



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 : Civil Engineering

Vision & Mission

Build the Future with
CIVIL ENGINEERING

Department of Civil Engineering

Our Vision

To be a recognized leader in civil engineering with values and innovation

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Vision

Department of Civil Engineering

Our Mission

M1:
Practice quality learner centric teaching learning process abreast with changing industry needs and societal challenges

M2:
Provide Quality infrastructure that encourages innovation.

M3:
Establishing successful industry and institutional collaboration

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Mission

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Program Outcomes (POs)

Department of Civil Engineering

PROGRAM OUTCOMES

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

PO 2:
Identify, formulate, research literature and analyze complex engineering problems, reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

PO 3:
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.

PO 4:
Conduct investigations of complex problems using research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions.

PO 5:
Create, select 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:
Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice.

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

PO 8:
Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.

PO 9:
Function effectively as an individual, and as a member or leader in diverse teams and in multidisciplinary settings.

PO 10:
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.

PO 11:
Demonstrate knowledge and understanding of engineering management principles and apply these to one's own work, as a member and leader in a team and to manage projects in multidisciplinary environments.

PO 12:
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.

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Program Specific Outcomes (PSOs)

Build the Future with
CIVIL ENGINEERING

Department of Civil Engineering

PROGRAM SPECIFIC OUTCOMES

PSO 1:
Survey, map, measure and analyse data for sustainable smart city infrastructure

PSO 2:
Design Water supply and waste water treatment systems for Public Health and safety

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Program Educational Objectives (PEOs)

Build the Future with
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Department of Civil Engineering

PROGRAM EDUCATIONAL OBJECTIVES

PEO 1:
Pursue research in the emerging areas

PEO 2:
Analyze, design and build safe, sustainable and economical structures

PEO 3:
Engage in life-long learning to serve for the betterment of the environment

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