINGS	43		1478	1484	10.1016/j.matpr.2020.09.307	ELSEVIER	2214-7853	MECH
92	Katti, Shrinatha R.; Achutha, M., V; Sridhara, B. K. (WoS)	Tensile behaviour of MWCNT and CNP filled polypropylene thermoplastic composites	2021	MATERIALS TODAY-PROCEEDINGS	43		1678	1683	10.1016/j.matpr.2020.10.034	ELSEVIER	2214-7853	MECH
93	Sachin, D.; Uday, K. N.; Rajamurugan, G.; Krishnasamy, Prabu (WoS)	Effect of SiC reinforcement on the mechanical and tribological behaviour of Al6061 metal matrix composites	2021	MATERIALS TODAY-PROCEEDINGS	46		7082	7089	10.1016/j.matpr.2020.10.069	ELSEVIER	2214-7853	MECH
94	Suresha, B., Hemanth, G., Padmanabha, A., Ishwara Prasanna, S., Kulkarni, G., Shiva Charan, M.R., Amith, R. (SCO)	Tribological characteristics of mahua oil with graphene nanoplatelets as anti-wear and extreme pressure additive	2021	Surface Topography: Metrology and Properties	9	4			10.1088/2051-672X/ac2a0f			MECH
95	Hemanth, G., Suresha, B., Ananthapadmanabha (SCO)	Hybrid and electric vehicle tribology: A review	2021	Surface Topography: Metrology and Properties	9	4			10.1088/2051-672X/ac2b6f			MECH
96	Jamadar, I.M. (SCO)	A model to estimate synchronous vibration amplitude for detection of unbalance in rotor-bearing system	2021	International Journal of Acoustics and Vibrations	26	2	161	169	10.20855/ijav.2021.26.21756			MECH
97	Dammati, S.S., Goli, S., Varanasi, S.S., Srinag, P., Roy, A. (SCO)	Effect of flapping frequency, Reynolds number and angle of attack on the aerodynamic force coefficients of a translating wing	2021	CEAS Aeronautical Journal					10.1007/s13272-021-00543-5			MECH
98	Suresha, B., Sachin, D., Shiddalingsha, C.B. (SCO)	Morphology and physico-mechanical properties of basalt fiber reinforced composites	2021	Materials Today: Proceedings	46		9067	9072	10.1016/j.matpr.2021.05.389			MECH
99	Suresha, B., Hemanth, G., Rakesh, A., Adarsh, K.M. (SCO)	Role of calcium carbonate on hardness and fracture toughness of carbon fiber reinforced epoxy composites	2021	Materials Today: Proceedings	46		9036	9041	10.1016/j.matpr.2021.05.384			MECH

100	Suresha, B., Hemanth, G. (SCO)	Effect of halloysite nanotubes on morphology and mechanical properties of alkali treated pineapple fiber reinforced epoxy composites	2021	Materials Today: Proceedings	46		9047	9053	10.1016/j.matpr.2021.05.386			MECH
101	Kiran, M.D., Govindaraju, H.K., Yadhav, B.R.L., Suresha, B., Keerthi Kumar, N. (SCO)	Fracture toughness study of epoxy composites reinforced with carbon fibers with various thickness	2021	Materials Today: Proceedings	46		2630	2634	10.1016/j.matpr.2021.02.271			MECH
102	Pujar, V., Devarajaiah, R.M., Suresha, B., Bharat, V. (SCO)	A review on mechanical and wear properties of fiber-reinforced thermoset composites with ceramic and lubricating fillers	2021	Materials Today: Proceedings	46		7701	7710	10.1016/j.matpr.2021.02.214			MECH
103	Sekhar K.C., Kiran M.R., Ulla H., R. Gopalkrishne Urs., Shekar G.L. (SCO/WoS)	Exploring the temperature-dependent hole-transport in vanadyl-phthalocyanine thin films	2021	Physica B: Condensed Matter	608				10.1016/j.physb.2021.412895	Elsevier B.V.	9214526	PHY
104	Sathish K.V., Manjunatha H.C., Vidya Y.S., Sankarshan B.M., Damodara Gupta P.S., Seenappa L., Sridhar K.N., Raj A.C. (SCO/WoS)	Investigation on shielding properties of lead based alloys	2021	Progress in Nuclear Energy	137				10.1016/j.pnucene.2021.103788	Elsevier Ltd	1491970	PHY
105	Karthik C.S., Kumara K., Naveen S., Mallesha L., Mallu P., Deepa Urs M.V., Lokanath N.K. (SCO/WoS)	Thermal, optical, etching, structural studies and theoretical calculations of [1-(2, 5-Dichloro-benzenesulfonyl)-piperidin-4-yl]-(2,4-difluoro-phenyl)-methanone oxime	2021	Journal of Molecular Structure	1224				10.1016/j.molstruc.2020.129077	Elsevier B.V.	222860	PHY
106	Bhadraiah U.K., Ningaiah S., Basavanna V., Shanthakumar D.C., Chandramouli M., Chandra, Puttaswamy T.M., Doddamani S. (SCO/WoS)	Thiazolo-pyrimidine analogues: Synthesis, characterization and docking studies guided antimicrobial activities	2021	Biointerface Research in Applied Chemistry	11	2	9443	9455	10.33263/BRIAC112.94439455	AMG Transcend Association	20695837	PHY
107	Urs, M. V. Deepa; Suresha, B.; Hemanth, G.; Kulkarni, Giriraj; Charan, M. R. Shiva (WoS)	Influence of graphene nanoplatelets on tribological properties of short carbon fibre reinforced PA-66/TCE composites	2021	Materials Today - Proceedings	43		1640	1646	10.1016/j.matpr.2020.10.013	ELSEVIER	2214-7853	PHY
108	Reddy, B.C., Manjunatha, H.C., Vidya, Y.S., Sridhar, K.N., Pasha, U.M., Seenappa, L., Mahendrakumar, C., Sadashivamurthy, B., Dhananjaya, N., Sankarshan, B.M., Krishnaveni, S., Sathish, K.V., Gupta, P.S.D. (SCO)	Synthesis and characterization of multi functional nickel ferrite nano-particles for X-ray/ gamma radiation shielding, display and antimicrobial applications	2021	Journal of Physics and Chemistry of Solids	159				10.1016/j.jpcs.2021.110260			PHY
109	Sankarshan, B.M., Athrey, C.D., Umesh, T.K. (SCO)	Characterization of some stone samples of archaeological interest via Compton profile analysis	2021	Journal of Radioanalytical and Nuclear Chemistry	329	3	1353	1360	10.1007/s10967-021-07882-x			PHY
110	Shah K., Ghosh J., Shukla G., Chowdhuri M.B., Manchanda R., Yadava N., Ramaiya N., Jadeja K.A., Patel K.M., Tanna R.L., Mayya K.B.K. (SCO)	Observations of visible argon line emissions and its spatial profile from Aditya-U tokamak plasma	2021	Review of Scientific Instruments	92	5			10.1063/5.0043877	American Institute of Physics Inc.	346748	STUDENT
111	Kumar R., Gautam P., Gupta S., Tanna R.L., Edappala P., Shah M., Raulji V., Jadeja K.A., Patel K.M., Macwan T., Manchanda R., Chowdhuri M.B., Yadava N., Shah K., Makwana M.N., Balakrishnan V., Gupta C.N., Aich S., Kumawat D., Raj H., Sathyanarayana K., Ghosh J., Rajpal R., Chattopadhyay P.K., Saxena Y.C., the ADITYA -U Team (SCO/WoS)	Real-time feedback control system for ADITYA-U horizontal plasma position stabilisation	2021	Fusion Engineering and Design	165				10.1016/j.fusengdes.2020.112218	Elsevier Ltd	9203796	STUDENT

112	Yadava N., Chowdhuri M.B., Ghosh J., Manchanda R., Macwan T., Ramaiya N., Pandya A., Punchithaya K. S., Ismayil, Jadeja K.A., Nagora U.C., Pathak S.K., Shah M., Gautam P., Kumar R., Aich S., Patel K.M., Tanna R.L., and Aditya-U Team (SCO)	Investigation of Recycling and Impurities Influxes in ADITYA-U Tokamak Plasmas	2021	Plasma and Fusion Research	16		2402055-1	2402055-8	10.1585/PFR.16.2402055	Japan Society of Plasma Science and Nuclear Fusion Research	18806821	STUDENT
113	Venkata Subbaiah D., Pushkal Padala., Venkata Rao K. (SCO)	A Novel Approach for Detection of Driver Drowsiness Using Behavioural Measures	2021	Lecture Notes in Networks and Systems	134		403	414	10.1007/978-981-15-5397-4_41	Springer Science and Business Media Deutschland GmbH	23673370	STUDENT
114	Chilukuri P.K., Preethi Padala., Pushkal Padala., Desanamukula V.S., Pvgd P.R. (SCO/WoS)	L, r-Stitch Unit: Encoder-Decoder-CNN Based Image-Mosaicing Mechanism for Stitching Non-Homogeneous Image Sequences	2021	IEEE Access	9		16761	16782	10.1109/ACCESS.2021.3052474	Institute of Electrical and Electronics Engineers Inc.	21693536	STUDENT (CSE)

## CHAPTER 12

### INCUBATION, START UPS & PATENTS

#### ***12.1 Ecosystem for Innovation & Incubation***

NIE established Innovation and Entrepreneurship Development Centre (IEDC) in the year 2011 funded by the Department of Science & Technology, Govt. of India. Over fifty Innovative ideas have been developed and few of these have been filed for Patents.

ONYX- a student initiative to promote Entrepreneurship in association with National Entrepreneurship Network (NEN) of Wadhvani Foundation was established in 2011.

Student Chapters of IEEE, SAE, etc have been organizing Hackathon and other events to promote Innovation. Several Innovations have emerged from these activities.

New Age Incubation Network (NAIN), a project funded by Govt. of Karnataka, was instituted in the year 2013/14 to support Innovative Student Projects/ideas and take them to the next level in product commercialization.

Innovation Studio was established in the year 2015 to support Student Innovation. As per the mandate of TEQIP-III & AICTE/NPIU, a Start-up Cell is being established.

An Incubator was established during January 2018 to support Student/Alumni Start-ups. The Incubation facility can support eight Start-ups presently and additional facilities are being planned for the next year. Five Start-ups, founded by alumni of NIE are operating from the Incubator.

A Maker Space is being established under the Start-up Cell. The Maker Space would be equipped with tools and equipment to support development of Innovative projects. It would be equipped with both Electronic and Mechanical tools like 3-D Printers, laser cutters, sensors, development boards, safety equipments etc. The Maker Space is expected to be functional by the end of the current year.

## CHAPTER 13

### HUMAN RESOURCES

#### 13.1 Teaching Faculty

##### a) Total

Teaching Staff in Engineering Departments	Male	127	194
	Female	67	
Teaching Staff in Science & Humanities	Male	16	30
	Female	14	

##### b) Department wise

Department of Civil Engineering	Male	19	26
	Female	7	
Department of Mechanical Engineering	Male	47	49
	Female	2	
Department of Electrical & Electronics Engineering	Male	12	19
	Female	7	
Department of Electronics & Communication Engineering	Male	13	26
	Female	13	
Department of Industrial & Production Engineering	Male	10	13
	Female	3	
Department of Computer Science & Engineering	Male	11	30
	Female	19	
Department of Information Science & Engineering	Male	11	23
	Female	12	
Master of Computer Applications	Male	4	8
	Female	4	
Department of Physics	Male	5	7
	Female	2	
Department of Chemistry	Male	4	6
	Female	2	
Department of Mathematics	Male	4	10
	Female	6	
Other Departments	Male	3	7
	Female	4	

**c) Category wise**

GM	SC	ST	OBC	Total
186	18	6	14	224

**13.2 Technical Staff**

**a) Total**

Technical Staff	Male	88	104
	Female	16	

**b) Category wise**

GM	SC	ST	OBC	Total
57	15	11	21	104

**13.3 Administrative Staff (Non-Technical)**

**a) Total**

Administrative Staff	Male	42	76
	Female	34	

**b) Category wise**

GM	SC	ST	OBC	Total
50	12	2	12	76

**13.4 Faculty Qualifications**

Qualification	Number of Faculty
Ph.D. Holders	95
PG	129

## CHAPTER 14

### STUDENT PLACEMENT

#### *14.1 Students Placement Matrix*

<b>THE NATIONAL INSTITUTE OF ENGINEERING, MYSORE – 570 008.</b>						
<b>STUDENTS PLACEMENT MATRIX (BATCH OF 2020 - 2021)</b>						
<b>Disciplines</b>	<b>Students Registered</b>	<b>Students ELIGIBLE</b>	<b>Students Recruited</b>	<b>Actual %</b>	<b>OFFERS MADE</b>	<b>Offers%</b>
Computer Science & Engineering	148	124	132	106.45	<b>186</b>	150.00
Information Science & Engineering	121	86	106	123.26	<b>140</b>	162.79
Electronics & Communication Engineering	133	102	115	112.75	<b>178</b>	174.51
Electrical & Electronics Engineering	65	55	54	98.18	<b>76</b>	138.18
Mechanical Engineering	175	107	88	82.24	<b>119</b>	111.21
Industrial & Production Engineering	58	49	31	63.27	<b>36</b>	73.47
Civil Engineering	131	89	40	44.94	<b>42</b>	47.19
<b>UG TOTAL</b>	<b>831</b>	<b>612</b>	<b>566</b>	<b>92.48</b>	<b>777</b>	<b>126.96</b>
MCA	62	45	19	42.22	<b>19</b>	42.22
M.Tech – CNE	11	11	4	36.36	<b>4</b>	36.36
M.Tech – IT	13	11	4	36.36	<b>4</b>	36.36
M.Tech – CAID	12	8	1	12.50	<b>1</b>	12.50
M.Tech – PS	15	15	4	26.67	<b>4</b>	26.67
M.Tech -NIE	10	10	3	30.00	<b>3</b>	30.00
M.Tech – IAR	14	12	1	8.33	<b>1</b>	8.33
M.Tech – STRUC	0	0	0	0.00	<b>0</b>	0.00
M.Tech -MMD	14	9	4	44.44	<b>4</b>	44.44
M.Tech - PEST	0	0	0	0.00	<b>0</b>	0.00
M.Tech -HYD	6	6	6	100.00	<b>6</b>	100.00
M.Tech - NANO	11	11	3	27.27	<b>3</b>	27.27
<b>PG TOTAL</b>	<b>168</b>	<b>138</b>	<b>49</b>	<b>35.51</b>	<b>49</b>	<b>35.51</b>
<b>TOTAL (UG+PG)</b>	<b>999</b>	<b>750</b>	<b>613</b>	<b>81.73</b>	<b>826</b>	<b>110.13</b>

#### *Compensation Details*

<b>BATCH</b>	<b>MINIMUM</b>	<b>MEDIAN</b>	<b>MAXIMUM</b>
2020-21	3.5	7.8	46.5

**CHAPTER 15**  
**FINANCIAL ASSISTANCE / SCHOLARSHIPS TO STUDENTS**

SL. NO	BRANCH	OBC	2B	SC /ST	PMSSS [U.G.]	GATE [P.G.]	No of Students applied	Total No of Students
1	CV	232	27	101	6		366	149
2	ME	219	51	108	4		382	399
3	EE	132	25	53	3		213	160
4	EC	107	27	69	2		205	320
5	IP	75	14	42	0		131	98
6	CS	88	32	52	5		177	394
7	IS	73	37	50	0		160	366
8	M.Tech.	106	19	57	0	3	185	86
9	MCA	102	7	18	0		127	50
10	EV.Col.	20	1	8	0		29	37
		1154	240	558	20	3	1975	2059

## CHAPTER 16

### LIBRARY

#### 16.1 Amount Spent for Books and Periodical

Financial Year (2020-2021)	
Books	8,81,485
E-Resources	7,79,942
Print Journals	36,449
Others	84,899
Total	17,90,775/-
	33,00,000
	Note : Above mentioned Fee collected from Students and paid to VTU for E-Journals through VTU Consortium

#### 16.2 Number of Books Added - Department Wise

BRANCHES	2020-2021	
	No. of Titles	No. of Books
Civil Engineering	47	48
Mechanical Engineering	45	45
Electrical & Electronics Engineering	32	35
Electronics & Communication Engineering	47	54
Industrial Production Engineering	34	34
Computer Science And Engineering	36	36
Information Science And Engineering	35	35
Physics	5	5
Chemistry	6	6
Mathematics	20	27
PG Power System & CAID	15	16
PG- PEST	17	17
PG- Structural	27	27
PG- Hydraulics	6	6
PG-MCA	19	20
M.TECH (IT)	15	15
PG-CNE	11	11
PG ROBOTICS	10	10
PG- Nano Technology	10	10
PG- Machine Design	12	12
PG - NIE	22	23
UG Books (1 <sup>st</sup> Year)	12	12
Others/General Books/ Kannada	41	41
Gift Books	20	20
Doctoral/MSc	20	21
Total	564	586

### 16.3 e-Journal and Other Periodicals Added

SL No.	E-resources	URL for access subscribed journals
<b>Institutional Subscription</b>		
1	IEEE / IET Electronic Library (483 e-Journals)	<a href="https://ieeexplore.ieee.org">https://ieeexplore.ieee.org</a>
<b>Funded by AICTE</b>		
2	ASCE (34 e-Journals) ( <b>Funded by AICTE</b> )	<a href="http://ascelibrary.org">http://ascelibrary.org</a>
3	ASME, (25 E-Journals) ( <b>Funded by AICTE</b> )	<a href="http://asmedigitalcollection.asme.org/">http://asmedigitalcollection.asme.org/</a>
4	Web of Science ( <b>Funded by AICTE</b> )	<a href="http://www.webofscience.com">http://www.webofscience.com</a> (access @NIE Intranet only)
<b>Through VTU Consortium</b>		
5	Elsevier (Engineering CSE+EE+ME+EC and CV) (296 E-Journals) ( <b>Back issues from 2010</b> )	<a href="http://www.sciencedirect.com">http://www.sciencedirect.com</a>
6	IEEE Proceedings order Plan (POP),100 Core IEEE Conference Title ( <b>Back issues from 2010</b> )	<a href="https://ieeexplore.ieee.org">https://ieeexplore.ieee.org</a>
7	Springer Nature (EE+ME+CV+CS+ Allied Subject (690 e-Journals) ( <b>Back issues from 1997</b> )	<a href="http://link.springer.com">http://link.springer.com</a>
8	Taylor & Francis (Engineering CSE+EE+ME+EC and CV) (555 e-Journals) ( <b>Back issues from 2010</b> )	<a href="http://www.tandfonline.com">http://www.tandfonline.com</a>
9	Emerald (Management) (120 e-Journals)	<a href="https://www.emeraldinsight.com/">https://www.emeraldinsight.com/</a>
10	ProQuest ( <b>Back issues from 1962</b> ) 3900 e-Journals +7800 Abstracts	<a href="https://www.proquest.com/">https://www.proquest.com/</a>
11	Knimbus Digital library : Knimbus presents a single search window to all subscribed resources ( For Remote Access visit this link and register) <b>Remote access + Mobile App</b>	<a href="https://niem.new.knimbus.com/user#/home">https://niem.new.knimbus.com/user#/home</a>
12	NetAnalytik ( LANQUILL Writing Grammar Tool)	<a href="https://sententia.online">https://sententia.online</a>
<b>Other</b>		
13	N-List E- Resources (Through INFLIBNET)	<a href="http://nlist.inflibnet.ac.in/">http://nlist.inflibnet.ac.in/</a>
14	DELNET - ( <b>Bibliographic Database/ Inter Library Loan</b> )	<a href="http://164.100.247.30/">http://164.100.247.30/</a> (within Intranet)
<b>e-Books - Through VTU Consortium</b>		
15	Springer E-books: 13000 e-books in Engineering and Allied Subjects	<a href="https://link.springer.com/">https://link.springer.com/</a> or <a href="https://niem.new.knimbus.com/user#/home">https://niem.new.knimbus.com/user#/home</a>
16	Taylor & Francis / CRC E-books: 4950 e-books in Engineering and Architecture	<a href="https://www.taylorfrancis.com/">https://www.taylorfrancis.com/</a> or <a href="https://niem.new.knimbus.com/user#/home">https://niem.new.knimbus.com/user#/home</a>

17	Elsevier E-Books : Engineering and Allied Branches of Engineering ( 436 e-Books)	<a href="http://www.sciencedirect.com">http://www.sciencedirect.com</a> or <a href="https://niem.new.knimbus.com/user#/home">https://niem.new.knimbus.com/user#/home</a>
18	McGraw-Hill Education : Engineering Express (505 E-Books)	<a href="http://mcgrawhilleducation.pdn.ipublishcentral.com/">http://mcgrawhilleducation.pdn.ipublishcentral.com/</a> or <a href="https://niem.new.knimbus.com/user#/home">https://niem.new.knimbus.com/user#/home</a>
19	New Age International: 220 e-Books (Perpetual Access)	<a href="https://niem.new.knimbus.com/user#/home">https://niem.new.knimbus.com/user#/home</a> or <a href="https://digital.elib4u.com/">https://digital.elib4u.com/</a>
20	Packt : Engineering and Professional Computers (5002 e-Books)	<a href="https://niem.new.knimbus.com/user#/home">https://niem.new.knimbus.com/user#/home</a>
<b>e-Books - Through NIE, Library</b>		
21	Pearson e-Books ( 118 e-Books)	<a href="https://elibrary.in.pearson.com/">https://elibrary.in.pearson.com/</a>
<b>Other Library Services</b>		
22	Library Web - OPAC: Book Search, Check Availability of Library Document Check Status and Location	<a href="http://library.nie.ac.in/opac">http://library.nie.ac.in/opac</a>
23	Digital Library: Book CDs, Faculty publications Previous year Question Papers Photo Gallery, Syllabus, Newsletters CD-Mirroring (CDs/DVDs) , Newspaper Clippings, NPTEL videos etc....	<a href="http://192.168.19.73:8082/DLClient6/login">http://192.168.19.73:8082/DLClient6/login</a> (within Intranet) <b>User Name - student</b> <b>Password - student</b>
24	Plagiarism Check Service:	NIE has made a policy to avoid plagiarism from the year 2018-19. It is mandatory to check UG / PG / Ph.D. Thesis / Project Report using anti plagiarism tool TURNITIN which is available at NIE Library. Visit <a href="http://www.nie.ac.in/library">www.nie.ac.in/library</a> for guidelines for Plagiarism check.

## CHAPTER - 17

### FACILITIES & AMENITIES

#### *17.1 Sports: Sports Facilities in NIE*

##### 17.1.1. Outdoor

- Basketball Court
- Volleyball Court
- Handball Court
- Netball Court
- Ball Badminton Court
- Kabbadi Court
- Throwball Court
- Kho-Kho Court
- Softball Field
- Archery

##### 17.1.2. In Door

- Badminton.
- Table Tennis
- Chess
- Weight Lifting
- Power Lifting
- Wrestling.
- Judo
- Fitness Center
- Basketball

##### 17.1.3. Qualified Personnel

Physical Education Director No. of Post: 02

Fitness Center Instructor No. of Post: 01

The Institution has one state of art Indoor Sports Complex which accommodates 1 Basketball Court/6 Badminton Courts with separate seating enclosures for Spectators.

## CHAPTER 18 MAJOR EVENTS

5/6/2020	Global Event	World Environment Day	Offline
9/6/2020	IPR Workshop	'Ideas to Intellectual Property	Webinar
12/6/2020	Women Empowerment Program	Wholistic Development of Women	Webinar
19/6/2020	Webinar	Industry 4.0 - Smart Factory	Webinar
20/6/2020	Webinar	Python for C-Programmers	Webinar
21/6/2020	National webinar on the topic of "Yoga and Wellness"	One Day National Level Webinar on the Occasion of 6th International Day of Yoga 2020	Online
25/6/2020	Women's Rights	Webinar on "Awareness Program on Laws pertaining to Sexual Harassment of Women at work place" sponsored by TEQIP 3 in association with CICC,NIE	Webinar
26/6/2020	Webinar	Characterization Techniques for Nanomaterials	Webinar
27/6/2020	Women's Rights	Laws pertaining to Women's Equality and Support	Webinar
27/6/2020	Soft Skills	Virtual power seminar on Transformation through soft skills	Webinar
29/6/2020	Gender Equality	Gender Sensitization - The Need of the Hour	Webinar
30/6/2020	Health Awareness Program	Domestic violence, abuse and AIDS awareness	Webinar
6/7/2020	Webinar	Effective Teacher's Toolkit Post COVID	Webinar
11/7/2020	Values and Ethics	Universal Values and Ethics	Webinar
11/7/2020	Values and Ethics	Universal Values and Ethics	Webinar
15/9/2020	Birth Anniversary	Engineers' Day	Offline
Ongoing activity every weekend till date 2019-2020	Initiatives to address locational advantages and disadvantages.	Paper Empowerment	Offline and Online

- Received Extension of Approval (EoA) from AICTE for the academic year 2021-22 for all the UG and PG Programmes
- **Accreditation Status:**
  - Grant of accreditation status to two PG Programmes for the period from 2020-21 to 30.6.2021 on the basis of pre qualifiers submitted.
    1. Production Engg & System Technology
    2. Hydraulics
- E-SAR submitted for NBA accreditation for the following UG and PG Programmes and the Expert Team is visiting NIE from November 26 to 28, 2021:

UG Programmes:

1. Computer Science & Engg
2. Information Science & Engg.

PG Programmes:

1. Hydraulics
2. Production Engg & System Technology
3. Machine Design

- UGC Expert Committee visited NIE from September 27 to 29, 2021 for extension of UGC Autonomy. Awaiting for reply from UGC.
- **Received following three patents in the name of NIE**

Application No.	Invention title	Date of Filing	Month of Grant
6214/CHE/2014	Recycled brick powder composition for masonry block and a method for synthesising the same (Dr. G.L.Shekar, Dr. M.V.Achutha, Mr. T.H.Sadashivamurthy)	9.12.2014	July 2021
2018 41013466	Experimental evaluation of flexural toughness of fiber reinforced concrete subjected to sustained elevated temperature (Dr.N.Suresh)	9.4.2018	
2018 41048370	A device to tap black carbon and other particulate matter from diesel engine vehicles (Dr.	20.12.2018	

	Y.S.Varadarajan, Dr. Sangamesha M.A., Dr. K.Pushpalatha)		
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- **Following faculty members have been granted with patents**

<b>Name of the faculty</b>	<b>Designation / Department</b>	<b>Innovation Title</b>	<b>Month of Grant</b>
Dr. N.C. Balaji	Asso. Professor Civil Engg.	Double Guarded Hot Box	March 2021
Dr. K.R.Prakash	Professor Mech. Engg.	Method and System for Performing Experiments in a Remote a Laboratory	May 2021
Dr. C.Vidyaraj	Professor CS & Engg.	Scalable Space Structured Ledger Framework for Industrial Internet of Things using Block Chain Technique	June 2021

- **Sanction of Research Grants:**

<b>Sl. No.</b>	<b>Title of the Project</b>	<b>Agency</b>	<b>Sanctioned Amount (Rs.)</b>	<b>Tenure of the project</b>
1.	CSRTI Project "Development of Artificial Intelligence Empowered Multi Sensor Approach for Gender Classification and Separation of Silkworm Cocoons (CSB Project Code - MFM 01020CN)" (Dr.Nithin K.S )	GoI - CSRTI	15,97,000/-	1 Year
2.	FIST Programme -2020 (EEE / ECE)	DST	96,00,000/-	5 years
3.	Biodegradable Plastic Mulch Films from Agriculture Waste for Sustainable Agriculture (Dr.M.A.Sangamesha)	VGST	3,00,000/-	
4.	Non Destructive Testing Instrument for Identification Silk Content in the Fabric (Dr. Nithin K.S.)	CSRTI	28,40,000/-	2 years
5.	Student Innovation Grant Programme (Dr. Rekha K.S.)	ARTPAR K	1,80,000/- +10,000/- pm for 4 students	

- Collaborating with BARC, Mysuru to establish ‘BARC-NIE Centre for Electric Vehicle Development’ - Received equipment worth Rs. 10,00,000/- from BARC
- Prof. B. Suresha, HoD, Department of Mechanical Engineering, has been featured in the recent list of world's top 2 percent scientists prepared by Stanford University and Elsevier BV, a Netherlands-based publishing company.
- Signed MoU with KSAST, Kashmir (initiated by Dept. of Chemistry) towards collaborative research, innovation and product development initiatives. The said MoU was opened with Dr. Nithin from NIE and Dr. Aabid Khaliq Tantray initiating a joint book on Product Diversification and By-product Utilization.
- Signed MoU with BECHOFF Automation Pvt. Ltd., India on 30.6.2021 to set up NIE-BECKOFF Centre for PC based Automation Technology for furthering the cause of development of Automation skills at NIE.
- Signed MoU with Abhi Trust on 23.9.2021 with regard to providing scholarship to meritorious poor students.
- AICTE Training And Learning (ATAL) Academy sponsored five day (21-25 July 2021) Faculty Development Programme "Hands-on approach for Design and implementation of Lab-on-breadboard- A blended learning", was jointly organised by Department of ECE & EEE
- Research centric book Titled “Polymer-based advanced functional composites for optoelectronic and energy applications” authored by Dr. Nithin Kundachira Subramani, Asst. Professor, Dept. of Chemistry, NIE, Dr. M. R. Siddaramaiah, and Dr. Joong Hee Lee, published with Elsevier publishing house, was released to public domain by Dr. N.V. Raghavendra, Principal, NIE on 23.7.2021.
- Signed MoU with Bhoruka Extrusions Pvt. Limited with regard to Industrial Training and visits, Internship / Skill Development Programmes, carrying out live projects, placements, and other related services.
- Signed MoU with Faberz Technologies Pvt. Ltd., Nashik. This collaboration will enable the two organizations to synergise their expertise and give boost to research, invention and start-ups at NIE.
- The Dept. of Mechanical Engineering was organized ATAL - FDP on "Fabrication and Characterization of Thin Films for Future Technological Applications" from Aug. 16 - 20, 2021.  
Dr. A. Subramanyam, Dean, Faculty of Science, GITAM University, Vishakapatnam & Former Professor, Dept. of Physics, IIT/Madras was the Chief Guest and inaugurated the event.
- Successfully conducted COVID -19 Vaccination Drives during the month June, August and October, 2021 for all the faculty members and students of NIE Group of Institutions.