

PEOs and POs of M.Tech. in Structural Dynamics and Earthquake Engineering

Program Educational Objectives (PEOs) of Structural Dynamics and Earthquake Engineering (SDEE), Department of Civil Engineering:

PEO1: To expose the students to vibration theory and problems, earthquake hazards and earthquake engineering principles, earthquake disaster management.

PEO2: To impart training to graduate students to the latest earthquake resistant design philosophies, codal design and design philosophies beyond code, so that the students can independently tackle earthquake engineering problems and they can handle the earthquake hazard mitigation projects.

PEO3: To expose the graduate students to current national and international scenario on earthquake engineering and to motivate them in interdisciplinary involvement in earthquake related problems.

PEO4: To orient the graduate students to high value research on Structural Dynamics and earthquake Engineering so that they get impetus to pursue lifelong learning.

Program Outcomes (POs) of the Structural Dynamics and Earthquake Engineering (SDEE), Department of Civil Engineering:

- a. Graduates of the program will be able to demonstrate indepth knowledge of the discipline and build capability to apply that knowledge to structural dynamics.
- b. Program graduates will gain knowledge and skill in integrating Earthquake engineering concepts across multiple disciplines.
- c. Graduates will have the ability to employ technical knowledge and leadership skills to Earthquake engineering research and consultancy problems.
- d. Graduates of the Structural Dynamics and Earthquake engineering program will demonstrate the ability to carry out original and useful research in key areas of Structural Dynamics and Earthquake engineering.
- e. Program graduates will be able to identify and analyse the impact of Earthquake engineering development project and find a suitable solution from number of alternatives.
- f. Graduates of the program will develop skills to communicate both formal and informal values of Earthquake engineering and Earthquake engineering research with the public, learners, practitioners and all other community members.
- g. Program graduates will develop confidence in earthquake analysis and management with high ethical value towards social, environmental and economical 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 teaching profession.
