

**Program Outcomes:**

The Bachelor of Technology program aims to produce students that at the time of graduation will be able to:

1. Apply the knowledge of basic sciences and fundamental engineering concepts in solving engineering problems.
2. Identify and define engineering problems, conduct experiments and investigate to analyze and interpret data to arrive at substantial conclusions.
3. Propose appropriate solutions for engineering problems complying with functional constraints such as economic, environmental, societal, ethical, safety and sustainability.
4. Perform investigations, design and conduct experiments, analyze and interpret the results to provide valid conclusions.
5. Select/develop and apply appropriate techniques and IT tools for the design & analysis of the systems.
6. Give reasoning and assess societal, health, legal and cultural issues with competency in professional engineering practice.
7. Demonstrate professional skills and contextual reasoning to assess environmental/societal issues for sustainable development.
8. Demonstrate Knowledge of professional and ethical practices.
9. Function effectively as an individual, and as a member or leader in diverse teams, and in multi-disciplinary situations.
10. Communicate effectively among engineering community, being able to comprehend and write effectively reports, presentation and give / receive clear instructions.
11. Demonstrate and apply engineering & management principles in their own / team projects in multidisciplinary environment.
12. Recognize the need for, and have the ability to engage in independent and lifelong learning.

## Programme Educational Objectives

1. Engage in ongoing learning and professional development through self-study, continuing education in civil engineering and in other allied fields.
2. Apply engineering skills, critical thinking and problem solving skills in engineering practices or tackle social, technical and business challenges.
3. Demonstrate professional excellence, ethics, soft skills and leadership qualities

|             | <i>PO1</i> | <i>PO2</i> | <i>PO3</i> | <i>PO4</i> | <i>PO5</i> | <i>PO6</i> | <i>PO7</i> | <i>PO8</i> | <i>PO9</i> | <i>PO10</i> | <i>PO11</i> | <i>PO12</i> |
|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|
| <i>PEO1</i> | 1          | 1          | 3          | 1          | 2          | 3          | 1          | 1          | 3          | 1           | 2           | 3           |
| <i>PEO2</i> | 3          | 3          | 3          | 2          | 2          | 2          | 2          | 1          | 1          | 1           | 3           | 2           |
| <i>PEO3</i> | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 3          | 3          | 3           | 3           | 1           |