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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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Programme Educational objectives(PEOs),Programme outcomes(POs),Programme specific Outcomes(PSOs)

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BTECH

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PEO-1 Graduates will apply the knowledge of Computer Science Engineering to solve real world Engineering problems.

PEO-2 To prepare 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.

PEO-3 Enable graduates to acquire knowledge of relevant Technologies and multidisplinary fields including broad social, ethical and environmental issues within which the engineering is practiced.

PEO-4 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.

15.2. Programme Outcomes (POs)

On successful completion of the program, the Computer Science and Engineering Graduates are expected to:

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.

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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.

15.3. Programme Specific Outcomes (PSO's)

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

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BCA

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15.1. Programme Educational Objectives (PEOs)

PEO-1 Graduates will apply the knowledge of Computer Science Engineering to solve real world Engineering problems.

PEO-2 To prepare 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.

PEO-3 Enable graduates to acquire knowledge of relevant Technologies and multidisplinary fields including broad social, ethical and environmental issues within which the engineering is practiced.

PEO-4 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.

15.2. Programme Outcomes (POs)

On successful completion of the program, the Computer Science and Engineering Graduates are expected to:

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.

15.3. Programme Specific Outcomes (PSO's)

On completion of the BCA (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