



# ILLUMINARIES



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DECEMBER- 2023


**SVECW**

ESTD : 2001

**Shri Vishnu Engineering College for Women**  
(Autonomous)

Vishnupur, Bhimavaram, Andhra Pradesh

## TABLE OF CONTENTS

1

### GENERAL

*Vision & Mission.....2*
*Editor Message.....2*
*Research Article.....2*

2

### STUDENT'S CORNER

*Student Activities (Fest).....3*
*Student Internships.....4*
*Club Activities (ISTE).....5*
*Industrial Visits.....6*

3

### FACULTY CORNER

*Faculty Development Program.....7*
*PEOs, POs, PSOs.....8*



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20B01A0246

2)V.L.Bhargavi  
21B05A0257

3)P.Rama Lahari  
22B01A0238



### 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 first half of 2021 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**



# ILLUMINARIES



VOLUME - 14

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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.







## ILLUMINARIES



VOLUME - 14

ISSUE - 2

DECEMBER- 2023

## 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.Vyshnavi(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.Vyshnavi-20B01A0246**  
36000/month  
Infineon Technologies





# ILLUMINARIES

VOLUME - 14

ISSUE - 2

DECEMBER- 2023



## 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.



Kovvada, Andhra Pradesh, India



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 about 60 Students to VTPS training Institute at Ibrahimpatnam at on 14/09/2023. In this connection







# ILLUMINARIES



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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.





### 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

**P01: 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.

**P02: Problem Analysis:** Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development. (WK1 to WK4).

**P03: 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).

**P04: 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).

**P05: 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).

**P06: 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).

**P07: Ethics:** Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws. (WK9).

**P08: Individual and Collaborative Team work:** Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.

**P09: 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.

**P010: 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.

**P011: 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.