

ADITYA ENGINEERING COLLEGE

An Autonomous Institution

Approved by AICTE • Permanently Affiliated to JNTUK • Accredited by NAAC with 'A' Grade

Recognised by UGC under sections 2(f) and 12(B) of UGC Act, 1956

Aditya Nagar, ADB Road, Surampalem - 533437, Near Kakinada, E.G.Dt., Ph:99498 76662

Programme: Power Electronics and Drives

Vision & Mission

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We are the power of the World
ELECTRICAL ENGINEERING

Department of Power Electronics and Drives

Our Vision

To excel in electrical education, research and technological services in tune with societal needs.

Quick Links

- About
- Our Vision**
- Our Mission
- Programmes offered
- PG
- PSO
- PEO
- Faculty / Supporting Staff
- Advanced Learners and Slow Learners

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Vision

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Department of Power Electronics and Drives

Our Mission

M1:
Impart quality education and services towards skills.

M2:
Develop cutting edge at research and sustainable technologies, by collaborating with industries

M3:
Nurture scientific temperament, Professional ethics among the stakeholders

Quick Links

- About
- Our Vision
- Our Mission**
- Programmes offered
- PG
- PSO
- PEO
- Faculty / Supporting Staff
- Advanced Learners and Slow Learners
- Facilities
- Newsletters

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Mission

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Program Outcomes (POs)

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Department of Power Electronics and Drives

PROGRAM OUTCOMES

PO 1:
Scholarship of Knowledge: Acquire in-depth knowledge of specific discipline or professional area, including wider and global perspective, with an ability to discriminate, evaluate, analyse and synthesise existing and new knowledge, and integration of the same for enhancement of knowledge.

PO 2:
Critical Thinking: Analyse complex engineering problems critically, apply independent judgement for synthesising information to make intellectual and/or creative advances for conducting research in a wider theoretical, practical and policy context.

PO 3:
Problem Solving: Think laterally and originally, conceptualise and solve engineering problems, evaluate a wide range of potential solutions for those problems and arrive at feasible, optimal solutions after considering public health and safety, cultural, societal and environmental factors in the core areas of expertise.

PO 4:
Research Skill: Extract information pertinent to unfamiliar problems through literature survey and experiments, apply appropriate research methodologies, techniques and tools, design, conduct experiments, analyze and interpret data, demonstrate higher order skill and view things in a broader perspective, contribute individually/in group(s) to the development of scientific/technological knowledge in one or more domains of engineering.

PO 5:
Usage of modern tools: Create, select, learn and apply appropriate techniques, resources, and modern engineering and IT tools, including Prediction and modelling, to complex engineering activities with an Understanding of the limitations.

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PO 6:
Collaborative and Multi disciplinary work: Possess knowledge and understanding of group dynamics, recognise opportunities and contribute positively to collaborative-multidisciplinary scientific research, demonstrate a capacity for self-management and teamwork, decision-making based on open-mindedness, objectivity and rational analysis in order to achieve common goals and further the learning of themselves as well as others.

PO 7:
Project Management and Finance: Demonstrate knowledge and understanding of engineering and management principles and apply the same to one's own work, as a member and leader in a team, manage projects efficiently in respective disciplines and multidisciplinary environments after consideration of economical and financial factors.

PO 8:
Communication: Communicate with the engineering community, and with society at large, regarding complex engineering activities confidently and effectively, such as, being able to comprehend and write effective reports and design documentation by adhering to appropriate standards, make effective presentations, and give and receive clear instructions.

PO 9:
Life-long Learning: Recognize the need for, and have the preparation and ability to engage in life-long learning independently, with a high level of enthusiasm and commitment to improve knowledge and competence continuously.

PO 10:
Ethical Practices and Social Responsibility: Acquire professional and intellectual integrity, professional code of conduct, ethics of research and scholarship, consideration of the impact of research outcomes on professional practices and an understanding of responsibility to contribute to the community for sustainable development of society.

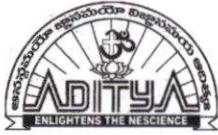
PO 11:
Independent and Reflective Learning: Observe and examine critically the outcomes of one's actions and make corrective measures subsequently, and learn from mistakes without depending on external feedback.

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Program Specific Outcomes (PSOs)

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Department of Power Electronics and Drives

PROGRAM SPECIFIC OUTCOMES

PSO 1:
Apply power electronic concepts and practices into power electronics and drives for the betterment of industry as well as society.

PSO 2:
Explore and analyze complex engineering problems in power electronics and electrical drives industries.

PSO 3:
Apply project management techniques to electrical and electronics systems.

Quick Links

- About
- Our Vision
- Our Mission
- Programmes offered
- PO
- PSO**
- PEO
- Faculty / Supporting Staff
- Advanced Learners and Slow Learners
- Facilities

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Program Educational Objectives (PEOs)

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Department of Power Electronics and Drives

PROGRAM EDUCATIONAL OBJECTIVES

PEO 1:
Provide the students with a solid foundation in mathematics, science and engineering to solve Power electronics and Drives problems and also to pursue research in the appropriate technological context.

PEO 2:
Prepare the students with strong scientific and engineering temperament to work individually as well as in teams to comprehend, analyze, design and create acceptable solutions for the real life problems.

PEO 3:
Inculcate a sense of ethics, professionalism, multidisciplinary approach, entrepreneurial thinking and effective communication skills in the postgraduates.

PEO 4:
Provide an academic ambience that allows to improve the hard and soft skills and to grow the habit of self learning so as to engage in lifelong learning for a successful professional carrier.

Quick Links

- About
- Our Vision
- Our Mission
- Programmes offered
- PO
- PSO
- PEO**
- Faculty / Supporting Staff
- Advanced Learners and Slow Learners
- Facilities
- Newsletters
- Laboratory

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