

# 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: Agricultural Engineering

### Vision & Mission

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Preparing professionals to meet Tomorrow's Needs  
**AGRICULTURAL ENGINEERING**

Department of Agricultural Engineering

**Our Vision**

To make the Agricultural Engineering education known for its contribution to agriculture and allied fields in making agriculture more sustainable and profitable.

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### Vision

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Preparing professionals to meet Tomorrow's Needs  
**AGRICULTURAL ENGINEERING**

Department of Agricultural Engineering

**Our Mission**

M1:  
Implementation of new technologies for the farmers on sustainable food production through precision agriculture and mechanized food processing.

M2:  
Educating the students to integrate knowledge of agricultural engineering fundamentals and design of systems involved in food production, processing, storage, handling, distribution and use of food.

M3:  
Developing the good atmosphere/foundation between the students and faculty to perform and lead engineering projects and make significant contributions for the benefit farming community

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### Mission

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## Program Outcomes (POs)

Department of Agricultural 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.

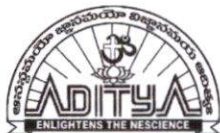
**PO 11:**  
Demonstrate knowledge and understanding of engineering management principles and apply these to one's own work, as a member and leader in a team and to manage projects in multidisciplinary environments.

**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)

Department of Agricultural Engineering

**PROGRAM SPECIFIC OUTCOMES**

**PSO 1:**  
Develop skills necessary to design the process and evaluate and come out with problem solutions of farm implements through adequate farm power for sustainable agriculture and to gain better employment in various industries of agricultural engineering.

**PSO 2:**  
Develop expertise in planning and management of natural resources through advanced soil and water conservation techniques and various irrigation and drainage methods with the skill of data interpretation

**PSO 3:**  
Contribute towards enhancing farmer income & play a dynamic role in the circular economy through technology intervention in promoting sustainable food supply chain & processing of agro-food produce

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## Program Educational Objectives (PEOs)

Department of Agricultural Engineering

**PROGRAM EDUCATIONAL OBJECTIVES**

**PEO 1:**  
Develop diverse capability to work with tractor industries, seed processing industries, irrigation companies and also to run self entrepreneurship like dairy farming and custom hiring centers

**PEO 2:**  
Solve real time engineering problems using professional knowledge and skills resulting in significant societal development.

**PEO 3:**  
Demonstrate multidisciplinary skills to analyze engineering issues in a broader perspective with ethical responsibility towards sustainable development.

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