

## **Civil Engineering**

### **Program Outcomes**

1. Engineering Knowledge: Apply math, science, and engineering fundamentals to complex problems.
2. Problem Analysis: Identify and analyze complex problems using research and sustainability principles.
3. Design Solutions: Design systems and processes considering health, safety, cost, culture, and environment.
4. Investigations: Use experiments, modelling, and data analysis to reach valid conclusions.
5. Engineering Tools: Apply modern tools for modelling and problem-solving, recognizing their limits.
6. Society & Environment: Assess societal, legal, and environmental impacts of engineering solutions.
7. Ethics: Commit to ethics, human values, diversity, and legal compliance.
8. Teamwork: Work effectively as an individual and in multidisciplinary teams.
9. Communication: Communicate clearly in reports, presentations, and documentation across diverse groups.
10. Management & Finance: Apply management and economic principles in projects and teamwork.
11. Lifelong Learning: Engage in continuous learning, adapt to new technologies, and think critically.

### **Program Specific Outcomes (PSOs)**

#### **B.E. Civil Engineering**

1. To analyze, design, and execute civil engineering projects for real-time applications.
2. Utilize modern tools, software, and equipment for the development of safe, sustainable, and cost-effective civil engineering structures and systems.
3. To keep pace with rapid advancements in the field of Civil Engineering and demonstrate research aptitude, collaborate effectively in teams and uphold ethical practices.