VISHNU
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ELECTRICAL & ELECTRONICS ENGINEERING

NEWS LETTER

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VISION OF THE DEPARTMENT

To be recognized as a Centre of Excellence in the field of Education and Research so as to produce Competent & Ethical Engineers capable enough to contribute to the society.

MISSION OF THE DEPARTMENT

- To develop innovative, efficient and proficient electrical engineers.
- To keep the curriculum industry friendly, with due regard to the University curriculum.
- To be a place for innovative blended learning and entrepreneurship development in multi-disciplinary areas.
- To promote ethical and moral values among the students so as to make them emerge as responsible professionals.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

PEO.1: To produce Electrical and Electronics Engineering graduates who have strong foundation in Mathematics, Sciences and Basic Engineering.

PEO.2: To provide intensive training in problem solving, laboratory skills and design skills to use modern engineering tools through higher education and research.

PEO.3: Ability to pursue higher studies and to seek employment in a variety of engineering technology positions and work successfully in their chosen career aspirations and generate entrepreneurs

PEO.4: To inculcate in students professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, and an ability to relate engineering issues to broader social context through life-long learning.

VISHNU INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

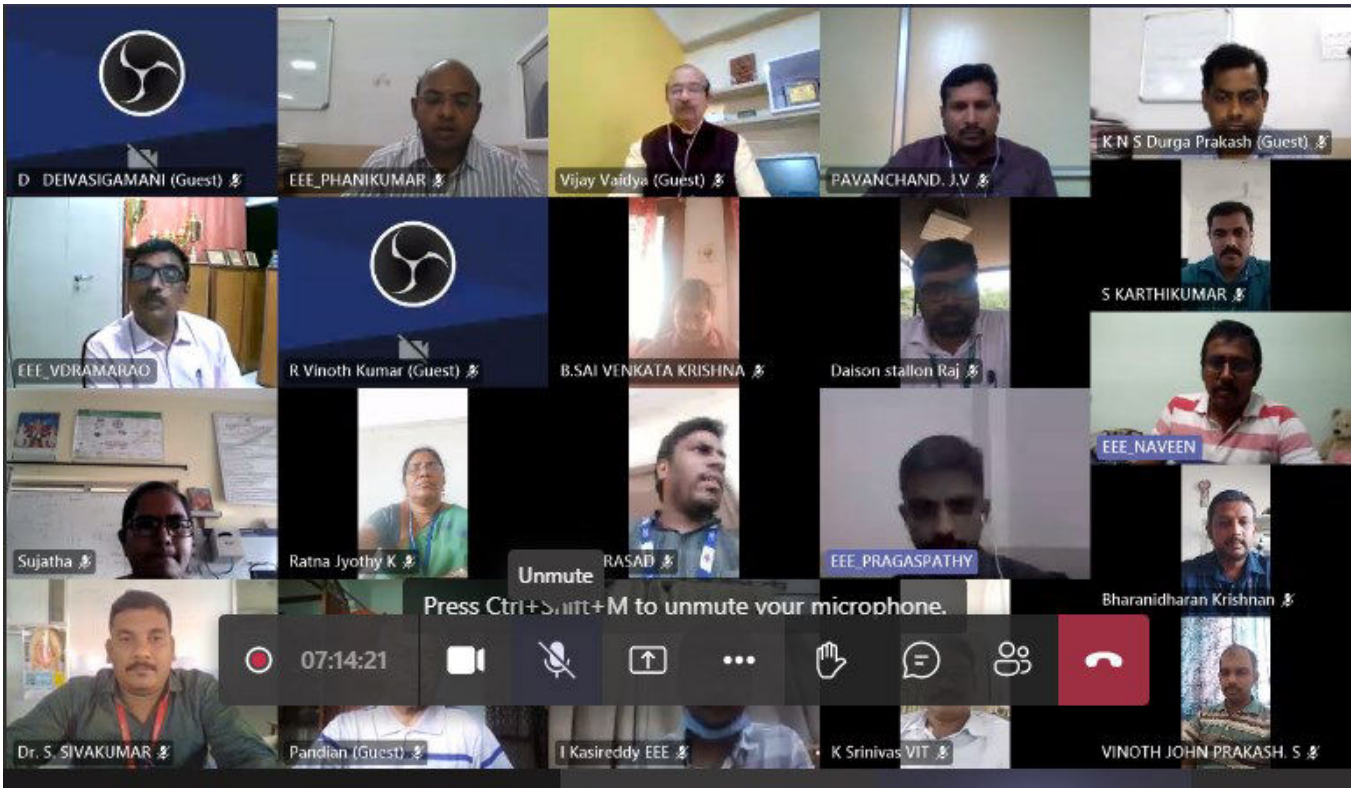
Illuminations

FDP on "Potential Research Trends in Advanced Energy Conversion Technologies & Applications"

Department of Electrical and Electronics Engineering of Vishnu Institute of Technology in collaboration with Centre for Continuing Education, NIT Warangal has Organized 5 Day Online Faculty Development Program on "Potential research trends in advanced energy conversion technologies and applications" from 6th December 2021 to 10th December 2021.

The program was inaugurated in the presence of Prof. N. V. Ramana Rao (Director - NIT Warangal), Dr. D. Suryanarayana (Principal& Director - Vishnu Institute of Technology Bhimavaram), Prof. M. Sailaja Kumari (Head-Electrical Engineering Department - NIT Warangal) and Dr. R. V. D. Rama Rao (Head - Electrical and Electronics Engineering - Vishnu Institute of Technology Bhimavaram). The speakers and experts were invited from the Central Institutes and Industries. The proposed FDP creates a virtual platform to explore the knowledge in the area of electric vehicles, renewable energy sources and advanced power electronic converters etc. A total of 50 participants were enrolled from different regions of the country. The organizing team includes Dr. B. L. Narasimharaju (NIT Warangal),Dr. I. Kasireddy (VIT Bhimavaram) and Dr. S. Pragaspathy (VIT Bhimavaram).

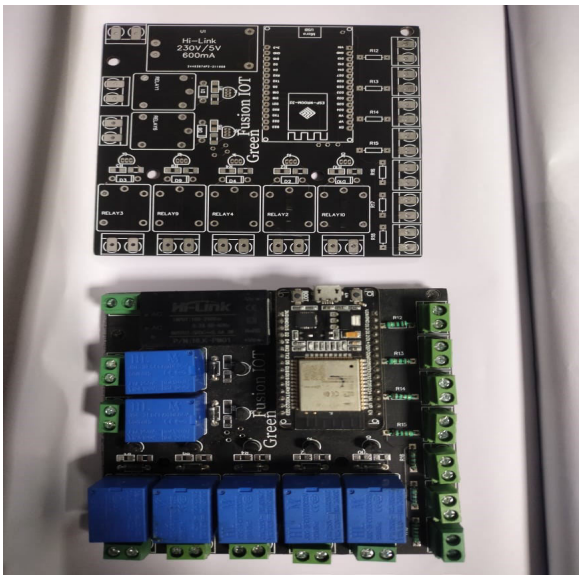
AICTE-ISTE Sponsored 6 Day Induction/Refresher Program On "Integration of Green Energy Resources"



Energy is the driving power behind all economic activities of a country. Subsequently, the ever-increasing populace and associated energy requirements to meet the increasing living standard has become a matter of great apprehension. In particular, the availability of appropriate and sufficient energy resources and off course the development of environmental friendly utilization technologies and the cost of energy have been extremely important factors demanding the immediate attention. The aim of this particular AICTE/ ISTE sponsored Induction/Orientation program conducted on 01-07th February 2022 is to convey the research skills to the faculty mentors and practicing engineers to improve the quality of research in the area of green energy and the technology behind grid integration. A total of 100 participants have joined and this program finally brought a positive renovation among the faculty members towards research work and enables the participants to develop competence in understanding recent advances in the proposed area.

Dr. R.V.D. Rama Rao,Dr. S. Pragaspathy,Mr. Ch. Phani Kumar and Mr. N.S.D. Prakash Korlepara are the coordinators for the program

Real-time Experience on IoT Technologies



Electrical and Electronics Engineering department of Vishnu Institute of Technology has organized a Two-week workshop on "Realtime Experience on IoT Technologies" from 15th April to 28th April and trained 135 students from second year EEE and as a outcome of that a project expo was conducted.

GATE 2023 AWARENESS PROGRAM

Department of Electrical and Electronics Engineering has organized a seminar on "GATE 2023 AWARENESS PROGRAM" On 30th April 2022. The speaker was invited from the ACE academy, Hyderabad. This seminar explores the importance of GATE exam. A total of 450 participants were participated from ECE, Civil, Mechanical and EEE departments of VIT Bhimavaram.

Convenor:Dr.RVDRamaRao

Coordinator : Dr. I Kasireddy

Seminar On Research, Perspectives & Technology Boom In Zero Emission Vehicles

Department of Electrical and Electronics Engineering organized CSIR Sponsored Two Day National Level Seminar on "Research Perspectives and Technology Boom in Zero Emission Vehicles - Global Trends and Indian Status" on 29th and 30th April 2022. Main objective of this seminar is to provide wide knowledge to the faculty members, researchers, students and stakeholders on the needs, importance, contemporary issues, innovation, mission, target and scope of Zero Emission Vehicles (ZEVs) in India and Worldwide as well. In India, considering the demand for fuels and also the aftereffect owing to the consumption of conventional sources of energies may have the destruction for the next generation with no doubts. In this program, the detailed views on the challenges in research, availed job opportunity from the renewable based ZEVs and future targets, role of advanced power converters in application to ZEVs, discussion on similar concepts in associated areas related to reliability and advancement of technology are to be addressed by the subject experts. Total number of participation is 75, which includes 25 Faculty and 50 students from different colleges across the country.

Industrial Visit to Vennar Ceramics Private Limited

Department of Electrical Engineering has organized an industrial visit at Vennar Ceramics Private Limited, Perikigudem Village for 2 nd year students. 84 students along with 6 faculty members visited the Place on above Mention Date.

Vennar Ceramics Limited (VCL) was established in the year 1998 and became a wholly owned subsidiary of APCL in the year 2001. The plant is located at Perikigudem village of Mandavalli mandal in Krishna district. The company has the distinction of being the first gas- based power generating plant in India with a capacity of 2.7 Megawatts. The 3000 KW rated engine has been sourced from Wartsila of Sweden and the generator from A.B.B., France.

Later on due to nonavailability of natural gas the company is forced to stop producing power and in the year 2011 the company established a joint venture with Kajaria Ceramics Ltd for production of Wall Tiles with an investment of more than Rs 70 crore. The plant was successfully comissioned in record time and presently producing more than 7,500 SQMTS per day.

Faculty Publications

- Nasir A.W., Kasireddy I., Tiwari R., Ahmed B.K.I., Furquan A. (2022) Data-Based Tuning of PI Controller for First-order System. In: Bhaumik S., Chattopadhyay S., Chattopadhyay T., Bhattacharya S. (eds) Proceedings of International Conference on Industrial Instrumentation and Control. Lecture Notes in Electrical Engineering, vol 815. Springer, Singapore. https://doi.org/10.1007/978-981-16-7011-4_52
- S. Pragaspathy, RVD Rama Rao, KNSD Prakash, Analysis and Appropriate Choice of Power Converters for EV charging architecture, IEEE ICAIS 2022. (presnted)
- RVD Rama Rao, S Pragaspathy, Enhancement of Electric Power Quality using UPQC with Adaptive Neural Network Model Predictive Control", IEEE ICEARS 2022. (Accepted)

Placements

Company Name	No.of Students placed
NTT Data	01
Presidio	02
Urjanet	01
Zoho	01
DXC	02