



Autonomous | Affiliated to Anna University, Chennai
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EEE NEWS

JAN '20 - JUNE '20



**DEPARTMENT OF ELECTRICAL & ELECTRONICS
ENGINEERING**

2020-2021

Vision and Mission of the Department:

Vision:

To provide students with sound knowledge of Electrical and Electronics Engineering, that they become capable of facing the current and impending challenges to extend their expertise in the global arena.

Mission:

- Impart high quality education and training to the students in the field of Electrical and Electronics Engineering
- Transforming our students into enterprising technologies by giving them excellent facilities by qualified, committed members of faculty.
- Motivating them to contribute immensely for the benefit of the entire humanity.

Program Educational Objectives (PEOs)

PEO1: Graduates will synthesize mathematics, science, engineering fundamentals, laboratory and work-based experiences to formulate and solve problems in Electrical and Electronics engineering and the related domains and will develop proficiency in Computer-based engineering and the use of computational tools.

PEO2: Graduates will communicate and work team-based on the multidisciplinary engineering projects in the allied fields of Electrical Science and will practice the ethics of their profession.

PEO3: Graduates will realize the importance of self-learning and engage in lifelong learning to become experts either as an entrepreneur or an employee so as to broaden their knowledge in the domain.

Programme Outcomes (POs)

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 (PSOs):

PSO 1: Apply the knowledge in the field of electrical and electronics engineering to analyse, design and develop solutions for real world problems.

PSO 2: Demonstrate the skill in core and allied domain to work in interdisciplinary teams.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING (JANUARY – JUNE 2020)

DEPARTMENT ACTIVITIES

- ❖ Conducted two days national level workshop on “Soft Computing techniques using MATLAB” during 23rd & 24th January 2020.



- ❖ Conducted a national level workshop on “Energy Audit and Management” on 25th January 2020.



- ❖ Conducted a national level workshop on “Industrial Automation using PLC & SCADA” on 01st February 2020.



- ❖ Conducted Two Days International Conference on “Advances and Developments in Electrical and Electronics Engineering” (ICADEE’2020) during 6th & 7th February 2020.



TECHNICAL & NON TECHNICAL EVENT

- ✓ Organised “Tik Tok Contest” for second year and third year students on 07.02.2020
- ✓ Organised “Essay Writing” and “Debate” for second year and third year students on 13.04.2020

FACULTY ACHIEVEMENTS

Journal Publications – International/ National

Dr.P.Vijayakumar, Principal

- ❖ Published a paper titled “Hybrid renewable energy systems for power flow management in smart grid using an efficient hybrid technique” in Transactions of the Institute of Measurement and Control, Vol. 42, No. 11, March 2020, ISSN: 0142-3312
- ❖ Published a paper titled “Implementation Of An Efficient FPGA Architecture For Capsule Endoscopy Processor Core Using Hyper Analytic Wavelet-Based Image Compression Technique Screen reader support enabled.” in International Journal of Data Analysis Techniques and Strategies, Vol. 12, No. 3, April 2020, pp 262-286 ISSN: 1755-8050

Dr.C.R.Balamurugan, Professor & Head

- ❖ Published a paper titled “Water Condensation System Based on Thermoelectric Coller Using Solar Energy”, International Journal of Advances in Applied Sciences, Vol. 9, No. 2, June 2020, pp. 149~158 ISSN: 2252-8814
- ❖ Published a paper titled “Emergency Medikit Delivery System Using Quadcopter”, Parishodh Journal, ISSN NO:2347-6648 Volume IX, Issue III, March 2020

Dr. T.Ram Mohan, Professor

- ❖ Published a paper titled “An Analysis of Quality of Image compression with Disturbances” in Waffen-Und Kostumkunde Journal, Volume XI, Issue IV, pp 52-59, April 2020, ISSN NO: 0042-9945

- ❖ Published a paper titled “Multiple Valve Control In Farming Using PLC”, International Journal of Creative Research Thoughts, Volume 8, Issue 3 March 2020,ISSN: 2320-2882
- ❖ Published a paper titled “Application of PLC in Home Automation”, Studies in Indian Place Names (UGC Care Journal),Vol-40-Issue-60-March 2020, ISSN: 2394-3114

Dr. A.Sanjeevigandhi, Professor

- ❖ Published a paper titled “Analysis and Control of Temperature Process Dynamics during Biomass Gasification Process in Downdraft Gasifier”, Test Engineering and management, Feb 2020, ISSN: 0193-4120
- ❖ Published a paper titled “Real Time Control of Dissolved Oxygen for Industry Effluent Water using PID Controller”, Test Engineering and management, Feb 2020, ISSN: 0193-4120

Dr.G.Venkatesan, Professor

- ❖ Published a paper titled “ Novel Control Scheme for Z-Source Inverter based Wind Energy Conversion Systems” in Waffen-Und Kostumkunde Journal, Volume XI, Issue IV, pp 60-70, April 2020, ISSN NO: 0042-9945
- ❖ Published a paper titled “Microcontroller Based Speed Control of BLDC Motor”, Parishodh Journal, Volume IX, Issue III, March 2020, ISSN NO:2347-6648

Dr.S.Sivasubramanian, Professor

- ❖ Published a paper titled “Interrelated Control of Distributed Generators and Compensator in a Micro Grid” in Waffen-Und Kostumkunde Journal, Volume XI, Issue II, pp 325-331, Feb 2020, ISSN NO: 0042-9945
- ❖ Published a paper titled “Internet Of Things (IOT) For Online Patient Monitoring”, Parishodh Journal, , Volume IX, Issue III, March 2020, ISSN NO:2347-6648
- ❖ Published a paper titled “Smart Industrial Management Using Google Assistant”, Parishodh Journal, Volume IX, Issue III, March 2020. ISSN NO:2347-6648

Dr.V.Tamilselvan, Professor

- ❖ Published a paper titled “Interrelated Control of Distributed Generators and Compensator in a Micro Grid” in Waffen-Und Kostumkunde Journal, Volume XI, Issue II, pp 325-331, Feb 2020, ISSN NO: 0042-9945
- ❖ Published a paper titled “Design and of Electric Vehicle With Solar For Disabled Person”, Parishodh Journal, Volume IX, Issue III, March 2020, ISSN NO:2347-6648
- ❖ Published a paper titled “Bidirectional single-Phase Ac-Dc Full Bridge Inverter For Leakage Current Reduction”, Parishodh Journal, Volume IX, Issue III, March 2020, ISSN NO:2347-6648

Dr.T.Gopalakrishnan, Professor

- ❖ Published a paper titled “Vehicle Theft Detection And Identification Based Security System – A Review”, Parishodh Journal, Volume IX, Issue III, March 2020, ISSN NO:2347-6648
- ❖ Published a paper titled “Automatic Solar panel Tracking System To Maintain Maximum Efficiency”, Parishodh Journal, Volume IX, Issue III, March 2020, ISSN NO:2347-6648

Dr.Meenu D Nair, Associate Professor

- ❖ Published a paper titled “Vehicle Tracking System Using GPS and GSM”, international Journal of Grid and Distributed Computing, Vol. 13, No. 1, pp. 424-432, 2020, ISSN: 2005-4262
- ❖ Published a paper titled “Low cost microcontroller bases automatic plant irrigation system”, Mukth Shabd Journal (UGC Care Journal), Volume IX, Issue IV, April 2020.

Mr. A.Nagarajan, Assistant Professor

- ❖ Published a paper titled “Speed Control of BLDC Motor Using Android Application”, International Journal of Creative Research Thoughts, Volume 8, Issue 3 March 2020, ISSN: 2320-2882
- ❖ Published a paper titled “Fleet Management System Using IoT”, International Journal of Creative Research Thoughts, Volume 8, Issue 3, March 2020, ISSN: 2320-2882

Mr.M.Sivaramkrishnan, Assistant Professor

- ❖ Published a paper titled “Electric Vehicle using solar panel and lead acid battery and fuel cell”, Test Engineering and management, April 2020, ISSN: 0193-4120

Mr.P.Gajendran, Assistant Professor

- ❖ Published a paper titled “Mitigate the Distribution Network Loss and improve the Reliability Based on Deep Learning Algorithm”, Journal of Xidian University, Volume 14, Issue 6, 2020 ISSN: 1001-240

Ms. P.S. Sumy, Assistant Professor

- ❖ Published a paper titled “Analysis of Electric Circuits Using MATLAB, Scilab, and MULTISIM”, Journal of Xidian University, Volume 14, Issue 6, 2020 ISSN: 1001-2400
- ❖ Published a paper titled “Validation of Energy Consumption Model In The Instruction Level For A Microcontroller Based Embedded System”, Journal of Xidian University, Volume 14, Issue 6, 2020 ISSN: 1001-2400

Ms.D.Nalini, Assistant Professor

- ❖ Published a paper titled “Automatic Mushroom Growth Monitoring Using IoT”, International Journal of Creative Research Thoughts, Volume 8, Issue 3 March 2020, ISSN: 2320-2882
- ❖ Published a paper titled “IoT Based Wireless Automated Bell Ringing System In An Institution”, International Journal of Creative Research Thoughts, Volume 8, Issue 3 March 2020, ISSN: 2320-2882

Ms.Swathy.S, Assistant Professor

- ❖ Published a paper titled “Design and Implementation of Bi-Directional DC-DC Converter for Energy Storage System”, International Journal of Creative Research Thoughts, Volume 8, Issue 3 March 2020, ISSN: 2320-2882

Mr.C.S.Sundar Ganesh, Assistant Professor

- ❖ Published a paper titled “IoT Based Real Time Monitoring and Load Sharing of Transformers”, Studies in Indian Place Names (UGC Care Journal), Vol-40-Issue-60-March 2020, ISSN: 2394-3114
- ❖ Published a paper titled “Automatic GPS Based Vehicle Alert And Emergency System”, Studies in Indian Place Names (UGC Care Journal), Vol-40-Issue-60-March 2020, ISSN: 2394-3114

Ms.R.Vidyalakshmi, Assistant Professor

- ❖ Published a paper titled “Torque Ripple Reduction in Permanent Magnet Synchronous Motor using Predictive Control Scheme”, Test Engineering and Management, Volume 82, Page Number: 5728-5733, Feb 2020, ISSN: 0193-4120
- ❖ Published a paper titled “Solar Monitoring Using IoT”, International Journal of Creative Research Thoughts, Volume 8, Issue 3 March 2020, ISSN: 2320-2882
- ❖ Published a paper titled “Bluetooth Control Grass Cutter Using Solar Power”, International Journal of Creative Research Thoughts, Volume 8, Issue 3 March 2020, ISSN: 2320-2882

Ms. A.Anci Manon Mary, Assistant Professor

- ❖ Published a paper titled “Smart Forest System Using IoT”, International Journal of Creative Research Thoughts, Volume 8, Issue 3 March 2020, ISSN: 2320-2882
- ❖ Published a paper titled “Early Determination of Error Residual Blocks by Block Matching Algorithm for Video Coding”, Test Engineering and Management, March - April 2020, Page No. 17463- 17470, ISSN: 0193-4120

Mr.T.Gowtham Raj, Assistant Professor

- ❖ Published a paper titled “Ultrasonic and Infrared Using Blind Stick With GPS Tracking System”, International Journal of Creative Research Thoughts, Volume 8, Issue 3 March 2020, ISSN: 2320-2882
- ❖ Published a paper titled “Asymmetric Cascaded Multi Level Inverter Using Two Unequal Dc Sources By Fuzzy Controller”, International Journal of Advanced Science and Technology Vol. 29, No. 6s, (2020), pp. 2246-2255

Paper Presentation– International/ National conferences

Dr.C.R.Balamurugan, Professor & Head

- ❖ Presented a paper titled “Control strategy for grid connected three phase inverters for enhancing power delivery capability”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3.
- ❖ Presented a paper titled “cascaded wind power generation system using current based switched inverter for PV”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3
- ❖ Presented a paper titled “impact of smart grid in electrical power scheme”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3
- ❖ Presented a paper titled “A review on impedance source inverter”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3
- ❖ Presented a paper titled “Survey on reduced switched multilevel inverter”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3

Dr. T.Ram Mohan, Professor

- ❖ Presented a paper titled “smart farming”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3
- ❖ Presented a paper titled “home automation using PLC”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3

Dr.G.Venkatesan, Professor

- ❖ Presented a paper titled “Speed Control Of BLDC Motor Using Microcontroller”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3
- ❖ Presented a paper titled “Optimized control scheme for Z-source Inverter based wind source power conversion systems”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3

- ❖ Presented a paper titled “Simulation analysis of an on board charger with simultaneous charging of low voltage battery for electrical vehicles”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3

Dr.A.Sanjeevi Gandhi, Professor

- ❖ Presented a paper titled “Design of handheld device for monitoring of individual spindle speed in spinning machine using wireless technology”, 6th International conference on Electrical, Electronics, Instrumentation and Computer communication-EEICC’19 at Karpagam College of Engineering, Coimbatore on 24th January 2020

Dr.S.Sivasubramanian, Professor

- ❖ Presented a paper titled “Patient Monitoring Through – IoT”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3
- ❖ Presented a paper titled “Controlling of industrial appliances using internet of things”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3
- ❖ Presented a paper titled “Blood Vessel Segmentation on Retinal Fundus Image- A Review” Sixth International Conference on Bio Signals, Images, and Instrumentation (ICBSII) at RVS Technical Campus, Coimbatore from 27th to 28th Feb 2020, ISBN: 978-1-7281-1047-9

Dr.V.Tamilselvan, Professor

- ❖ Presented a paper titled “Design And Fabrication of Electric Vehicle With Solar”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3
- ❖ Presented a paper titled “leakage current reduction in a single phase bidirectional AC-DC full bridge inverter”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3

Dr.T.Gopalakrishnan, Professor

- ❖ Presented a paper titled “Microcontroller Based Solar Panel Tracking System”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3
- ❖ Presented a paper titled “A Review on Vehicle Theft Detection/Notification system”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3

Dr Meenu D Nair, Associate Professor

- ❖ Presented a paper titled “energy meter automation of hyponically growing crops using IoT”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3
- ❖ Presented a paper titled “College Bus Tracking Using GPS And GSM”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3

- ❖ Presented a paper titled “A review of AMRT home automation system using internet of things”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3
- ❖ Presented a paper titled “Low cost ICRO controller based automatic plant irrigation system”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3

Mr.A.Charles. Assistant Professor

- ❖ Presented a paper titled “Dual Axis Solar Tracker By Using Servo Mechanism”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3
- ❖ Presented a paper titled “Induction Motor Monitoring Using Labview”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3

Mr. A.Nagarajan. Assistant Professor

- ❖ Presented a paper titled “Fleet Management System Using IoT”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3
- ❖ Presented a paper titled “Speed Control Of BLDC Motor Using Android Application”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3

Mr.M.Sivaram Krishnan, Assistant Professor

- ❖ Presented a paper titled “Power Quality Correction Using Zeta Converter For BLDC Motor”, 6th International conference on Electrical, Electronics, Instrumentation and Computer communication-EEICC’19 at Karpagam College of Engineering, Coimbatore on 24th January 2020
- ❖ Presented a paper titled “Transient Stability Improvement Of DFIG Based Wind Farms Using Both Compensation And Uncompensation Techniques”, 6th International conference on Electrical, Electronics, Instrumentation and Computer communication-EEICC’19 at Karpagam College of Engineering, Coimbatore on 24th January 2020
- ❖ Presented a paper titled “Electric vehicle using solar panel and lead acid battery and fuel cell”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3
- ❖ Presented a paper titled “Smart Electric Vehicle”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3
- ❖ Presented a paper titled “Design and fabrication of E-bike using lithium ion battery and solar”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3

Mr.M.Muthukumaran, Assistant Professor

- ❖ Presented a paper titled “Modelling and Simulation of Regenerative Braking of BLDC Motor in Electric vehicle using Fuzzy Logic Controller”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3

Ms.D.Nalini, Assistant Professor

- ❖ Presented a paper titled “Automatic Concrete Rebar Tying Machine”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3
- ❖ Presented a paper titled “Automatic Bell Ringing System”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3
- ❖ Presented a paper titled “Automatic Mushroom Monitoring Using IoT”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3

Ms.S.Swathy, Assistant Professor

- ❖ Presented a paper titled “Design and Implementation of Bi-Directional DC-DC Converter for Energy Storage System”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3
- ❖ Presented a paper titled “Street light control system using sun tracking solar panel”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3

Mr.C.S.Sundar Ganesh, Assistant Professor

- ❖ Presented a paper titled “Intelligent Accident Tracking System”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3
- ❖ Presented a paper titled “A Survey On Ash Handling System”, in International Conference on Advances and Developments in Electrical and Electronics Engineering, at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3
- ❖ Presented a paper titled “Smart Irrigation System Using Solar Power”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3

Ms. R.Vidyalakshmi, Assistant Professor

- ❖ Presented a paper titled “Solar Monitoring Using IoT”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3
- ❖ Presented a paper titled “Bluetooth Control Grass Cutter Using Solar Power”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3

Ms. A.Anci Manon Mary, Assistant Professor

- ❖ Presented a paper titled “Early determination of error residual blocks for video coding”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3
- ❖ Presented a paper titled “Smart Forest System”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3

Mr. T.Gowtham Raj, Assistant Professor

- ❖ Presented a paper titled “asymmetric cascaded multilevel inverter using two unequal DC sources by fuzzy controller”, in International Conference on Advances and Developments in Electrical and

Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3

- ❖ Presented a paper titled “Ultrasonic Blind Stick With GPS Tracking System”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3
- ❖ Presented a paper titled “Smart Electric Vehicle”, in International Conference on Advances and Developments in Electrical and Electronics Engineering at Karpagam College of Engineering, Coimbatore from 6th to 7th Feb 2020, ISBN: 978-93-5396-147-3

Seminar / Workshop / FDPs / STTPs – Presented / Attended

- ❖ Dr.C.R.Balamurugan, Professor attended AICTE Recognized Faculty Development Programme on Outcome Based Curriculum Design at NITTTR, Chandigarh, from 1st to 5th June 2020.
- ❖ Dr.C.R.Balamurugan, Professor attended FDP on Explore electrical engineering in industrial applications at Manakula vinayagar institute of technology, Salem, from 15th to 19th June 2020
- ❖ Dr.C.R.Balamurugan, Professor attended FDP on Energy management systems at RMD engineering college, Chennai, from 8th to 13th June 2020
- ❖ Dr.C.R.Balamurugan, Professor attended FDP on E content development at AMET, Chennai, from 12th to 15th June 2020
- ❖ Dr.C.R.Balamurugan, Professor attended FDP on Gas turbine design and development at Lakireddy bali reddy college of engineering, Andhra Pradesh, from 14th to 16th June 2020
- ❖ Dr.C.R.Balamurugan, Professor attended AICTE Recognized Faculty Development Programme on Cyber security at NITTTR, Chandigarh, from 8th to 19th June 2020
- ❖ Dr.T.Ram Mohan, Professor attended FDP on Renewable Energy technologies, integration to power grid and E-vehicle at Sairam institute of technology, Chennai from 28th to 1st July 2020.
- ❖ Dr.T.Ram Mohan, Professor attended FDP on Virtual training for renewable energy systems at S.A Engineering college, Chennai, from 28th to 30th June 2020
- ❖ Dr.G.Venkatesan, Professor attended FDP on Teaching and Learning for Accreditation in Technical Education at NITTR, Chandigarh from 27th April to 1st May 2020
- ❖ Dr.G.Venkatesan, Professor attended FDP on Technological Advancement in Power System Control, Power Controllers, Drives & E-Vehicles at N.G.P. Institute of Technology, Coimbatore from 27th April to 1st May 2020
- ❖ Dr.G.Venkatesan, Professor attended FDP on Electric Vehicle Technology at IEEE - Madras Section from 6th to 9th May 2020
- ❖ Dr.G.Venkatesan, Professor attended FDP on Research challenges and innovations in renewable energy systems at Aarupadaiveedu institute of technology, Chennai from 1st to 6th May 2020
- ❖ Dr.S.Sivasubramanian, Professor attended AICTE Recognized Faculty Development Programme on Internet of Things at NITTTR, Chandigarh from 15th to 19th April 2020
- ❖ Dr.S.Sivasubramanian, Professor attended AICTE Recognized Faculty Development Programme on Curriculum Implementation at NITTTR, Chandigarh from 20th to 24th April 2020
- ❖ Dr.S.Sivasubramanian, Professor attended AICTE Recognized Faculty Development Programme on Teaching and Learning for Accreditation in Technical Education at NITTTR, Chandigarh from 27th April to 1st May 2020
- ❖ Dr.S.Sivasubramanian, Professor attended AICTE Recognized Faculty Development Programme on Academic Leadership in Technical Institutions at NITTTR, Chandigarh from 4th April to 8th May 2020
- ❖ Dr.S.Sivasubramanian, Professor attended ATAL Faculty Development Programme on IoT: Introduction and Applications at AICTE & MANIT from 4th April to 8th May 2020

- ❖ Dr.S.Sivasubramanian, Professor attended on Effective Project Proposal Writing at Vellammal Engineering College, Chennai from 8th to 9th May 2020
- ❖ Dr.S.Sivasubramanian, Professor attended AICTE Recognized Faculty Development Programme on Leadership and Team Work for performance Excellence at NITTTR, Chandigarh from 18th May to 22nd May 2020
- ❖ Dr.S.Sivasubramanian, Professor attended AICTE Recognized Faculty Development Programme on Programme on Evaluation & Setting of Question Papers at NITTTR, Chandigarh from 25th to 29th May 2020
- ❖ Dr.V.Tamilselvan, Professor attended AICTE Recognized Faculty Development Programme on Curriculum Implementation at NITTTR, Chandigarh from 20th to 24th April 2020
- ❖ Dr.V.Tamilselvan, Professor attended AICTE Recognized Faculty Development Programme on Academic Leadership in Technical Institutions at NITTTR, Chandigarh from 4th April to 8th May 2020
- ❖ Dr.V.Tamilselvan, Professor attended AICTE Recognized Faculty Development Programme on Academic Leadership in Technical Institutions at NITTTR, Chandigarh from 4th April to 8th May 2020
- ❖ Dr.V.Tamilselvan, Professor attended Atal FDP on Artificial Intelligence at MSME -Technology Development Centre (PPDC) Meerut from 11th to 15th May 2020
- ❖ Dr.V.Tamilselvan, Professor attended Faculty Development Programme MATLAB Programming at NITTTR, Chandigarh from 11th to 15th May 2020
- ❖ Dr.T.Gopalakrishnan, Professor attended Faculty Development Programme on 8051 Microcontroller and its Applications at NITTTR, Chandigarh from 27th April to 1st May 2020
- ❖ Dr.T.Gopalakrishnan, Professor attended One Day Online Workshop on Enhancing Research Communication Skills through ScienceDirect and Mendeley at Dayalbagh Educational Institute, Agra on 3rd May 2020
- ❖ Dr.T.Gopalakrishnan, Professor FDP on IoT: Introduction and Applications at ATAL, New Delhi from 4th to 8th May 2020
- ❖ Dr,Meenu D Nair, Associate Professor attended AICTE Recognized Faculty Development Programme on Curriculum Implementation at NITTTR, Chandigarh from 20th to 24th April 2020
- ❖ Dr,Meenu D Nair, Associate Professor attended AICTE Recognized Faculty Development Programme on Academic Leadership in Technical Institutions at NITTTR, Chandigarh from 4th April to 8th May 2020
- ❖ Dr,Meenu D Nair, Associate Professor attended AICTE Recognized Faculty Development Programme on Academic Leadership in Technical Institutions at NITTTR, Chandigarh from 4th April to 8th May 2020
- ❖ Dr,Meenu D Nair, Associate Professor attended ATAL online FDP on IoT:Introduction and Applications at AICTE & MANIT from 30th April to 3rd May 2020
- ❖ Dr,Meenu D Nair, Associate Professor attended FDP on Electric vehicles: new trends and technologies at ABES engineering college from 22nd to 26th June 2020
- ❖ Mr.A.Nagarajan, Assistant Professor attended AICTE Recognized Faculty Development Programme on Teaching and Learning for Accreditation in Technical Education at NITTTR, Chandigarh from 27th April to 1st May 2020
- ❖ Mr.A.Nagarajan, Assistant Professor attended Faculty Development Programme MATLAB Programming at NITTTR, Chandigarh from 11th to 15th May 2020
- ❖ Mr.A.Charles, Assistant Professor attended Faculty Development Programme MATLAB Programming at NITTTR, Chandigarh from 11th to 15th May 2020
- ❖ Mr.A.Charles, Assistant Professor attended FDP on Evaluation and Setting of Question Papers at NITTTR, Chandigarh on 25th May 2020
- ❖ Mr.A.Charles, Assistant Professor attended FDP on Emerging Technologies in Robotics at Malla Reddy Engineering College, Andhara Pradesh on 26th May 2020
- ❖ Mr.M.Sivaramkrishnan, Assistant Professor attended three days online research methodology workshop organised by REST society for research international from 12th to 14th April 2020.
- ❖ Mr.M.Sivaramkrishnan, Assistant Professor attended Online workshop on Research Methodology Workshop at REST Society for Research International from 12th to 14th April 2020

- ❖ Mr.M.Sivaramkrishnan, Assistant Professor attended Online workshop on Multi Criteria Decision Making Workshop at REST Society for Research International from 23rd to 26th April 2020
- ❖ Mr.M.Sivaramkrishnan, Assistant Professor attended Online workshop on Basic Optimization Technology Workshop at REST Society for Research International from 4th to 6th May 2020
- ❖ Mr.M.Sivaramkrishnan, Assistant Professor attended FDP on Challenges and Innovations in Electrical Engineering Systems at Karpagam college of engineering from 9th to 13th June 2020
- ❖ Mr.M.Muthukumaran, Assistant Professor attended Workshop on Energy Audit and Management at Karpagam College of Engineering, Coimbatore on 25th January 2020
- ❖ Mr.M.Muthukumaran, Assistant Professor attended FDP on Research Innovative and Recent Trends in Electrical Engineering at Easwari Engineering College, Chennai from 18th to 22nd May 2020
- ❖ Mr.M.Muthukumaran, Assistant Professor attended FDP on Research Innovative and Recent Trends in Electrical Engineering at Easwari Engineering College, Chennai from 18th to 22nd May 2020
- ❖ Mr.M.Muthukumaran, Assistant Professor attended FDP on Challenges and Innovations in Electrical Engineering at Karpagam College of Engineering, Coimbatore from 9th to 13th June 2020
- ❖ Ms.D.Nalini, Assistant Professor attended Online FDP on Technological Advancements in Power System control and Power Controllers, Drives & E-Vehicle - Tappad 2020 at Dr.N.G.P College of Technology, Coimbatore from 27th April to 1st May 2020
- ❖ Mr.P.Gajendran, Assistant Professor attended STC on Teaching and Learning for Accreditation in Technical Education at NITTTR Chandigarh from 27th April to 1st May 2020
- ❖ Mr.P.Gajendran, Assistant Professor attended STC on Research Oriented Project Work at NITTTR Chandigarh from 11th to 15th May 2020
- ❖ Mr.P.Gajendran, Assistant Professor attended STC on Big Data Analytics from 18th to 22nd May 2020
- ❖ Mr.P.Gajendran, Assistant Professor attended FDP on LaTeX at CMR Engineering College, Telangana from 1st to 5th June 2020
- ❖ Mr.P.Gajendran, Assistant Professor attended FDP on Moodle Learning Management System(LMS) at JNTUH College of Engineering, Telangana from 10th to 15th June 2020
- ❖ Mr.P.Gajendran, Assistant Professor FDP on Electric Vehicles EV-2020 at MIT, Chennai from 11th to 15th June 2020
- ❖ Mr.P.Gajendran, Assistant Professor attended FDP on Industrial Relevance of Electrical Engineering at Malla Reddy Engineering College, Andhara Pradesh from 15th to 20th June 2020
- ❖ Mr.P.Gajendran, Assistant Professor attended FDP on ETAP Software at KSRM College of Engineering from 25th to 29th June 2020
- ❖ Ms.P.S.Sumy, Assistant Professor attended FDP on Power Electronics Applications in Smart Grid and Electric Vehicles at Santhiram Engineering College from 26th to 31st May 2020
- ❖ Mr.S.Sajeesh, Assistant Professor attended FDP on Research Avenue in Smart power grid Technologies at Government College of Technology, Coimbatore from 28th to 30th May 2020
- ❖ Mr.P.Jeevananthan, Assistant Professor attended Workshop on 10Day free online workshop for teachers at UTA from 21st to 30th April 2020
- ❖ Mr.P.Jeevananthan, Assistant Professor attended FDP on Digital education tool for engineers at University of Madras from 18th to 20th June 2020
- ❖ Mr.P.Jeevananthan, Assistant Professor attended FDP on Energy Management Systems at RMD Engineering College from 8th to 13th June 2020
- ❖ Mr.P.Jeevananthan, Assistant Professor attended FDP on Challenges and Innovations in Electrical Engineering Systems at Karpagam College of Engineering, Coimbatore from 9th to 13th June 2020
- ❖ Mr.P.Jeevananthan, Assistant Professor attended FDP on Digital Image Processing with Research Methodology at Kalasalingam Academy Research and Institution from 15th to 19th June 2020
- ❖ Mr.C.S.Sundar Ganesh, Assistant Professor attended Faculty Development Programme on 8051 Microcontroller and its Applications at NITTTR, Chandigarh from 27th April to 1st May 2020
- ❖ Mr.C.S.Sundar Ganesh, Assistant Professor attended online Faculty Development Program on Research Ideas & Performance Analysis of Switched Reluctance Motor Using MagNet Software at Jerusalem College of Engineering, Chennai from 13th to 14th May 2020

- ❖ Mr.C.S.Sundar Ganesh, Assistant Professor attended FDP on Artificial Neural Networks and Fuzzy logic at NITTR Chandigarh from 22nd to 26th June 2020
- ❖ Ms.R.Vidyalakshmi, Assistant Professor attended AICTE Recognized Faculty Development Programme on Teaching and Learning for Accreditation in Technical Education at NITTTR, Chandigarh from 27th April to 1st May 2020
- ❖ Ms.R.Vidyalakshmi, Assistant Professor attended online AICTE Faculty Development Program on Internet of Things at IIIT Nagpur from 7th to 11th May 2020
- ❖ Ms.R.Vidyalakshmi, Assistant Professor attended FDP on Power Electronic Converter for Renewable Energy Resources at Kalasalingam Academy Research and Institution from 27th May to 2nd June 2020
- ❖ Ms.R.Vidyalakshmi, Assistant Professor attended FDP on Challenges and Innovations in Electrical Engineering at Karpagam College of Engineering from 9th to 13th June 2020
- ❖ Ms.R.Vidyalakshmi, Assistant Professor attended FDP on Robotics and Automation at Mohammed Sathak AJ college of Engineering, Chennai from 25th to 27th June 2020
- ❖ Ms.A.Anci Manon Mary, Assistant Professor attended online AICTE Faculty Development Program on Data Science at IIIT Nagpur from 28th March to 2nd April 2020
- ❖ Ms.A.Anci Manon Mary, Assistant Professor attended online Faculty Development Program on Artificial Intelligence at Motilal National Institute Of Technology, Allahabad from 27th April to 1st May 2020
- ❖ Ms.A.Anci Manon Mary, Assistant Professor attended online Faculty Development Program on Recent Trends in Electronics and Communication Engineering at JB Institute of Engineering and Technology, Andhra Pradesh from 26th April to 2nd May 2020
- ❖ Ms.A.Anci Manon Mary, Assistant Professor attended online workshop on Free MOOC to Complement Engineering Education at IEEE Bangalore Section Researchers Forum on 13th May 2020
- ❖ Ms.A.Anci Manon Mary, Assistant Professor attended online Hands on Faculty development program on Advance Technologies in IT at Vidyalankar Institute of Technology, Mumbai from 9th to 12th May 2020
- ❖ Ms.A.Anci Manon Mary, Assistant Professor attended STTP on Advanced Power System Simulation Software's at SSN College of engineering, Chennai from 25th to 27th June 2020
- ❖ Ms.A.Anci Manon Mary, Assistant Professor attended FDP on Challenges and Innovations in Electrical Engineering at Karpagam College of Engineering, Coimbatore from 9th to 13th June 2020
- ❖ Mr.T.Gowtham Raj, Assistant Professor attended online Faculty development program on COVID-19 pandemic strategies for effective work life balance of academicians at Karpagam College of Engineering, Coimbatore from 4th to 8th May 2020

Student Activities

Extra-curricular Activities

- ❖ Chandru Gowtham from III EEE participated and won first place in English Debate at Karpagam College of Engineering, Coimbatore on 07.02.2020
- ❖ Ranjith Kumar M from III EEE participated and won Second place in English Debate at Karpagam College of Engineering, Coimbatore on 07.02.2020
- ❖ Anuja from III EEE participated and won first place in Essay Writing at Karpagam College of Engineering, Coimbatore on 07.02.2020
- ❖ Ranjith Kumar M III EEE participated and won second place in Essay Writing at Karpagam College of Engineering, Coimbatore on 07.02.2020
- ❖ Jeevitha S from II EEE participated and won first place in Tik Tok Contest at Karpagam College of Engineering, Coimbatore on 13.04.2020.
- ❖ Athira Soundar from II EEE participated and won first place in Tik Tok Contest at Karpagam College of Engineering, Coimbatore on 13.04.2020

- ❖ Harinesan S from II EEE participated and won second place in Tik Tok Contest at Karpagam College of Engineering, Coimbatore on 13.04.2020.
- ❖ Harris Joshua S from II EEE participated and won second place in Tik Tok Contest at Karpagam College of Engineering, Coimbatore on 13.04.2020

The Editorial Board:

- 1) Chief Editor : Dr. C. R. Balamurugan, Professor and Head
- 2) Editor : Dr. Meenu. D. Nair, Associate Professor
- 3) Faculty Coordinator : Mrs. A. Anci Manon Mary, Assistant Professor
- 4) Student Council :
 - Mr. Kathir. M (IV EEEA)
 - Ms. Abinaya. S (IV EEEB)
 - Mr. Dhinesh Kumar. A (III EEE A)
 - Ms. Janani Preethi. R (III EEEB)
 - Mr. Sabarish Shetty.G (II EEEA)
 - Ms. Gayathri. S.Y (II EEE B)

