

## **B.E. CIVIL ENGINEERING**

The infrastructure sector in India is expected to grow at 7% annually with an investment of Rs 102 Lakh Crore by 2024-25. This massive investment offers significant employment opportunities for upcoming Civil Engineers with sound theoretical knowledge and practical know-how. Our undergraduate curriculum is a perfect balance between theoretical requirements and practical aspects of not just the broad disciplines of civil engineering such as structures, surveying, geotechnical, transportation, and water resources engineering but also provides the management and entrepreneurial scope in its coverage. Our faculty has fundamental competencies to teach in all the above fields along with the support of our dedicated staff members. Hand-on projects, field trips and industry-academic interaction together make our students highly sought after graduates by the employers at the end of the course.

The teaching and learning regime at the Civil Engineering Department is designed and executed on the principles of student-centred learning and problem-based pedagogy. Towards this aim, the department has in place Capstone & Design Projects, whereby students learn from group tasks working in a team environment. The six month long practical training which provides industry-institute interaction to help students relate theory with real life.

The B.E. program is accredited by the National Accreditation Board for Engineering and Technology and Engineering Accreditation Commission of ABET, and we consider this as our important milestone, letting our degree program to be recognized on national and international platform.

Additionally, B.E. Civil Engineering Course Scheme at TIET has been revamped recently to offer following 3 elective focus (EF) areas for specialization, right as the student enters Semester V (Third Year) of his UG degree:

- Structural Engineering, Smart and Sustainable Materials
- Smart Cities
- Infrastructure Development and Management

The entry of a student into an EF is based on his/her CGPA at the end of Second Year of B.E. program coupled with the student choice. The students are offered a total of four elective courses under each specialization across Semesters-V to VIII. A student is free to opt courses across different focus areas in different semesters; however, if they opt all courses from the same focus area, they will be offered a certificate of specialization in that particular area in addition to their B.E. degree at the end of 4 years. This choice is purely optional. All elective focus areas offer courses keeping the industry requirement in mind and intend to make the student industry-ready and provide an edge over their peers from other institutes.