

ILLUMINARIES



VOLUME - 14

ISSUE -2

DECEMBER- 2023



SVECW

ESTD : 2001

Shri Vishnu Engineering College for Women
(Autonomous)

Vishnupur, Bhimavaram, Andhra Pradesh

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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:

With great pleasure, I inform that the newsletter for the Second half of 2023 from the Department of Electrical and Electronics Engineering has been released. It features a variety of accomplishments and activities from our staff and students. The goal of Shri Vishnu Engineering College for Women (Autonomous) is to illuminate students' lives by using their understanding of flame to create shapes in a distinctive way.

RESEARCH ARTICLE

IoT-Based Hi-Tech Battery Charger for Modern EVs

These days, we find many batteries used in Electric Vehicles are burning or blasting due to overcharging or long time charging. During such condition, the battery body temperature may rise, to avoid these types of mishaps, here this special type of battery charger is designed using the latest technology such that the battery can be charged using wireless technology and at the same time the battery voltage and its body temperature data will be monitored continuously through an embedded system. An important feature added to the system is that if the battery body temperature raises more than the threshold value, immediately supply to the battery will be disconnected automatically and an alarm will be energized. Once the alarm is energized it remains in energized condition until the reset button is activated.

Mrs.Y.T.R.Palleswari
&
Mr.A.Siva



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Student Activities

VEDA - 2K23 : The following students 1) V.Leela Bhargavi (21B01A0257) , P.Lohitha(21B01A0242) & K.Usha Sree(21B01A0224) have participated and Awarded 2nd Prize for Title in VEDA 2K23 a National Level Technical Symposium held on 15th & 16th September-2023 at Aditya group of Engineering Colleges, Surampalem , Gandepalli.



Student Internships

D.Sai Nandini(20B01A0233): Selected one year internship from 20-July-2023 to 19-July-2024. in Hitachi Energy Technology Services Private Limited Located at Bengaluru with Stipend of 20,000 per month.

1) K.Vyshanvi(20B01A0246): Selected in Infineon Technologies Private Limited from July 2023 to May 2024 located at Bengaluru with Stipend of 36,000 per month.



D.S.Nandini-20B01A0233
20000/month
Hitachi Energy



K.Vyshanvi-20B01A0246
36000/month
Infineon Technologies

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FACULTY DEVELOPMENT PROGRAM

Atal Sponsored one Week FDP: One week Faculty Development Program initiated by AICTE Training and Learning (ATAL) Academy is an initiative by AICTE aiming at empowering faculty to achieve goals of Higher Education has conducted on “Current Trends and Future Prospects: AI and Machine Learning Applications in Electrical Engineering” from 11th to 16th December 2023.





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Club Activities ISTE Student Chapter



Engineers' Day Celebrations-2023: Shri Vishnu Engineering College for Women (Autonomous), Bhimavaram, celebrated Engineers' Day -2023 today 15th September 2023 at Seetha Auditorium, under ISTE STUDENT CHAPTER in Association with Institutions Innovation Council(IIC). The Program has conducted under esteemed guidance of Principal Dr.G.Srinivasarao garu and Vice Principal Dr.P.Srinivasaraju Garu. ISTE Student Chapter Faculty Advisor Dr.G.R.L.V.N.Srinivasaraju garu addressed the students about the "role of Engineer" that inspired from Er.Sri Mokshagundam Vishweshwarayya in this function. Department faculty coordinators of ISTE and 250 students have actively participated in these celebrations.



GPS Map Camera

Kovvada, Andhra Pradesh, India



GPS Map Camera

Kovvada, Andhra Pradesh, India

ISTE AWARD: our College SVECW has awarded "Best Engineering College Award -2022" in Andhra Pradesh under ISTE AP Section-2022 on 12th August 2023. This award is received at ISTE AP State Convention held at Gudlavalleru Engineering college, Gudlavalleru, Andhra Pradesh



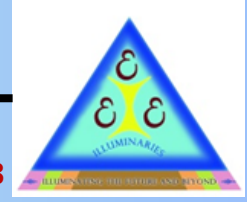
Congratulations!!

SVECW has been awarded
BEST ENGINEERING COLLEGE AWARD - 2022
under ISTE Andhra Pradesh Section





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INDUSTRIAL Visits

UNDI 220kV/33kV Substaion(12/09/2023): EEE Department of svecw organised Industrail visit for III-EEE about 59 Students to UNDI 220kV/33kV Substation of APTRANSO on 12/09/2023. In this connection Undi S/S ADE , Er. Krishnamacharyulu has guided about various operations of Incoming and outgoing feeders, working of Various PTRs, Battery backup and Control unit among the substation.



Narasimharajapura Agraharam, Andhra Pradesh, India

VTPS ,Vijayawada(14/09/2023): EEE Department of SVECW organized Industrail visit for III & II EEE about60 Students to VTPS training Institute at Ibrahimpattam at on 14/09/2023. In this connection



FACULTY ACHIEVEMENTS

Faculty Publications



Dr.S.Dileep Kumar Varma , et all Published Title on “Ultra-Gain DC-DC Converter fed 3- Φ Inverter for Variable-Speed Drive Applications” in 2023 IEEE 3rd International Conference on Smart Technologies for Power, Energy and Control (STPEC) with DOI : [10.1109/STPEC59253.2023.10431328](https://doi.org/10.1109/STPEC59253.2023.10431328)



Dr.S.S.S.R.Sarath Babu , et all Published Title on “Ultra-Gain DC-DC Converter fed 3- Φ Inverter for Variable-Speed Drive Applications” in 2023 IEEE 3rd International Conference on Smart Technologies for Power, Energy and Control (STPEC) with DOI : [10.1109/STPEC59253.2023.10431328](https://doi.org/10.1109/STPEC59253.2023.10431328)



Mr.K.P.Swaroop , et all Published Title on “Ultra-Gain DC-DC Converter fed 3- Φ Inverter for Variable-Speed Drive Applications” in 2023 IEEE 3rd International Conference on Smart Technologies for Power, Energy and Control (STPEC) with DOI : [10.1109/STPEC59253.2023.10431328](https://doi.org/10.1109/STPEC59253.2023.10431328)



DrM.V.Srikanth , et all Published Title on “Ultra-Gain DC-DC Converter fed 3- Φ Inverter for Variable-Speed Drive Applications” in 2023 IEEE 3rd International Conference on Smart Technologies for Power, Energy and Control (STPEC) with DOI : [10.1109/STPEC59253.2023.10431328](https://doi.org/10.1109/STPEC59253.2023.10431328)



Mr.Omkar Koduri , Published Title on “Empirical Mode Decomposition and Optimization Assisted ANN Based Fault Classification Schemes for Series Capacitor Compensated Transmission Line” in journal of operation and automation in power engineering with DOI

Department Vision

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

Department 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

PEOs (UG Programme)		(PEOs of PG Programme)	
<p>PEO1: Demonstrate employability skills and leadership qualities to serve the society.</p> <p>PEO2: Achieve personal and professional success with awareness and commitment to their ethical and social responsibilities.</p> <p>PEO3: Improve professional competence through life-long learning including higher education and research.</p>		<p>PEO1: Graduates acquire technical knowledge to solve complex real-world problems.</p> <p>PEO2: Graduates will exhibit competencies to excel in academia or industry.</p> <p>PEO3: Graduates acquire ability to practice ethical values.</p>	
POs (UG Programme)		POs (PG Programme)	
PO1	An ability to apply knowledge of mathematics, science and engineering.	PO 1	The graduates have ability to discriminate, evaluate and analyze by acquiring conceptual knowledge base in power electronics.
PO2	An ability to design and conduct experiments as well as analyze and interpret results to provide valid conclusions.	PO 2	Ability to analyze complex engineering problems critically and synthesize information independently for conducting research in theoretical and practical context.
PO3	An ability to design system components (or) processes optimally.	PO 3	Ability to think originally and arrive at optimal solutions for power electronic systems after considering safety and environmental factors.
PO4	An ability to contribute individually/ in group(s) representing varied engineering disciplines to accomplish a common goal.	PO 4	Ability to identify, formulate research problems individually or in group(s) to the development of technological in the field of power electronics
PO5	An ability to identify, formulate and solve complex engineering problems.	PO 5	An ability to develop mathematical models to use modern tools for designing power electronic topologies for various applications.
PO6	An understanding of professional and ethical responsibilities.	PO 6	An ability to identify the opportunities in multi-disciplinary and collaborative research work
PO7	An ability to use written and oral communication skills effectively	PO 7	Ability to manage projects effectively after consideration of technical and financial factors.
PO8	An ability to understand the impact of engineering solutions in a global, economic, environmental and societal context.	PO 8	An ability to develop networking in power electronics community and to make effective presentations and technical reports.
PO9	An ability to engage in independent and life-long learning.	PO 9	An ability to engage in life-long learning and an understanding of the needs to meet current trends of developments in the field of power electronics.
PO10	Knowledge of contemporary issues related to engineering.	PO 10	An ability to acquire professional and ethical responsibilities for sustainable development of society.
PO11	An ability to use appropriate techniques, resources and modern engineering tools for engineering practice.	PO 11	An ability to examine critically the outcomes of one's actions and make corrective measures independently
PO12	An understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team to manage projects.		