

THENI MELAPETTAI HINDU NADARGAL URAVINMURAI



NADAR SARASWATHI COLLEGE OF ENGINEERING & TECHNOLOGY



Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

ISO 9001 : 2015 Certified Institution

Vadapudupatti, Annanji (po), Theni - 625 531,
Tamilnadu, India.

Department of Electrical and Electronics Engineering

Program Specific Outcomes

To Ensure Graduates :

- Make use of the basic concepts in Electrical and Electronics Engineering and its specialization to solve the complex problems in power systems, control systems, electrical drives and embedded systems.
- Analyze suitable controllers and power converters for the power system considering the impact on the society and health.

Program Educational Objectives

Graduates Will Be Able To :

- Bachelor of Electrical and Electronics Engineering curriculum is designed to prepare the graduates having attitude and knowledge to have successful technical and professional careers in their chosen fields such as circuit theory, Field theory, control theory and computational platforms.
- Engross in life long process of learning to keep themselves abreast of new developments in the field of electronics and their applications in power engineering.

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Department of Civil Engineering

Program Specific Outcomes

To Ensure Graduates :

- Capable of designing and building Civil Engineering-based systems in the context of environmental, economical, and societal requirements and serve the community as ethical and responsible professionals.
- Able to use Knowledge in various domains in Civil Engineering to identify research gaps and hence to provide solutions, Innovations and engage in lifelong learning for professional growth.

Program Educational Objectives

Graduates Will Be Able To :

- Cultivate the necessary skills and knowledge for students to excel in Civil Engineering roles within both domestic and international corporations.
- Enhance students' ability to synthesize data and technical concepts, and proficiently utilize modern engineering tools for effective problem-solving in Civil Engineering.
- Foster an environment that encourages lifelong learning, graduate studies, and collaborative efforts on multi-disciplinary projects throughout their professional journey.

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Department of Artificial intelligence and data science

Program Specific Outcomes

To Ensure Graduates :

- Evolve AI based efficient domain specific processes for effective decision making in several domains such as business and governance domains.
- Arrive at actionable foresight, insight, hindsight from data for solving business and engineering problems
- Create, select and apply the theoretical knowledge of AI and Data Analytics along with practical industrial tools and techniques to manage and solve wicked societal problems
- Develop data analytics and data visualization skills, skills pertaining to knowledge acquisition, knowledge representation and knowledge engineering, and hence capable of coordinating complex projects.
- Able to carry out fundamental research to cater to the demands of the critical needs of the society through the cutting edge technology of AI.

Program Educational Objectives

Graduates Will Be Able To :

- Utilize their proficiencies in the fundamental knowledge of basic Sciences, Mathematics, Artificial Intelligence, Data Science and Statistics to build systems that require management and analysis of large volumes of data.
- Advance their technical skills to pursue pioneering research in the field of AI and Data Science and create disruptive and sustainable solutions for the welfare of ecosystems.
- Think logically, pursue lifelong learning and collaborate with an ethical attitude in a multidisciplinary team.
- Design and model AI based solutions to critical problem domains in the real world.
- Exhibit innovative thoughts and creative ideas for effective contribution towards economy building.

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PROGRAMME OUTCOMES (Po's)

Engineering Graduates will be able to:

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 analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
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.
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 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.
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 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 : 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.