



# A.M. REDDY

Memorial College of Engineering and Technology

Approved by AICTE, New Delhi, Affiliated to JNTUK-Kakinada

SPONSORED BY

ATLURI MASTAN REDDY EDUCATIONAL SOCIETY, REG. NO. 450/2003

An ISO 9001:2015 Certified Institution

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## Program Outcomes for UG & PG Programs

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## PROGRAM OUTCOMES FOR UG ENGINEERING PROGRAMS

- 1. Engineering Knowledge:** Apply the knowledge of basic sciences and engineering fundamentals to solve engineering problems.
- 2. Problem Analysis:** Analyze the complex engineering problems and give solutions related to chemical & allied industries
- 3. Design/ development of solutions:** Identify the chemical engineering problems, design and formulate solutions to solve both industrial & social related problems.
- 4. Conduct investigations of complex problems:** Design & conduct experiments, analyze and interpret the resulting data to solve Chemical Engineering problems
- 5. Modern tool usage:** Apply appropriate techniques, resources and modern engineering & IT tools for the design, modeling, simulation and analysis studies.
- 6. The engineer and society:** Assess societal, health, safety, legal and cultural issues and their consequent responsibilities relevant to professional engineering practice
- 7. Environment and sustainability:** Understand the relationship between society, environment and work towards sustainable development.
- 8. Ethics:** Understand their professional and ethical responsibility and enhance their commitment towards best engineering practices.
- 9. Individual and team work:** Function effectively as a member or a leader in diverse teams, and be competent to carry out multidisciplinary tasks
- 10. Communication:** Communicate effectively in both verbal & non-verbal and able to comprehend & write effective reports.
- 11. Project management and finance:** Understand the engineering and management principles to manage the multidisciplinary projects in whatsoever position they are employed.
- 12. Life-long learning:** Recognize the need of self education and life-long learning process in order to keep abreast with the ongoing developments in the field of engineering.

  
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## DEPARTMENT OF CIVIL ENGINEERING

### M.TECH-STRUCTURAL DESIGN

#### Program Outcomes (POs):

- PO-1:** An ability to independently carry out research/investigation and development work to solve practical problems.
- PO-2:** Ability to Write and present a substantial technical report/document.
- PO-3:** Students should be able to demonstrate a degree of mastery over the area as per the specialization of the program. The mastery should be at a level higher than the requirements in the appropriate bachelor program.
- PO-4:** Capable to apply the core, multidisciplinary knowledge for understanding the problems in structural engineering and allied fields
- PO-5:** Conceptualize and design civil engineering structures considering various socio-economic factors
- PO-6:** Engage in life-long learning for continuing education in research-level studies and professional development

#### Program educational objectives (PEOs):

- PEO-1:** Develop the skills for development of new materials, design and construction of structures that are sustainable
- PEO-2:** Expose the students to the latest innovations and trends with a view to inculcate research orientation in structural engineering as well as in multidisciplinary streams.
- PEO-3:** Adapt to the technological advancements for professional development to cater for the changing needs of the society through critical thinking
- PEO-4:** Become as Professional Engineers, teaching experts and engage in Research and Development works both with ethically and societal responsibility

#### Program specific outcomes (PSOs):

- PSO-1:** The graduates of this programme will be able to meet the needs of public in the design and execution of quality construction work considering principles of mechanics mathematics and physics to construct sustainable buildings that will ensure safety and durability till the service period.
- PSO-2:** The graduates will calculate the loads and the stresses acting on the building. Analysis for the loads and design sections of structures to sustain the loads using building analysis software packages
- PSO-3:** The graduates will be able to work effectively as an individual or in a team having acquired leadership skills and manage projects in multidisciplinary environments

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## M.TECH-TRANSPORTATION ENGINEERING

### **Program outcomes (POs):**

- PO-1:** Demonstrate skill for planning, design, construction and maintenance of transportation projects.
- PO-2:** Assessment of environmental and its allied issues to the construction of the Transportation projects
- PO-3:** Demonstrate skills to use modern engineering tools, software and equipments to analyze problems and evolve solutions
- PO-4:** To enhance communication skills and successfully apply research aptitude among students to R&D activities and consultancy works

### **Program educational objectives (PEOs):**

- PEO-1:** Graduates of the program will have in-depth knowledge to identify and formulate challenging problems in transportation engineering, apply appropriate research methodologies, use modern engineering tools and provide technically sound, economical and sustainable solutions
- PEO-2:** Graduates will have ability for higher studies and undertake high value research on transportation engineering and other related issues
- PEO-3:** Graduate of program will have sound analytical and lateral thinking ability to engage in lifelong learning for professional advancement to cope up with multidisciplinary and changing technologies in transportation engineering
- PEO-4:** Graduates of the program will have sense of social responsibility, will demonstrate ability to communicate and work effectively as a team member in an ethical way, and will play leadership roles in their profession, public services and community.

### **Program specific outcomes (PSOs):**

- PSO-1-** An Ability to apply standard practices and planning strategies for execution of civil Engineering works.
- PSO-2-** Design and development of Civil Engineering components using analytical, experimental and software skills

  
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