

PEOs, POs & Graduate Attributes (GAs) of M.Tech. in Structural Engineering (SE)

Program Educational Objectives (PEOs) for M.Tech. program in Structural Engineering (SE):

PEO-1: To expose the graduate students to advanced Structural Analysis, Structural Dynamics, allied theory in elasticity and plasticity, FEM etc.

PEO-2: To impart training to graduate students in behavior and design of Advanced RC structures, behavior and design of Advanced Steel structure, latest procedures in earthquake resistant design practices and earthquake resistant design philosophies.

PEO-3: To expose the graduate students to latest design codes, current national and international scenario on Structural Engineering and to motivate them in interdisciplinary involvement in problems related to Structural Engineering.

PEO-4: To orient the graduate students to high value research related to Structural Engineering so that they get impetus to pursue research and lifelong learning.

Program Outcomes (POs) for the M.Tech. program in Structural Engineering (SE):

List of Program Outcomes (POs) of P.G. program in Structural Engineering:

- a. Graduates of the program will be able to demonstrate in-depth knowledge of Structural Engineering discipline and build capability to apply that knowledge to real problems.
- b. Program graduates will gain knowledge and skill in integrating Structural engineering concepts across multiple disciplines.
- c. Graduates will have the ability to employ technical knowledge and leadership skills to Structural Engineering research and consultancy problems.
- d. Graduates of the Structural Engineering program will demonstrate the ability to carry out original and useful research in key areas of Structural Engineering.
- e. Program graduates will be able to identify and analyze the impact of Structural Engineering in development project and find a suitable solution from number of alternatives.

- f. Graduates of the program will develop skills to communicate technical values of Structural Engineering research with the public, learners, practitioners and other community members of concern.
- g. Program graduates will develop confidence in Structural analysis and management with high ethical value towards social, environmental and economic issues.
- h. Graduates will develop enthusiasm and confidence to pursue lifelong learning for professional advancement.
- i. Program graduates will develop the spirit of working in team for common objectives.
- j. Graduates of the program will develop interest to pursue higher studies and research.

Graduate Attributes (GAs) of M.Tech. program in Structural Engineering (SE):

The Graduate Attributes (GAs) of P.G. programs (M.Tech.) in SE:

- GA1: Scholarship of knowledge
- GA2: Critical thinking
- GA3: Problem solving
- GA4: Research skill
- GA5: Usage of modern tools
- GA6: Collaborative and multidisciplinary work
- GA7: Project management and finance
- GA8: Communication
- GA9: Lifelong learning
- GA10: Ethical practices and social responsibility
- GA11: Independent and reflective learning.
