

(041-CMC-05-03) CONSTRUCTION TECHNOLOGY AND MANAGEMENT

Significance of the Program

World over, construction technology and management is considered an important specialization for civil engineering graduates. Top universities (like MIT, Stanford University, Georgia Institute of Technology etc.) in the world have a dedicated and dynamic research communities working in this area. The acute need for specialists in construction technology and management in industry and research to attract some of the talent students in civil engineering to the proposed M.Tech. programme

Career Options

- Equipment operator manager
- Site Engineer and site manager,
- Monitoring the work undertaken by contractors.

Program Objectives

- To equip students with the knowledge to design and develop engineering solutions to the problems faced by society for its sustainable development with the help of environment-friendly technologies.
- To prepare students to communicate effectively, work harmoniously in teams with professional ethics and learn to adopt an integrated approach to problems using the latest and advanced technology tools.

Outcomes of the Program

- Understand the technology implementation in a given project
- Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

Major Course Outline

- Construction materials and technology & practices

- Construction Management techniques
- Urban and building science
- Functional design of buildings.