




SRI RANGANATHAR
INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
(An ISO 9001:2015 Certified Institution)
Athipalayam, Coimbatore - 641 110. Web site: www.sriet.ac.in Ph: 0422 2697792



SRIET – EEE NEWSLETTER

Academic Year 2021-22 (ODD SEM)

December 2021

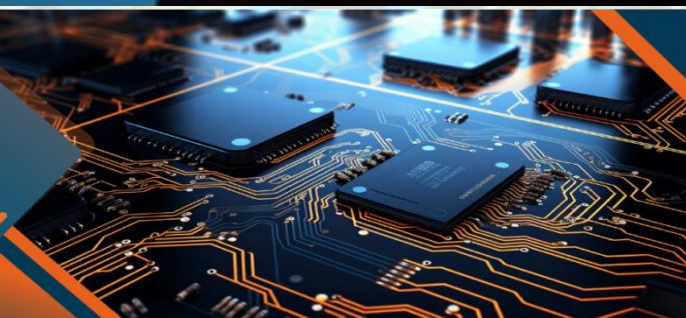


ELECTRICAL ENGINEERING ELECTRONICS ENGINEERING AND ELECTRICAL POWER ENGINEERING

- Electric Machines
- Power Electronics
- Semi Conductor Devices
- Electric Vehicles
- Renewable Energy
- Power Markets
- Digital Circuit
- Circuit Analysis
- Power System Analysis



**DEPARTMENT OF ELECTRICAL
AND ELECTRONICS
ENGINEERING**





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.

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



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING (EEE)

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:

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

MISSION:

- 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.

LIST OF CONTENT:

- Students Activities
- Faculty Activities
- Department Activities

Editorial Board (Student):

Chief Editor: Ms D NANDHINI IV-EEE

Editor : Mr R RAHUL III-EEE

Designer : Ms S FEROSHA THOWHITH II-EEE

Staff Editors Board:

Board member 1:

Dr J Maalmarugan HoD/EEE

Board member 2:

Mr K Muthuraj AP/EEE



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.



Student's Achievements:

- **Dharmalingam A from IV EEE** participated in **online quiz series-1 on “Digital Electronics”** organized by K. Ramakrishnan College of Engineering, Trichy on 12-07-2021.
- **Aswin Prabhu K from III EEE** participated in **online quiz series-13 on “Power System”** organized by K. Ramakrishnan College of Engineering, Trichy on 27-08-2021.
- **Dharmalingam A from IV EEE** participated in **online quiz series-13 on “Power System”** organized by K. Ramakrishnan College of Engineering, Trichy on 27-08-2021.
- **Pandiaraj J from IV EEE** participated in **online quiz series-13 on “Power System”** organized by K. Ramakrishnan College of Engineering, Trichy on 27-08-2021.



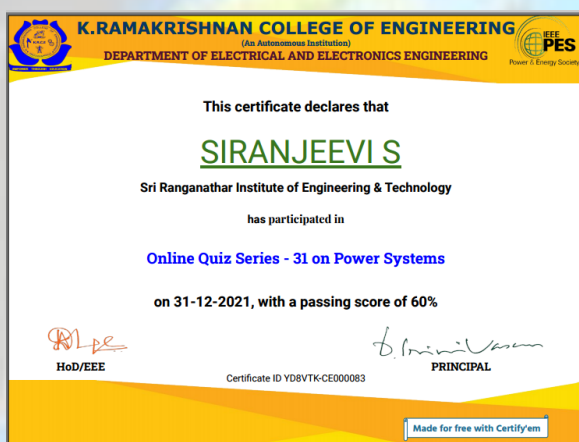
- **Amerunisha M II EEE** participated in the **NewsQuiz contest** conducted by BA(JMC) Dept, JIMS Greater Noida from **31.08.2021 to 05.09.2021**.
- **Prajithakumari P II EEE** participated in the **Online Quiz series-16** on Power systems on **17.09.2021** at K RAMAKRISHNAN COLLEGE OF ENGINEERING, Trichy.
- **Prajithakumari P II EEE** participated in **“Quiz Series on Electric Vehicles-XXII”** at **KPR Institute of Engineering and Technology** on 18.09.2021.
- **Vasantha jananeeswari N II EEE** participated in **“Quiz Series on Electric Vehicles-XXII”** at **KPR Institute of Engineering and Technology** on 18.09.2021.
- **Aswinprabhu K III EEE** participated in **“Quiz Series on Electric Vehicles-XXII”** at **KPR Institute of Engineering and Technology** on 18.09.2021.
- **Divya R III EEE** participated in **“Quiz Series on Electric Vehicles-XXII”** at **KPR Institute of Engineering and Technology** on 18.09.2021.



- **Dhineshwaran S III EEE** participated in “**Quiz Series on Electric Vehicles-XXII**” at **KPR Institute of Engineering and Technology** on **18.09.2021**.
- **Ayyanar N IV EEE** take part in **Blood donation** at **G. Kuppuswamy Naidu Memorial Hospital (GKNMH), Coimbatore** on **29.09.2021**.
- **Jayasurya IV EEE EEE** take part in **Blood donation** at **G. Kuppuswamy Naidu Memorial Hospital (GKNMH), Coimbatore** on **29.09.2021**.
- **Gowtham G IV EEE EEE** take part in **Blood donation** at **G. Kuppuswamy Naidu Memorial Hospital (GKNMH), Coimbatore** on **29.09.2021**.
- **Amerunisha** from **II EEE Online Quiz Series-I** on “**Energy Management and Auditing**” organized by **K. Ramakrishnan College of Engineering, Trichy** on **11.10.2021**.
- **Sebastian V** from **II EEE** completed online course on “**AutoCAD**” conducted by **IT Sonix Solutions** on **14.10.2021**.
- **Prajithakumari P** from **II EEE** participated in online **Quiz series-20** on “**Power systems**” organized by **K. Ramakrishnan College of Engineering, Trichy** on **15.10.2021**.
- **Siranjeevi S** from **II EEE** participated in online **Quiz series-20** on “**Power systems**” organized by **K. Ramakrishnan College of Engineering, Trichy** on **15.10.2021**.
- **Prajithakumari P II EEE** participated in **online Quiz series-2** on “**Energy Management and Auditing**” organized by **K. Ramakrishnan College of Engineering** on **18.10.2021**.
- **Vasantha Jananeeswari N** from **II EEE** participated in **online Quiz series-2** on “**Energy Management and Auditing**” organized by **K. Ramakrishnan College of Engineering** on **18.10.2021**.
- **Yazhini II EEE** participated and scored **80%** in the **Online Quiz series-04** on “**Energy Management and Auditing**” organized by **K RAMAKRISHNAN COLLEGE OF ENGINEERING, Trichy** on **01.11.2021**.
- **Prajithakumari P II EEE** participated and scored **90%** in the **Online Quiz series-23** on “**Power systems**” organized by **K RAMAKRISHNAN COLLEGE OF ENGINEERING, Trichy** on **05.11.2021**.
- **Yazhini II EEE** participated and scored **90%** in the **Online Quiz series-23** on “**Power systems**” organized by **K RAMAKRISHNAN COLLEGE OF ENGINEERING, Trichy** on **05.11.2021**.
- **Prajithakumari P II EEE** participated and scored **100%** in the **Online Quiz series-05** on “**Energy Management and Auditing**” organized by **K RAMAKRISHNAN COLLEGE OF ENGINEERING, Trichy** on **08.11.2021**.



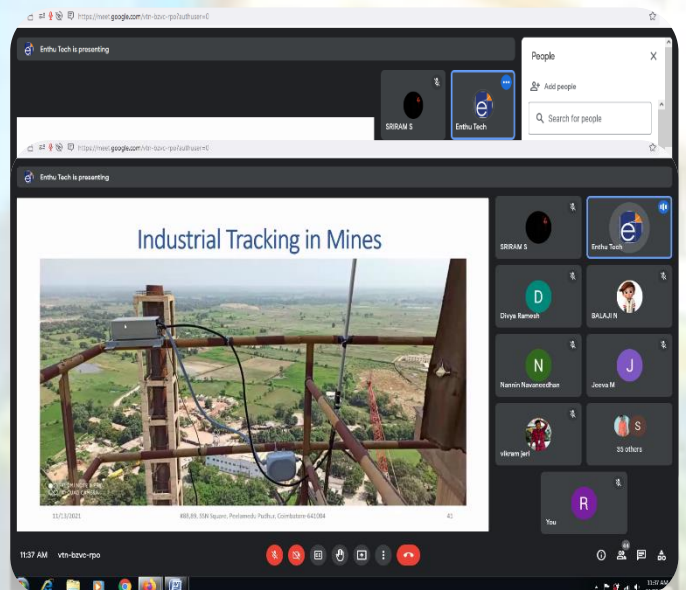
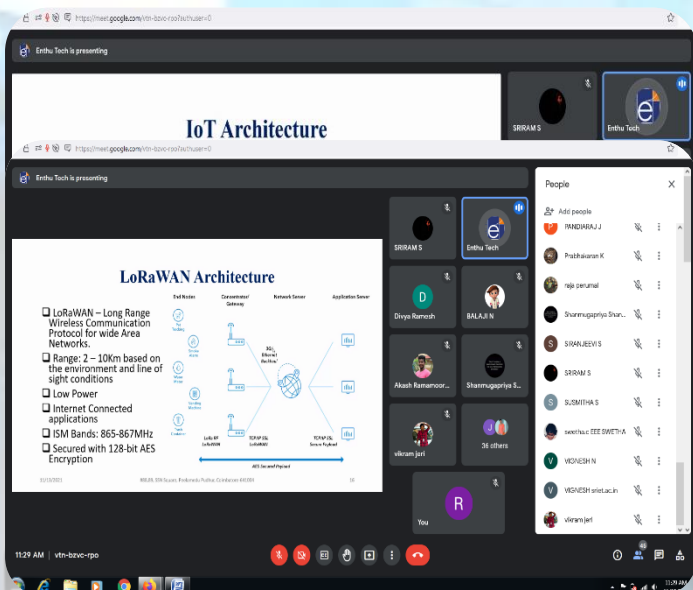
- **Siranjeevi S II EEE** participated and scored 100% in the **Online Quiz series-6** on “**Energy Management and Auditing**” organized by **K RAMAKRISHNAN COLLEGE OF ENGINEERING, Trichy** on **15.11.2021**.
- **Vasantha Jananeeswari N II EEE** participated and scored 100% in the **Online Quiz series-6** on “**Energy Management and Auditing**” organized by **K RAMAKRISHNAN COLLEGE OF ENGINEERING, Trichy** on **15.11.2021**.
- **Siranjeevi S II EEE** participated in **Online Quiz Series - 25** on **Power Systems** with passing score of 100% organized by **K.Ramakrishnan College of Engineering, Trichy, Tamilnadu** on **19.11.2021**.
- **Siranjeevi S II EEE** participated and scored 60% in the **Online Quiz series-7** on “**Energy Management and Auditing**” organized by **K.Ramakrishnan College of Engineering, Trichy, Tamilnadu** on **22-11-2021**.
- **Amerunisha M II EEE** participated and scored 100% in the **Online Quiz series-7** on “**Energy Management and Auditing**” organized by **K.Ramakrishnan College of Engineering, Trichy, Tamilnadu** on **22-11-2021**.
- **Dhineshwaran S III EEE** participated in **BINARY LOGIC & NUMBER THEORY E-QUIZ** organized by **St. Ann’s College of Arts & Science** on **21.12.2021 & 22.12.2021**.
- **Prajithakumari P II EEE** participated and scored 100% in the **Online Quiz series-12** on “**Energy Management and Auditing**” organized by **K. RAMAKRISHNAN COLLEGE OF ENGINEERING** on **27.12.2021**.
- **Prajithakumari P II EEE** participated in **Online Quiz Series - 31** on **Power Systems** organized by **K. RAMAKRISHNAN COLLEGE OF ENGINEERING** on **31.12.2021**
- **Siranjeevi S II EEE** participated in **Online Quiz Series - 31** on **Power Systems** organized by **K. RAMAKRISHNAN COLLEGE OF ENGINEERING** on **31.12.2021**.





Programmes Organized:

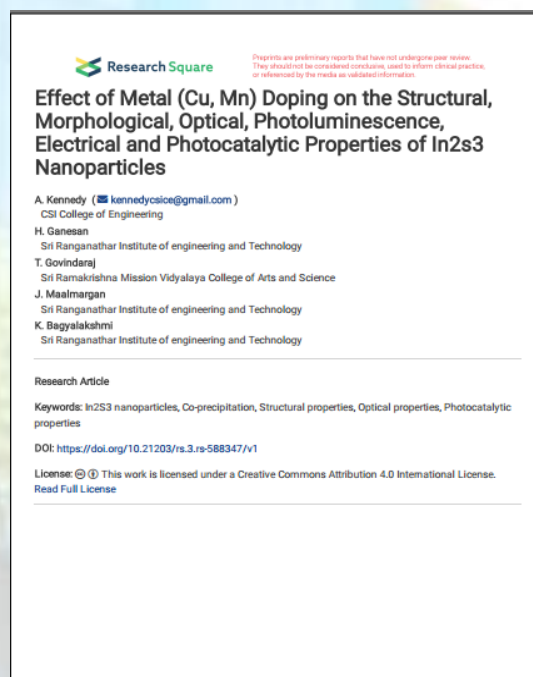
- Mrs K Bagyalakshmi organized a webinar on “Career Guidance on Research, Innovations and Higher Studies at Overseas” on 03.09.2021 presented by Ms. Seema Nair Managing Director, Prime Phase Consultants, Coimbatore.
- Mrs K Bagyalakshmi organized a Seminar on “Step not, Step on the Stopping stones” on 09.09.2021 presented by Dr A Parimala Gandhi, Assistant Professor/KIT.
- Dr J Maalmarugan arranged an alumni talk for all EEE students on 16.09.2021 presented by Mr Jayaprasad (2014-18 batch), Entrepreneur.
- Mr D Palanivel organized National level webinar on “IoT Based Solar Tracking and E-Vehicles Management System” on 17.09.2021 delivered by Mr M Madhan kumar, Senior Manager & HR power integrated solutions, Trichy.
- National Level Webinar on “Industrial IoT using LoRaWAN Technology” presented by Mr. G. Gowtham raj, Technical Manager, Enthu Technology Solution India Pvt. Ltd., organized by Mrs K Bagyalakshmi on 13.11.2021.





Journal Publications (National/International):

- **Dr.J.Maalmarugan Prof/Head EEE and Mr D Palanivel AP/EEE** has published an **international journal** titled on **“Optimal Path Routing using Fuzzy Logic in Wireless Sensor Networks”**
Journal Name: **International Journal of Creative Research Thoughts (IJCRT) Volume 9**,
Indexed by: **UGC on July-2021.**
- **Dr.J.Maalmarugan Prof/Head EEE** has published an **international journal** titled on **“Growth, characterizations, and the structural elucidation of diethyl-2-(3-oxoiso-1,3- dihydrobenzofuran-1-ylidene) malonate crystalline specimen for dielectric and electronic filters, thermal, optical, mechanical, and biomedical applications using conventional experimental and theoretical practices”**
Journal Name: **Journal of Mater Science: Mater electron**, Indexed by: **Springer US Scopus, UGC AU.Annex.1 on August-2021.**
- **Mrs K Bagyalakshmi AP/EEE** has published an **international journal** titled on **“Image-Based Plant Diseases Detection using Deep Learning”**
Journal Name: **Materials Today-Proceedings**, Indexed by: **Elsevier, Scopus on August-2021.**
- **Dr.J.Maalmarugan Prof/Head EEE and Mrs K Bagyalakshmi AP/EEE** has published an **international journal** titled on **“Effect of Metal (Cu, Mn) Doping on the Structural, Morphological, Optical, Photoluminescence, Electrical and Photocatalytic Properties of In₂s₃ Nanoparticles”**
Journal Name: **Research Square**





FDP/STTP/Seminar/Workshops:

- **Mr Muthuraj K** participated in **Webinar series on “Research Avenues in Microwave Technologies”** from 28.06.2021 to 30.06.2021 organized by **Kumaraguru College of Technology (KCT)**.
- **Mr.P.Meenakshi Sundaram** participated in **Three days FDP on “Digital Tool for Active Teaching Evaluation and Research”** from 28.06.2021 to 30.06.2021 organized by **Sri GVG Visalakshi College for Women**.
- **Mrs M Shanthi** attended **one-week STTP on “FPGA based Digital System Design with HDL”** from 28.06.2021 to 03.07.2021 organized by **Vel Tech Institution**.
- **Mr Alex George** participated in **national level Workshop on “Control and Applications in Robotics”** organized by **SRM TRP Engineering College** on 30.06.2021.
- **Mr Alex George** participated in **FDP on “Interactive Approaches in Handling Renewable Energy Systems Laboratory for the New Normal”** from 28.06.2021 to 02.07.2021 organized by **Sri Sivasubramaniya Nadar College of Engineering**.
- **Mr.P.Meenakshi Sundaram** attended **two weeks FDP on “Chronic Stress Management During Pandemic”** from 09.07.2021 to 20.07.2021 organized by **AMET Academy of Maritime Education and Training**.
- **Mr Alex George** participated in **FDP on “Formal Verification of Digital Design”** from 07.06.2021 to 11.06.2021 organized by **PES University**.
- **Mr.P.Meenakshi Sundaram** participated in **Live Tech Talk with a cup of Tea on “Vehicle Electrification: Challenges and Opportunities”** organized by **SRM TRP Engineering College** at 17.07.2021.
- **Mrs.M.Malathi** attended **FDP on “Recent Trends in Electric Vehicles”** from 05.07.2021 to 09.07.2021 organized by **NIT, Andre Pradesh**.
- **Mrs.M.Malathi** attended **Six-Days FDP on “POWER ELECTRONICS”** from 07-06 2021 to 12-06-2021 organized by **Chennai Institute of Technology**.
- **Mr.P.Meenakshi Sundaram** attended **Six-Days FDP on “POWER ELECTRONICS”** from 07-06 2021 to 12-06-2021 organized by **Chennai Institute of Technology**.
- **Mr.D.Palanivel** attended **Six-Days FDP on “POWER ELECTRONICS”** from 07-06 2021 to 12-06-2021 organized by **Chennai Institute of Technology**.



- **Mr Muthuraj K** attended **Six-Days FDP** on “**POWER ELECTRONICS**” from 07-06 2021 to 12-06-2021 organized by **Chennai Institute of Technology**.
- **Mrs.M.Malathi** participated in **two weeks FDP** on “**Design and Operational Perspective of Electric Vehicle with Distributed Energy Resources using Cyber Physical System**” from 19-07-2021 to 31-07-2021 at **KPR Institute of Engineering and Technology**.
- **Mr Alex George** participated in **Six-Days online STTP** on “**Application of Machine Learning and Artificial Intelligence Techniques for Control of Future Grid**” from 02-08-2021 to 07-08-2021 at **NMAM Institute of Technology**.
- **Mr Alex George** attended **Webinar** on “**New Education Policy (NEP) 2020: Quality, Accreditation and Teacher Development**” organized by **PSNA college of Engineering and Technology** on 06.08.2021.
- **Dr.J.Maalmarugan** participated in **one-week National Level Online FDP** on “**Recent Trends in Electrical Engineering**” from **16-08-2021 to 23-08-2021** organized by **Geethanjali Institute of Science and Technology, SPSR Nellore, AP**.
- **Mrs M Shanthy** participated in **one-week National Level Online FDP** on “**Recent Trends in Electrical Engineering**” from **16-08-2021 to 23-08-2021** organized by **Geethanjali Institute of Science and Technology, SPSR Nellore, AP**.
- **Mrs K.Bagyalakshmi** participated in **one-week National Level Online FDP** on “**Recent Trends in Electrical Engineering**” from **16-08-2021 to 23-08-2021** organized by **Geethanjali Institute of Science and Technology, SPSR Nellore, AP**.
- **Mr.D.Palanivel** participated in **one-week National Level Online FDP** on “**Recent Trends in Electrical Engineering**” from **16-08-2021 to 23-08-2021** organized by **Geethanjali Institute of Science and Technology, SPSR Nellore, AP**.
- **Mr.P.Meenakshi Sundaram** participated in **one-week National Level Online FDP** on “**Recent Trends in Electrical Engineering**” from **16-08-2021 to 23-08-2021** organized by **Geethanjali Institute of Science and Technology, SPSR Nellore, AP**.
- **Mr.K.Rajeshkumar** participated in **one-week National Level Online FDP** on “**Recent Trends in Electrical Engineering**” from **16-08-2021 to 23-08-2021** organized by **Geethanjali Institute of Science and Technology, SPSR Nellore, AP**.
- **Mrs.M.Malathi** participated in **one-week National Level Online FDP** on “**Recent Trends in Electrical Engineering**” from **16-08-2021 to 23-08-2021** organized by **Geethanjali Institute of Science and Technology, SPSR Nellore, AP**.



- **Mr Muthuraj K** participated in **one-week National Level Online FDP** on “**Recent Trends in Electrical Engineering**” from **16-08-2021 to 23-08-2021** organized by Geethanjali Institute of Science and Technology, SPSR Nellore, AP.
- **Mr Alex George** participated in **one-week National Level Online FDP** on “**Recent Trends in Electrical Engineering**” from **16-08-2021 to 23-08-2021** organized by Geethanjali Institute of Science and Technology, SPSR Nellore, AP.
- **Mrs.M.Malathi** participated in **five days online FDP** on “**Research Innovation & Recent Trends in Electrical and Electronics Engineering**” from 16-08-2021 to 20-08-2021 organized by SBJ Institute of Technology, Bengaluru.
- **Mr Alex George** participated in **five days online FDP** on “**Research Innovation & Recent Trends in Electrical and Electronics Engineering**” from 16-08-2021 to 20-08-2021 organized by SBJ Institute of Technology, Bengaluru.
- **Mr Alex George** attended **one week FDP** on “**Outcome Based Education in Perspective to New Education Policy**” from 06.09.2021 to 11.09.2021 organized by **Bhilai Institute of Technology, Durg.**
- **Mr.D.Palanivel** attended NAAC Sponsored **One-day Online Seminar** on “**Qualitative & Quantitative Metrics in RAAF of NAAC**” organized by **Rajalakshmi Engineering College, Thandalam, Chennai on 17-Sep-2021.**
- **Mr Muthuraj K** attended NAAC Sponsored **One-day Online Seminar** on “**Qualitative & Quantitative Metrics in RAAF of NAAC**” organized by **Rajalakshmi Engineering College, Thandalam, Chennai on 17-Sep-2021.**
- **Dr.J.Maalmarugan** attended NAAC Sponsored **One-day Online Seminar** on “**Qualitative & Quantitative Metrics in RAAF of NAAC**” organized by **Rajalakshmi Engineering College, Thandalam, Chennai on 17-Sep-2021.**
- **Mr Alex George** participated in “**Quiz Series on Electric Vehicles-XXII**” organized by KPR Institute of Engineering and Technology on 18.09.2021.
- **Mrs M.Malathi** participated in “**Quiz Series on Electric Vehicles-XXII**” organized by KPR Institute of Engineering and Technology on 18.09.2021.
- **Mr.P.Meenakshi Sundaram** participated in the “**Workshop on How to Write Research Proposal For M.Phil & Ph D Admission**” organized by DNYANDEEP MANDAL’S ST. JOSEPH COLLEGE OF ARTS & COMMERCE, SATPALA from **27th to 29th September 2021.**
- **Mr Alex George** participated and scored 90% in the **Online Quiz series-17 on Power systems** organized by K.RAMAKRISHNAN COLLEGE OF ENGINEERING, Trichy on **24.09.2021.**



- **Mr Alex George** participated **STTP** on “**Big Data Analytics Using Soft Computing Tools (For Data Analytics)**” from 27-09-2021 to 02-10-2021 organized by Rajiv Gandhi University, Doimukh.
- **Mr.D.Palanivel** participated in the **3-Days Faculty Development Program** on “**Renewable Energy Systems**” from 28-09-2021 to 30-09-2021 organized by **RVS College of Engineering & Technology**.
- **Mrs K Bagyalakshmi** participated in the **3-Days Faculty Development Program** on “**Renewable Energy Systems**” from 28-09-2021 to 30-09-2021 organized by **RVS College of Engineering & Technology**.
- **Mrs M.Malathi** participated in the **3-Days Faculty Development Program** on “**Renewable Energy Systems**” from 28-09-2021 to 30-09-2021 organized by **RVS College of Engineering & Technology**.
- **Mrs M Shanthi** participated in the **3-Days Faculty Development Program** on “**Renewable Energy Systems**” from 28-09-2021 to 30-09-2021 organized by **RVS College of Engineering & Technology**.
- **Mr K Rajeshkumar** participated in the **3-Days Faculty Development Program** on “**Renewable Energy Systems**” from 28-09-2021 to 30-09-2021 organized by **RVS College of Engineering & Technology**.
- **Mr Alex George** attended **Webinar** on “**Design Thinking and Product Innovation**” organized by ARIFA Institute of Technology on 01.10.2021.
- **Mrs K Bagyalakshmi** participated in **one-week Online Training Program** on "**Electrical & Electronic Systems for wind & solar**" from 04.10.2021 to 08.10.2021 organized by **NITTTR, Chennai**.
- **Mr Alex George** participated in **one week FDP** on “**Research Challenges, Opportunities in Smart Grid with Integration of Electrical Vehicles**” from 08.10.2021 to 12.10.2021 organized by **Vemu Institute of Technology**.
- **Mr Alex George** attended **webinar** on “**Hydraulics and Pneumatics**” organized by **ARIFA Institute of Technology** on 10.10.2021.
- **Mr Alex George** participated in online **quiz series-1** on “**Energy Management and Auditing**” organized by **K. Ramakrishnan College of Engineering** on 11.10.2021.
- **Mrs K Bagyalakshmi** participated in the **International Webinar** on “**Artificial Intelligence on Power System Compensation**” organized by **RVS College of Engineering and Technology** on **18.10.2021**.
- **Mr Alex George** participated in the **International Webinar** on “**Artificial Intelligence on Power System Compensation**” organized by **RVS College of Engineering and Technology** on **18.10.2021**.



- **Mr.D.Palanivel** participated in the **International Webinar** on “**Artificial Intelligence on Power System Compensation**” organized by **RVS College of Engineering and Technology** on **18.10.2021**.
- **Mr.P.Meenakshi Sundaram** participated in the **International Webinar** on “**Artificial Intelligence on Power System Compensation**” organized by **RVS College of Engineering and Technology** on **18.10.2021**.
- **Mr Muthuraj** participated in the **International Webinar** on “**Artificial Intelligence on Power System Compensation**” organized by **RVS College of Engineering and Technology** on **18.10.2021**.
- **Mrs M Shanthi** participated in the **International Webinar** on “**Artificial Intelligence on Power System Compensation**” organized by **RVS College of Engineering and Technology** on **18.10.2021**.
- **Mr Alex George** participated in **online quiz series** on “**Electrical and Electronics Engineering**” organized by **Sri Ramakrishna Engineering College** on **27.10.2021**.
- **Mr Alex George** successfully participated in the **One Week National Level FDP** on “**Administrative Capacity Building**” organized by **Sathyabama Institute of Science and Technology, Chennai** from **25.10.2021 to 31.10.2021**.
- **Mr Alex George** successfully completed **30 days training** on “**Renewable Energy Master Class**” organized by **Pantech e-learning Pvt Ltd, Chennai** from **17.10.2021 to 16.11.2021**.
- **Mr Alex George** participated and scored 80% in the **Online Quiz series-04** on “**Energy Management and Auditing**” organized by **K RAMAKRISHNAN COLLEGE OF ENGINEERING, Trichy** on **01.11.2021**.
- **Mr Alex George** participated and scored 90% in the **Online Quiz series-05** on “**Energy Management and Auditing**” organized by **K RAMAKRISHNAN COLLEGE OF ENGINEERING, Trichy** on **08.11.2021**.
- **Mr Alex George** participated and scored 70% in the **Online Quiz series-24** on “**Power systems**” organized by **K RAMAKRISHNAN COLLEGE OF ENGINEERING, Trichy** on **12.11.2021**.
- **Mr Alex George** participated and scored 100% in the **Online Quiz series-7** on “**Energy Management and Auditing**” organized by **K RAMAKRISHNAN COLLEGE OF ENGINEERING, Trichy** on **22.11.2021**.
- **Mrs K Bagyalakshmi** participated in the **Online Training Programme** on “**LabVIEW and MATLAB Programming**” organized by **NITTTR, Chennai** from **22.11.2021 to 26.11.2021**.
- **Mrs K Bagyalakshmi** participated in the **Online Training Programme** on “**Arduino Programming using Tinkercad**” organized by **NITTTR, Chennai** **06.12.2021 to 10.12.2021**.



- **Mr D Palanivel** participated in the **webinar** on "**REAL TIME PYTHON**" organized by Shreenivasa Engineering College, Dharmapuri on **01.12.2021**.
- **Mrs M Malathi** participated in the **webinar** on "**REAL TIME PYTHON**" organized by Shreenivasa Engineering College, Dharmapuri on **01.12.2021**.
- **Mrs M Shanthi** participated in One Week Faculty Development Programme (**FDP**) on "**Research Opportunities in Artificial Intelligence & Machine Learning**" organized by Sri Sai Ram Institute of Technology, Chennai from **16.12.2021 to 22.12.2021**.
- **Mr K Muthuraj** participated in One Week Faculty Development Programme (**FDP**) on "**Research Opportunities in Artificial Intelligence & Machine Learning**" organized by Sri Sai Ram Institute of Technology, Chennai from **16.12.2021 to 22.12.2021**.
- **Mr Alex George** participated and scored 70% in the **Online Quiz** series-12 on "**Energy Management and Auditing**" organized by K. RAMAKRISHNAN COLLEGE OF ENGINEERING on **27.12.2021**.



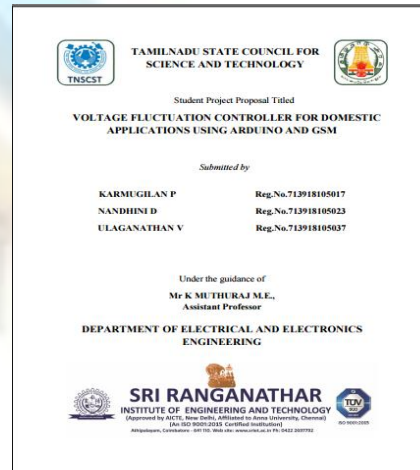
Extension Activity:

- **Dr.J.Maalmarugan, Mrs K.Bagyalakshmi, Mr Alex George, Mrs M Shanthi, Mrs.M.Malathi** has filed a patent titled on "**AI Based Predicting and Optimizing Traffic Flow at Toll Plaza**" during July 2021.
- **Mrs K Bagyalakshmi** filed a patent entitled on "**An Artificial Intelligence and Machine Learning based system**" during **05.10.2021**.
- **Dr.J.Maalmarugan** Signed MOU with **SUNDROP ENERGY solutions, Chennai** on **07.10.2021**.
- **Mrs K Bagyalakshmi** Signed MOU with **NoviTech Pvt Ltd, Coimbatore** on **27.10.2021**.



Funding Proposals:

- **Dr.J.Maalmarugan** submitted a project proposal on **IoT Based Smart Traffic Control System for Ambulance to TNSCST on 15.09.2021.**
- **Mr. Alex George** submitted a project proposal on **Development of Three Phase Rotating Magnetic Field for Delta Connected Motor to TNSCST on 15.09.2021.**
- **Mrs K.Bagyalakshmi** submitted a project proposal on **Design and Implementation of smart Navigation System for Visually Impaired People using Iot to TNSCST on 15.09.2021.**
- **Mrs M Shanthi** submitted a project proposal on **Design and Implementation of Agriculture Robot Using Arduino to TNSCST on 15.09.2021.**
- **Mr.P.Meenakshi Sundaram** submitted a project proposal on **Protection of Over Voltage and Under Voltage Using Arduino for Home Appliances to TNSCST on 15.09.2021.**
- **Mr.D.Palanivel** submitted a project proposal on **IoT Based Smart Health Monitoring, Mask Scan Entry and Social Distancing System for COVID-19 Prevention to TNSCST on 15.09.2021.**
- **Mrs M.Malathi** submitted a project proposal on **IoT Based Smart Grid Using Renewable Energy System to TNSCST on 15.09.2021.**
- **Mr K.Muthuraj** submitted a project proposal on **Voltage Fluctuation Controller for Home Applications using Arduino and GSM to TNSCST on 15.09.2021.**



Interaction with outside world:

- Mrs K.Bagyalakshmi delivered a **Guest Lecturer** on “Introduction to Arduino” at Sri Ranganathar Institute of Polytechnic College on **22.09.2021**.
- **Dr.J.Maalmarugan** act as a **Reviewer** at **Journal of Circuits, Systems, and Computers** in the journal name of **Wei Wang** Handling Editor on **15.09.2021**.

Technical Message:

James Clerk Maxwell (13 June 1831 – 5 November 1879) was a Scottish mathematician and scientist responsible for the **classical theory of electromagnetic radiation**, which was the first theory to describe electricity, magnetism and light as different manifestations of the same phenomenon. **Maxwell's equations** for electromagnetism have been called the "**second great unification in physics**" where the first one had been realised by Isaac Newton.



With the publication of "**A Dynamical Theory of the Electromagnetic Field**" in 1865, Maxwell demonstrated that electric and magnetic fields travel through space as waves moving at the speed of light. He proposed that light is an undulation in the same medium that is the cause of electric and magnetic phenomena. The unification of light and electrical phenomena led his prediction of the existence of radio waves. **Maxwell** is also regarded as a founder of the **modern field of electrical engineering**.