



# NEWSLETTER

**JUNE 2022-SEPTEMBER 2022**

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### INSTITUTE VISION

Producing globally competent and quality technocrats with human values for the holistic needs of industry and society.

### INSTITUTE MISSION

- Creating an outstanding infrastructure and platform for enhancement of skills, knowledge and behaviour of students towards employment and higher studies.
- Providing a healthy environment for research, development and entrepreneurship, to meet the expectations of industry and society.
- Transforming the graduates to contribute to the socio-economic development and welfare of the society through value based education.

### DEPARTMENT VISION

To be a hub for imparting knowledge, skills, and behaviour for exemplary contributions in the field of Electrical and Electronics Engineering.

### DEPARTMENT MISSION

- To impart Technical Education through the state-of-the-art infrastructure facilities, laboratories and instruction.
- To inculcate industry-oriented learning through industrial visits, internships, projects at Industries, MOUs, to make students' technically skills oriented.
- Creating conducive environment for higher education, employment and entrepreneurship through quality education, professional skills and research.
- To promote societal commitment among students by inculcating moral and ethical values.

### PROGRAM EDUCATIONAL OBJECTIVES

- PEO1: Graduates shall have strong foundation in core and allied Electrical and Electronics Engineering, in sciences and mathematics, to become globally competent in designing, modeling and critical problem solving.
- PEO2: Graduates shall involve in research activities in the field of electrical and electronics engineering through lifelong learning and provide solutions to engineering problems for sustainable development of society.
- PEO3: Graduates shall have good communication skills and socio-ethical values for getting employment or higher studies by excelling in competitive examinations and be able to work in supportive and leadership roles.

### PROGRAM SPECIFIC OUTCOMES

- PSO1: Capable of design, develop, test, verify and implement electrical and electronics engineering systems and products.
- PSO2: Succeed in national and international competitive examinations for successful higher studies and employment.



# Archimedes Wind Turbines

The Archimedes windmill is a new type of wind turbine comprising three circular blades which are wrapped around one another and then expanded. This creates a three-dimensional conical turbine, similar to elongated shells found on the beach. The special design ensures that wind is drawn into the turbine. The average yield is many times higher compared to a normal urban windmill propeller. The Archimedes spiral wind turbine utilizes the kinetic energy of the wind much more efficiently than traditional HAWTs. The wind direction in an urban environment change constantly but the Archimedes wind turbine follows the wind direction automatically and operates efficiently at low speeds.





# Engineers Day



Engineers' Day is celebrated to honor the contributions of engineers to society and recognize their pivotal role in shaping the world through innovation and technology. The day varies by country, but many celebrate it on September 15 in India in memory of Sir Mokshagundam Visvesvaraya, a renowned engineer and statesman known for his significant contributions to engineering and infrastructure development. Celebrating Engineers' Day helps reinforce the importance of engineering in progress and development, inspiring future generations to innovate and excel in this critical field.





# Guest Lectures



Guest lectures are valuable educational events where experts from various fields share their knowledge and experiences with students. These lectures provide unique insights into real-world applications of academic concepts, expose students to current industry trends, and foster connections with professionals. Engaging with guest speakers allows students to ask questions, gain different perspectives, and explore potential career paths. Overall, guest lectures enhance the learning experience by bridging the gap between theory and practice, inspiring students to think critically and creatively about their futures.



Guest Lecture on Hybrid Electric Vehicles by  
Controller of Examination K.Venkat Reddy(Associate  
Professor)Dept.of EEE,JNTU-Kakinada



# Research & Development



An R&D (Research and Development) club in a college setting is a dynamic platform for students to engage in research, innovation, and exploration of new ideas. An R&D club can be a vibrant part of the academic experience, encouraging exploration and innovation while preparing students for future challenges in their fields.

