



AMC ENGINEERING COLLEGE

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COLLEGE VISION

“To be a leader in imparting value Based Technical Education and Research for the benefit of society”

COLLEGE MISSION

- To provide state of the art Infrastructure facilities.
- To implement modern Pedagogical Methods in delivering the Academic Programs with Experienced and Committed Faculty.
- To create a Vibrant Ambience that promotes Learning, Research, Invention and Innovation.
- To undertake Skill Development Programmes for Academic Institutions and Industries.
- To Enhance Industry Institute Interaction through Collaborative Research and Consultancy.
- To Relentlessly Pursue Professional Excellence with Ethical and Moral Values.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

DEPARTMENTAL VISION

“Be a premier department in the field of Computer Science & Engineering to meet the technological challenges of the society”

DEPARTMENTAL MISSION

- To provide State of the art Infrastructure Facilities.
- To provide exposure to the latest tools in the area of Computer Hardware and Software.
- To strive for Academic excellence through Research in Computer Science and Engineering with creative Teaching-Learning pedagogy.
- To establish Industry-Institute Interaction and make students ready for the Industrial environment.
- To transform Students into Entrepreneurial, Technically competent, socially responsible and ethical Computer Science Professional.

PROGRAM EDUCATIONAL OBJECTIVES (PEO)

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| PEO 1 | Graduates possess advanced knowledge of Computer Science & Engineering and excel in leadership roles to serve the society. |
| PEO 2 | Graduates of the program will apply Computer Engineering tools in core technologies for improving knowledge in the Interdisciplinary Research and Entrepreneurs. |
| PEO 3 | Graduates adapt Value-Based Proficiency in solving Real Time problems. |

PROGRAM SPECIFIC OUTCOMES (PSOs)

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| PSO-1 | Professional Skills: Ability of applying the Computing Concepts, Data Structure, Computer Hardware, Computer Networks and Suitable Algorithm. |
| PSO-2 | Software Skills: Ability to build Software Engineering System with Development Life Cycle by using analytical knowledge in Computer Science & Engineering and applying modern methodologies. |

PROGRAM OUTCOMES (POS)

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| 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 prediction 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 the engineering practice. |
| 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. |

