



ELECTRO VISION

2K23

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ELECTRICITY IS ONE OF THE INEVITABLE SOURCES OF ENERGY IN THE WORLD. WE PRODUCE ENGINEERS TO ENHANCE AND ESTABLISH IT IN A SMART WAY. WE OFFER ONE UNDERGRADUATE PROGRAMME OF 4 YEARS DURATION AND ONE POST GRADUATE PROGRAMME OF 2 YEARS DURATION. WE TOTALLY HAVE 10 FACULTY MEMBERS WHO ARE KNOWLEDGEABLE AND ENTHUSIASTIC, IMPARTING THEIR SKILLS AND TECHNICAL KNOWLEDGE OVER 110 STUDENTS WHO ARE PURSUING THEIR UNDERGRADUATE AND POST GRADUATE COURSES IN OUR DEPARTMENT. WE HAVE WELL EQUIPPED LABORATORIES WITH GOOD INFRASTRUCTURE WHICH HAS TEN LAKHS WORTH EQUIPMENT'S AND COMPONENTS IN 6 CORE AND 2 COMPUTER LABORATORIES. THE DEPARTMENT HAS A LIBRARY WHICH CONTAINS OVER 511 BOOKS IN DIFFERENT STREAMS OF EEE.

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

VISION

EMERGE AS QUALITY HUMAN RESOURCE PROVIDER FOR INDUSTRY AND SOCIETY IN THE FIELD OF ELECTRICAL & ELECTRONICS ENGINEERING.

MISSION

PROVIDING QUALITY EDUCATION THROUGH STATE-OF-ART RESOURCES.

TO DEVELOP INNOVATIVE, PROFICIENT ELECTRICAL ENGINEERS.

PROMOTING ETHICAL AND MORAL VALUES AMONG THE STUDENTS SO AS TO MAKE THEM RESPONSIBLE PROFESSIONALS FOR THE SOCIETY.

PROGRAM EDUCATIONAL OBJECTIVES

PEO1: HAVE STRONG FOUNDATION IN ELECTRICAL ENGINEERING ALONG WITH MATHEMATICS, SCIENCES AND ALLIED ENGINEERING SUBJECTS.

PEO2: POSSESS GOOD PROBLEM SOLVING, DESIGN SKILLS, CAPABILITY TO USE MODERN ENGINEERING TOOLS, ABILITY TO PURSUE HIGHER EDUCATION AND RESEARCH.

PEO3: SEEK EMPLOYMENT IN VARIOUS ENGINEERING OR TECHNOLOGICAL POSITIONS OF THEIR INTEREST AND CONTINUE TO ACHIEVE THEIR ASPIRATIONS THROUGH LIFELONG LEARNING.

PEO4: EXHIBIT PROFESSIONAL AND ETHICAL ATTITUDE, EFFECTIVE COMMUNICATION SKILLS, TEAMWORK AND MULTIDISCIPLINARY APPROACH.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

PROGRAM OUTCOMES

- 1. ENGINEERING KNOWLEDGE:** APPLY THE KNOWLEDGE OF MATHEMATICS, SCIENCE, ENGINEERING FUNDAMENTALS AND AN ENGINEERING SPECIALIZATION TO THE SOLUTION OF COMPLEX ENGINEERING PROBLEMS.
- 2. PROBLEM ANALYSIS:** IDENTIFY, FORMULATE, REVIEW RESEARCH LITERATURE, AND ANALYSE COMPLEX ENGINEERING PROBLEMS REACHING SUSTAINED CONCLUSIONS USING FIRST PRINCIPLES OF MATHEMATICS, NATURAL SCIENCES, AND ENGINEERING SCIENCES.
- 3. DESIGN/DEVELOPMENT OF SOLUTIONS:** DESIGN SOLUTIONS FOR COMPONENTS OR PROCESS THAT MEET THE SPECIFIED NEEDS WITH SAFETY, AND THE CULTURAL, SOCIETAL AND ENVIRONMENTAL CONSIDERATIONS. ENGINEERING PROBLEMS AND DESIGN SYSTEM CONSIDERATION FOR THE PUBLIC HEALTH AND
- 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.
- 5. MODERN TOOL USE:** CREATE, SELECT, AND APPLY APPROPRIATE TECHNIQUES, RESOURCES, AND MODERN ENGINEERING AND IT TOOLS INCLUDING PREDICTION AND MODELLING TO COMPLEX ENGINEERING TIES WITH AN UNDERSTANDING OF THE LIMITATIONS.
- 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.
- 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.
- 8. ETHICS:** APPLY ETHICAL PRINCIPLES AND COMMIT TO PROFESSIONAL ETHICS AND RESPONSIBILITIES AND NORMS OF THE ENGINEERING PRACTICE.

9. **INDIVIDUAL AND TEAM WORK:** FUNCTION EFFECTIVELY AS AN INDIVIDUAL, AND AS A MEMBER OR A LEADER IN DIVERSE TEAMS, AND IN MULTIDISCIPLINARY SETTINGS.
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.
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.
12. **LIFE- LONG LEARNING:** RECOGNISE THE NEED FOR AND HAVE THE PREPARATION AND ABILITY TO ENGAGE IN INDEPENDENT AND LIFE-LONG LEARNING IN BROADEST CONTEXT OF TECHNOLOGICAL CHANGER

PROGRAM SPECIFIC OUTCOMES

PSO1: ABILITY TO DESIGN SOLUTIONS FOR IDENTIFIED PROBLEMS BY USING LATEST ENGINEERING TOOLS LIKE MATLAB, SIMULINK, PSPICE, PLC ETC.

PSO2: ABLE TO DESIGN AND DEVELOP THE GREEN ELECTRICAL SYSTEMS.

Industrial Visit to Electric Traction Training Centre

Students of III/IV B.Tech EEE, visited Electric Traction Training Centre on 27.10.2022. The main purpose of the visit is to create practical awareness on traction.

At 9.00 AM in the college campus all the students gathered and went to Electric Traction training Centre by College bus. In the morning session they have undergone a training session in training hall. Post lunch session was visit to plant. Students were divided into batches and provided individual guides per batch and were explained.



Online Workshop on Virtual Labs

14th of September 2022

Good lab facilities and updated lab experiments are critical for any engineering college. Paucity of lab facilities often make it difficult to conduct experiments. Also, good teachers are always a scarce resource. The Virtual Labs project addresses this issue of lack of good lab facilities, as well as trained teachers, by providing remote-access to simulation-based Labs in various disciplines of science and engineering. Yet another objective is to arouse the curiosity of the students and permit them to learn at their own pace. Virtual labs are any place, any pace, any-time, any-type labs. It is a paradigm shift in student-centric, online education.

Online workshop with Hands on experience is given to the students of II and III EEE regarding the use of Virtual labs for conducting the experimentation on 14th of September 2022 at Electrical Simulation Lab. Students got trained to do experiments through virtual labs without the physical presence.



Career after B.Tech

13th September 2022

The right knowledge is clearly a critical success factor in business. The right knowledge implies relevant, contemporary and cutting-edge knowledge, in the theory and practice of a variety of core, functional and integrative subjects. As practice precedes theory in business, equal emphasis is placed on concepts and applications. This blending of ideas and actions is achieved through various pedagogic techniques like lectures, case studies, business games, the summer internship program, the management research project, etc.

A seminar was conducted on 13th September 2022 on the title “ Career after B.Tech for EEE Discipline”. Mr. Korukonda Naveen, Manager IB ICFAI BUSINESS SCHOOLS addressed the students regarding the career opportunities. Students of IV year EEE have participated in the program and acquired knowledge.



SANKRANTHI CELEBRATIONS

14th of January

Sankranti celebrated across the country in different ways and the cultural significance of the festival varies geographically as we move from one state to another, with every state celebrating and welcoming the new season of harvest in their own indigenous manner. What makes the festival stand apart from the other Indian Hindu Festivals is the fact that the date of Makar Sankranti is fixed. Makar means Capricorn and Sankranti is transition. It is one of the major Indian harvest festivals celebrated on 14th of January of every year. It is an important festival of the Hindus and celebrated almost everywhere in the country in myriad cultural forms and different names. Every region celebrates it in innumerable ways, according to the localization, culture, and traditions.



TRADITIONAL WALK



WINNER

RANGOLI



II Prize

- 208T1A0212 K.Sirisha -III EEE
- 208T1A0206 Ch. Padmaja – III EEE
- 208T1A0207 Ch. Eswari – III EEE
- 218T5A0202 M. Sravani - III EEE
- 218T5A0204 N. Jaya Sree - III EEE

Built your own IoT devices for Agricultural Applications

13th to 17th February 2023

IoT in agriculture uses robots, drones, remote sensors, and computer imaging combined with continuously progressing machine learning and analytical tools for monitoring crops, surveying, and mapping the fields, and providing data to farmers for rational farm management plans to save both time and money.

A six day skill development program was conducted from 13th to 17th February 2023 on the theme “ Built your own IoT devices for Agricultural Applications”. Dr. B Pruthvi nath, Assistant Professor, Electronics and Communication Engineering Department, Dhanekula Institute of Engineering and Technology, Vijayawada gave training to the students regarding the IoT applications in the field of Agriculture. Students of II year EEE have participated in the program and acquired knowledge and skill.





SAFE&ALC SCIENCE EXPO-2023

02/03/2023-04/03/2023

The science expo will be held on march 2023 at andhra loyala college. Our electrical students participated on that expo with new innovation ideas.





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