

# CIVIL ENGINEERING

## **Vision**

To become a premier centre of learning and research in Civil Engineering, nurturing sustainable development by the year 2025.

## **Mission**

1. To provide the quality education in the area of Civil Engineering to transform students into graduates with high professional values.
2. To share and disseminate expertise for use in the solution of problems faced by Civil engineering industry and by society.
3. To ensure the continuous improvement in the quality of life of people in the society.
4. To conduct need based research projects giving priority to the needs of industry

## **B. Tech. in Civil Engineering**

### **Programme Educational Objectives (PEOs)**

1. To enrich the students with state of the art knowledge in the field of Civil Engineering.
2. To keep abreast the students with the use of modern tools, equipment's and software's and inculcating the habit of life-long learning.
3. To foster team work and professional ethics among students towards devising feasible solutions to problems and project work.

### **Programme Outcomes**

1. Broadening the horizon of the students in the field of Civil Engineering, increasing their ability to apply knowledge of mathematics, science and engineering to solve real world problems.
2. Increasing the ability of students to identify, formulate and solve problems in a systematic way by appropriate collection, analysis, and interpretation of data,
3. Increasing their ability to design a system, component or process to meet the desired needs in an environment friendly and socially acceptable way.
4. Enhancing their skills to analyse complex Civil Engineering problems and obtain the solution by synthesizing simple components
5. Increasing their ability to use the techniques, skills and modern engineering and Information Technology based tools (such as web-based applications and open source software etc.) to increase the creativity of students.
6. Enhancing awareness of students about the impact of engineering projects in a global and societal context (social, economic, legal and/or environmental implications),
7. Enhancing their ability to practice environmental concerns and related sustainable measures and be capable of carrying out environmental impact of a civil engineering project
8. Informing students about engineering ethics and professional responsibilities
9. Increasing their decision-making skills and innovative capability not only individually but also in a multi-disciplinary team.

10. Increasing the ability to communicate effectively by enhancing their drawing and report writing skills and oral presentation skills
11. Increasing awareness of students about cost, time and quality issues in construction helping them to develop social and leadership skills,
12. Providing the students with knowledge on contemporary issues in the field of civil engineering and recognizing the need for an ability to engage in continuous and lifelong learning.