

MUFFAKHAM JAH

COLLEGE OF ENGINEERING AND TECHNOLOGY



Computer Science and Engineering Department

B.E. (Computer Science and Engineering)

PROGRAM EDUCATIONAL OBJECTIVES

1. Graduates will demonstrate technical skills and leadership in their chosen fields of employment by solving real time problems using current techniques & tools.
2. Graduates will communicate effectively as individuals or team members and be successful in the local and global cross cultural working environment.
3. Graduates will demonstrate lifelong learning through continuing education and professional development.
4. Graduates will be successful in providing viable and sustainable solutions within societal, professional, environmental and ethical contexts.

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Computer Science and Engineering Department

VISION

To contribute competent computer science professionals to the global talent pool to meet the constantly evolving societal needs.

MISSION

Mentoring students towards a successful professional career in a global environment through quality education and soft skills in order to meet the evolving societal needs.



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**COLLEGE OF ENGINEERING
AND TECHNOLOGY**

**COMPUTER SCIENCE
AND ENGINEERING
DEPARTMENT**

**B.E. (COMPUTER SCIENCE
AND ENGINEERING)**

PROGRAM SPECIFIC OUTCOMES

Graduates will be able to:

- PS01:** Demonstrate understanding of the principles and working of hardware and software aspects of computer systems.
- PS02:** Use professional engineering practices, strategies and tactics for the development, operation and maintenance of software.
- PS03:** Use knowledge in various domains to provide solution to new ideas and innovations.

PROGRAM OUTCOMES

Graduates will be able to:

- 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.