



2.6. Student Performance and Learning Outcomes

2.6.1 The institution has stated learning outcomes (Program and Course outcomes), graduate attributes, which are integrated into the assessment process and widely published through the website and other documents, and the attainment of the same is evaluated by institution.





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Sector 55, Golf Course Road, Gurugram-122003

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SCHOOL OF ENGINEERING & TECHNOLOGY

VISION

To emerge as a global centre of excellence in engineering and technology education, fostering innovation, research, and sustainable development. We aim to produce highly skilled, socially responsible, and industry-ready professionals who contribute meaningfully to the advancement of society and the growth of technology.

MISSION

Educate students to think critically and creatively, identify and solve important technological problems, practice engineering with technical skills, have a high regard for ethical principles and understand economic and environmental responsibilities.

Perform high-quality research that advances technology while preparing future researchers for industrial, academic and government positions.

Contribute to Trans-disciplinary educational and research efforts to meet complex technological and societal needs.

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BCA (Bachelors of Computer Applications)

Programme Educational Objectives (PEO's)

The Program Educational Objective of the BCA (Bachelors of Computer Applications) is to:

- PEO1: Graduates will apply the knowledge of Computer Science Engineering to solve real world Engineering problems.
- PEO2: To ensure graduates with an outstanding knowledge of engineering, technology and its applied streams along with the management, humanities and various other interdisciplinary subjects for a successful career.
- PEO3: Enable graduates to acquire knowledge of relevant Technologies and multidisciplinary fields including broad social, ethical and environmental issues within which the engineering is practiced.
- PEO4: To create awareness and understanding within the graduates related to societal issues, apart from developing a sense of commitment to the community and profession with sincere.

Programme Specific Outcomes (PSO's)

On completion of the BCA degree the graduates will be able to:

- PSO1: Apply standard Software Engineering practices and strategies in real-time software project development using open-source programming environment or commercial environment to deliver quality product for the organization success.
- PSO2: Design and develop computer programs, computer-based systems in the areas related to algorithms, networking, web design, cloud computing, IoT and data analytics of varying complexity.
- PSO3: Acquaint with the contemporary trends in industrial/research settings and thereby innovate novel solutions to existing problems.

Programme Outcomes (POs)

- PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and engineering Specialization to the solution of complex engineering problems.
- PO2: Problem analysis: Identify, formulate, research literature, and analyze engineering problems to arrive at substantiated conclusions using first principles of mathematics, natural, and engineering sciences.
- PO3: Design/development of solutions: Design solutions for complex engineering problems and design system components, processes to meet the specifications with consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- PO4: Conduct investigations of complex problems: Use research-based knowledge 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 modelling 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 teams, and in multidisciplinary settings.
- PO10: Communication: Communicate effectively with the engineering community and with society at large. Be able to comprehend and write effective reports/documentation. Make effective presentations, and give and receive clear instructions.
- PO11: Project management and finance: Demonstrate knowledge and understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team. Manage projects 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.

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B. Tech Programme Computer Science Engineering

Programme Educational Objectives (PEOs)

The Programme Educational Objective of the B.Tech (Computer Science and Engineering) is to:

- PEO1. Graduates will apply the knowledge of Computer Science Engineering to solve real world Engineering problems.
- PEO2. To prepare graduates with an outstanding knowledge of engineering, technology and its applied domains along with the management, humanities and various other interdisciplinary subjects for a successful career.
- PEO3. Enable graduates to acquire knowledge of relevant Technologies and multidisciplinary fields including broad social, ethical and environmental issues within which the engineering is practiced.
- PEO4. To create awareness and understanding within the graduates related to societal issues, apart from developing a sense of commitment to the community and profession with sincere.

Programme Specific Outcomes (PSOs)

On completion of the B.Tech (Computer Science and Engineering) degree the graduates will be able to:

- PSO1. Apply standard Software Engineering practices and strategies in real time software project development using open-source programming environment or commercial environment to deliver quality product for the organization success.
- PSO2. Design and develop computer programs/computer-based systems in the areas related to algorithms, networking, web design, cloud computing, IoT and data analytics of varying complexity.
- PSO3. Acquaint with the contemporary trends in industrial/research settings and thereby innovate novel solutions to existing problems.

Programme Outcomes (POs)

- PO1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and engineering specialization to the solution of complex engineering problems.
- PO2. Problem analysis: Identify, formulate, research literature, and analyze engineering problems to arrive at substantiated conclusions using first principles of mathematics, natural, and engineering sciences.
- PO3. Design/development of solutions: Design solutions for complex engineering problems and design system components, processes to meet the specifications with consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- PO4. Conduct investigations of complex problems: Use research-based knowledge 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 modelling 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.
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- PO9. Individual and team work: Function effectively as an individual, and as a member or leader in teams, and in multidisciplinary settings.
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- 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.

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