



# SRI RANGANATHAR INSTITUTE OF ENGINEERING AND TECHNOLOGY

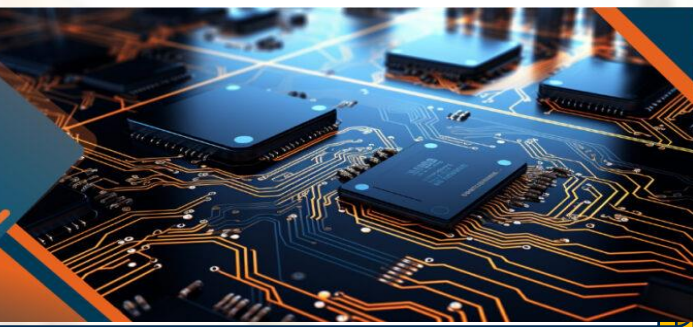
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)

Accredited by NAAC with "A+" Grade & ISO 9001:2015 Certified Institution

Athipalayam, Coimbatore - 641 110. Web site: sriet.ac.in Ph: 0422 2697792



## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



# EMEER ASSOCIATION



**PROUDLY PRESENT**



# MAGAZINE ZK24



Coimbatore, Tamil Nadu, India  
Athipalayam, Tamil Nadu  
Lat: 11.130004°  
Long: 76.950004°

**SRIET Profile:**

*Sri Ranganathar Institute of Engineering and Technology (SRIET) came into existence in 2011, out of an ardent desire of Dr. V. Narayanasamy to contribute manifold to the society that nurtured him. SRIET is an Innovative Educational Institution where the curiosity, creativity and intellectual joy of students all drive to academic excellence. Our Institution provides complex problem-solving skill and imbibes service to the public good. SRIET is defined by strong association and working in ways that excel in traditional boundaries.*

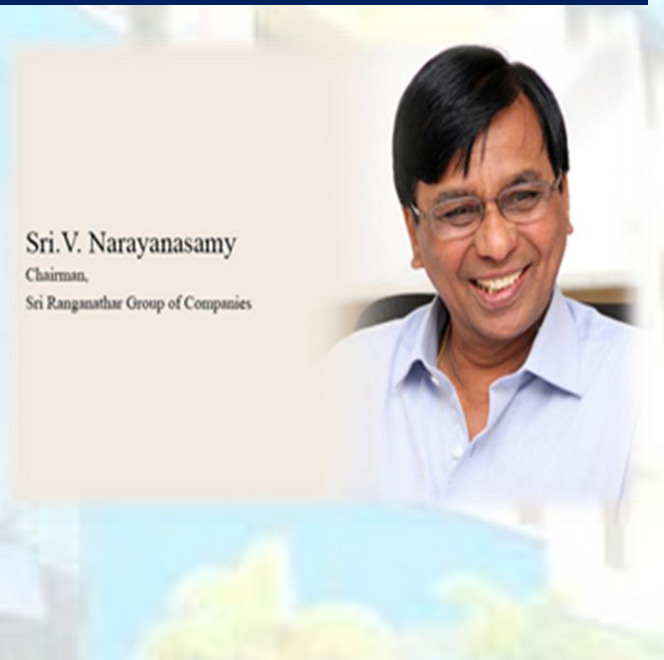
*SRIET's academic excellence is rooted in a student-centered model of learning. The Curriculum is an accurate approach to education that pushes the students to be creative thinkers, intellectual risk-takers and entrepreneurial problem-solvers. SRIET leaves students prepared to thrive as independent and innovative leaders and equipped with the tools they need to become the next generation of leaders in their respective fields.*



**Chairman's Message:**

*Shri. V. Narayanasamy "Best Methods Man – Steel Foundry", Chairman of SRI Group with 40+ years of rich Industry experience established Sri Ranganathar Institute of Engineering and Technology (SRIET) in 2011, an Industry Integrated Institute to offer quality Engineering Education*

*Sri Ranganathar Institute of Engineering and Technology, an Industry Integrated Institution since its inception in 2011, has made notable progress by following the mantra of student centric approach, in both academic and extra-curricular activities. The service of the Institution in constructing personally matured, skilfully equipped and service-oriented graduates is certainly worth mentioning. We firmly believe in academic excellence and never compromise on teaching standards or discipline. These three things are the catalysts on which we operate.*



Sri.V. Narayanasamy  
Chairman,  
Sri Ranganathar Group of Companies

**Institute Vision & Mission:**

**VISION**

To be a unique Institution that enables students to become contributing Humans towards technology, business and sustainability of natural world.

**MISSION**

Our mission is to facilitate students with harmonious teaching and experiential learning by integrating industrial and societal needs with curriculum, providing requisite infrastructure facilities and imbining ethical values

## Principal's Message:

*“Welcome to our SRIET, on behalf of all of our faculty, staff and students...”*

*In today's competitive global world, a skilled technical education is becoming increasingly important for future success. As Principal, I am extremely proud of our college's rich tradition of providing valuable, experience-based engineering education since its inception. Our programs prepare students to become leaders with the moral depth and intellectual rigor required to meet the challenges of a critical societal transition. We offer individualized, high-quality education delivered by an experienced and well-qualified faculty who bring objectivity and a practical focus to their classrooms. We attract students from a wide range of ethnic and cultural backgrounds, resulting in a vibrant and stimulating classroom environment.*

*With this message, I'd like to wish all of our students, alumni, and future students a very positive and effective experience together.”*



**Dr. H. Ganeshan, M.E., Ph. D.**  
**Principal**

## About the Department:

*Electrical engineers synthesize science, mathematics, technology, and application-oriented designs into world-class consumer products, timely microprocessors, state-of-the-art computers, advanced electronic components, and much more. From cutting-edge technology revolutions to real life applications, the innovations of electrical engineers continue to lead the future and elevate the standards in the marketplace. With a shortage of electrical engineering talent in the job market, the demand for graduates with an electrical engineering degree remains at an all-time high.*



## Department Vision & Mission:

**VISION**

To enable our students to have a higher degree of competence in enhancing efficiency in energizing the world and maximizing green energy

**MISSION**

- Our To facilitate students to adept latest technology in addressing the challenges in transmission and distribution of electricity.
- To engage and collaborate with education and experience towards building unified technology
- To kindle the students to innovate in designing and developing new products and process that add value to customers
- To inculcate the need of green energy in the minds of students to sustain Mother nature

## HOD'S DESK

I believe my role as an educator is to guide and nurture the next generation to establish skills to achieve health, respect, prosperity and fulfilment.

The ability to be innovative and creative is important to me. I enjoy being challenged and inspired by the people around me. I am an avid supporter of effective and innovative professional development that encourages teachers to be reflective and to continuously examine our practice to provide quality teaching and learning for each student. My role as head of the department is to keep up with latest trends and research and be an active partner in the college's professional development.



**Dr. J MAALMARUGAN M.E., Ph.D.,**  
**Professor, HOD**

Email: maalmarugan@sriet.ac.in

Mobile: 84899 29865

## List of Faculties:

S.NO	NAME OF THE STAFF	DESIGNATION
1	Dr J MAALMARUGAN	PROFESSOR & HEAD
2	Dr R LEENA ROSE	ASSOCIATE PROFESSOR
3	Dr K BAGYALAKSHMI	ASSOCIATE PROFESSOR
4	Mr ALEX GEORGE	ASSISTANT PROFESSOR
5	Mr P MEENAKSHI SUNDARAM	ASSISTANT PROFESSOR
6	Mrs M MALATHI	ASSISTANT PROFESSOR
7	Mr D PALANIVEL	ASSISTANT PROFESSOR
8	Mr K MUTHURAJ	ASSISTANT PROFESSOR
9	Mr K RAJESH KUMAR	ASSISTANT PROFESSOR
10	Mr K KARTHIKAYAN	ASSISTANT PROFESSOR
11	Mrs G MARIYA SUNDARI	ASSISTANT PROFESSOR
12	Mrs S DIVYA	ASSISTANT PROFESSOR

## LABORATORY SPECIFICS:

### Power Electronics and Drives Laboratory:

- ✦ It consists of different kinds of demo kits such as SCR characteristics, study kit for D.C motor control using chopper and necessary simulation software.
- ✦ The lab is equipped with all the power electronic converters, DSP and FPGA based DC and AC Drives, Digital Integrated kits, Power supplies.

### Electrical Machines Laboratory:

- ✦ Imparts the knowledge about characteristics and behaviour of the DC and AC Machines.
- ✦ Well established with all kinds of motors, generators and latest Drives.

### Control System Laboratory:

- ✦ Lab is equipped with control system kits like DC servomotor and synchronous.
- ✦ Well, established with instrumentation kits like LVDT, strain gauge, thermistor and thermocouple kit
- ✦ Provides an opportunity for the students to implement the control system concepts.

### Power System Simulation Laboratory:

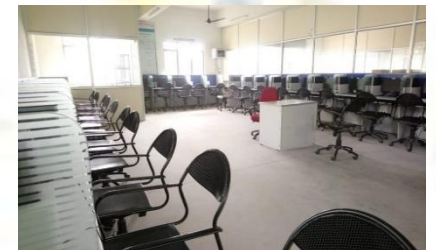
- ✦ Furnished with high-speed internet facilities in all the systems.
- ✦ Software like ETABS in this lab interface the mathematical computing visualization and a powerful language to provide a flexible environment for technical computing in the areas of power electronics, control system, power system and electronic circuits.

### Engineering Practices Laboratory

- ✦ To impart the practical knowledge to the students about the Domestic Appliances, wiring, transformers DC machines, AC machines and basic electronic circuits.
- ✦ Established with the basic tools, machines and accessories to provide service to all first-year students.

### Renewable Energy Laboratory

- ✦ The Renewable energy laboratory is equipped with solar photovoltaic training and research system, solar thermal training system, solar concentrator training system and wind energy training system.



## PROGRAM OUTCOMES (PO)

<b>PO1: Engineering knowledge</b>	Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
<b>PO2: Problem analysis</b>	Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
<b>PO3: Design/development of solutions</b>	Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
<b>PO4: Conduct investigations of complex problems</b>	Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
<b>PO5: Modern tool usage</b>	Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
<b>PO6: The engineer and society</b>	Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
<b>PO7: Environment and sustainability</b>	Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
<b>PO8: Ethics</b>	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
<b>PO9: Individual and team work</b>	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
<b>PO10: Communication</b>	Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
<b>PO11: Project management and finance</b>	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
<b>PO12: Life-long learning</b>	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

## PROGRAM SPECIFIC OUTCOMES (PSO)

<b>PSO1</b>	Capable to provide socially acceptable technical solutions to complex electrical engineering problems with the application of modern and appropriate techniques for sustainable development.
<b>PSO2</b>	Comprehend, analyses and design products in core domains namely power, control and energy to meet the ever-changing demands of industry and society.

**Student's Achievements:**

Students Participation Details					
Academic Year	Conference	Seminar/ Paper presentation	Workshop	Internship/ Training	Other Events
CAY (2023-2024)	35	26	21	30	56

**Price Winners:**

S. No	Team / Participants	Name of the Event	Name of the Organizer	Date	Price
1.	BOOMIKA S	State level Tamil speech competition	DMK Students team, Coimbatore.	Oct 2023	II
2.	MOHANAPRIYA M	National level technical symposium "InnovX 2K23" under <b>Circuit Formation</b>	Christ the king engineering college, Coimbatore.	06.10.2023	I
3.	GUNA	<b>Paper Presentation</b> in one-day National level technical symposium <b>INTER'O FEST 2K24</b>	Sree Sakthi Engineering College	23.03.2024	III
4.	YASWANTH SURIYA				
5.	BHOOMIKA	One-day <b>National level technical symposium VARUNAH-2K24</b> under paper presentation	Kathir College of Engineering, Neelambur, Coimbatore-641062	28.03.2024	I
6.	DEEPIKA				





**Student's Conference Details:**

S. No	Name of the Student	Name of the Event & Title	Name of the Organizer	Date
1.	AMERUNISHA M	Presented a paper titled on "Fuzzy Type-II Controller Based UPQC for Power Quality Enhancement in Grid Connected Micro Grid System" in the one-day National level Conference on "Innovations in Communication and Electrical Drives"	P.A College of Engineering and Technology, Pollachi-642002	16.04.2024
2.	ABISHIEK S			
3.	MOHINTHBABU J			
4.	RAJA M			



5.	ARUNKUMAR S	Presented a <b>paper titled on RASPBERRY PI BASED FACE RECOGNITION AND FINGERPRINT ATTENDANCE SYSTEM</b> in the <b>International conference on Recent Trends in Engineering and Science (ICRTES-2024)</b>	Kings College of Engineering Pudukkottai.	02.05.2024 & 03.05.2024
6.	PRAJITHAKUMARI P			
7.	GOPI P			
8.	SELVA BHARATHI R			
9.	BALAMURUGAN N	Presented a <b>paper titled on SOLAR BASED EV WIRELESS CHARGING USING IOT</b> in the <b>International conference on Emerging Trends in Engineering, Technology and Science (ICETETS -2024)</b>	Kings College of Engineering Punalkulam, Thanjavur, Tamil Nadu.	02.05.2024
10.	VASANTHA JANANEESWARI N			
11.	SUNDAR P			
12.	VIJAY B			
13.	FEROSHA THOWHITH S	Presented a <b>paper titled on OPTIMIZING ENERGY HARVESTING AND LOAD MANAGEMENT</b> in the <b>International conference on Emerging Trends in Engineering, Technology and Science (ICETETS -2024)</b>	Kings College of Engineering Punalkulam, Thanjavur, Tamil Nadu.	02.05.2024
14.	BALAJI N			
15.	UMAMAHESWARI R			
16.	DANIEL I			
17.	YAZHINI S	Presented a <b>paper titled on DESIGN OF A LOW-COST PRINTED CIRCUIT BOARD DEVELOPMENT SYSTEM</b> in the <b>International conference on Recent Trends in Engineering and Science (ICRTES-2024)</b>	Kings College of Engineering Pudukkottai	02.05.2024 & 03.05.2024
18.	KARUPIAH S			
19.	JERIN TITUS J			
20.	MURALIDHARAN V			
21.	MANIRATHNAM S	Presented a <b>paper titled on ENHANCEMENT OF SOLAR GENERATION USING MODULE MOUNTING STRUCTURE</b> in the <b>International conference on Emerging Trends in Engineering, Technology and Science (ICETETS -2024)</b>	Kings College of Engineering Punalkulam, Thanjavur, Tamil Nadu.	02.05.2024
22.	ARESH M			
23.	SIRANJEEVI S			
24.	KIRUBHAKARAN. OM			
25.	ISHWARYA.S	Presented a <b>paper titled on GRID INTERGRATION SOLAR PV SYSTEM USING MULTILEVEL INVERTER WITH POWER QUALITY INTENSIFICATION</b> in the <b>International conference on Emerging Trends in Engineering, Technology and Science (ICETETS -2024)</b>	Kings College of Engineering Punalkulam, Thanjavur, Tamil Nadu.	02.05.2024
26.	SRIRAM S			
27.	SIDDHARTH A			
28.	RADHAKRISHNAN J			
29.	RAJAPERUMAL M	Presented a <b>paper titled on DESIGN AND IMPLEMENTATION OF AN EMERGENCY SOLAR CHARGING SYSTEM FOR ELECTRIC SCOOTERS</b> in the <b>International conference on Recent Trends in Engineering and Science (ICRTES-2024)</b>	Kings College of Engineering Pudukkottai	02.05.2024 & 03.05.2024
30.	THASIN K			
31.	SELVAPANDI P			
32.	VINITHA J			
33.	VIGNESH C N	Presented and published a <b>paper titled on SMART ENERGY EFFICIENT AUTOMATION SYSTEM WITH SECURITY FEATURES USING IOT</b> in the <b>International Journal of Research and Analytical Reviews (IJRAR)</b>	The Board of International Journal of Research and Analytical Reviews (IJRAR)	02.05.2024
34.	PRIYADHARSHINI K			
35.	SURYA S			



### Student's Participation Details:

S. No	Name of the Student	Year	Name of the Event & Title	Name of the Organizer	Date
<b>Seminar/ Symposium&amp; Paper Presentation:</b>					
1.	Sridhar S	II EEE	Participated in <b>circuit formation</b> event at <b>“InnovX 2k23 a national level technical symposium”</b>	Christ the King Engineering College, Karamadai, Coimbatore	06.10.2023
2.	Manmathi Saru G	II EEE			
3.	Chandrikha R	II EEE			
4.	Mohanapriya M	II EEE			
5.	Boomika S	II EEE	Participated in <b>Paper Presentation</b> event at <b>“InnovX 2k23 a national level technical symposium”</b>	Dr NGP Institute of Technology, Coimbatore-641048	04.03.2024 and 05.03.2024
6.	Mohanapriya	II EEE			
7.	Sujithkumar S	III EEE	Participated in the <b>“circuit Surge and Circuitry”</b> event during the HENOSIS 2K24	Dr NGP Institute of Technology, Coimbatore-641048	04.03.2024 and 05.03.2024
8.	Balu Prathick P	III EEE	Participated in the <b>one-day National level technical symposium INTER’O FEST 2K24</b>	Sree Sakthi Engineering College	23.03.2024
9.	Dhanush B	III EEE			
10.	Guna	III EEE	Participated in the <b>one-day National level technical symposium INTER’O FEST 2K24</b> and secured <b>Third Prize in Paper Presentation</b>	Sree Sakthi Engineering College	23.03.2024
11.	Yaswanth Suriya	III EEE			
12.	Arunkumar J	II EEE	Participated in the <b>one-day National level technical symposium INTER’O FEST 2K24</b>	Sree Sakthi Engineering College	23.03.2024
13.	Jana Prathap S	II EEE			
14.	Premkumar M	II EEE			
15.	Anishkumar A	II EEE			
16.	Jana Prathap S	II EEE	Participated in the <b>state level technical symposium XTENSIS 2024</b> under the event <b>Brain Byte</b>	Sri Ramakrishna Engineering College, Coimbatore-641022.	26.03.2024
17.	Sridhar S	II EEE			
18.	Bhoomika	II EEE	Participated in the <b>one-day National level technical symposium VARUNAH-2K24</b> under <b>paper presentation</b> and got <b>first Place</b>	Kathir College of Engineering, Neelambur, Coimbatore-641062	28.03.2024
19.	Deepika	II EEE			

20.	Arunkumar J	II EEE	Participated in the <b>one-day National level technical symposium VARUNAH-2K24</b>	<b>Kathir College of Engineering, Neelambur, Coimbatore-641062</b>	28.03.2024
21.	Kabilan E	II EEE			
22.	Tharun Kumar Reddy	II EEE			
23.	Premkumar	II EEE			
24.	Ramajeyam V	II EEE			
25.	Ramar M	II EEE			
26.	Sridhar S	II EEE			

**Workshop:**

1.	Yazhini S	IV EEE	Participated in one day <b>national level workshop on “Python for Embedded Projects”</b>	Karpagam college of Engineering	25.08.2023
2.	Prajithakumari P	IV EEE	Successfully completed the <b>3 Hours Workshop</b> in “Cybersecurity”	Novitech R&D Private Limited	31.08.2023
3.	Selvapandi	IV EEE			
4.	Sakunth B	III EEE			
5.	Sivasakthinathan M	III EEE			
6.	Lakshmanan C	III EEE			
7.	Balu Prathick P	III EEE			
8.	Sivasakthinathan M	III EEE	Successfully completed the <b>2 Hours Workshop</b> in “Artificial Intelligence”	Novitech R&D Private Limited	25.09.2023
9.	Sivasakthinathan M	III EEE	Successfully completed the <b>2 Hours Workshop</b> in “Cybersecurity”	Novitech R&D Private Limited	27.09.2023
10.	Sivasakthinathan M	III EEE	Successfully completed the <b>2 Hours Workshop</b> in “Full Stack Development”	Novitech R&D Private Limited	28.09.2023
11.	Kamalesh R	III EEE	Successfully completed <b>2-days workshop</b> on “Embedded Systems and Basics of IoT”	KIT – Kalaingarunanidhi Institute of Technology, Coimbatore.	12.10.2023 & 13.10.2023
12.	Sowmiya V	III EEE			
13.	Lakshmanan C	III EEE			
14.	Balu Prathick P	III EEE			
15.	Sree Vidhya Harini	III EEE			
16.	Dhivahar S	III EEE			
17.	Balu Prathick P	III EEE	Participated in two days’ workshop on “ <b>Smart Charging, Bright Future: Understanding Battery Management Systems in Electric Vehicles</b> ”	Sree Sakthi Engineering College, Karamadai, Coimbatore-641104.	07.03.2024 and 08.03.2024
18.	Kamalesh R	III EEE			
19.	Kathirvel K	III EEE			
20.	Lakshmanan C	III EEE			
21.	Yaswanth Suriya	III EEE			

**Internship/Implant Training:**

1.	Balaji N	IV-EEE	Completed Internship as Associate Trainer at Face Prep	Face Prep 12, Lakshmi Nagar, Avinashi road, Coimbatore-641014	20.09.2023 to 04.11.2023
2.	SATHISHKUMAR.G	III-EEE	Undergone Internship Training at Bargave Rubber Private Limited, Kochadai, Madurai-625016	Bargave Rubber Private Limited, Kochadai, Madurai-625016	18.01.2024 to 25.01.2024
3.	DHIVAHAR S	III-EEE			
4.	GOKUL T	III-EEE			
5.	PRABHAKARAN S	III-EEE			
6.	SANGEETHA K	III-EEE			
7.	SRIEE VIDHYAHARINI K	III-EEE			
8.	SUVENDAR A	III-EEE			
9.	LOGESHWARAN A S	III-EEE			
10.	SARAVANA KUMAR K	III-EEE			

11.	SIVASAKTHINATHAN. M	III-EEE	Undergone Internship Training at Protowiz Private Limited, Coimbatore-641025	Protowiz Private Limited, Coimbatore-641025	18.01.2024 to 23.01.2024
12.	ASWI. N	III-EEE	Undergone Internship Training at SS Systems, Sivanandhapuram, Coimbatore - 641049	SS Systems, Sivanandhapuram, Coimbatore - 641049	09.01.2024 to 13.01.2024
13.	DHANUSH. B	III-EEE			
14.	GAYATHIRI J	III-EEE			
15.	GUNA M	III-EEE			
16.	KATHIRVEL K	III-EEE			
17.	LAKSHMANAN C	III-EEE			
18.	MERSILIN GEETHA J	III-EEE			
19.	SATHYA SANJEEV G	III-EEE			
20.	SOWMIYA V	III-EEE			
21.	RAVICHANDRAN N	III-EEE			
22.	KAMALESH R	III-EEE	Undergone Internship Training at Hi-Tech Research Foundation	Hi-Tech Research Foundation, Tharangambadi, Nagapattinam-609313	18.01.2024 to 25.01.2024
23.	BALU PRATHICK P	III-EEE	Internship Training at JPR Power Systems and Controls	JPR Power Systems and Controls, Maniakarampalayam, Coimbatore-641006	11.01.2024 to 25.01.2024
24.	SUJITH KUMAR S	III-EEE			
25.	KOWSALYA P	III-EEE	Undergone Internship Training at Shree M.T.K Textiles (P) Ltd	Shree M.T.K Textiles (P) Ltd, Pasur, Annur-641653	10.01.2024 to 20.01.2024
26.	GOWTHAM A	III-EEE			
27.	SAKUNTH B	III-EEE			
28.	Boomika S	II-EEE	Undergone an internship training in "Design Department"	Magnetic and Controls, Thudiyalur, Coimbatore-641034	26.02.2024 to 01.03.2024
29.	Chandrikha R	II-EEE			
30.	Mohanapriya M	II-EEE			

**Other Events (Technical Quiz, NPTEL, Sports):**

1.	Amerunisha	IV EEE	Submitted a project proposal on "Solar Powered Smart Agriculture using IoT"	<b>Ministry of Micro, Small and Medium Enterprises (MSME) Govt of India</b>	26.08.2023
2.	Yazhini S	IV EEE	Submitted a project proposal on "Smart Water Quality Monitoring and Distribution System Using IoT"		
3.	Gayathiri J	III EEE	Submitted a project proposal on "IoT Based Smart Grid Using Renewable Energy Systems"		
4.	Vinitha J	IV EEE	Completed course on "Variables in Java Coding"	Udemy	26.07.2023
5.	Vinitha J	IV EEE	Completed course on "Object Oriented Programming in C++ & Interview Preparation"	Udemy	27.07.2023
6.	Amerunisha M	IV EEE	Submitted a project proposal on "Fuzzy type-II controller based UPQC for power quality enhancement in grid connected micro grid system" with the cost of rs.11,500/-	<b>TNSCST Project 2023-24</b>	28.09.2023
7.	Abisheik S	IV EEE			
8.	Mohinthbabu J	IV EEE			
9.	Raja M	IV EEE			
10.	Ishwarya S	IV EEE	Submitted a project proposal on "Power system fault analyzer in distribution transformer" with the cost of rs.11,800/-	<b>TNSCST Project 2023-24</b>	28.09.2023
11.	Sriram S	IV EEE			
12.	Radhakrishnan J	IV EEE			
13.	Siddharth A	IV EEE			

14.	Ferosha Thowhith S	IV EEE	Submitted a project proposal on <b>“Smart electric vehicle battery charging solution”</b> with the cost of <b>rs.12,000/-</b>	<b>TNSCST Project 2023-24</b>	28.09.2023
15.	Balaji N	IV EEE			
16.	Daniel J	IV EEE			
17.	Umamaheswari R	IV EEE			
18.	Mugunthan M	IV EEE	Submitted a project proposal on <b>“Smart Irrigation and Agriculture Monitoring System Using Cloud Server Based on IoT”</b> with the cost of <b>rs.6,500/-</b>	<b>TNSCST Project 2023-24</b>	28.09.2023
19.	Priyadarshini K	IV EEE			
20.	Surya S	IV EEE			
21.	Vignesh C N	IV EEE			
22.	Rajaperumal M	IV EEE	Submitted a project proposal on <b>“Arduino Based Automatic Street light control”</b> with the cost of <b>rs.9,500/-</b>	<b>TNSCST Project 2023-24</b>	28.09.2023
23.	Selvapandi P	IV EEE			
24.	Thashin K	IV EEE			
25.	Vinitha J	IV EEE			
26.	Prajithakumari P	IV EEE	Submitted a project proposal on <b>“IoT based smart and secured operations for door locking system”</b> with the cost of <b>rs.5,167/-</b>	<b>TNSCST Project 2023-24</b>	28.09.2023
27.	Arunkumar S	IV EEE			
28.	Gopi P	IV EEE			
29.	Selvabharathi R	IV EEE			
30.	Balamurugan N	IV EEE	Submitted a project proposal on <b>“Solar Energy Based Efficient DC Drive Controller”</b> with the cost of <b>rs.4,000/-</b>	<b>TNSCST Project 2023-24</b>	28.09.2023
31.	Sundar P	IV EEE			
32.	Vasanthajananeeswari N	IV EEE			
33.	Vijay B	IV EEE			
34.	Aresh M	IV EEE	Submitted a project proposal on <b>“IoT Based smart grid using Renewable energy systems”</b> with the cost of <b>rs.10,580/-</b>	<b>TNSCST Project 2023-24</b>	28.09.2023
35.	Kirubhakaran OM	IV EEE			
36.	Siranjeevi S	IV EEE			
37.	Manirathinam S	IV EEE			
38.	Manmathi Saru G	II EEE	Participated in <b>state level Tamil speech and poetry competition</b>	DMK Students team,	Oct - 2023
39.	Boomika S	II EEE			
40.	Boomika S	II EEE	Participated in <b>state level Tamil speech competition and got second place</b>	DMK Students team,	Oct - 2023
41.	Siranjeevi S	IV EEE	Participated in <b>Online Technical Quiz -02 on Power Electronics</b>	<b>eeevIEWS blog</b>	04.10.2023
42.	Boomika S	II EEE	Successfully completed NPTEL <b>8 weeks online</b> course on <b>“Developing Soft Skills and Personality”</b> with <b>67%</b>	<b>IIT, Kanpur</b>	Jul-Sep - 2023
43.	Gayathiri J	III EEE	Successfully completed NPTEL <b>8 weeks online</b> course on <b>“Developing Soft Skills and Personality”</b> with <b>47%</b>	<b>IIT, Kanpur</b>	Jul-Sep - 2023
44.	Priyadarshini K	IV EEE	Successfully completed NPTEL <b>8 weeks online</b> course on <b>“Developing Soft Skills and Personality”</b> with <b>55%</b>	<b>IIT, Kanpur</b>	Jul-Sep - 2023
45.	Vinitha J	IV EEE	Successfully completed <b>4 weeks NPTEL online</b> course on <b>“Stress Management”</b>	<b>IIT, Kanpur</b>	Sep - 2023
46.	Priyadarshini K	IV EEE	Submitted a <b>Project Proposal</b> on <b>“How might we design a cost-efficient Myoelectric prosthetic arm using 3D print”</b>	<b>Naan Mudhalvan -Anna University Niral Thiruvizha</b>	14.01.2024
47.	Surya S	IV EEE			
48.	Vignesh C N	IV EEE			

49.	Balaji N	IV EEE	Submitted a Project Proposal on "How might we create a Skill/Job recommender application using suitable technology"	Naan Mudhalvan -Anna University Niral Thiruvizha	14.01.2024
50.	Daniel J	IV EEE			
51.	Ferosha Thowith S	IV EEE			
52.	Uma Maheshwari R	IV EEE	Submitted a Project Proposal on "How might we explore the adoption of game-based education to cultivate diverse skills"	Naan Mudhalvan -Anna University Niral Thiruvizha	14.01.2024
53.	Muralidharan V	IV EEE			
54.	Yazhini S	IV EEE			
55.	Jerin Titus J	IV EEE			
56.	Karuppaiah S	IV EEE			

**KVR, KVR & MKR COLLEGE KHAJIPALEM**  
 RE-ACCREDITED BY NAAC 'B' GRADE WITH CGPA:2.81  
 P.V. PALEM (MD), BAPATLA (DT), ANDHRA PRADESH - 522329  
 EMAIL: KVRKVRMKRC@GMAIL.COM

# CERTIFICATE

OF PARTICIPATION

THIS CERTIFIES THAT DR./MR./MRS./MS.

FROM

HAS ACTIVELY PARTICIPATED IN THE UGC SPONSORED ONE DAY ONLINE NATIONAL SEMINAR ON "ARTIFICIAL INTELLIGENCE AND THE FUTURE OF HUMANS" ON 18TH AUGUST 2023. THIS SEMINAR WAS ORGANIZED BY THE DEPARTMENT OF COMPUTER SCIENCE AT KVR, KVR & MKR COLLEGE IN COLLABORATION WITH IQAC. WE APPRECIATE YOUR INVOLVEMENT AND THANK YOU FOR CONTRIBUTING TO THE SUCCESS OF THE SEMINAR.

**B.J.R SOMAYAJULU**  
 ORGANISING SECRETARY

**DR. T. SIVA PRASAD**  
 PRINCIPAL

Office Use Only

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY  
 Application Number: 2399  
 Electronics and Communication Engineering (ECE / EEE / ECE)

Project Title: IoT Based Smart and Secured Operations For Door Locking System

Student Details:

S.No	Name of the Student	Mobile No.	Email ID
1	PRATHMAGANESH P	959427012	prp@17102@gmail.com
2	JASANTHINI S	949273701	jasanthini2002@gmail.com
3	SOVI P	975203083	sovi@17102@gmail.com
4	SELVA BHAKTHARAJ	982853813	selvabhaktharaj@17102@gmail.com

Name of the Guide: Mr.K Ramesh Kumar M.E.,  
 Designation: Assistant Professor/EEE  
 Department (Full Form): Electrical and Electronics Engineering  
 Mobile Number: 9865031871  
 Email: rameshkumar@srinet.ac.in  
 Name of the Institution: Sri Ranganathan Institute of Engineering and Technology  
 Institution Address with Pin code: 1162, Athapalayam, Thuviyalur to Kivapalayam  
 Road: 641110  
 District: Coimbatore  
 Has a similar project been carried out in your Institution / elsewhere? No.  
 Course Studying: UG Engineering  
 Project Details: Attached

Declaration: This is to certify that Mr./Ms. Prathmaganesh P, Jasanthini S, Sovi P, Selva Bhaktharaj, is a bonafide final year student of P.D. Science / U.G. Engineering / PGD Professional Courses of our Institution and it is also verified that the copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of May 2024.

Signature of the Guide: Dr.K.M.Murugesan, D.E., Ph.D.,  
 Professor and Head, Department of EEE,  
 Sri Ranganathan Institute of Engineering and Technology,  
 Athapalayam, Coimbatore - 641 110.

Signature of the Principal/Supervisor: Dr. H. GANESAN, M.E.Ph.D.,  
 PRINCIPAL,  
 Sri Ranganathan Institute of Engineering and Technology,  
 Athapalayam, Coimbatore - 641 110.

## NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to **J GAYATHIRI**  
 for successfully completing the course  
**Developing Soft Skills and Personality**  
 with a consolidated score of **47 %**

Online Assignments	15/25	Proctored Exam	32.1/75
--------------------	-------	----------------	---------

Total number of candidates certified in this course: 9659

**Prof. B. V. Ratish Kumar**  
 Chairman, Centre for Continuing Education  
 IIT Kanpur

**Prof. Satyaki Roy**  
 NPTEL Coordinator  
 IIT Kanpur

Jul-Sep 2023  
(8 week course)

Indian Institute of Technology Kanpur

Roll No: NPTEL23HS116S45344158 To verify the certificate No. of credits recommended: 2 or 3

## NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to **K PRIYADHARSHINI**  
 for successfully completing the course  
**Developing Soft Skills and Personality**  
 with a consolidated score of **55 %**

Online Assignments	22.63/25	Proctored Exam	31.87/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 9659

**Prof. B. V. Ratish Kumar**  
 Chairman, Centre for Continuing Education  
 IIT Kanpur

**Prof. Satyaki Roy**  
 NPTEL Coordinator  
 IIT Kanpur

Jul-Sep 2023  
(8 week course)

Indian Institute of Technology Kanpur

Roll No: NPTEL23HS116S535342856 To verify the certificate No. of credits recommended: 2 or 3

**KIT-KALAI GANARKARUNANIDHI INSTITUTE OF TECHNOLOGY, COIMBATORE**  
 (AN AUTONOMOUS INSTITUTION)  
 ACCREDITED WITH 'A' GRADE BY NAAC & NBA  
 DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
 IN ASSOCIATION WITH IETE STUDENT CHAPTER

# Certificate of Participation

This is to certify that Mr./Ms. **KAMALESH R (III - EEE)** of **SRI RANGANATHAR INSTITUTE OF ENGINEERING & TECHNOLOGY**, has successfully completed two days workshop on "Embedded Systems and basics of IoT" conducted on 12<sup>th</sup> & 13<sup>th</sup> October 2023 at KIT-Kalaignarkaranidhi Institute of Technology, Coimbatore.

**HOD-ECE**

**PRINCIPAL**

**MAGNETIC & CONTROLS**  
 MANUFACTURER OF ALL KIND OF TRANSFORMERS & LINKERS

ME-23-24-871-09 DATE: 03.03.2024

## CERTIFICATE TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. **MOHANA PRIYA M (713922105018)**, Electrical & Electronics Engineering Student of SRI RANGANATHAR INSTITUTE OF ENGINEERING AND TECHNOLOGY, Coimbatore, has undergone an Internship training in Design Department of our organization "Magnetic And Controls" With effect from 26/02/2024 to 03/03/2024.

During this period, she has evinced keen interest in absorbing the concept and functions of our organization and also found to be punctual and adhered to the regulations of our organization. In internship tenure, she has completed the "In-plant training" in various sections of transformer divisions such as winding, core building, core coil assembly, and testing.

We wish all the best for her future endeavours.

Sreejith J  
 Operations Director

230A, Manipalapuram Road, Opp. Govt. Hospital, Selvam Engineering Compound, Thudalur P.O., Coimbatore-641034  
 E-mail: magneticcontrols@transformershop.org Web: www.transformershop.org

EMEER ASSOCIATION EVENTS:

**SRI RANGANATHAR**  
INSTITUTE OF ENGINEERING AND TECHNOLOGY  
(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)  
(Accredited by NAAC with 'A+' Grade & ISO An ISO 9001:2015 Certified Institution)  
Athipalayam, Coimbatore - 641 110. Ph 0422-2697792. www.sriet.ac.in

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
The Management, Principal, Staff and Students of EEE  
Cordially invites you all for the  
**Inaugural of Students Association**  
**EMEER 2K23**  
Chief Guest  
**M.Madhan Kumar**  
Proprietor, Power-Integrated Solutions, Trichy  
In the presence of  
**Dr.H.GANESAN M.E.,Ph.D.,** **Dr.J.MAALMARUGAN, M.E.,Ph.D.,**  
Principal HoD /EEE

Date & Time : 30.10.2023 & 09.30 a.m Venue : SEMINAR HALL  
*All are Cordially Invited*



**SRI RANGANATHAR**  
INSTITUTE OF ENGINEERING AND TECHNOLOGY  
Athipalayam, Coimbatore - 641 110. Ph 0422-2697792. www.sriet.ac.in

Coimbatore, Tamil Nadu, India  
Athipalayam, Tamil Nadu 641035, India  
Lat 11.130004°  
Long 76.990735°  
30/10/23 09:44 AM GMT +05:30

GPS Map Camera  
Google



**SRI RANGANATHAR**  
INSTITUTE OF ENGINEERING AND TECHNOLOGY  
Athipalayam, Coimbatore - 641 110. Ph 0422-2697792. www.sriet.ac.in

Coimbatore, Tamil Nadu, India  
Athipalayam, Tamil Nadu 641035, India  
Lat 11.130004°  
Long 76.990735°  
30/10/23 09:39 AM GMT +05:30

GPS Map Camera  
Google



**SRI RANGANATHAR**  
INSTITUTE OF ENGINEERING AND TECHNOLOGY  
Athipalayam, Coimbatore - 641 110. Ph 0422-2697792. www.sriet.ac.in

Coimbatore, Tamil Nadu, India  
Athipalayam, Tamil Nadu 641035, India  
Lat 11.130004°  
Long 76.990735°  
30/10/23 09:39 AM GMT +05:30

GPS Map Camera  
Google

S. NO.	Name of the Event	Details of the Event	Duration
1.	<b>Seminar on “Understanding of Outcome Based Education in Higher Order Thinking Skills Competencies”</b>	Dated on 14.07.2023 presented by Dr J Maalmarugan, Professor and Head / EEE / SRIET	3 Hrs
2.	<b>Webinar on “Modern Transmission and Distribution”</b>	Dated on 25.08.2023 presented by Dr M Mohanraj M.E., Ph.D., ASP/EEE, Kumaraguru College of Technology, Coimbatore.	1hr 30min
3.	<b>Webinar on “Social Entrepreneurship and Skill for Gig Economy”</b>	Dated on 09.09.2023 presented by Mr R Sathishraj CEO, E-Crusaders	3 Hours
4.	<b>One day hands-on training on “IoT using Raspberry Pi”</b>	Dated on 10.10.2023 presented by Er Gajendran Parthasarathi Assistant prof/ Karpagam College of Engineering	1 Day
5.	<b>Seminar on “Recent Trends and Applications in IoT &amp; AI”</b>	Dated on 26.10.2023 presented by Ms Jithu Vijayan Software developer, Emglitz Technologies, Coimbatore	2 Hours
6.	<b>One day workshop on “Universal Robo League”</b>	Dated on 02.12.2023 presented by Mr B Prasanna Robotics Engineer, Robomatics, Coimbatore.	1 Day
7.	<b>Seminar on “Entrepreneurship: Starting and Growing a Successful Business in Electrical Engineering”</b>	Dated on 09.12.2023 presented by Mr R Karthik Motivational Speaker, Coimbatore	3 Hours
8.	<b>Organized one day workshop on “Prototype/Process Design and Development”</b>	Dated on 08.03.2024 presented by Mr U Aiyyappan, Manager, Fresun Energy, Coimbatore.	1 Day
9.	<b>Organized one day Seminar on “How to Plan for Start-up and Legal and Ethical Steps”</b>	Dated on 09.03.2024 presented by Mrs Christi Ranjith, Team Lead, Accenture.	1 Day





**Faculty Achievements:**

S. No	Name of the Event	2023-24
1.	No. of Conference Papers Presentation (National & International)	03
2.	No. of Seminar /Workshop/ FDP/STTP attended	67
3.	No. of proposals submitted for funding agencies	14
4.	No. of programmes organized (Seminar, Guest Lecture, Workshop, etc.,)	18
5.	No. of Books published	02
6.	No. of Interactions with Outside World (Delivered-Guest Lecture, FDP, Seminar, Reviewer, etc.,)	01
7.	No. of Extension Activities (NSS, YRC, UBA, Club Activities)	05
8.	No. of Any other Worth Mentioning Activities (NPTEL, Industrial Visit)	05

**Journal Publication Details:**

- **Dr.K.Bagyalakshmi** Presented and published a paper titled on **SMART ENERGY EFFICIENT AUTOMATION SYSTEM WITH SECURITY FEATURES USING IOT** held by **The Board of International Journal of Research and Analytical Reviews (IJRAR)** on **02.05.2024**.



**Research proposal Details:**

- **Dr K Bagyalakshmi** have proposed project on title **“How might we design a cost-efficient Myoelectric prosthetic arm using 3D print”** at **Naan Mudhalvan-Anna University Niral Thiruvizha** on **14.01.2024**.

- Mr D Palanivel have proposed project on title “How might we create a Skill/Job recommender application using suitable technology” at Naan Mudhalvan-Anna University Niral Thiruvizha on 14.01.2024.
- Mrs G Mariya Sundari have proposed project on title “How might we explore the adoption of game-based education to cultivate diverse skills” at Naan Mudhalvan-Anna University Niral Thiruvizha on 14.01.2024.

### Conference Publication Details:

- Dr.K.Bagyalakshmi presented the paper titled on “IoT Based Poultry Farm Smart Management System” in 2<sup>nd</sup> International conference on Knowledge Engineering and Communication Systems held at SJC Institute of Technology in association with IEEE Bangalore Section on 18.04.2024 & 19.04.2024.



- Mr K Rajeshkumar Presented a paper titled on “RASPBERY PI BASED FACE RECOGNITION AND FINGERPRINT ATTENDANCE SYSTEM” in International conference on Recent Trends in Engineering and Science (ICRTES-2024) during 02.05.2024 & 03.05.2024 at Kings College of Engineering, Pudukkottai.
- Mr K Muthuraj Presented a paper titled on “DESIGN AND IMPLEMENTATION OF AN EMERGENCY SOLAR CHARGING SYSTEM FOR ELECTRIC SCOOTERS” in international conference on Recent Trends in Engineering and Science (ICRTES-2024) during 02.05.2024 & 03.05.2024 at Kings College of Engineering, Pudukkottai.



### Interaction with Outside World:

Dr K Bagyalakshmi Served as a Reviewer for the “International conference on Research Advances in Engineering and Technology” (ITechCET-2024) at Musaliar College of Engineering and Technology, Pathanamthitta, Kerala on 24.05.2024 & 25.05.2024.

**CENTRE FOR FACULTY & PROFESSIONAL DEVELOPMENT**  
ANNA UNIVERSITY :: CHENNAI - 600 025

### Certificate

..... Mr. P. Meenaakshi Sundaran, Asst. Prof. ....  
..... Sri. Ranganathar, Institute of Engineering & Technology, Coimbatore .....

took part in the six-day Faculty Development Training Programme on  
..... EE 3022 - MEMS & NEMS ..... conducted in  
Physical Mode by the Department of Electronics & Instrumentation Engineering  
at Sree Sakthi Engineering College, Coimbatore  
from 24.06.2023 to 29.06.2023

DIRECTOR  
CFPD
 
 REGISTRAR  
ANNA UNIVERSITY

**CENTRE FOR FACULTY & PROFESSIONAL DEVELOPMENT**  
ANNA UNIVERSITY :: CHENNAI - 600 025

### Certificate

..... Mr. K. Muthuraj, Assistant Professor .....

..... Sri. Ranganathar, Institute of Engineering & Technology, Coimbatore .....

took part in the six-day Faculty Development Training Programme on  
..... EE 3022 - MEMS & NEMS ..... conducted in  
Physical Mode by the Department of Electronics & Instrumentation Engineering  
at Sree Sakthi Engineering College, Coimbatore  
from 24.06.2023 to 29.06.2023

DIRECTOR
 
 REGISTRAR  
ANNA UNIVERSITY



### CERTIFICATE

This is to certify that Shri/smt MUTHURAJ K  
Professor of / associate professor / assistant professor  
7139- SRI RANGANATHAR INSTITUTE OF ENGINEERING AND TECHNOLOGY  
bearing registration number COE/072159/1495 has participated  
and successfully completed the Faculty Development Programme on PLC using SIMATICs  
conducted by TANSAM during 24<sup>th</sup> – 28<sup>th</sup> July, 2023.

HEAD  
TRAINING & OPERATION

TECHNICAL LEAD  
ADVANCED MANUFACTURING

## NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**DR BAGYALAKSHMI K**  
for successfully completing the course  
**Stress Management**  
with a consolidated score of **57 %**

Online Assignments	22.5/25	Proctored Exam	34.5/75
--------------------	---------	----------------	---------

Total number of candidates certified in this course: 1763

Aug-Sep 2023  
(4 week course)

Prof. Haimanti Banerji  
Coordinator, NPTEL  
IIT Kharagpur

Indian Institute of Technology Kharagpur

Roll No: NPTEL23HS138S633803356 To verify the certificate No. of credits recommended: 1 or 2

## NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**MUTHURAJ K**  
for successfully completing the course  
**Stress Management**  
with a consolidated score of **48 %**

Roll No: NPTEL23HS138S533802409 Duration of NPTEL course : 4 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams. This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24<sup>th</sup> July 2016, similar to other refresher / organization course. F.No. AICTE / RIFD / FDP through MOOCs / 2017-16

Indian Institute of Technology Madras

(Aug-Sep 2023)

## Elite NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**RAJESHKUMAR K**  
for successfully completing the course  
**Soft Skills**  
with a consolidated score of **70 %**

Online Assignments	24.13/25	Proctored Exam	45.75/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 11487

Prof. Ranjana Pathania,  
Professor (SCM),  
Coordinator (NPTEL)

Indian Institute of Technology Roorkee

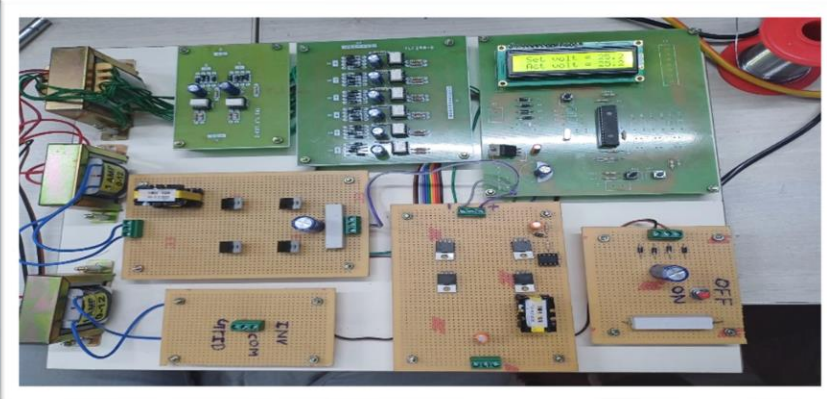
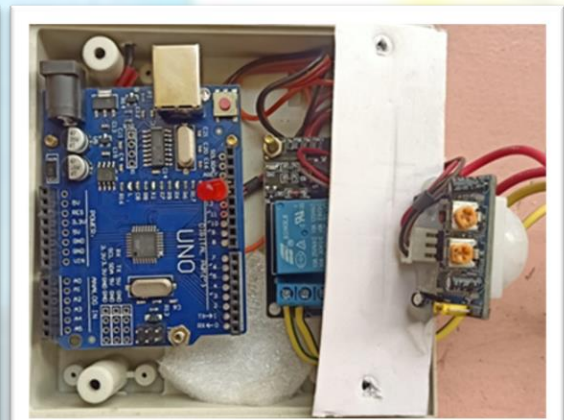
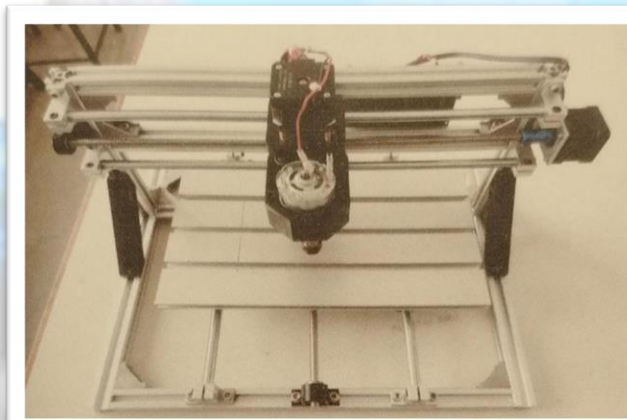
Roll No: NPTEL23HS149S933303088 To verify the certificate No. of credits recommended: 3 or 4

**Extension Activities:**

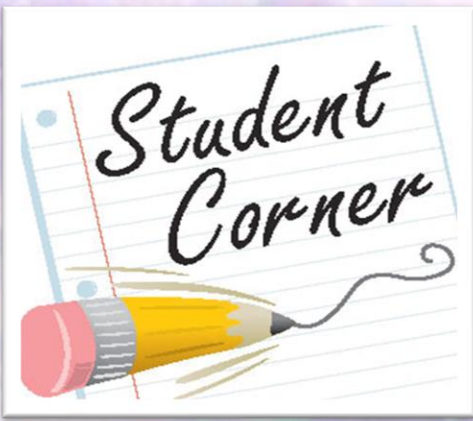


**Student's Best Project Activities:**

S.NO	NAME OF THE STUDENT	TITLE OF THE PROJECT
1.	YAZHINI S	DESIGN OF A LOW-COST PRINTED CIRCUIT BOARD DEVELOPMENT SYSTEM
2.	KARUPPIAH S	
3.	JERIN TITUS J	
4.	MURALIDHARAN V	
5.	VIGNESH C N	SMART ENERGY EFFICIENT AUTOMATION SYSTEM WITH SECURITY FEATURES USING IOT
6.	PRIYADHARSINI K	
7.	SURYA S	
8.	AMERUNISHA M	FUZZY TYPE 2 CONTROLLER BASED UPQC FOR POWER QUALITY ENHANCEMENT IN GRID CONNECTED MICROGRID SYSTEM
9.	ABISHIK S	
10.	MOHINTHBABU J	
11.	RAJA M	



**Student's corner:**





BEST THINGS  
(TOGETHER)



**Editorial Board (Student):**

✚ Chief Editor: Mr P Selvapandi IV-EEE



✚ Editor: Mr C Lakshmanan III-EEE



Designer: Ms S Boomika II-EEE



**Staff Editorial Board:**

✚ Dr J Maalmarugan Prof&HoD/EEE



✚ Mr K Muthuraj AP/EEE

