

BACHELOR OF TECHNOLOGY (B. TECH) CIVIL ENGINEERING

Programme Duration 4 Years

Home / School of Engineering / Department of Civil Engineering / Bachelor of Technology (B. Tech) Civil Engineering

About Programme

B.Tech in Civil Engineering is a 4 years course divided into eight semesters. Through this course the students are provided in-depth theoretical and practical knowledge of civil engineering and construction design concepts along with the detailed knowledge of basic sciences subjects like applied chemistry, applied physics, applied mathematics, engineering drawing etc. The course curricula of civil engineering is a mix of analytical insights, quantitative abilities and experiential learning which is updated regularly, based on recent advances and demands of the industry with detailed learning to operate certain civil engineering software. Students are given hands on experience on well-equipped laboratories with modern sophisticated instruments. Students are given opportunity to work in field with 8th semester complete as of Industrial training.

Eligibility & Admission

Passed 10+2 examination with Physics and Mathematics as compulsory subjects along with

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PROGRAM FEE	AMOUNT
Registration Fee (One Time)	15,000/-INR
Semester Fee	62,500/-INR

Programme Education Objectives (PEOs)

PEO1 Graduates will be actively engaged in a professional profession as a civil engineer or pursuing advanced studies.

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PEO2 Graduates will demonstrate technical skills, critical thinking, problem-solving, and commitment to professional ethics.

issues and demonstrate a strong sense of responsibility.

PEO3 Develop the ability to work effectively in teams, lead projects and contribute to society.

responsibility for engineering and environmental impact.

Programme Outcomes (POs)

PO1 Generic knowledge of mathematics, science, engineering fundamentals and their application to complex engineering problems.

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PO2 Problem analysis: Ability to identify, analyze complex engineering problems by formulating, research literature, and solving them using first principles of engineering.

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PO3 Design/development of solutions: Ability to design complex systems, structures, components, or processes meeting specified needs of the environment.

ability to design complex systems, structures, components, or processes meeting specified needs of the environment.

PO4 Conduct experiments, analyze and interpret data and draw valid conclusions.

ability to conduct experiments, analyze and interpret data and draw valid conclusions.

PO5 Modern tool usage: Ability to select and apply appropriate techniques, resources and tools for engineering problems.

ability to select and apply appropriate techniques, resources and tools for engineering problems.

PO6 Environment and Society: Ability to 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.

ability to 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: Ability to demonstrate the knowledge of engineering and management principles and their application to one's own work practice and society at large.

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PO9 Individual and team work: An ability to function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.

PO10 Communication: Ability to communicate effectively oral, written reports and graphical forms on complex engineering activities.

PO11 Project management and finance :Ability to demonstrate knowledge and understanding of the engineering and management principles and apply those one's own work, as a member and leader in team, to manage projects and in multi-disciplinary environments.

PO12 Lifelong learning: An ability to recognize the need for and having the preparation and ability to engage independent and life-long learning in broadest context of technological change.

Programme Specific Outcomes (PSOs)

PSO1 Development of professional skills in the area of Structural Engineering, Water Resources Engineering, Transportation Engineering, Environmental Engineering, Geotechnical Engineering, Geo-informatics & Remote sensing, and Construction techniques & management.

PSO2 Application of relevant aspects of mathematics in engineering analysis and design.

PSO3 Refurbishing of technical communication skills.

PSO4 Application of these principles and practices to problems related to Civil Engineering and other allied technical & industrial fields.

PSO5 Work as design consultants in construction industry for the design of civil engineering structures.

Career Prospects

Civil engineers are employed in all the major construction projects carried out by the state or central government, the railways, private construction companies, military, engineering services, consultancy services etc. Civil engineering graduates can also go in for research and take up teaching or they can open their own independent consultancy services. There is a high demand for experienced civil engineers in developed countries. Typical job profiles – Senior Design Engineers – Civil, Group General Managers – Civil, Technical Officers – Civil Engineering, Civil Engineer Foremen, Jr. Civil Engineers – Site Supervisor, Store Assistants, Store Keepers, Civil Engineers – Transmission and Civil Engineers – Project Coordinator.

Programme Guidelines

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► Applied Physics

► Applied Mathematics-I

► Communicative English

► Basics of Electrical Engg.

► Environmental Science

► Human Values & Professional Ethics

Semester II

► Applied Chemistry

► Applied Mathematics-II

► Basics of Computer Prog.

► Basics of Electronics Engg.

► Elements of Engineering Mechanics

► Engineering Drawing

Semester III

► Engineering Mathematics III

► Fluid Mechanics-I

► Rock Mechanics & Engg .Geology

► Strength of Materials

► Surveying

► Building Materials & Construction

Semester IV

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► Design of Concrete Structures-I

► Fluid Mechanics-II

► Irrigation Engineering-I

► Structural Analysis-I

Semester V

► Design of Steel Structures-I

► Geotechnical Engineering

► Structural Analysis-II

► Transportation Engineering-I

► Environmental Engineering-I

Semester VI

► Design of Concrete Structures-II

► Elements of Earthquake Engineering

► Foundation Engineering

► Numerical Methods in Civil Engineering

► Professional Practice

Semester VII

► Design of Steel Structures-II

► Disaster Management

► Irrigation Engineering-II

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► Industrial Training

Get In Touch



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