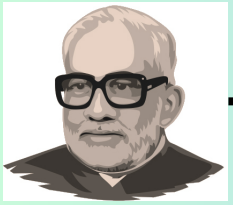
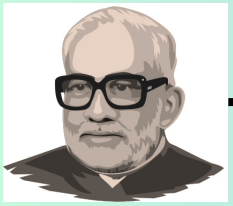


ILLUMINARIES

A.Y 2022-23 ISSUE -2 JUNE- 2023

VISHNU
SVECW
ESTD : 2001
Shri Vishnu Engineering College for Women
(Autonomous)
Vishnupur, Bhimavaram, Andhra Pradesh

TABLE OF CONTENTS



ILLUMINARIES

A.Y - 2022-23 ISSUE - 2 JUNE - 2023

Vision:

"To establish a knowledge hub in the field of Electrical & Electronics Engineering to meet the needs of the society"

Mission:

- **To produce quality Electrical and Electronics Engineers.**
- **To inculcate discipline and ethical values among the students.**
- **To empower students to succeed in higher education and research.**

Editor's MESSAGE:

I am pleased to announce the publishing of the Department of Electrical and Electronics Engineering's newsletter for the first half of 2024. It showcases a range of our staff and students' achievements and activities. Shri Vishnu Engineering College for Women (Autonomous) aims to make students' life brighter by applying their knowledge of flame to make unique shapes.

Student Article

How is Artificial Intelligence used in Electrical Engineering?

The term "artificial intelligence" refers to a wide range of systems designed to mimic how the human brain makes decisions and solves problems. For decades, researchers investigated how various types of artificial intelligence (AI) can be applied to electrical systems. The most commonly used Artificial Intelligence (AI) techniques in electrical engineering like 1) Expert Systems 2) Fuzzy logic Control Systems 3) Machine Learning 4) Artificial Neural Networks and 5) Deep Learning. The application of Artificial Intelligence technologies to power engineering systems has been an active area of research since few decades. As a part of concluding remark, one can focus research on artificial intelligence applications in electrical engineering can be a notable success for the society.

By
T.Greeshma Sri
K.Baby sree

Student Acheivements

R. Lasya Priya(20B01A0290), T. Sravani(20B01A02A2) of 3rd EEE stood first in the Paper Presentation on "Hybrid inverter using Solar Battery Charging" as a part of Nipuna (National level Techno-Management Symposium on interpersonal and Management skills) event conducted on 18th March, 2023 at S.R.K.R Engineering college.

R. Lasya Priya(20B01A0290) of III EEE stood second in the Poster Presentation on "Buzzing Band" as a part of Nipuna (National level Techno-Management Symposium on interpersonal and Management skills) event conducted on 18th March, 2023 at S.R.K.R Engineering college.

accenture

A MAHALAKSHMI
19B01A0202
4.25 lakhs

A.Bhuvaneshwari
19B01A0205
4.25 lakhs

Dulam Harsha Sri
19B01A0220
4.25 lakhs

Bommaraju sai pranathi
19B01A0208
4.25 lakhs

Grandi Bhavya sahiti
19B01A0223
4.25 lakhs

M. Devi Sri
19B01A0267
4.25 lakhs

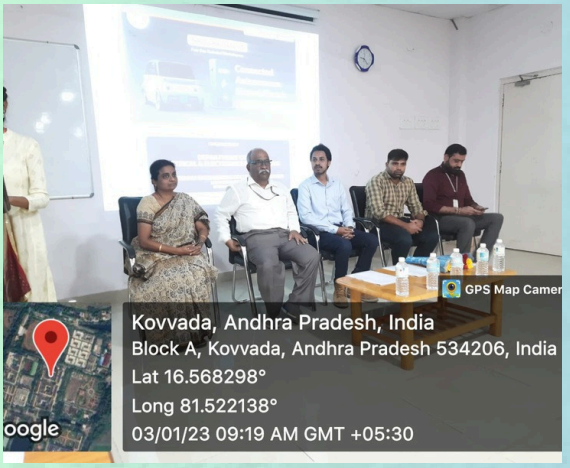
Gudimetla susmitha
19B01A0239
4.25 lakhs

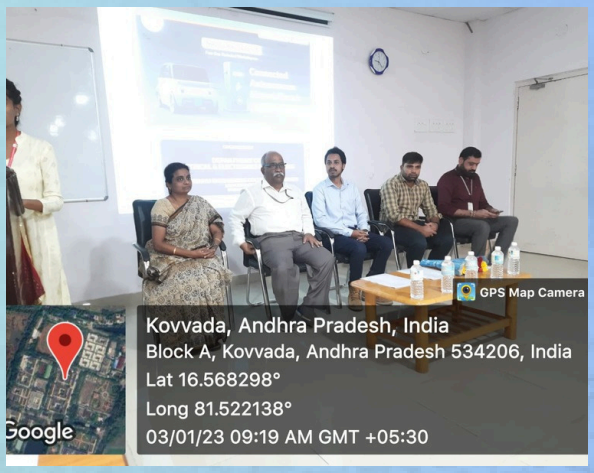
K K S Priyankai
19B01A0260
4.25 lakhs

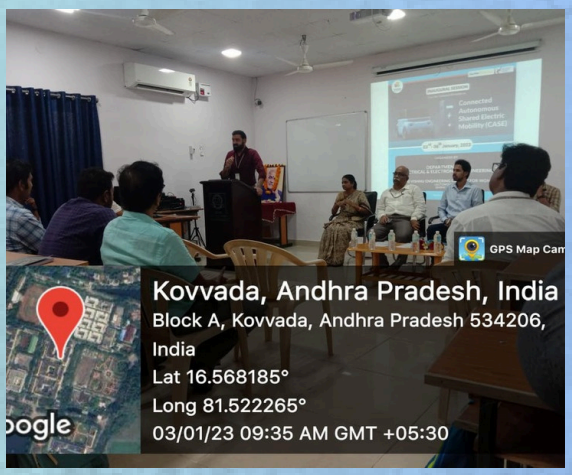
Keerthana bantumillii
19B01A0207
4.25 lakhs

Workshop

CASE Training: Department of EEE has organized a Four-day training on "Connected Autonomous Shared Electric Mobility – (CASE)" during 3rd – 6th Jan 2023 in association with Haritha TechLogix Pvt. Ltd and Institutions Innovation Council (IIC). Resource person Mr. P. Prasanth Kumar, Chief Technical Officer, Electric Mobility Division, Haritha TechLogix Pvt. Ltd., gave overview of the training program and encouraged the students to apply for internships in various automobile companies. He also mentioned that there are plenty of opportunities for the Electrical and Electronics Students in the area of electrical vehicles.







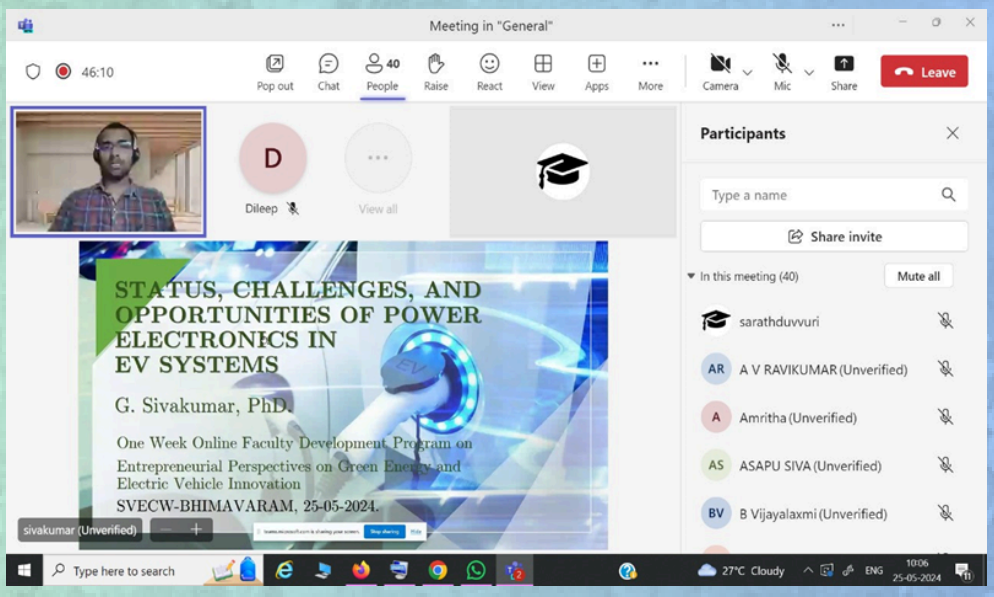
Student Internships

Department of EEE has organized a 8 Week Internship program to II EEE students on "DATA SCIENCE and MACHINE LEARNING using PYTHON PROGRAMMING" during 7th January 2023 to 18th March 2023. It was a 7 week online and 1 week offline program. Prof. Nirmal Gaud, CEO, Think-AI-"A Machine Learning Community" delivered lectures during the Internship

Project Expo

Dept. of EEE in association with Institution's Innovation Council (IIC) of Shri Vishnu Engineering College for women organized Project Expo Competition which is an intra-Institutional project Contest 2023. The event was held during March 15th-16th, 2023. Around 150 participants from various Departments from the institute were attended for the event. The projects were showcased by each team in front of A block. The projects have been evaluated by internal judges. The winners were declared at the end of the program. The students were given away the merit and participation certicates at the end of the program.

REBBACE A Value-Added Online Course on "RENEWABLE ENERGY BASED ON BIOMASS AND CLEAN ENERGY" offered by Prof. Shuichi TORII, Kumamoto University, Japan during 19th-24th December 2022 to Department of Electrical and Electronics Engineering, SVECW students. About 64 students have been registered for the value added course on Renewable energy sources based on Biomass and Clean energy. At the end of the course, an examination for about 1 hour was conducted.



FACULTY ACHIEVEMENTS

Faculty Publications

Dr.B.Suresh Babu of EEE Department presented a paper titled “Economic impacts and reliability evaluation of battery by adopting Electric Vehicle” in IEEE Conference in IPECTS-2022 on 08-09 December 2022 in socupus indexedjournal with DOI https: //doi.org/10.1109/ICPECTS56089.2022. 10046786 .

Mr.S.Veerababu of EEE Department presented a paper titled “ Taxonomy on DSP based Islanding Detection Techniques in Micro grid in ”IEEE Conference in ICCSIT-2023" at FX Engineering College ,Tirunelveli Tamil Nadu on 23- 25 January-2023 is Scoupus Indexed with DOI https ://doi.org/10.1109 /ICSSIT55814 . 2023. 10061078.

SSSR Sarathbabu Duvvuri Associate Professor in the department of EEE presented a paper titled "Stator Inter-turn Short-circuit Fault in 3-Φ Induction Motors: A Critical Observations," 2023 XIX in International Scientific Technical Conference Alternating Current Electric Drives (ACED), Ekaterinburg, Russian Federation, 2023, pp. 1-6, doi: 10.1109/ACED57798.2023.10143477. Date of Conference: 23-25 May 2023

SSSR Sarathbabu Duvvuri Associate Professor in the department of EEE presented a paper titled "Broken Rotor Bar Fault in 3-Φ Squirrel-Cage Induction Motors: A Critical Observations," 2023 in International Conference on Power, Instrumentation, Control and Computing (PICC), Thrissur, India, 2023, pp. 1-6, doi: 10.1109/PICC57976.2023.10142469. Date of Conference: 19-21 April 2023

Program Educational Objectives :: B. Tech. - EEE

PEO 1 : Demonstrate employability skills and leadership qualities to serve the society.

PEO 2: Achieve personal and professional success with awareness and commitment to their ethical and social responsibilities.

PEO 3: Improve professional competence through life-long learning including higher education and research.

Program Outcomes:: B. Tech. - EEE

PO1: Engineering Knowledge: Apply knowledge of mathematics, natural science, computing, engineering fundamentals and an engineering specialization as specified in WK1 to WK4 respectively to develop to the solution of complex engineering problems.

PO2: Problem Analysis: Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development. (WK1 to WK4).

PO3: Design/Development of Solutions: Design creative solutions for complex engineering problems and design/develop systems/components/processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required. (WK5).

PO4: Conduct Investigations of Complex Problems: Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modelling, analysis& interpretation of data to provide valid conclusions. (WK8).

PO5: Engineering Tool Usage: Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems. (WK2 and WK6).

PO6: The Engineer and The World: Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment. (WK1, WK5, and WK7).

PO7: Ethics: Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws. (WK9).

PO8: Individual and Collaborative Team work: Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.

PO9: Communication: Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences.

PO10: Project Management and Finance: Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.

PO11: Life-Long Learning: Recognize the need for, and have the preparation and ability for i) independent and life-long learning ii) adaptability to new and emerging technologies and iii) critical thinking in the broadest context of technological change. (WK8).

Program Specific Outcomes :: B. Tech. - EEE

PSO 1: Ability to enhance living standards of disabled people by designing appropriate products with the help of technology.

PSO 2: Competence to explore, analyze and solve problems related to power electronic systems.