

REPORT

Short Term Course on

Earthquake Resistant Design of Structures

(29th Aug.2016 - 2nd Sept.2016)

Earthquakes pose one of the greatest challenge to designers of buildings and other civil engineering structures. About 75% of the fatalities attributed to earthquakes have been caused by collapse of buildings. India has witnessed several major disasters such as earthquakes, tsunami, floods, and cyclones in the last two decades. These events more often result in human, property and environmental losses, along with social and economic disruption. The devastating events, natural disasters, are mostly considered as acts of nature, on which we have little control. Damages are more due to earthquake because of sudden un-alarming events.

To bring researchers and technocrats from different parts of our country to a common platform and share the recent developments for mitigating the unforeseen challenges, a Short Term Course on “Earthquake Resistant Design of Structure (ERDS)” was organized from August 29, 2016 to September 02, 2016 at M.M.M. University of Technology Gorakhpur.

The following topics were covered in the course:

- Introduction to Earthquake Engineering
- Liquefaction potential analysis using field Test data
- Geo-spatial Technology for Earthquake damage assessment
- Fundamental of Structural Dynamics
- Philosophy of Earthquake Resistant Design
- Ductile Detailing
- Seismic Design of RCC Buildings -Design of Cast in-situ Beam
- Design of pre- engineered Buildings
- Simplified Guidelines for building construction in the seismic zones of India with reference to masonry building

Faculty members of AICTE recognized Academic Institution/students possessing minimum qualification as Bachelor’s Degree in Civil Engineering, Agriculture Engineering & Architecture and field Engineers/Architects were eligible to apply as participants.

All lectures were scheduled in the Seminar hall of Civil Engineering Department MMMUT Gorakhpur. The course was inaugurated at 10.30 A.M. on August 29, 2016 .

Prof. Onkar Singh, Hon’ble Vice Chancellor, M.M.M. University of Technology, Gorakhpur was the Chief Guest. **Prof. Sunil kumar**, Civil Engineering Department, HBTI, Kanpur was the Guest of Honour.

The lectures were taken by internal as well as external faculty members of reputed institutions. An educational visit to Kushinagar Airport was also arranged during the course. Working lunch and tea was arranged for all. Course kit containing the course material and certificates were provided to all the participants as well as the resource person.

Working lunch and tea was also arranged for all the guests. Course material and certificates were provided to all the participants as well as the speakers.

