

NEWSLETTER

DEPARTMENT OF
ELECTRICAL AND ELECTRONICS ENGINEERING

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Issue - I

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR
COLLEGE OF ENGINEERING (AUTONOMOUS),
ANANTHAPURAMU – 515002,
ANDHRA PRADESH, INDIA



CONTENTS

	Page No.
1. About the Department	2
2. Vision and Mission	3
3. POs of Department	4
4. PEOs & PSOs of Department	5
5. Events organized by the Department	6
6. Faculty Activities	11

About the Department



The Department of Electrical Engineering was established in 1946 offering B.Tech course (Electrical and Electronics Engineering) with an intake of 30 students, which was enhanced to 50 in the year 1995 and subsequently to 60 in the year 2009. In 1946 the college was established at Guindy, Chennai and was shifted to Anantapur in 1948. The Electrical Engineering Department offers various M.Tech programs. M.Tech, with specialization in “Electrical Power Systems” was started in the year 1971 with an intake of 25. “Power and Industrial Drives” was started in the year 2001 with an intake of 25. “Control Systems” started in the year 2001 with an intake of 25 and “Reliability Engineering” started in the year 2009 which is an interdisciplinary area with an intake of 18. The Department is having research facilities for Ph.D Programme in Electrical Engineering Discipline.

Institutional Vision

- Committed to expanding the horizon and inspiring young minds towards academic excellence.
- Aims at scaling new heights through advanced research and innovative techniques to keep pace with the ever-changing needs of industry and society at large.

Institutional Mission

- To identify and implement, proven, prevention-oriented, forward-looking solutions to critical, scientific and technological problems.
- To make technology a principal instrument of economic development of the country and to improve the quality of life of the people through technological education, innovation, research, training and consultancy.

Department Vision

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Department Mission

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PROGRAM OUTCOMES

- PO 1: **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- PO 2: **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO 3: **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- PO 4: **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- PO 5: **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- PO 6: **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- PO 7: **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- PO 8: **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO 9: **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO 10: **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- PO 11: **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- PO 12: **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM EDUCATIONAL OBJECTIVES

- PEO 1: To excel in professional career and/or higher education by acquiring knowledge in mathematics and Basic sciences, Basic Electrical Sciences, Power Systems, Power Electronics and Electrical Drives.
- PEO 2: To identify the problems in society and design electrical systems appropriate to its solutions using latest technologies that are technically sound, economically feasible and socially acceptable.
- PEO 3: To exhibit professionalism, ethical attitude, communication skills, team work in their profession and adapt to current trends in technology by engaging in continuous professional development.

PROGRAM SPECIFIC OUTCOMES

- PSO 1: The student can apply fundamental knowledge gained during the various courses of the program to analyse and solve the complex problems of Electrical Machines, Control Systems, Instrumentation System, Power Systems and Power Electronic systems.
- PSO 2: The student can design electrical, electronics and allied interdisciplinary projects to meet the demands of industry and to provide solutions to the current real time problems.
- PSO 3: The student can utilize the knowledge regarding recent techniques and sustainable technologies for developing the projects related to Control Engineering, Smart Grid, Power Quality and Advanced Power System protection to engage in lifelong learning

A National Level Technical Symposium

EYE 2k23

EYE Electrify Your Education is a National Level Technical Symposium organized by the Department of Electrical and Electronics Engineering JNTUA CEA. It gives a chance to the students across the nation to explore their talent and win exciting prizes. This is a One-Day Technical symposium that includes various events such as Workshops, Circuit Hunt, Project Expo, Paper presentations and Quiz.

A National Level Technical Symposium “Electrify Your Education (EYE) 2k23” was conducted on 28th March 2023. The inaugural function started with welcoming the dignitaries on to the dias by A. Sai Ushaswi and K. Jeswanth. Dr. J. Sreenivasulu, Coordinator of the program addressed the gathering. Dr. G. Ranga Janardhana, Vice-Chancellor, JNTUA and Chief-Guest of the program have given green signal to start the EYE 2k23 program by realizing the EYE2k23 Brochure.



JNTUA COLLEGE OF ENGINEERING ANANTAPURAMU

SYMPOSIUM BY
DEPARTMENT OF EEE

ELECTRIFY YOUR EDUCATION

2K23

EXHIBIT YOUR TALENT

EVENTS & WORKSHOPS

- TECHNICAL QUIZ
- CIRCUIT HUNT
- PAPER PRESENTATION
- PROJECT EXPO
- POSTER PRESENTATION

28th MARCH

CO-ORDINATOR
Dr J SREENIVASULU
Asst.Prof.EEE-
JNTUACEA

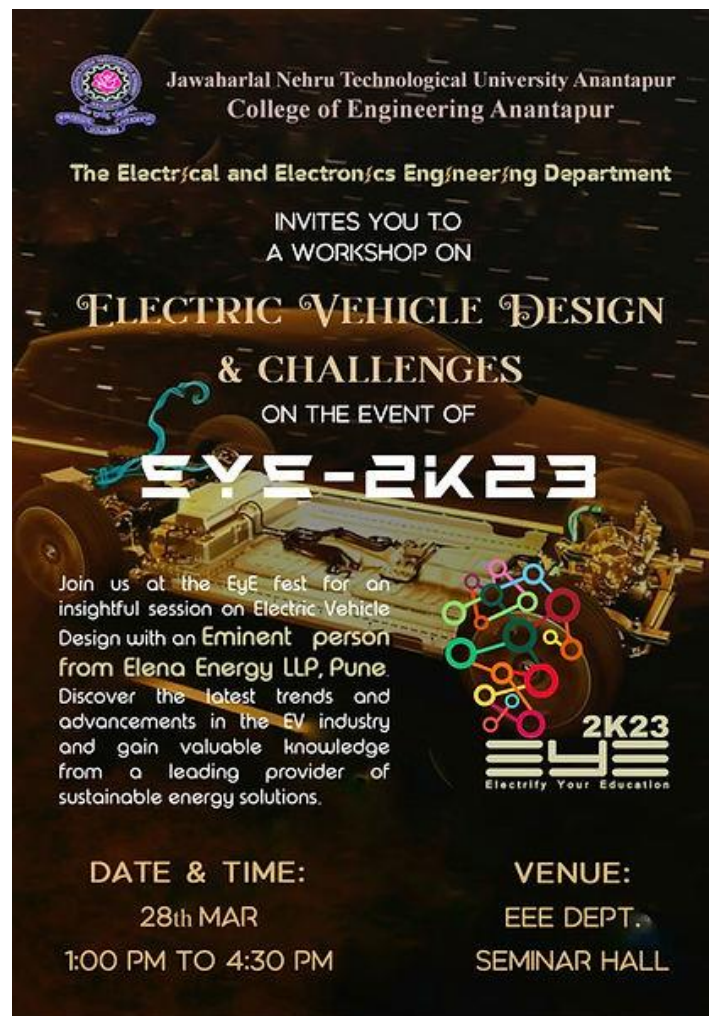
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A NATIONAL LEVEL STUDENTS TECHNICAL SYMPOSIUM



Jawaharlal Nehru Technological University Anantapur
College of Engineering Anantapur

The Electrical and Electronics Engineering Department

INVITES YOU TO
A WORKSHOP ON

**ELECTRIC VEHICLE DESIGN
& CHALLENGES**

ON THE EVENT OF
EYE-2K23

Join us at the Eye fest for an insightful session on Electric Vehicle Design with an Eminent person from Elena Energy LLP, Pune. Discover the latest trends and advancements in the EV industry and gain valuable knowledge from a leading provider of sustainable energy solutions.

2K23

DATE & TIME:
28th MAR
1:00 PM TO 4:30 PM

VENUE:
EEE DEPT.
SEMINAR HALL



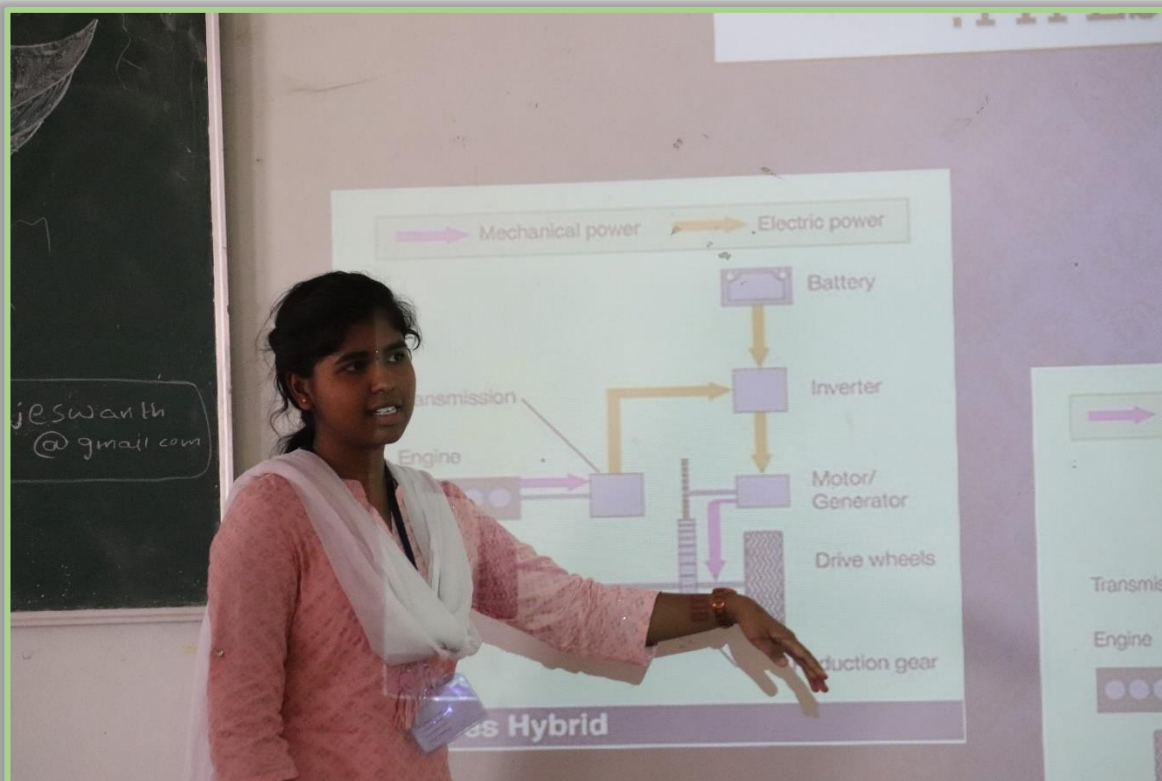
HoD and Student Co-ordinators welcoming Dr. M. Vijaya Kumar, Rector, JNTUA and Dr. C. Sashidar, Registrar, JNTUA for EYE 2k23



Inauguration of EYE 2k23



Flashmob



Paper Presentation



Technical Quiz



Poster Presentation



Project Expo

FACULTY ACTIVITIES

Papers Published:

- P Leela Manasa, R. Bhavani and P Rizwan, “**Reliability Analysis on UCS behaviour of Fiber Reinforced Cohesive Soil**”, Material Science and Technology, Volume 22, Issue 01, Feb. 2023.
- S Gayathri, R Bhavani and P Rizwan, “**Introducing Level of Confidence and Reliability Analysis using Chi-Square Method for RAFT Foundation**”, Material Science and Technology, Volume 22, No. 2, Feb. 2023.

Others:

- **Ms. D. Kalyani**, Assistant Professor (Adhoc) won runner up prize at the Sports Day 2023 Shuttle Badminton competition held at JNTUA College of Engineering (Autonomous), Ananthapuramu on 28th March 2023.
- **Ms. S. Anusha**, Assistant Professor (Adhoc) won winner up prize at the Sports Day 2023 Shuttle Badminton competition held at JNTUA College of Engineering (Autonomous), Ananthapuramu on 28th March 2023.
- **Smt. Y Manasa and Ms. S. Anusha**, Assistant Professor (Adhoc) won runner up prize Carrom at the Sports Day 2023 competition held at JNTUA College of Engineering (Autonomous), Ananthapuramu on 28th March 2023.

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