

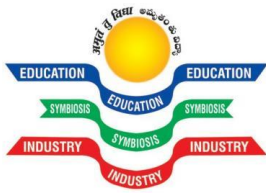
Department of Electrical & Electronics Engineering

Department's Vision

To be a hub of globally competent engineers equipped with knowledge, skills and behaviour for their exemplary contributions to the real time requirements in the field of electrical and electronics engineering.

Department's Mission

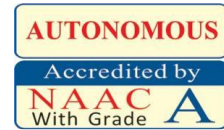
- ❖ To impart technical knowledge to the learners and make them globally competent through the state of the art laboratories and instruction by highly qualified and experienced faculty.
- ❖ To inculcate industry oriented learning by frequent industrial visits, MOUs, internships and make them technically strong power engineers.
- ❖ To produce robust professionals with a wide repertoire of managerial & technical skills, ethical values and make them successful in meeting the needs of the society.



DVR & Dr. HS

MIC College of Technology

ISO 9001:2015 Certified Institute
(Approved by AICTE & Permanently Affiliated to JNTUK, Kakinada)
Kanchikacherla - 521180, NTR Dist, A.P, India.
Phones: 08678 - 273535 / 94914 57799 / 73826 16824
E mail: office@mictech.ac.in, Website: www.mictech.edu.in



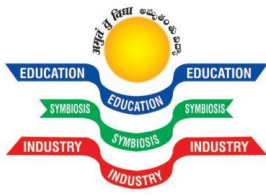
Program Educational Objectives

PEO1: To provide students, a strong foundation in core areas of electrical engineering along with engineering mathematics, Sciences and usage of modern tools to make them globally competent in designing, modelling and critical problems solving

PEO2: To create research interest in core and multi-disciplinary areas for lifelong and provide solutions to engineering problems for sustainable development of society.

PEO3: To bring in holistic growth of the graduates by inculcating socio-ethical values, communication and life skills.

PEO4: To strive for getting employment or higher education and be able to work in supportive and leadership roles.



Program Outcomes (PO)

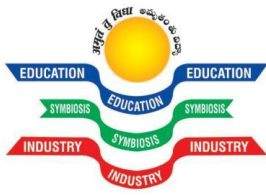
PO 1: Engineering knowledge: Apply the knowledge of mathematics science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

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.

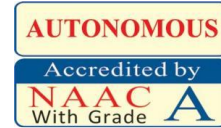
PO 5: Modern tool usage: create, select, and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.



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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.

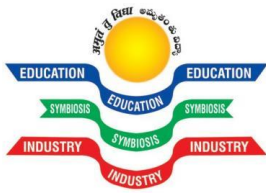
PO 7: Environment and sustainability: understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

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.

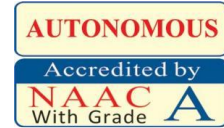
PO 10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentation, and give and receive clear instructions.

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.



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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 Specific Program Outcomes (PSPO)

PSO 1: An ability to interpret, analyze and design Electrical machines, Control Systems, Power Systems and Power Electronics Systems.

PSO 2: An ability to use modern tools to analyze and design Electrical and electronic systems for providing Engineering solutions in societal and environmental contexts.