SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY SCHOOL OF ELECTRICAL AND ELECTRONICS DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING EVENTS



The Institute of Engineers (India), Kancheepuram local center, in association with the department of Electrical and Electronics Engineering, Sathyabama IEI student chapter, organised a sponsered workshop on Awareness on Energy Mangement and Audit on 17/07/2023 and 18/07/2023 for II year 2022-2026 and III year 2021-2025 EEE students. Er.G.Rajaganesan Director (Technical), VATIO Energy India Pvt.Ltd delivered a seminar Energy Management and Audit.



Department of Electrical and Electronics conducted a Faculty Development Program (FDP) on Electric Vehicles was conducted for sixdays, from 03.07.2023 to 08.07.2023. The e program provided participants with a comprehensive understanding of the various features of electric vehicles and their impact on sustainable transportation systems. The course delved into topics such as EV technology, Autonomous Electric Vehicles, Wireless Charger, Battery Management, Power Converters for Electric Vehicles, Applications of IoT in Electric Vehicles, and the integration of renewable energy sources.





School of Electrical and Electronics
Department of Electrical and Electronics Engineering

Faculty Developement Programme

Ethical Considerations in ChatGPT: Navigating the Boundaries of AI Interactio

01.07.2023

Time: 9.00 AM TO 12.00 NOON

CLICK HERE FOR REGISTRATION

https://forms.gle/YDNZYGFMCb8EqNyR7

Patrons:

Dr. Mariazeena Johnson, Chancellor Dr. Marie Johnson, President

Mr. J. Arul Selvan Vice President Ms. Maria Bernadette Tamilarasi

Vice President Ms. Maria Catherine Jayapriya

Vice President Dr. T. Sasiprabha Vice Chancellor Venue: Power Electronics Lab EEE 2nd Floor

Dr.N.M.Nandhitha,
Prof & Dean/School of EE
Dr. S. Radhika
Associate Professor & Head/EEE
Dr.V.Sivachidambaranathan,
Prof/EEE & HoD/IEC

Dr. W. Abitha Memala,
Associate Professor/EEE
Dr. M. Pushpavalli,
Assistant Professor/EEE
Dr. C. Bhuvaneswari,

Assistant Professor/EEE
Dr. D. N. S. Ravi Kumar,
Associate Professor/EEE







Department of Electrical and Electronics conducted a FDP on the topic "Ethical Considerations in ChatGPT: Navigating the Boundaries of AI Interaction on 01.07.23. This FDP provided the description of training and fine-tuning ChatGPT for research purposes, as well as an explanation of AI tools such as ExplainPaper, ChatDoc, and Elicit. It also dealt with the power of conversational AI with ChatGPT making it a versatile chatbot for various domains such as real-time AI voice changer, video BG remover tool, noise remover tool.









Department of Electrical and Electronics Engineering organized a Certificate Program on International Yoga Day 2023 on 21st June 2023 for the III Year (Batch:2021–2025) and the IV Year (Batch:2020–2024) EEE students. Dr.L.Prasanna Venkatesh, Assistant Professor, Department of Mathematics and Dr.V.Balamurugan, Associate Professor, Department of Electronics and Communication, Sathyabama Institute of Science and Technology, Chennai conducted various asanas which encouraged our students to become more aware of body, mind, and environment. The students gave remarkable feed back about the event.

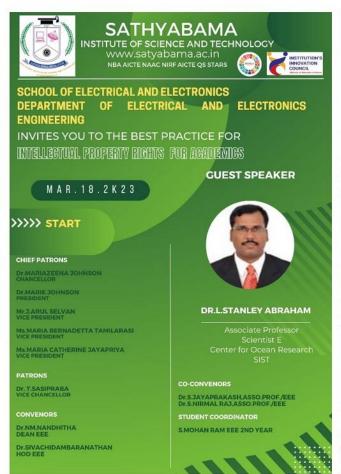








The Faculty Development Program (FDP) on "Crafting Business Models and Lean Startup" was conducted on 24.06.2023. The program aimed to equip participants, primarily faculty members from various departments, with essential knowledge and practical insights into designing effective business models and implementing lean startup principles. The FDP provided a platform for sharing experiences, discussing best practices, and fostering an interactive learning environment. Participants gained practical skills to foster innovation, entrepreneurship, and customer-centricity. By adopting an iterative and lean approach, participants are now better equipped to develop and refine startup ideas, create viable business models, and navigate the challenges of the dynamic business landscape.









Department of Electrical and Electronics Enginnering organised a seminar on Intellectual Property Rights for Academics on 18th March 2023 for II Year 2021–2025 and III Year 2020–2024 EEE students. Dr.Stanley Abraham, Associate Professor, Scientist E, Centre for Ocean Research, Sathyabama Institute of Science and Rechnology, Chennai delivered the seminar on the importance of filling a patent for the academic research works.







The Institute of Engineers (India), Kancheepuram local center, in association with the Department of Electrical and Electronics Engineering, Sathyabama IEI Student Chapter, organised a seminar on Design of Controller for Unified Power Flow Conditioner on 16.02.23 for II Year 2021–2025 and III Year 2020–2024 EEE students. Dr.N B.Muthu Selvan, Associate Professor, Department of EEE, S.S.N College of Engineering, Chennai, delivered the seminar on designing an UPFC for analysing the power quality on transmission lines in abnormal conditions.



chool of Electrical and Electronics

Department of Electrical and Electronics Engineering

Hands on Training **Electric Drives and Electric Vehicles** Chief Patrons Dr. Mariazeena Johnson Dr. Marie Johnson President Mr. J. Arul Selvan , Vice President Ms. Maria Bernadette Tamilarasi Johnson, Vice President Ms. Maria Catherine Jayapriya, Vice President Organizers and Resource Persons Dr.T. Sasipraba Dr. V. Senthil Nayagam Vice Chancellor Dr. M. Kavitha Dr. N. M. Nandhitha Dr. A. Rameshbabu Prof. & Dean, So EE Dr. J. Barnabas Paul Glady Dr. V. Sivachidambaranathan Prof. & Head, Dept. of EEE Registration Details: No Registration Fee! Dates: 08.02.2023 to 10.02.2023 k: https://forms.gle/ANL2cGA6WJ8eUBK76 ertificates.will be provided for all participants









Department of Electrical and Electronics Engineering conducted a Three days workshop on the topic "Electric Drives and Electric Vehicle" from 08.02.23 to 10.02.23, in which 40 participants have participated. The workshop mainly focused on Hands on training on electric drives and electric vehicle for the students to upgrade their knowledge in recent trends on electric vehicle. Resource persons from EEE Department are presented various innovative topics relating to the title. The Workshop received good and positive feedback from the participants.

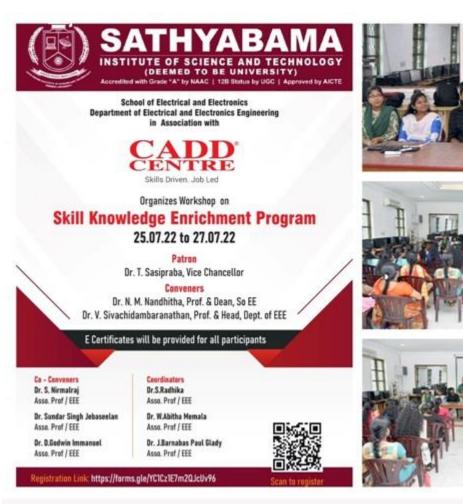


Department of Electrical and Electronics Engineering, Sathyabama Institute of Science and Technology, Chennai organized a two days Hands on Training Program on Python Boot Camp – Part2 on 28th and 29th of November 2022. Our first year students participated in this program and gained hands on experience in advanced domains like web applications, Digital Image Processing, GUI application, Artificial intelligence, Machine Learning and Games.



Webinar on Carrier Opportunities for Engineers in Shipping Industry

Department of Electrical and Electronics orgnazied a online webinar on Carrier Opportunities for Engineers in Shipping Industry on 29th July 2022. Mr. A. Cross Michael, Electrical Engineer, Maersk Line, Denmark and Mr. J.T.V. Berdin, Electrical Engineer, Fleet Management, Mumbai, India deleivered a prersentation on job opportunities in shipping industry. Our EEE Final year students participated in this event and gained knowledge about job opportunities in shipping industries and the requirements to seek job in various shipping industries.





Department of Electrical and Electronics in association with CAAD Center, Chennai orgnazied a three days Workshop on Skill Knowledge Enrichment Program from 25th July 2022 to 27thJuly 2022. This workshop provided a hands-on experience in electrical circuit design using AutoCAD. Our EEE final year and third year students participated in this event and gained hands on experience in AutoCAD tools.







Workshop on "Realize your industry 4.0 projects using IoT from scratch"

Department of Electrical and Electronics in association with EmCog Solutions, Chennai orgnazied a Workshop on Realize your industry 4.0 projects using IoT from scratch on 8th July 2022. This workshop provided knowledge to capture the pulse of the scenario that is prevailing in the field of IoT. Our Final year EEE students participated in this event and gained hands-on experience with the recent tools of IoT which will help the participants to pursue research and Innovation.



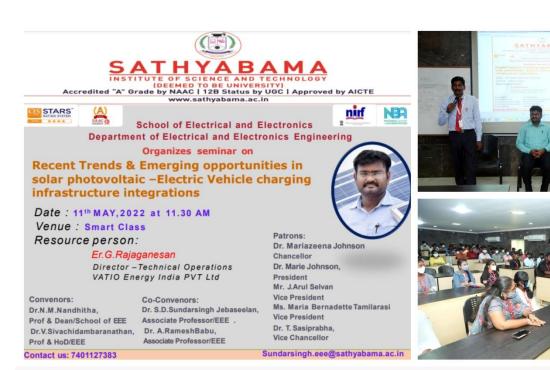


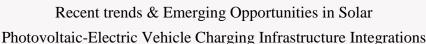




Sustainable Charging Technologies for Electric vehicles

The Institution of Engineers (India) Tamil Nadu State Centre jointly with Kacheepuram Local Centre organized an Asia Book of Records attempt in conducting a 100 Hours IEI-TNSC Techno Carnival at Sathyabama Institute of Science and Technology on 12 th May 2022. Dr.A Ramesh babu delivered a talk on the importance of Electric Vehicles. He has also shed light on the Power sources of EV, and the different types of motor present in them. Dr.V.Sivachidambaranathan Professor and Head of EEE Department delivered a speech on various charging methods of EV such as Battery exchange, wireless charging and conductive charging. Overall the seminar enriched the students knowledge in EVs and sustainable charging stations and recieved positive feedbacks from the participants





Department of Electrical and Electronics Engineering organized a seminar titled "Recent trends & Emerging Opportunities in Solar Photovoltaic-Electric Vehicle Charging Infrastructure Integrations" on 11th May 2022. Mr.G.Rajaganesan Director, Technical operations VATIO Energy INDIA PVT Ltd delivered a PPT presentation on solar photovoltaic-electric vehicle. The seminar gave the students an insight on the different types of Evs which include BEVs, PHEVs, HEVs and different methods of charging them . It also provided information about photovoltaic (PV) cells, hybrid charging station, types of charging ports and setting up of the charging stations.it was a very informative and interactive seminar which obtained positive feedback from participants.



Industrial Automation

Department of EEE organized a webinar titled "Industrial Automation" on 30/4/2021. Mr. N.Gopalan, Expert in the field of PLC and SCADA has delivered a talk to the students with relevant pictures / videos on 30 th April, 2022. More than 100 students participated form EEE department. The need for automation, real time implementation in industry with PLC and SCADA were covered in this session. The students have got clear idea about the needs of Industrial Automation. Also they have got an idea about the functions of PLC and SCADA in the real time applications.





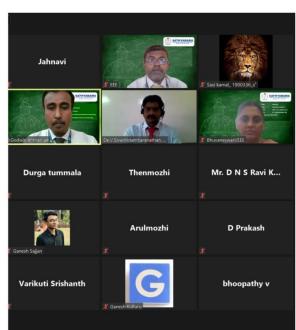


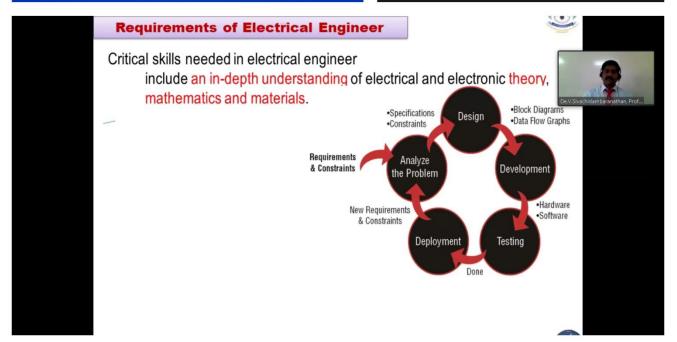
The Role of Engineering Innovations for Industry 4.0

The institution of Engineers -India (IEI) in association with Sathyabama Institute of Science and Technology organized a seminar in commemoration of Word Engineering Day on 4th MARCH 2022. Dr.V. Sivachidambaranathan Professor and Head of EEE Department delivered a talk on "The Role of Engineering Innovations for Industry 4.0". The session was highly informative. The significance of the course on Industry 4.0 was detailed. All the participants were able to gain awareness and knowlede on the current and upcoming industrial innovations. There was a good feedback from participants event side.

CAREER PROGRAM IN ENGINEERING & TECHNOLOGY -ROLE OF ELECTRICAL ENGINEERS:Department of EEE organizing Career Program in Engineering and Technology - Role of Electrical Engineers by Dr.V.Sivachidambaranathan, Dr.A.Ramesh Babu on 3/7/2021.

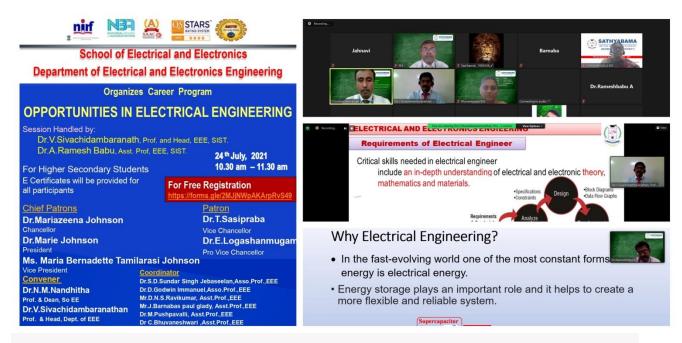






Career program in engineering & technology -role of electrical engineers

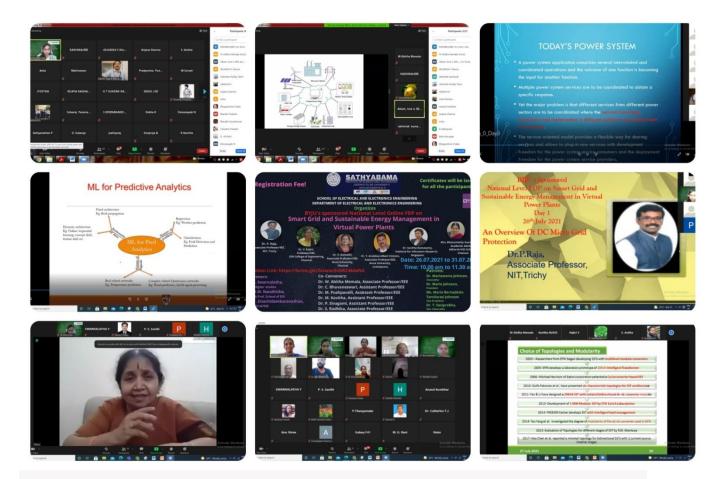
CAREER PROGRAM-"OPPORTUNITIES IN ELECTRICAL ENGINEERING:Department of EEE organizing Career Opportunities in Electrical Engineering by Dr.V.Sivachidambaranathan, Dr.A.Ramesh Babu on 24/7/2021.



Career Program-"Opportunities In Electrical Engineering

SMART GRID AND SUSTAINABLE ENERGY MANAGEMENT IN VIRTUAL POWER

PLANTS:Department of Electrical and Electronics Engineering conducted BYJU's sponsored National Level Faculty Development Program on the topic "Smart Grid and Sustainable Energy Management in Virtual Power Plants" from 26.07.2021 to 31.07.2021, in which 167 participants were benefitted.



Smart Grid and Sustainable Energy Management in Virtual Power Plants

The Department of Electrical and Electronics Engineering conducted a Two Weeks Value Added Course on the topic "Hands on Training inArduino Interface using Tinkercad and Proteus for Real Time Applications "from 23.08.2021 to 16.09.2021 in which 108 students have participated.

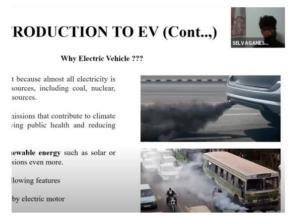


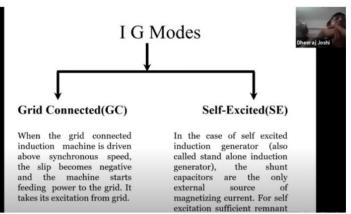
Hands On Training in Arduino Interface Using Tinkercad and Proteus for Real Time Applications

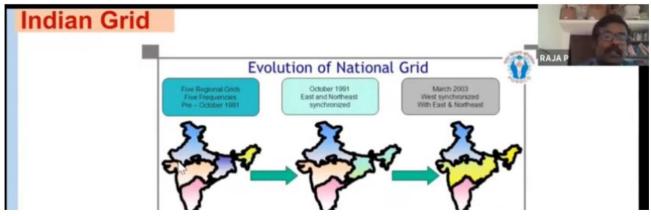
Integration of Green Energy with Smart Power Systems: The Department of Electrical and Electronics Engineering conducted a six days faculty development program on the topic "Integration of Green Energy with Smart Power Systems" from 22.6.20 to 27.6.20, in which 436 participants have participated.











Integration of Green Energy with Smart Power Systems

Solar Photovoltaics: The Department of Electrical and Electronics Engineering conducted fifteen days Industry

Based Internship Program on Solar Photovoltaics from 1.7.20 to 15.7.20, in which 99 participants have

participated.



Solar Photovoltaics

Simulation tools for power electronics and power systems: The Department of EEE in association with PWSIM (SOLUTION FOR ELECTRIFICATION) Faculty Development Program on Simulation tools for power electronics and power systems by Mr.Sampath Kumar Manager (south zone), PWSIM (SOLUTION FOR ELECTRIFICATION from 13/7/2020 to 18/7/2020.



https://www.pwsim.com

Organizes
6 days Faculty Development Programme on
SIMULATION TOOLS FOR POWER ELECTRONICS AND POWER SYSTEMS Date: 13th July 2020 to 18th July 2020

RESOURCE PERSONS:

From PWSIM solutions for electrifications
Day 1&2 (Power Systems): MK. Mounika (M.Tech) & VP B

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-Rs.100(Only charges for resources) can be paid thre:
Indian Bank A/C No: 6132850807, Name: P. Sivagam
niversity Branch, Sholinganallur.

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Convenors: Dr N.M. Nandhitha, Dean/School of EEE Corpus S. Dr. N. M. Harbitta, Deally School of E Dr. Sivachidambaranathan, HOD/FEE Organisers: Mrs. P. Sivagami(9789818578) Mrs. V. Geetha (98406 32432) Mrs. P. Abirami(8637607979) Mrs. M. Pushpavalli(9840410850)

PWSIM Solutions for Electrification

Day-1: Power Electronics

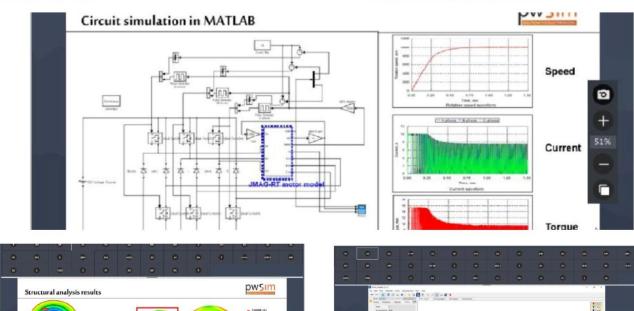
- · Modelling of DC-DCConverters
- Modelling of 3-p VSI FED Induction Motor Drive System with Field Oriented Control
- Maximum Power Point Tracking Using Perturb and ObserveMethod
- · PWM Generator with A/D Converter in Continuous Mode for TI F28335MCU

Day-2: Power Electronics

- · Overview of the SmartCtrlsoftware.
- · Introduction to PowerForgeSoftware
- · Designing of three-phase DC/AC converter (or inverter) inPowerForge

Day-3: Electromagnetics

· Motor Design Concept and Analysis: Fundamental concepts of Electromagnetic Design



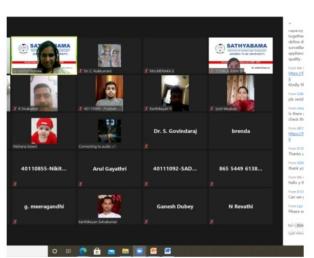


Above plot confirms noise level at 100mm away from

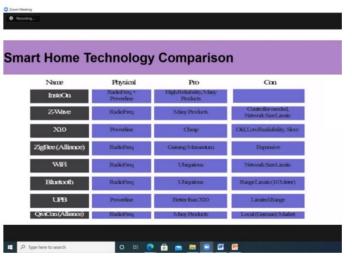
3600Hz.

Emerging Trends in Industrial Automation: The Department of Electrical and Electronics Engineering conducted, AICTE sponsored Webinar on, "Emerging trends in Industrial Automation", from 19.04.2021 to 24.04.2021, in which 90 participants were befitted.



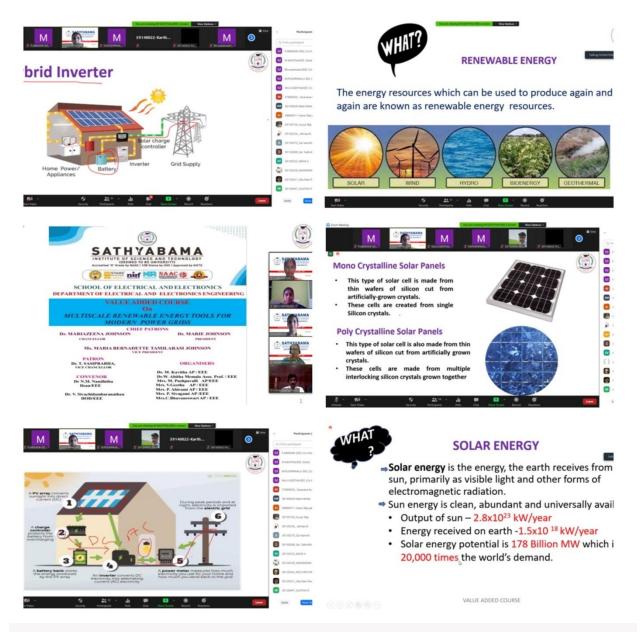






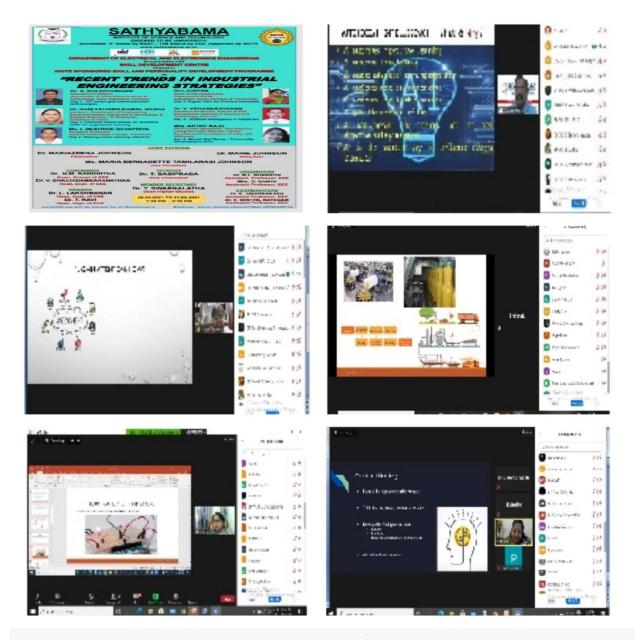
Emerging Trends in Industrial Automation

Multi-Scale Renewable Energy Tools for Modern Power Grids: The Department of EEE organizes VALUE ADDED COURSE ON MULTI-SCALE RENEWABLE ENERGY TOOLS FOR MODERN POWER GRIDS" by Dr. M. Kavitha, Dr W. Abitha Memala, Mrs. C. Bhuvaneswari, Mrs P. Abirami, Mrs P. Sivagami, Mrs M. Pushpavalli and Mrs V. Geetha, Department of EEE from April. 2021 to May 2021.



Multi-Scale Renewable Energy Tools for Modern Power Grids

Recent Trends in Industrial Engineering Strategies:AICTE sponsored skill and personality development programme on "Recent Trends in Industrial Engineering Strategies was organized as a one week programme by the Department of Electrical and Electronics engineering in association with skill development centre.



Multi-Scale Renewable Energy Tools for Modern Power Grids

Guest lecture: The Department of Electrical and Electronics Engineering in association with the Centre for higher studies has organized an international guest lecture for the final year EEE students. The guest lecture was delivered by Professor Anthony A Maciejewski, Head of Electrical and Computer Science Engineering, Colorado State University, Fort Collins on the topic "Study Options in USA for Electrical Engineering".



Guest lecture for Modelling of Mems devices for Next generation Wireless communication Technology

Guest lecture: DST – SERB sponsored compact modelling of mems/ nems devices for next generation wireless communication technologies Dr.Chellapandian, Rtd. scientist, IGCAR, kalpakkam and Mr.Navnit Kumar Kashyap, Senior Principal Design Engineer, Cadence, Bangalore.



TNSCST National level seminar for Faculty members

National Level Seminar: The department of Electrical and Electronics Engineering has conducted the TNSCST Sponsored Three day National Level Seminar on, "Opportunities and Challenges of Renewable Energy in Smart Grid Systems



Hands on training using Matlab Simulink for Final year students

Training Program: The Department of Electrical and Electronics has organized a one day workshop on "Simulation of power electronic convertor using MATLAB Simulink". The students of final year EEE department were benefited in learning simulation of various rectifiers and converters using simulink

National Level Seminar



DST-SERB sponsored National level seminar for Integration of green energy with smart grid through IOT

National Level Seminar: The Department of Electrical and Electronics has organized five days DST – SERB Sponsored National Level Seminar on "INTEGRATION OF GREEN ENERGY WITH SMART GRID THROUGH IOT". This Seminar helps the faculty members and Research Scholars to gain knowledge in the field of Power Systems and Power Electronics. It helps to carry out research in Smart Grid, Renewable Energy Resources like Solar, Wind and Integration of Smart Grid with Renewable Energy and IOT.



Workshop organized exclusively with hands on training for TIVA processor used in IOT Application

Hands on Training: The Department of Electrical and Electronics has organized five days Hands on Training "TIVA processor used in IOT Application". This Seminar helps the faculty members and Research Scholars to gain knowledge in the field of TIVA Processor coding and real time connection Internet. It helps to carry out research in ROBOTIC and IOT.