



ILLUMINARIES



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ISSUE -2

DECEMBER- 2022



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Shri Vishnu Engineering College for Women
(Autonomous)

Vishnupur, Bhimavaram, Andhra Pradesh

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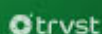
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Energy conservation is the
foundation of energy
independence.

- Tom Allen



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 second half of 2022. 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

The DG paradigm, which combines renewable and non-renewable energy resources to create a Microgrid that can be run more safely and effectively using fast islanding detection methods, is being adopted by the majority of sophisticated power system networks. Several islanding detection methods like Conventional passive detection methods having large Non detection zone (NDZ) with irregular threshold settings. The active detection techniques having intentional perturbation causing major disadvantage in improved rapid operation of Microgrid. In this concern with improved efficiency, accuracy, and reliability have been proposed in the literature. Signal Processing (SP) based passive Islanding detection Techniques are extensively analyzed by proper comparison under various aspects which is feasible and economical and can avoid the above said drawbacks for stable operations. This paper's major contribution is to provide operation of islanding detection technique for voltage and current signals generated at point of common coupling with DSP based method which can compare the detection time which is the part of various Transformation techniques which has approached.

1)P.R.Lahari
21B01A0238

2)K.Snehitah
21B01A0219

Engineers' Day Celebrations- 2022

Engineers' Day is celebrated on 15th September 2022 as a tribute to Bharat Ratna Sri M.Visveswarayya, as his 162-birth anniversary as the father of Civil Engineering, great Engineer, Administrator, an Eminent Statesman, Educationalist & a Social worker who has done great service to the society. ISTE STUDENT CHAPTER of Shri Vishnu Engineering College for Women organized various 12 technical events on this occasion under the Esteemed Guidance of ISTE STUDENT CHAPTER Faculty Advisor Dr.G.R.L.V.N.Srinivasa raju , Professor & Dean R&D in the academic year 2022-23. In this connection almost 400 students of various departments have actively participated in 12 Technical events which conducted successfully. Dr.G.Srinivasarao, Principal and Dr.P.Srinivasa Raju, Vice-Principal along the Faculty advisor have distributed the Prizes to all the 64 winners among all the events.



Four students 1) K.Snehitha, 2)A.Sriramy, 3) O.Mhalakshmi of EEE DEPARTMENT are the winners among the various events and received Prizes.

Student achievement

Ms.Leela Bhargavi Vanjarapu 21B01A0257 of II EEE stood in 3rd place in IET Present around the World (PATW) Regional Competition held at Muffakham Jah College of Engineering and Technology Hyderabad on 12-11-2022.



Ms.B. Ekshitha Sai, Ms.D. Sai Nandini and Ms.K.Vaishnavi of III EEE won 1st Prize among 20 groups in Friction 2022 - Women's Motor cycle club of India organized by Vinayagar program Karpaga college of Engineering & Technology on 28th October -2022.



PLACEMENTS

Tiger Analytics



V.Sri Vyshma
19B01A02B8
8.5 Lakh

OPTUM Global Solutions

OPTUM Global Solutions



M.M.N.Ramya
19B01A0272
10 Lakh

OPTUM Global Solutions

OPTUM Global Solutions



K. Kavya
19B01A0255
10 Lakh

OPTUM Global Solutions

OPTUM Global Solutions



K.Sharmila
19B01A0262
10 Lakh



Geetha Sindu
19B01A0273
10 Lakh

OPTUM Global Solutions



K.Sindhu
19B01A0208
10 Lakh

OPTUM Global Solutions



D.V.L.Sreeja
19B01A0221
10 Lakh

OPTUM Global Solutions



M.Chandana
19B01A0271
10 Lakh



B.Yamuna
19B01A02C2
10 Lakh



B.Sahithi
20B05A0202
10 Lakh

Illuminaries

FACULTY ACHIEVEMENTS

Doctorates



Dr. S.Dileep Kumar Varma, working as an Associate Professor in EEE Department completed his Ph.D in the area of Grid connected Wind Energy System with Title “Investigation of Dynamic Performance of PMSG based Wind Energy System” in Jawaharlal Nehru Technological University Kakinada in August -2022 under the Esteemed Supervision of Dr.Ch.SaiBabu, Professor, Department of EEE, College of Engineering JNTUK, Kakinada..

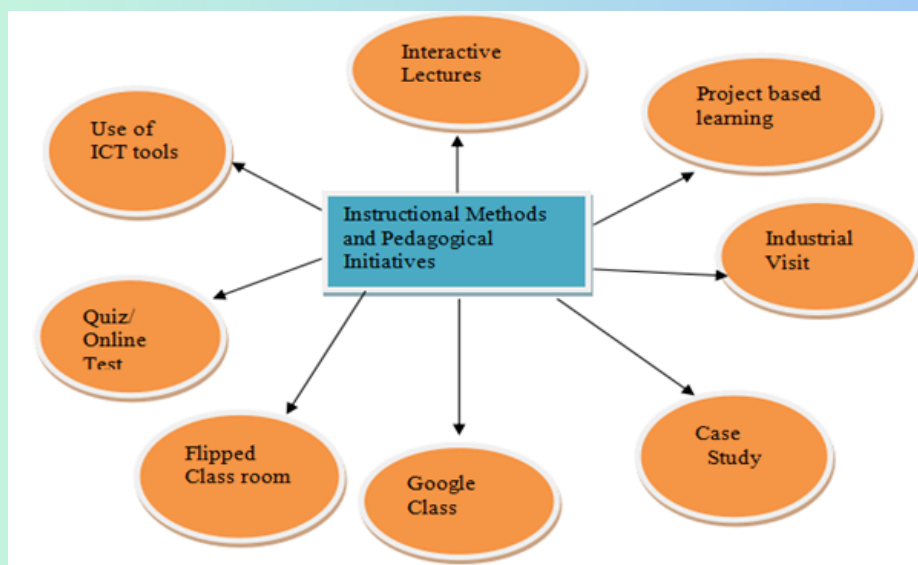
Patent grants



SSSR Sarathbabu Duvvuri and et al, Title of Invention: Rotary Distillation Column for Industrial Purposes, Patent Application No: 202041053039, Date of Filing: 05-12-2020. Date of Publication (U/S 11A): 11-12-2020. Date of Grant: 05-09-2020.

PEDAGOGICAL INIATIVES

A pedagogical initiatives flowchart outlines a structured, student-centric approach to learning, typically moving from planning and assessment to active implementation and evaluation. It helps visualize key steps like setting goals, selecting teaching methods, providing feedback, and refining techniques to improve learning outcomes, often incorporating technology and personalized learning.



PEDAGOGICAL INITIATIVES

Common Initiatives and Tools

Active Learning Techniques: Moves beyond traditional lectures to include brainstorming, group discussions, and interactive "chalk and talk" sessions.

Technology-Enabled Learning (ICT): Utilization of Google Classroom, Zoom, MOOCs (SWAYAM-NPTEL), virtual labs, and faculty-created blogs/videos to deliver content.

Project-Based Learning (PBL): Engaging students in hands-on projects, simulations, and real-world case studies to develop problem-solving skills.

Collaborative & Peer Learning: Forming student groups for assignments, brainstorming, and joint presentations.

Flipped Classrooms: Students review instructional materials before class, allowing in-class time for interactive discussion and application.

Industry-Linked Training: Incorporating industrial visits, expert guest lectures, and internship opportunities to align curriculum with industry demands.

Innovative Assessment: Using online quizzes, Google Forms, and, in engineering, designing experiments beyond the standard syllabus.

Skill-Based Approaches: Focusing on the "4 C's" (Communication, Collaboration, Critical Thinking, Creativity) and, in specialized fields, nurturing entrepreneurship.

Feedback and Remediation: Quizzes offer immediate feedback, enabling learners to understand their mistakes and learn from them. Educators can use this feedback to provide additional support or resources for remediation.

Motivation and Engagement: Quizzes can serve as motivational tools, encouraging learners to actively participate in the learning process and stay engaged with the material.

Retention of Information: Regular quizzing enhances knowledge retention by reinforcing learned concepts and encouraging learners to review the material.

Preparation for Exams: Quizzes help learners practice and prepare for exams or other assessments, making them more confident and familiar with the format and content.

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.		