



ELECTRO VISION 2k24

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

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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. INEERING 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 PROVIDEVALID CONCLUSIONS.
- 5. MODERN TOOL USE:** CREATE, SELECT, AND APPLY APPROPRIATE TECHNIQUES, RESOURCES, AND MODEM ENGINEERING AND IT TOOLS INCLUU PREDICTION AND MODELLING TO COMPLEX ENGINEERINGTIES 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 COMIT 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 NTTPS

8-10-2023

- *The students of EEE 3rd year has been visited “narla tatarao thermal power station” as an industrial visit, on 8-10-2023.*
- *In the morning session the students attended the tutorial classes and in the evening thermal plant visit has done.*





ABOUT THE PLANT:

DR. NARLA TATA RAO THERMAL POWER PLANT IS ALSO KNOWN VIJAYAWADA THERMAL POWER PLANT. IT WAS DEVELOPED UNDER 4 STAGES, WITH THE PROJECT COST OF RS 193 CRORES AND RS 511 CRORES RESPECTIVELY. AGAIN WITH AN INVESTMENT OF RS 840 CRORES 2 UNITS WERE COMMISSIONED UNDER III STAGE. THE SEVENTH UNIT OF 500 MW WAS COMMISSIONED IN 2009. THE STATION STOOD FIRST IN COUNTRY DURING 94-95, 95-96, 96-97, 97-98 AND 2001-02 BY ACHIEVING THE HIGHEST PLANT LOAD FACTOR. THE STATION HAS RECEIVED MANY PRESTIGIOUS AWARDS FROM VARIOUS ORGANIZATIONS.

- *BY THIS INDUSTRIAL VISIT THE STUDENTS GOT AN PRACTICAL KNOWLEDGE ABOUT HOW THE ELECTRICITY IS PRODUCED IN THE THERMAL PLANT.*

DESIGN OF ELECTRIC VEHICLE USING MATLAB

- *DESIGNING AN ELECTRIC VEHICLE (EV) USING MATLAB INVOLVES VARIOUS ASPECTS SUCH AS MODELING, SIMULATION, AND ANALYSIS TO OPTIMIZE THE PERFORMANCE OF THE VEHICLE'S COMPONENTS.*
- *THE STEPS INVOLVED IN DESIGNING AN ELECTRIC VEHICLE USING MATLAB: SYSTEM MODELLING, ELECTRIC MOTOR MODELLING, BATTERY MODELLING, POWER ELECTRONICS MODELLING, VEHICLE DYNAMICS MODELLING, ENERGY MANAGEMENT SYSTEM, CHARGING SYSTEM MODELLING, PERFORMANCE OPTIMIZATION, SIMULATION AND ANALYSIS, VALIDATION AND TESTING.*





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ENERGY SWARAJ FOUNDATION

8-1-2024

All the Students of I,II,III B.Tech and Diploma students of all branches that a Seminar is being conducted on “Energy Literacy Training” by Energy Swaraj Foundation on 8th January 2024 at College Auditorium at 11:45AM by Prof. Chetan Singh Solanki (Solar Man of India) addressing climate change and innovative solutions.

- *By the work done by the eee students ,we have reached a milestone of completing 1000+ certifications and received a golden certificate for the branch*





AWARENESS PROGRAM ON ROAD SAFETY

- ON 27-01-2024 AS A PART OF ROAD SAFETY AN AWARENESS PROGRAM WAS CONDUCTED BY NATIONAL SERVICE SCHEME (NSS) UNIT, DHANEKULA INSTITUTE OF ENGINEERING & TECHNOLOGY. THIS PROGRAM WAS HEADED BY MR. CH. PRABHAKAR, TRAFFIC SI OF PENAMALURU. IN THIS PROGRAM HE GUIDED THE STUDENTS REGARDING SAFETY MEASURES TO BE TAKEN WHILE DRIVING AND CONSEQUENCES HAVE TO FACE FOR VIOLATING RULES. A TOTAL OF 54 NSS MEMBERS ALONG WITH THEIR COORDINATORS HAD ATTENDED AND ACTIVELY PARTICIPATED IN RALLY.



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STUDENT'S ACHIEVEMENTS

KRISHNA & NTR DISTRICT WEIGHT LIFTING SPORTS COMPETATION

- ON 11-05-2023 THE STUDENT OF EEE 3RD YEAR, MD.SALEHA HAS WON A GOLD MEDAL IN DISTRICT WISE WEIGHT LIFTING COMPETATION .



DISTRICT DECLAMATION CONTEST

THEME: MY BHARAT VIKASIT BHARAT 2047

- THE EVENT ON MY BHARAT VIKASITH BHARAT 2047, "BY THE YOUTH -FOR THE YOUTH" ON 8-1-2024 AT CSE SEMINAR HALL THE IIND YEAR AND IIIRD YEAR STUDENTS ARE PARTICIPATED
- IN THIS EVENT IIIRD YEAR EEE STUDENT MR.K.SAI HAS WON 2ND PRICE



- And also the CT,PT's are manufactured and tested.





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