



M.Tech. (CSE)

PROGRAMME OBJECTIVES (POS)

The Programme Objectives of M. Tech (CSE) are:

1. Provide students with an in-depth understanding of advanced concepts, theories, and principles in various areas of computer science and engineering
2. Offer opportunities for students to specialize in specific areas such as artificial intelligence, machine learning, data science, cybersecurity, software engineering, computer networks, etc., based on their interests and career goals.
3. Cultivate research skills among students through coursework, projects, seminars, and thesis work, enabling them to contribute to the advancement of knowledge in their chosen field.

PROGRAM OUTCOMES (POS)

M. Tech (CS) programme has been designed to prepare graduates for attaining the following program outcomes:

1. Innovation and Creativity: Demonstrate creativity and innovation in designing and implementing solutions to address real-world challenges in computer science and engineering, leveraging cutting-edge technologies and methodologies.
2. Effective Communication: Effective communicators, capable of presenting technical information clearly and persuasively through written reports, oral presentations, and technical documentation, to diverse audiences including peers, professionals, and stakeholders.
3. Teamwork and Collaboration: Excel in teamwork and collaboration, demonstrating the ability to work effectively as part of multidisciplinary teams to achieve common goals and deliver high-quality outcomes.
4. Professionalism and Ethics: Uphold high standards of professionalism and ethical conduct in their practice, demonstrating integrity, honesty, accountability, and respect for diversity and inclusivity in all aspects of their work.
5. Adaptability and Lifelong Learning: Possess the adaptability and resilience to thrive in dynamic and evolving professional environments, embracing lifelong learning and continuing education to stay abreast of emerging technologies and trends in computer science and engineering.
6. Leadership and Management: Demonstrate leadership qualities and management skills, including decision-making, resource allocation, and project management, preparing them for roles of responsibility and leadership in academia, industry, and research organizations.
7. Impact and Contribution: Meaningful contributions to the advancement of knowledge and innovation in computer science and engineering, driving positive societal impact through their research, entrepreneurship, and professional practice.



Coordinator

Department of Computer Science & Engineering

North Campus, University of Kashmir

Delina, Baramulla - 193101

NAAC Accredited Grade 'A+'



B.Tech (CSE)

PROGRAMME OBJECTIVES (POS)

The Programme Objectives of B.Tech are:

1. The program aims to equip graduates with the knowledge, skills, and competencies needed to succeed as professionals in various sectors such as industry, government, academia, research, entrepreneurship, and consulting firms. This includes preparing them for diverse career paths and enabling them to make meaningful contributions to their respective fields.
2. The program aims to cultivate graduates who not only excel in their technical expertise but also contribute positively to society. This involves fostering qualities such as broad education, effective communication, ethical conduct, and social responsibility, enabling graduates to address societal challenges and make a difference in their communities.
3. The program aims to prepare graduates who are recognized by their peers for their analytical, design, and implementation skills. This involves developing strong problem-solving abilities, teamwork capabilities, and the capacity to apply theoretical knowledge to practical situations, leading to peer acknowledgment and professional esteem.
4. The program aims to instill in graduates a commitment to lifelong learning and continuous personal and professional development. This includes fostering a growth mindset, encouraging graduates to stay updated with advancements in their field, pursue further education and training, and adapt to evolving technologies and industry trends throughout their careers.

PROGRAMME OUTCOMES (POs)

The program objectives for a Bachelor of Technology (B.Tech) degree typically encompass a range of goals aimed at providing students with a solid foundation in engineering principles and preparing them for successful careers in the field. Here are some common program objectives:

1. **Fundamental Knowledge Acquisition:** Provide students with a comprehensive understanding of fundamental principles, theories, and concepts in their chosen engineering discipline, including mathematics, physics, and core engineering subjects.
2. **Technical Skills Development:** Equip students with the necessary technical skills and competencies to analyze, design, implement, and evaluate engineering systems, processes, and solutions effectively.
3. **Problem-solving Abilities:** Foster critical thinking and problem-solving skills among students, enabling them to tackle complex engineering problems creatively and systematically.
4. **Hands-on Experience:** Offer opportunities for students to gain practical hands-on experience through laboratory work, projects, internships, and industry collaborations, allowing them to apply theoretical knowledge to real-world engineering challenges.
5. **Interdisciplinary Understanding:** Promote an interdisciplinary approach to engineering education, encouraging students to explore connections between their field of study and other disciplines such as computer science, biology, economics, and environmental science.
6. **Communication and Collaboration:** Develop effective communication and teamwork skills among students, enabling them to collaborate with colleagues, present their ideas clearly, and work effectively in multidisciplinary teams.



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7. **Ethical and Professional Values:** Instill ethical and professional values in students, emphasizing the importance of integrity, responsibility, sustainability, and ethical conduct in engineering practice.
8. **Global Perspective:** Cultivate a global perspective among students, exposing them to diverse cultures, perspectives, and societal challenges, and preparing them to address global engineering issues in a culturally sensitive and socially responsible manner.
9. **Leadership and Management Skills:** Provide opportunities for students to develop leadership, project management, and entrepreneurship skills, preparing them for roles of responsibility and leadership in industry, academia, government, and non-profit organizations.
10. **Lifelong Learning and Professional Development:** Foster a culture of lifelong learning and continuous professional development among students, encouraging them to stay updated with advancements in their field, pursue further education, and engage in professional societies and activities.