

PROGRAM EDUCATIONAL OBJECTIVE (PEOS) OF ELECTRICAL ENGINEERING

- PEO 1:** Graduate demonstrating a blend of engineering technology & professional skills in Electrical Engineering & allied disciplines.
- PEO 2:** Graduate performing ethically & socially in a sustainable & responsible manner, as an individual & team member.
- PEO 3:** Graduate striving to enhance learning and practising skills.

PROGRAM LEARNING OUTCOMES (PLOS) OF ELECTRICAL ENGINEERING

- PLO 1:** **Engineering Knowledge:** An ability to apply knowledge of mathematics, science and engineering fundamentals and an engineering specialization to the solution of complex engineering problems. (WK-1-WK-4)
- PLO 2:** **Problem Analysis:** An ability to identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences. (WK-1-WK-4)
- PLO 3:** **Design/Development of Solutions:** An ability to design solutions for complex engineering problems and design systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations. (WK-5)
- PLO 4:** **Investigation:** Conduct investigation of complex engineering problems in a methodical way including literature survey, design and conduct of experiments, analysis and interpretation of experimental data, and synthesis of information to derive valid conclusions. (WK-8).
- PLO 5:** **Tool Usage:** An ability to 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. (WK-2 and WK-6)
- PLO 6:** **The Engineer and the World:** To analyze and evaluate sustainable development impacts to society, the economy, sustainability, health and safety, legal frameworks, and the environment while solving complex engineering problems. (WK-1, WK-5, and WK-7)
- PLO 7:** **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice. (WK-9)
- PLO 8:** **Individual and Collaborative Team Work:** An ability to work effectively, as an individual or in a team, on multifaceted and/or multidisciplinary settings. (WK-9)
- PLO 9:** **Communication:** To communicate effectively, orally as well as in writing 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 documentations, make effective presentations, and give and receive clear instructions. (WK-1 and WK-9)
- PLO 10:** **Project Management and Finance:** Ability to demonstrate management skills and apply engineering principles to one's own work, as a member and/or leader in a team to manage projects in a multidisciplinary environment. (WK-2 and WK-5)
- PLO 11:** **Lifelong Learning:** To recognize importance of, and pursue lifelong learning in the broader context of innovation and technological developments. (WK-8 and WK-9)

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