

## **(040-CMC-05-02) CIVIL ENGINEERING WITH CONSTRUCTION TECHNOLOGY**

### **Significance of the program:**

This course aims at providing specialization in civil engineering. This course also focus on Construction Technology which is significant for its ability to produce professionals with the right blend of theoretical knowledge and practical skills to contribute effectively to the dynamic and challenging field of construction engineering.

### **Career options/Opportunities:**

Graduates of the B.Tech Civil Engineering (Construction Technology) can find job opportunities in the construction industry as

- Project managers,
- Site engineers,
- Quantity surveyors,
- Quality Control Engineer

### **Program Objectives:**

- Provide students with a solid foundation in core civil engineering principles, including structural analysis, geotechnical engineering, transportation engineering, and water resources engineering.
- Emphasize the principles and technologies related to construction processes, materials, methods, and management. This includes understanding construction materials, construction equipment, project scheduling, and cost estimation.

### **Program Outcomes:**

- Graduates should demonstrate a comprehensive understanding of fundamental principles in civil engineering, with a focus on construction technology.
- Graduates should be able to apply engineering principles to identify, analyze, and solve problems related to construction engineering.
- Graduates should be proficient in project management, including planning, scheduling, budgeting, and resource management for construction projects.

### **Major Course Modules:**

- Core Civil Engineering Courses
- Construction Materials and technology

- Construction Equipment and Management
- Construction Planning and Scheduling
- Construction Contracts and Specifications
- Construction Safety and Quality Management