

### VISION OF THE INSTITUTE:

To be a Centre of Excellence in technical education with research orientation and to develop Human resources to serve the society and nation building.

### MISSION OF THE INSTITUTE:

M1: To provide comprehensive technical education programmes in various disciplines and to contribute effectively to the profession and the society.

M2: Establishing Centers of Excellence in- inter disciplinary areas which are important and relevant to Industry and Employment with scope for research

M3: To inculcate human values and ethical practices to the graduates through co- curricular and Extra-curricular activities.

#### VISION OF THE DEPARTMENT:

We at this department envision the holistic development of our students into vibrant professionals committed to human values and environment, competent and skilled. They would be the torchbearers in their respective fields of study, quite capable of serving the mankind in a befitting manner.

#### **MISSION OF THE DEPARTMENT:**

In pursuance of our vision, our mission encompasses a road map of development of our department, which will ensure resources to build and sustain a high quality teaching, learning and research environment by providing state-of-the-art facility to our students and staff, so as to realize the grand ideal of integrating social, cultural, intellectual and ethical values into the human character and inspire them to become an entrepreneur.



### **Program Outcomes:**

- **PO 1** Engineering knowledge: Apply knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering
- **PO 2 Problem Analysis**: Identify, formulate, review research literature and analyze complex civil engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences problems.
- **PO 3 Design/Development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety and the cultural, social and environmental considerations.
- **PO 4 Conduct investigations of complex problems:** Use research based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of the information to provide valid conclusions.
- **PO 5 Modern Tool Usage:** Create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- **PO 6** The Engineer and Society: Apply reasoning informed by the contextual knowledge to assess social, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- **PO 7** Environment and Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts and demonstrate the knowledge of and the need for sustainable development.
- **PO 8** Ethics: Apply ethical principle and to commit to the professional ethics and responsibilities and norms of the engineering practice.
- **PO 9** Individual and team Work: Function effectively as individual and as a member or leader in diverse teams and in multi disciplinary settings.
- **PO 10 Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions.
- **PO 11 Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work



as a member or leader in a team, to manage projects and in multi disciplinary environments.

**PO 12** Life-long learning: Recognize the need for and have the preparation and ability to engage in independent lifelong learning in the broadest context of technological change.

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# **Program Specific Outcomes:**

After successfully completion of the program, the graduates will be able to

# **PSO 1: Understanding**

Graduates will have an ability to describe, analyse and solve problems using mathematics and systematic problem solving technique.

# **PSO 2:** Analytical skill

Graduates will have an ability to plan, execute, manage, maintain and rehabilitate Civil Engineering systems and processes.

# **PSO 3: Executive skill**

Graduate will have an ability to interact and work seamlessly in multi-disciplinary teams

# **PSO 4: Responsibility**

Graduates will have requisite understanding on impact of Civil Engineering projects and processes in a global, economic and societal context.

# **Program Educational Objectives:**

### Civil Engineering graduate will be able to

PEO 1: Work in a core construction industry in which various fields of Engineering are allied

- PEO 2: Perform well in other fields as well with their technical abilities
- PEO 3: Start a new venture and which can evolve as a corporate

PEO 4: Contribute to the professional practices as an ethically and morally fit individual