



PANIPAT INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to Kurukshetra University, Kurukshetra)

B.Tech.

Civil Engineering

Bridges the Gap between Ideas & Innovation

About the Program

Civil Engineering is identified as a key discipline that deals with the design, construction and maintenance of all the physical and naturally built environment. Several civil engineers are engaged in the design and construction of various public works including canals, water reservoir plants, hydropower dams for irrigation and domestic water requirements, modes of transport such as roads, bridges and railways that accounts for the need of economic growth of any country.



Build a Better Future

Driving on a highway or while walking on a bridge ever wondered what it takes to be the designer behind these massive construction? Civil Engineers discuss real-world challenges and work on dynamic technical developments. Civil Engineering is a widely structured discipline to study the concept of design, construct, and maintain infrastructure systems and projects. Several civil engineers are engaged in the design and construction of various public works including canals, water reservoir plants, hydropower dams for irrigation and domestic water requirements, modes of transport such as roads, bridges and railways that account for the need of economic growth of any country.



Why Civil Engineering @ PIET?

At large, the progress of any country or civilisation depends directly or indirectly on civil engineering. Thus, to meet the multi-dimensional requirement of design and construction, our institute offers B.Tech for aspiring civil engineers. Our highly innovative academic environments are enriched by an elaborate lab to study the different subjects in civil engineering:

- Fluid Mechanics
- Structural Mechanics
- Surveying
- Transportation Engineering
- Soil Mechanics
- Concrete Technology
- Environmental Engineering
- Computer-aided Design



Career opportunities after the course

Civil Engineers create, improve and protect the environment in which we live. They plan, design and oversee construction and maintenance of building structures and infrastructure, such as roads, railways, airports, bridges, harbours, dams, irrigation projects, power plants, and water and sewage systems.

Domains:

- **Construction Engineers:** Manage construction projects, ensuring that they are scheduled and built in accordance with the plans and specifications. They are typically responsible for design and safety of temporary structures used during construction.
- **Geotechnical Engineers:** Work to make sure that foundations are solid. They focus on how structures built by civil engineers, such as buildings and tunnels, interact with the earth (including soil and rock). In addition, they design and plan for slopes, retaining walls, and tunnels.
- **Structural Engineers:** Design and assess major projects, such as buildings, bridges, or dams, to ensure their strength and durability.
- **Transportation Engineers:** Plan, design, operate, and maintain everyday systems, such as streets and highways, but they also plan larger projects, such as airports, ports, mass transit systems, and harbors.

Placement partners



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