



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 &
ELECTRONICS
ENGINEERING**



EMMEER

ASSOCIATION'S

Magazine



Editorial Board (Student):

Chief Editor: Mr R Karthick IV-EEE Editor: Mr M Mugundhan III-EEE Designer: Ms V Sowmiya II-EEE

Staff Editorial Board:

Board member 1: Dr J Maalmarugan HoD/EEE

Board member 2: Mr K Muthuraj AP/EEE

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-centred 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.



Sri V. Narayanasamy
 Chairman,
 Sri Ranganathar Group of Companies

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 Mission is to Facilitate Students with Harmonious Teaching and Experiential Learning by Integrating Industrial and Societal Needs with Curriculum, Providing Requisite Infrastructure Facilities and Imbibing Ethical Values.

PRINCIPAL'S DESK :

“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.”



Warm regards,

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.

VISION OF THE DEPARTMENT:

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

MISSION OF THE DEPARTMENT:

- 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



PROGRAM OUTCOMES (PO)

PO1: Engineering knowledge

Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

PO2: Problem analysis

Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3: Design/ development of solutions

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.

PO4: Conduct investigations of complex problems

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.

PO5: Modern tool usage

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.

PO6: The engineer and society

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.

PO7: Environment and sustainability

Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8: Ethics

Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual and team work

Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: Communication

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.

PO11: Project management and finance

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.

PO12: Life-long learning

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)

PSO1

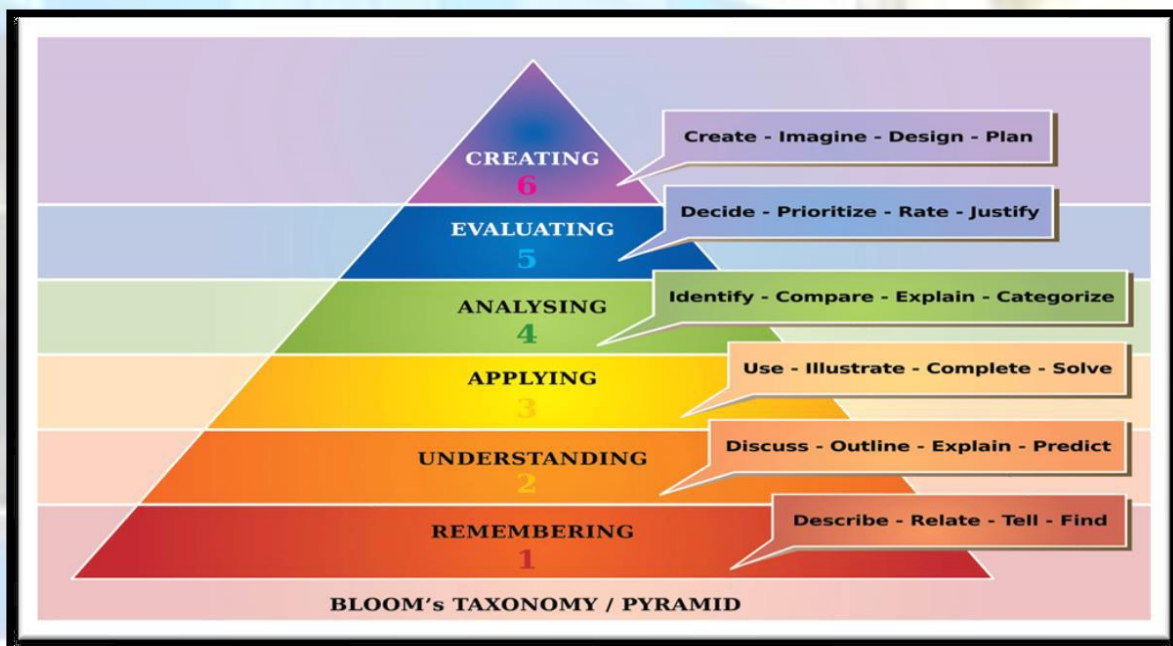
Capable to provide socially acceptable technical solutions to complex electrical engineering problems with the application of modern and appropriate techniques for sustainable development.

PSO2

Comprehend, analyses and design products in core domains namely power, control and energy to meet the ever-changing demands of industry and society.

Bloom's taxonomy

Bloom's taxonomy was developed to provide a common language for teachers to discuss and exchange learning and assessment methods. Specific learning outcomes can be derived from the taxonomy, though it is most commonly used to assess learning on a variety of cognitive levels.



LABORATORY SPECIFIC:

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.

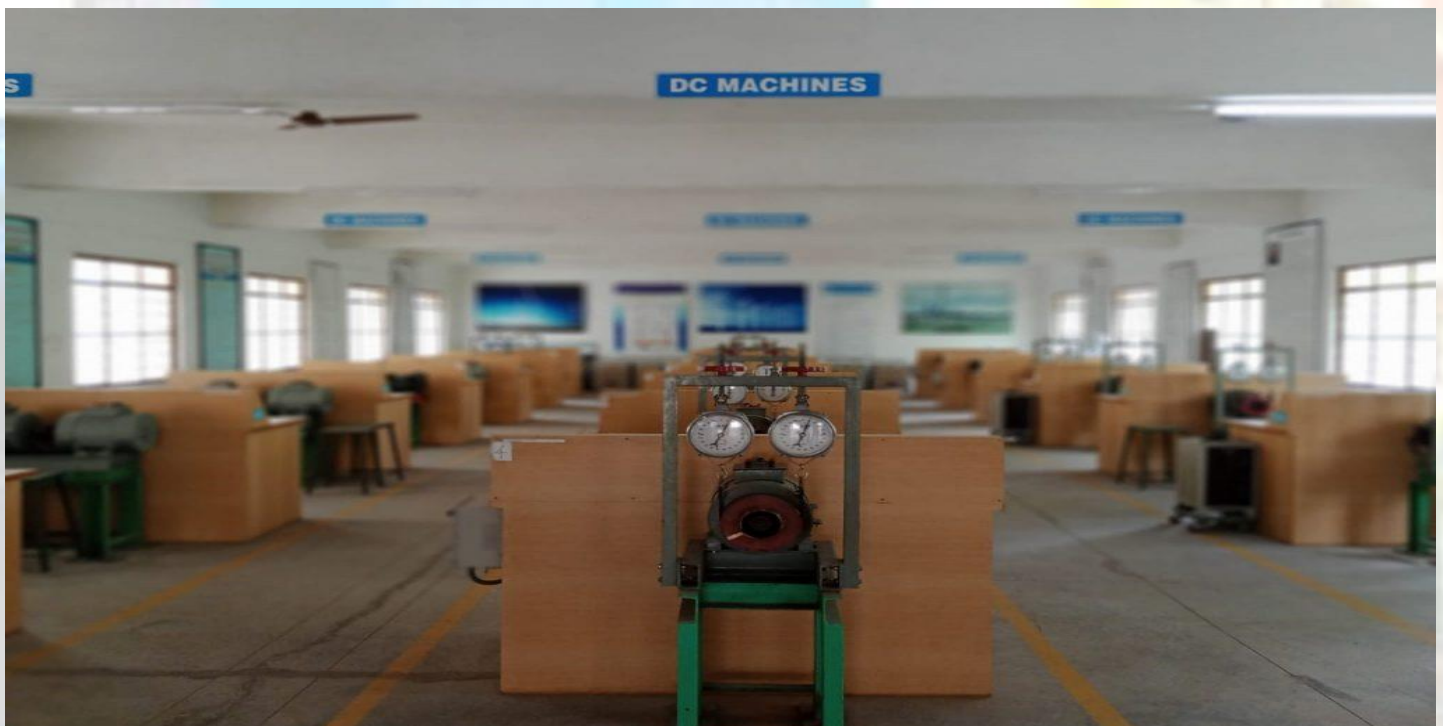
The lab is equipped with all the power electronic converters, DSP and FPGA based DC and AC Drives, Digital Integrated kits, Power supplies.



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

Well established with instrumentation kits like LVDT, strain guage, 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.



Students Activity:

| Students Participation Details | | | | | |
|--------------------------------|------------|--------------------------------|----------|-------------------------|--------------|
| Academic Year | Conference | Seminar/ Paper presentation | Workshop | Internship/ Training | Other Events |
| CAY (2022-2023) | 20 | 10 | 12 | 6 | 15 |

- **AJAY K, DHINESHWARAN S, DIVYA R** from IV EEE submitted a **project proposal** on “Home Automation and Security System using Telegram”
- **ATHIBAN S, HARIHARAN P, MANIVASAGAN P** from IV EEE submitted a **project proposal** on **IoT Based Smart Grid Using Renewable Energy System**
- **BRINDHA M, JEEVARATHINASAMY M, DURAI M** from IV EEE submitted a **project proposal** on **IoT Based Drip Monitoring System in Hospitals**
- **AKASH S, KARTHICK R, SANJAY M** from IV EEE submitted a **project proposal** on **IoT Based Smart Agriculture Monitoring System to TNSCST**
- **KRISHNAMOORTHY A, RAHUL R, VAISHNAVI K R** from IV EEE submitted a **project proposal** on **Smart Trolley Billing System**
- **ASWIN PRABHU K, KAMALE R, SEBASTIAN V** from IV EEE submitted a **project proposal** on **High Secured Universal Smart Card for Multiple Access**
- **MANIKANDAN S, THAYALAN M, KATHIRVELRAJA B** from IV EEE submitted a **project proposal** on **IoT Based Automatic Engine Locking for Automobiles with Alcohol Detection System**
- **SWETHA C, VIGNESHWARAN M, PRAMOD KUMAR PANDA** from IV EEE submitted a **project proposal** on **Implementation of Smart Glove for Dumb and Deaf Peoples**
- **Siranjeevi S** from III EEE participated in the **Online Quiz series-38 & 39** on “Energy Management and Auditing”
- **Aswinprabhu K, Vaishnavi K R** from IV EEE participated in **ORU PAKKA KATHAI**, a short story writing competition in Tamil organized by **Rotary eClub of Coimbatore Changemakers and Arivukkeni**
- **Siranjeevi S** from III EEE participated and scored 50% in the **Online Quiz series-42** on “Energy Management and Auditing”
- **Siranjeevi S** from III EEE participated in online **Basic Electrical and Electronics Engineering Quiz Series - 04**

- **Akash S, Sanjay M from IV EEE and Aresh M, Mugunthan M, Balaji N from III EEE Donated blood voluntarily organized by “Swami Vivekananda Blood Centre”**
- **Prajithakumari P from III EEE participated in the Online Quiz series-49, 50 on “Energy Management and Auditing”**
- **Prajithakumari P from III EEE participated in online “Basic Electrical and Electronics Engineering” Quiz Series – 16, 17**
- **Prajithakumari P from III EEE participated in online “Basic Electrical and Electronics Engineering” Quiz Series – 16, 17**
- **Prajithakumari P, Siranjeevi S from III EEE participated in the Online Quiz series-51 on “Energy Management and Auditing”**
- **Rajarajan R from II EEE and Siranjeevi S from III EEE participated in the Orientation Program**
- **Amerunisha M from III EEE successfully completed NPTEL 8 weeks course on “Developing Soft Skills and Personality”**
- **Radhakrishnan J, Selvapandi P, Mohinthbabu J, Raja M, Jerin Titus, Balaji N, Siddharth A, Thashin K, Amerunisha M, Prajithakumari P, Vignesh C N, Sriram S and Priyadharshini K from III EEE successfully completed industrial training at “Enbest Pumps (India) Private Limited”**
- **Rajaperumal from III EEE successfully completed industrial training at “Compass India Support Services Private Limited”**
- **Gopi P from III EEE successfully completed industrial training at “Sabari Industrial Corporation”**
- **Priyadharshini K from III EEE Successfully completed NPTEL Online Certificate 8-week course on “Design, Technology and Innovation”**
- **Sriram S from III EEE Successfully completed NPTEL Online Certificate 8-week course on “Design, Technology and Innovation”**
- **Lavanya K from IV EEE Successfully completed NPTEL Online Certificate 8-week course on “Design, Technology and Innovation”**
- **Ishwarya S from III EEE successfully completed Internship training on “Internet of Things” at Adventure Technology Solutions Pvt Ltd,**
- **Shanmugapriya S from IV EEE Successfully completed NPTEL Online Certificate 8-week course on “Design, Technology and Innovation”**
- **Balaji N from III EEE Successfully completed NPTEL Online Certificate 8-week course on “Design, Technology and Innovation”**

Student's Achievements:

Rotary eClub of Coimbatore Changemakers
ARIVUKKENI

CERTIFICATE of PARTICIPATION

It is hereby certified that
ASWINPRABHU K
 Sri Ranganathar Institute of Engineering and Technology
 has participated in ORU PAKKA KATHAI, a short story writing competition in Tamil organized by Rotary eClub of Coimbatore Changemakers and Arivukkeni in the background of Coimbatore Book Festival 2022.
 The interest of the student in writing a short story in Tamil is appreciated.

Date: 22/07/2022

Mr. C.R.Elangovan For ARIVUKKENI
 Rtn.A.Vaidyanathan For Rotary eClub of Coimbatore Changemakers
 Mr. B.Vijayanand Chairman CBF-2022

Elite NPTEL Online Certification
 (Funded by the MoE, Govt. of India)

This certificate is awarded to
M AMERUNISHA
 for successfully completing the course
Developing Soft Skills and Personality
 with a consolidated score of **60 %**

| | | | |
|--------------------|----------|----------------|----------|
| Online Assignments | 22.75/25 | Proctored Exam | 37.04/75 |
|--------------------|----------|----------------|----------|

Total number of candidates certified in this course: **9572**

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

Jul-Sep 2022
 (8 week course)

Prof. Satyaki Roy
 NPTEL Coordinator
 IIT Kanpur

Indian Institute of Technology Kanpur

Roll No: NPTEL22H57523053723 To validate the certificate No. of credits recommended: 2 or 3

NPTEL Online Certification
 (Funded by the MoE, Govt. of India)

This certificate is awarded to
MANIRATHNAM S
 for successfully completing the course
Soft Skills
 with a consolidated score of **57 %**

| | | | |
|--------------------|---------|----------------|----------|
| Online Assignments | 23.5/25 | Proctored Exam | 33.89/75 |
|--------------------|---------|----------------|----------|

Total number of candidates certified in this course: **8873**

Prof. Sanjeev Manhas
 Coordinator, Continuing Education Centre
 IIT Roorkee

Jul-Oct 2022
 (12 week course)

Prof. Priya Maheshwari
 NPTEL Coordinator
 IIT Roorkee

Indian Institute of Technology Roorkee

Roll No: NPTEL22H576553490167 To validate the certificate No. of credits recommended: 3 or 4

வாகை தமிழ்ச்சங்கம்
 [தமிழக & இந்திய அரசு மற்றும் உலகத் தமிழ்ச் சங்கத்தில் பதிவு பெற்ற அமைப்பு]
 அத்தனூர் வக்கூ, அத்தனூர், நாமக்கல், தமிழ்நாடு - 636 301

வாகை பணுவல் மன்றம்
பங்கோற்பட்டி சான்றிதழ்

தமிழ்நாடு, குமரதண்டமார், மின் மற்றும் மின்னணு பொறியியல், ஸ்ரீ ரங்கநாதர் பொறியியல் மற்றும் தொழில்நுட்பக் கல்லூரி அவர்கள், வாகை தமிழ்ச்சங்கத்தின், வாகை பணுவல் மன்றம் மூலம் நிகழ்த்தப்பட்ட பன்னாட்டு அளவிலான இணையவழி புத்தக மதிப்பாய்வு நிகழ்வில் கொன்டண்டமையப் பாராட்டி இச்சான்றிதழ் வழங்கப்படுகிறது.

ஒரு நூலை நாடகம் பாக்கிறான் - த. ஜெயசாரதன்
 ஏழாம் இலங்கை மகாபாரதக்கதைகள் - டிரைவர் த. கோவேந்தன்

vaagaitamilsangam@gmail.com 30 திசம்பர் 2022 தலைவர், வாகை தமிழ்ச்சங்கம்

Besten World class Pumps
 BUREAU VERITAS Certification
 ISO 9001 ISO 14001
ENBEST PUMPS (INDIA) PRIVATE LIMITED
 GSTIN : 33AAACE4591M1ZG CIN : U29120TZ1988PTC 002161
 Mfrs. of : Centrifugal Jet Pumps & Monobloc, Multistage and Shallow well jet and its accessories
 AN ISO 9001/ ISO 14001 / ISO 45001 CERTIFIED COMPANY
 S.F. No.362/3, Somayampalayam, Thadagam Road, Coimbatore - 641 108, Tamilnadu, India

13.01.2023

CERTIFICATE

This is to certify that **Mr.J.RADHAKRISHNAN (Reg. No: 713920105313)** student of Third Electrical and Electronic Engineering Sri Ranganathar Institute of Engineering and Technology has completed her Industrial training in our organization.

Period of Training: 09th Jan 2023 to 13th Jan 2023

His conduct and behavior during the period was good, we wish him all success in future endeavor

For Enbest Pumps India Pvt.Ltd
 HR Department

Phone : 91 - 422 - 2400779, 2401449, 3951320 Tele Fax : 91 - 422 - 2400779 Email : enbestpumps@yahoo.co.in

Besten World class Pumps
 BUREAU VERITAS Certification
 ISO 9001 ISO 14001
ENBEST PUMPS (INDIA) PRIVATE LIMITED
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 S.F. No.362/3, Somayampalayam, Thadagam Road, Coimbatore - 641 108, Tamilnadu, India

13.01.2023

CERTIFICATE

This is to certify that **Mr.K.THASHIN (Reg. No: 713920105318)** student of Third Electrical and Electronic Engineering Sri Ranganathar Institute of Engineering and Technology has completed her Industrial training in our organization.

Period of Training: 09th Jan 2023 to 13th Jan 2023

His conduct and behavior during the period was good, we wish him all success in future endeavor

For Enbest Pumps India Pvt.Ltd
 HR Department

Phone : 91 - 422 - 2400779, 2401449, 3951320 Tele Fax : 91 - 422 - 2400779 Email : enbestpumps@yahoo.co.in



NPTEL Online Certification
 (Funded by the MoE, Govt. of India)

This certificate is awarded to
LAVANYA K
 for successfully completing the course

Design, Technology and Innovation

with a consolidated score of **43** %

| | | | |
|--------------------|-------|----------------|----------|
| Online Assignments | 12/25 | Proctored Exam | 30.64/75 |
|--------------------|-------|----------------|----------|

Total number of candidates certified in this course: **1279**

Jan-Mar 2023
 (8 week course)

Prof. Sridhar Iyer
 Head COEP & NPTEL Coordinator
 IIT Bombay

Indian Institute of Technology Bombay

Roll No: NPTEL23DE06534370166
 To validate the certificate
 No. of credits recommended: 2 or 3



Elite
NPTEL Online Certification
 (Funded by the MoE, Govt. of India)

This certificate is awarded to
S SHANMUGAPRIYA
 for successfully completing the course

Design, Technology and Innovation

with a consolidated score of **63** %

| | | | |
|--------------------|----------|----------------|----------|
| Online Assignments | 21.38/25 | Proctored Exam | 42.03/75 |
|--------------------|----------|----------------|----------|

Total number of candidates certified in this course: **1279**

Jan-Mar 2023
 (8 week course)

Prof. Sridhar Iyer
 Head COEP & NPTEL Coordinator
 IIT Bombay

Indian Institute of Technology Bombay

Roll No: NPTEL23DE06534373915
 To validate the certificate
 No. of credits recommended: 2 or 3



வாகை தமிழ்ச்சங்கம்
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 அத்தனூர் வடக்கு, அத்தனூர், நாமக்கல், தமிழ்நாடு - 636 301

பங்குகேள்புச் சான்றிதழ்

தமிழ்ப்பிகு, முடிதன்குமாள், மின் மற்றும் மின்னணு பொறியியல், ஸ்ரீ ரங்கநாதர் பொறியியல் மற்றும் தொழில்நுட்பக் கல்லூரி அவர்கள், வாகை தமிழ்ச்சங்கம் நிகழ்த்திய பன்னாட்டு அளவிலான இணையவழி தமிழாய்வுத்தேர்வு 17 - பகுதி உறுப்பிலக்கணம் தேர்வில் கலந்துகொண்டமைப்பைப் பாராட்டி இச்சான்றிதழ் வழங்கப்படுகிறது.

01 சனவரி 2023
 vaagaitamilsangam@gmail.com

தலைவர், வாகை தமிழ்ச்சங்கம்



SREE SAKTHI ENGINEERING COLLEGE
 OOTY MAIN ROAD, KARAMADAI, COIMBATORE

Inteh O Fest 2K23
ONE DAY NATIONAL LEVEL TECHNICAL SYMPOSIUM

CERTIFICATE OF APPRECIATION
 THIS IS TO CERTIFY THAT

Mr./Ms. Guna M
 of Electrical & Electronic Engineering Department from Sri Ranganathar Institute of Engg & Tech has Presented a Paper/Project and secured II prize in the "One Day National Level Technical Symposium : Inteh O Fest' 23" held on 25.02.2023 at Sree Sakthi Engineering College, Coimbatore, entitled "Paper Battery"

Coordinator: S. Jeyaraj, Dean-Academic: P. Malarky, CEO: J. Jeyaraj, Principal: R. Sankar, Correspondent: S. Jeyaraj



SREE SAKTHI ENGINEERING COLLEGE
 OOTY MAIN ROAD, KARAMADAI, COIMBATORE

Inteh O Fest 2K23
ONE DAY NATIONAL LEVEL TECHNICAL SYMPOSIUM

CERTIFICATE OF APPRECIATION
 THIS IS TO CERTIFY THAT

Mr./Ms. Pranesh R
 of Electrical & Electronic Engineering Department from Sri Ranganathar Institute of Engg & Tech has Presented a Paper/Project and secured II prize in the "One Day National Level Technical Symposium : Inteh O Fest' 23" held on 25.02.2023 at Sree Sakthi Engineering College, Coimbatore, entitled "Paper Battery"

Coordinator: S. Jeyaraj, Dean-Academic: P. Malarky, CEO: J. Jeyaraj, Principal: R. Sankar, Correspondent: S. Jeyaraj

Program Organized:

- **Dr K Bagyalakshmi** III EEE students went to industrial visit at **“Krish Tech”**
- **Dr K Bagyalakshmi** organized **One day seminar on “Recent Trends in IoT and its Applications”**
- **Mrs D Nivea** organized **One day seminar on “Training on Employability Skills”**
- **Mrs M Malathi** organized **One day seminar on “Advancement in Renewable Energy Systems”**
- **Mr D Palanivel** organized **One day seminar on “Role of Technical Skills and Effective Communication in Entrepreneurial Development”**
- **Dr K Bagyalakshmi** Arranged an **On-Campus drive for IV Mechanical students through the company “Orient Body Shop Solution”**
- **Mr K Muthuraj** organized **One day National Level Workshop on “Design Thinking and Innovation”**
- **Mr. Alex George** organized **One day workshop on “Advancement in Electrical Machines”**
- **Mrs D Nivea** organized online webinar on **“Current Trends on E-Vehicle and Retrofit Technology”**
- **Dr J Maalmarugan** and **Mrs D Nivea** co-ordinally organized **NAAC sponsored two days national level seminar on “Role of NAAC with NEP as a Quality Tool for Higher Education”**

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

INSTITUTION'S INNOVATION COUNCIL & EMEER ASSOCIATION PRESENTS

One Day Workshop on Advancement in Electrical Machines

Dr. V. NARAYANASAMY
 Chairman, EMEER

Dr. K. P. ARULSHIRI
 Vice-Chairman, EMEER

Dr. H. GANESAN
 Secretary, EMEER

Dr. J. MAALMARUGAN
 Treasurer, EMEER

Mr. Alex George
 Guest Speaker

Date : 13.08.2022 Venue: Machines Lab, D Block, SRIET

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

INSTITUTION'S INNOVATION COUNCIL & EMEER ASSOCIATION PRESENTS

Online Webinar on Current trends on E-Vehicle and Retrofit Technology

Speaker Mr.D.Durairaj
 Trainer, SK Precision Fabricators, Pudukkottai

Dr. V. NARAYANASAMY
 Chairman, EMEER

Dr. K. P. ARULSHIRI
 Vice-Chairman, EMEER

Dr. H. GANESAN
 Secretary, EMEER

Dr. J. MAALMARUGAN
 Treasurer, EMEER

Mrs. D. Nivea
 Guest Speaker

Date : 28.09.2022 Time: 11.00 am to 12.30 pm

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 9001:2015 Certified Institution

NAAC SPONSORED TWO DAYS NATIONAL LEVEL ONLINE SEMINAR on Role of NAAC with NEP as a Quality Tool for Higher Education

16th & 17th December, 2022

SPEAKERS

Dr. C. Muthamizhchelvan
 Vice-Chancellor - SRM Institute of Science & Technology

Dr. S. Penmudiraj
 Advisor, AICTE - Bangalore

Dr. Anant Ram
 Advisor, Uttaranchal University - Dehradun

Dr. T. Senthil Kumar
 ASST. Acad. Affairs, Vignans Institute of Technology - Coimbatore

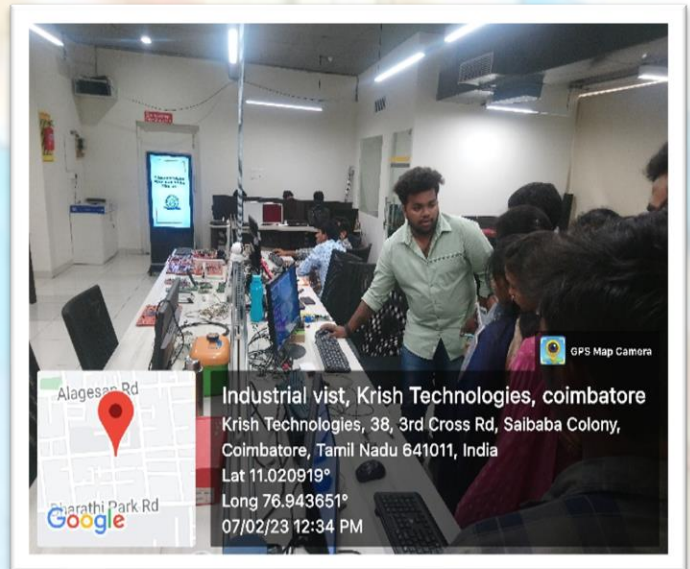
Dr. Kumaravelan
 EAC, Coimbatore
 Vignans Engineering College, Erode.

D.D. Sureshwaran
 Founder & CEO
 SKS SKS Foundation, Coimbatore

Dr. V. NARAYANASAMY
 Chairman - SRI Groups

DCC, Theokkappal Arasu
 Senior Advisor & Vice President
 Assaan Education Foundation

Thudiyalur to Kovvilpalayam Road, Athipalayam, Coimbatore - 641 110 Ph:0422 2697792, www.sriet.ac.in





Chief Patron:
Dr. V. NARAYANASAMY
Dean, EEE Group

Patron:
Dr. H. GANESAN
Dean, SRIET

Vice Patron:
Dr. J. MAAMARAGAN
Head, EEE

Co-Organizer:
Mr. R. Mohanji
ASST. PROF



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INSTITUTE OF ENGINEERING AND TECHNOLOGY

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

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

INSTITUTION'S INNOVATION COUNCIL

EMEER ASSOCIATION PRESENTS

One Day National Level Workshop on
Design Thinking and Innovation



Speaker
M. Bhuvaneshwari
 Assistant Professor, Design Thinking Team
 SMS Institutions, Coimbatore

Date : 13.04.2023 Time: 11.30 am



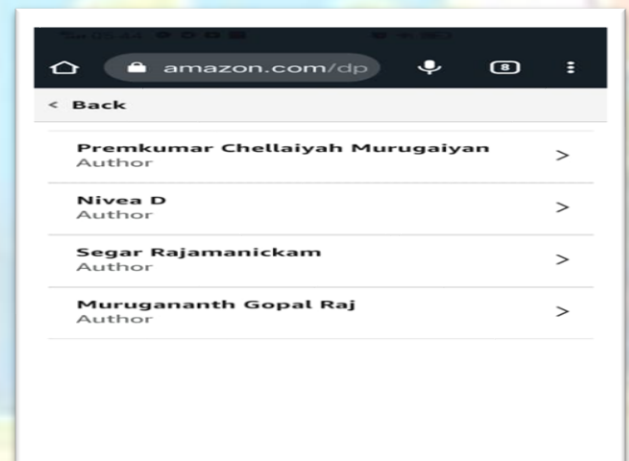
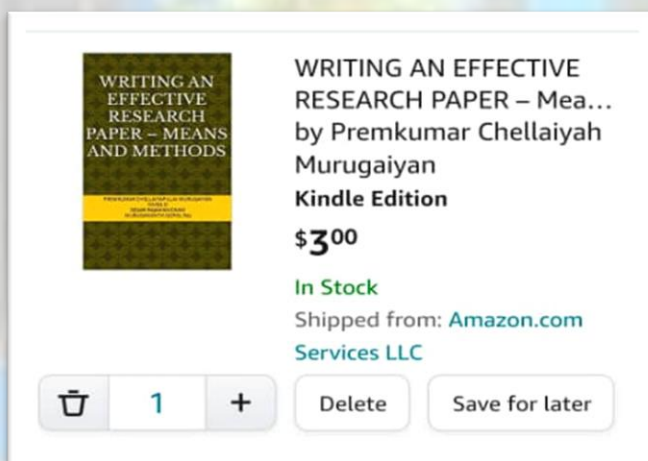


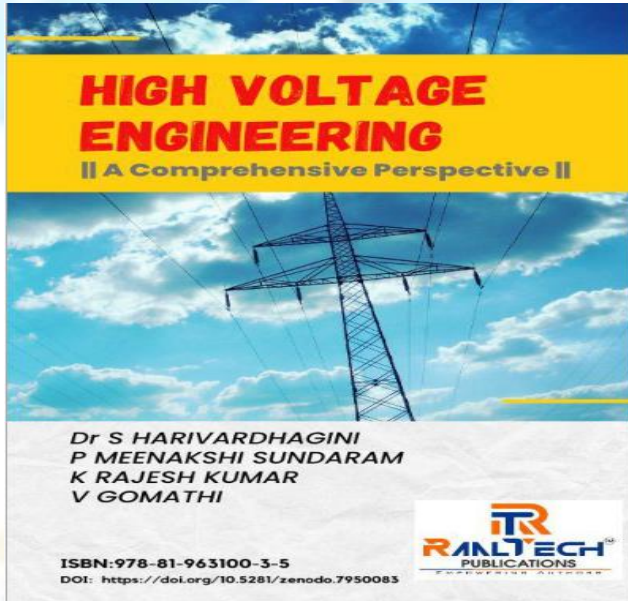
Journal Publication Details:

- **Dr.J.Maalmarugan Prof/Head/EEE** has published an **international journal** titled on “Synthesis, studies of 2-benzyl-amino-4-p-tolyl-6,7-di-hydro 5H-cyclo-penta-[b]pyridine-3 carbo-nitrile (BAPTDHCPCN) crystals for optical, photonic and mechano-electronic uses”
 Journal Name: **Journal of Materials Science: Materials in Electronics**
 Indexed by **Springer**
- **Dr.J.Maalmarugan Prof/Head/EEE** has published an **international journal** titled on “Growth,mechanical hardness, stiffness, tribological, morphological, electrical and electronic studies of inorganic tri caesium di-molybdate (VI) bromide -TCDMB crystals of versatile scales for mechano-electronic engineering and photonic uses”
 Springer: **Journal of Materials Science: Materials in Electronics**
 DOI : <https://doi.org/10.1007/s10854-022-09505-x>
- **Dr K Bagyalakshmi** has published an **international journal** titled on “Deep Learning Techniques for Exoticism Mining from Visual Content Based Image Retrieval” during Feb – 2023.
 Journal Name: **Journal of Pharmaceutical Negative Results (Volume 14)**
 DOI: [10.47750/pnr.2023.14.S01.130](https://doi.org/10.47750/pnr.2023.14.S01.130)

Book Publication Details:

- **Mrs D Nivea** published a book in **Amazon Kindle edition** under the title “Writing an effective research paper – means and Methods”.
- **Mr P Meenakshi Sundaram, Mr K Rajeshkumar** published a book in **RAALTECH PUBLICATIONS** under the title “HIGH VOLTAGE ENGINEERING”.
- **Mrs D Nivea** published a book in **Amazon Kindle edition** under the title “Writing an effective research paper – means and Methods”.





High Voltage Engineering

Authors' Biography

Dr. S. Harivardhagini completed B.E. and M.E. in Electronics and Control Engineering. She completed Ph.D. in Control systems from IITR. She is currently working as Professor and Head of EEE Department, CNR College of Engineering. An active researcher with 20+ years of experience at several prestigious research institutions. She has over 30 publications in various journals and conferences. She has received BEST PAPER AWARD at IEEE International Conference on Control systems, Computing and Engineering (ICCCSE). She has been awarded with UNIVERSITY BRONZE MEDAL of Post Graduate. She has received AICTE grants up to 16 Lakhs. She is a senior IEEE Member. She is currently the Vice chair of WIE, IEEE Hyderabad section and Life member of ISTE. She has received prestigious VESTA ACHARYA from BHARATHI EXCELLENCE AWARD.

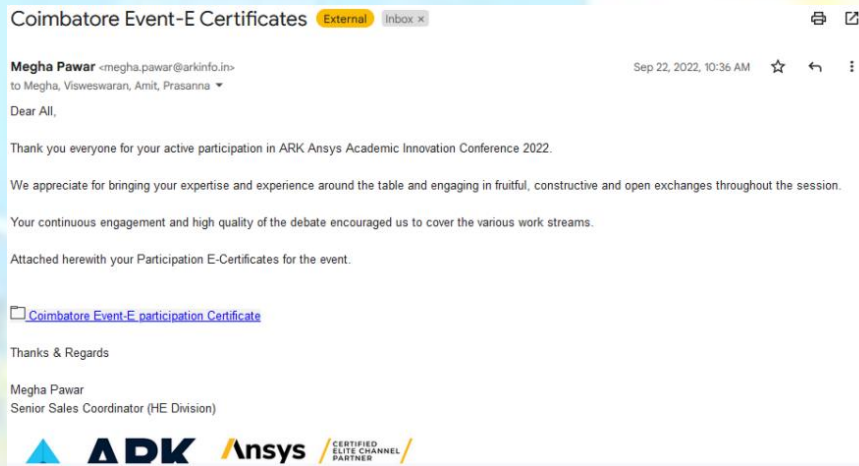
Mr. P. Meenakshi Sundaram received his B.E. Degree in Electrical and Electronics Engineering from Hindustan College of Engineering and Technology, Coimbatore in 2007 and Post Graduate Degree in Power Systems Engineering from Anna University Regional Campus, Coimbatore in 2013. He is pursuing his Doctorate degree in Anna University, Chennai Engineering College. Presently he is serving in Sri Ranganathan Institute of Engineering and Technology as Assistant Professor.

Mr. K. Rajesh Kumar received his B.E. Degree in Electrical and Electronics Engineering from Park College Engineering and Technology, Coimbatore in 2006 and Post Graduate Degree in Power Electronics and Drives from PSG College of Technology, Coimbatore in 2012. He is pursuing his Doctorate degree in Anna University, Chennai. He has ten years of teaching experience in engineering college. Presently he is serving in Sri Ranganathan Institute of Engineering and Technology as Assistant Professor.

Mrs. V. Gomathi received her B.E. Degree in Electrical and Electronics Engineering from Erode Sengunthar Engineering, Erode in 2001 and Post Graduate Degree in Power Electronics and Drives from Karapagam Academy of Higher Education, Coimbatore in 2013. She is pursuing her Doctorate degree in Anna University, Chennai. She has thirteen years of teaching experience in Engineering College. Presently she is serving in Dhanalakshmi Srinivasan College of Engineering, Coimbatore as Assistant Professor.

Conference Presented (National/International):

- Dr J Maalmarugan Presented a paper titled on “A New Cascaded H-Bridge 65 Level Multi-level inverter with a reduced switch count” organized by IEEE sponsored 3rd international conference on “power, energy, control and transmission system”
- Mr. Alex George Presented a paper titled on “IoT Based Voice Controllable Wheelchair”
- Dr J Maalmarugan and Mr D Palanivel presented conference titled on “ARK Ansys Academic Innovation Conference 2022”



FDP/STTP/Seminar/workshops:

- Dr K Bagyalakshmi Participated in 3days International faculty development programme on “Disruptive Technologies for Next Gen Computing”
- Mr D Palanivel, Mrs D Participated in 6 days FDP on “Awareness of Electronic Tools for System Design”
- Mrs M Malathi Participated in International level virtual faculty development programme on “Research Advancements in Intelligent Computing Technologies”

- **Dr K Bagyalakshmi, Mr. Alex George** Participated in 3days faculty development programme on “Emerging Trends in Electric Vehicle Technology”
- **Mr D Palanivel** participated in six days FDP on “Recent Trends on Healthcare Applications using Machine Learning”
- **Mr P Meenakshisundaram** participated in two days National level seminar on “Introduction to Cyber Security Issues and Unit Commitment Problems in Power Systems”



Elite
NPTel Online Certification
 (Funded by the MoE, Govt. of India)

This certificate is awarded to
D NIVEA
 for successfully completing the course

Soft Skills
 with a consolidated score of **76** %

| | | | |
|--------------------|----------|----------------|----------|
| Online Assignments | 23.69/25 | Proctored Exam | 52.07/75 |
|--------------------|----------|----------------|----------|

Total number of candidates certified in this course: **8873**

Prof. Sanjeev Manhas
 Coordinator, Continuing Education Centre
 IIT Roorkee

Jul-Oct 2022
 (12 week course)

Prof. Priya Maheshwari
 NPTEL Coordinator
 IIT Roorkee

Indian Institute of Technology Roorkee

swayam

Roll No: NPTEL22H576564485148 To validate the certificate No. of credits recommended: 3 or 4

Elite
NPTel Online Certification
 (Funded by the MoE, Govt. of India)

This certificate is awarded to
D NIVEA
 for successfully completing the course

Accreditation and Outcome Based Learning
 with a consolidated score of **83** %

| | | | |
|--------------------|----------|----------------|---------|
| Online Assignments | 21.42/25 | Proctored Exam | 61.5/75 |
|--------------------|----------|----------------|---------|

Total number of candidates certified in this course: **857**

Aug-Oct 2022
 (8 week course)

Prof. Debjani Chakraborty
 Coordinator, NPTEL
 IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL22GE27554484740 To validate the certificate No. of credits recommended: 2 or 3



Interaction with outside world:

- Mr.P.Meenakshi Sundaram delivered Guest Lecturer on “Important of Higher Studies”
- Mr. K.Rajesh Kumar in Career Guidance Fair 2022 at Chandra Matriculation Higher Secondary School
- Mrs D Nivea, Mr K Muthuraj conducted UBA activity on account of Children’s Day Celebration – Motivational Program at Government Middle School, Kunnathur
- Mrs K Bagyalakshmi organized Medical Camp for students and faculty members in associated with “Lotus Eye Hospital”
- Mr. Alex George represents as a Chief Guest in National energy Conservation Day on “Save Energy”
- Dr K Bagyalakshmi represents as a Chief Guest in “EEE department Association Inauguration”
- Mr P Meenakshi Sundaram represents as a Examiner “Staff Selection Panel Member 2022-23”
- Mr Muthuraj K delivered Guest Lecturer “State level FDP on Recent trends in Electrical Technology”
- Mr. Alex George delivered Jury “State level Technical Symposium and Science exhibition”

Institution's Innovation Council ORGANISE
NATIONAL ENERGY CONSERVATION DAY
SAVE ENERGY
CHIEF GUEST

Mr. Alex George,
 Associate professor
 Department of EEE
 SRIET, COIMBATORE
 Date: 14/12/2022
 Time: 03.00pm
 mode: online/Google meet

convenor:
L. Suresh IIC I/C

President/principal
Mr. M. Sathyamoorthy.

twitter : 764sripctw
 Facebook : sripec
 Instagram : sripec_official

Poster Maker

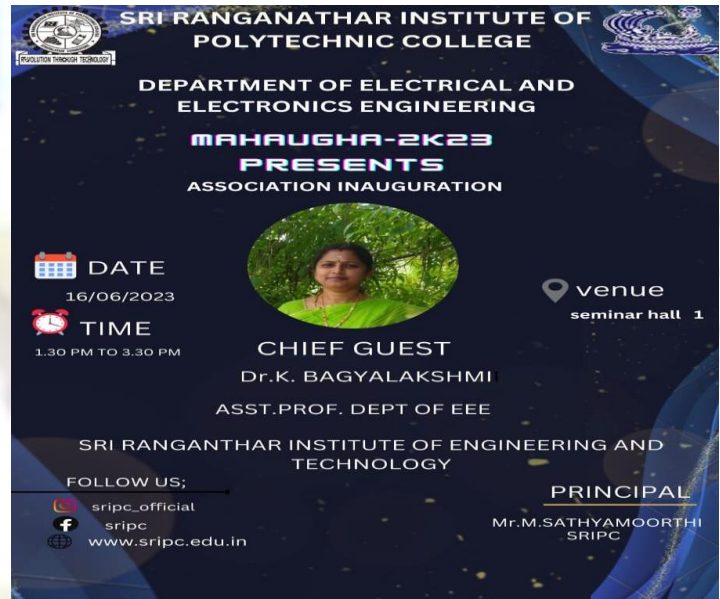
Coimbatore, Tamil Nadu, India
 Chandra Matriculation School Building, Tex Park Road,
 Nehru Nagar West, Coimbatore, Tamil Nadu 641004, India
 Lat 11.044148°
 Long 77.028702°
 20/08/22 02:45 PM

Coimbatore, Tamil Nadu, India
 Medical camp, sriet, Sarkarsamakulam-Thudiyalur Rd,
 Tamil Nadu 641022, India
 Lat 11.129042°
 Long 76.986064°
 23/11/22 03:28 PM

Coimbatore, Tamil Nadu, India
 Medical camp, sriet, Sarkarsamakulam-Thudiyalur Rd,
 Tamil Nadu 641022, India
 Lat 11.129042°
 Long 76.986064°
 23/11/22 03:27 PM

Kunnathur, Tamil Nadu, India
 42XW+779, Kunnathur, Tamil Nadu
 641107, India
 Lat 11.148773°
 Long 77.046552°
 14/11/22 12:33 PM

Kunnathur, Tamil Nadu, India
 42XW+779, Kunnathur, Tamil Nadu 641107, India
 Lat 11.148773°
 Long 77.046552°
 14/11/22 11:58 AM



Extension Activities:

3rd and Final year EEE students Visited “Panapatti Sub-Station, Suzlon Wind plant, CV green energy” Coimbatore, on 06.08.2022.

Industrial Visit for 2nd year EEE students to “Radio Astronomy Centre”, Udthagamandalam, TN on 29.09.2022.





Technical Message:

Electric vehicles in India:

The electric vehicle industry in India is a growing industry. The central and state governments have launched schemes and incentives to **promote electric mobility** in the country and some regulations and standards are also in place. While the country stands to benefit in a large way by switching its transport from **IC engines to electric motor-powered**, there are challenges like lack of charging infrastructure, high initial cost and lack of electricity produced from renewable energy. Still, e-commerce companies, car manufacturers, app-based transportation network companies and mobility solution providers have entered the sector and are slowly building up electric car capacity and visibility.



Go Electric campaign:

The government launched the **Go Electric campaign in the start of 2021 to encourage the adoption of electric mobility vehicles and electric cooking appliances** and to ensure energy security in the country. Road Transport and Highways Minister Nitin Gadkari launched the campaign, saying Go Electric is a future for India that will promote low-cost, environmentally friendly and indigenous electrical products. He expressed concern about the huge cost of importing fossil fuels and said CO2 emissions from transportation vehicles are a major challenge. The country must encourage the use of vehicles that run on alternative fuels such as electric batteries, CNG and biofuels.



The Government to suspend the registration fee for EVs will persuade states also to give tax breaks.

Why Choose an Electrical Engineering Degree?



JOBS IN PUBLIC SECTORS



JOBS IN PRIVATE SECTORS



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VARIOUS CAREER OPTIONS

