

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
GURU JAMBHESHWAR UNIVERSITY OF SCIENCE & TECHNOLOGY, HISAR**

Programme Outcomes (POs)

In order to achieve the PEOs, we expect our students to attain the following outcomes by the time of their graduation. The Programme graduates will have:

- PO1. an ability to understand and apply mathematical concepts, algorithmic principles and computer science theory in solving computing based real world problems.
- PO2. an ability to understand and apply advanced networking and security of information systems' concepts.
- PO3. an ability to understand, apply and design Computationally Intelligent techniques/algorithms to solve problems that do not map to mathematical models.
- PO4. an ability to understand and apply database design and knowledge mining techniques for complex predictive and descriptive modeling tasks.
- PO5. an ability to understand and apply the principles of computer architecture and micro-processors based systems.
- PO6. an ability to grasp and specify the requirements of resources to solve a computing problem and further model, design, implement and validate the provided computing solution to meet the specified requirements subject to real-world constraints on time and finance.
- PO7. an ability to critically analyze/examine/judge the existing knowledge about a research problem/domain, identify and formulate a research problem and subsequently select appropriate research methodologies and tools to address the problem.
- PO8. ability to design and conduct research experiments, analyze and interpret data and results related to Computer Science and Engineering problems.
- PO9. an ability to propose original ideas and design novel solutions and communicate them effectively to the stakeholders verbally as well as in writing.
- PO10. an ability to learn and apply modern engineering tools and software to solve problems, to understand the limitations of various tools in context of the domain of the problem and overcome them by extending the functionalities of the available tools or building an interface between different tools.
- PO11. an ability to work individually or in a team exhibiting the leadership qualities.
- PO12. an ability to engage in lifelong learning and tackle unforeseen problems.
- PO13. reflect true professionalism and ethical behaviour in his/her work and understand contemporary issues and the impact of engineering solutions in a global, economic, environmental and societal context.

Programme Educational Objectives (PEOs)

The educational objectives of the M. Tech. (CSE) Programme are:

- PEO1. To set high academic goals for the graduating students and to train them in applying and extending the knowledge to the benefit of the society at large.
- PEO2. To produce post-graduates with a sound theoretical and practical knowledge in the discipline of Computing Science and Engineering.
- PEO3. To create knowledgeable and enthusiastic teaching professionals to engage in higher education institutions.
- PEO4. To craft technically competent, proficient and responsible professionals for IT and its related industries.
- PEO5. To establish a research tradition that supports our post-graduates for pursuing research careers in premier universities and research institutes/organisations in India and abroad.