



ACHARYA NAGARJUNA UNIVERSITY

ఆచార్య నాగార్జున విశ్వవిద్యాలయం

Accredited by NAAC with 'A' Grade

DEPARTMENT OF MECHANICAL ENGINEERING

COLLEGE OF ENGINEERING & TECHNOLOGY

Vision

To create a team of mechanical engineers on par with international community who can improve the performance of existing designs and develop new products required for the development of the country.

Mission

- The Mechanical Engineering department strives to impart to students
- Broad-based engineering education with in-depth knowledge of Mechanical engineering aimed at product development.
- Orientation towards research in order to architect solutions in Mechanical Engineering
- Ability to work in a multi-disciplinary environment and to contribute effectively in developing products / efficient systems

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

The PEOs for the Department are defined by considering the industry requirements, parents & students expectations and to motivate students towards research. The PEOs are defined for the programme for the attainment of Mission of the department.

PEO1 - Technical & Employability Skills

Core competence of students will improve their chances of employability and these are acquired during and after completion of their under graduation course and enable the students to solve problems of industrial and research areas.



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PEO2 -Self Learning & Problem Solving

Engineering education imparts theoretical and experimental capabilities to the students and helps in solving problems at the work situations & core competence, team working abilities developed during their education will improve the problem solving abilities.

PEO3 - Leadership Quality & Professional Ethics

During their education students acquire virtues such as sincerity, honesty etc. and also core competence and enables them to take initiative in their work situations. They adhere to principles like “intellectual honesty” during their professional career in industry and research institutes.

PROGRAMME OUTCOMES (Pos)

PO1 - Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2 - 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.

PO3 - 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.

PO4 - 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.

PO5 - Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including predication and modeling to complex engineering activities with an understanding of the limitations.

PO6 - 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.

PO7 - 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.

PO8 - Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.

Nagarjuna Nagar, Guntur- 522510, Andhra Pradesh

<https://www.nagarjunauniversity.ac.in/>



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PO9 - Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 - 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.

PO11 - 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.

PO12 - 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.

Programme Specific Outcomes

PSO-1: Our graduate engineers will apply all the basic principles of mechanical engineering required in both private and public sector organizations.

PSO-2: We produce graduate engineers specialized in thermal manufacturing and design.

PSO-3: Our students are well equipped with industrial management skills, and interdisciplinary technologies


HEAD OF THE DEPARTMENT

Dr. M. GOPI KRISHNA, M.E, M.I.S.T.E., Ph.D.
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Dept. of Mechanical Engineering
University College of Engineering & Technology
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PRINCIPAL

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REGISTRAR

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