

Workshop on

EARTHQUAKE RESISTANT PRACTICES FOR UNDERGRADUATE STUDENTS OF ARCHITECTURE

June 17-23, 2018, IIT Kanpur

A “Workshop on Earthquake Resistant Practices for Undergraduate Students of Architecture” was conducted at IIT Kanpur during June 17 - 23, 2018, as a part of NICEE initiative towards reaching the architects of tomorrow through a hands-on programme in earthquake resistant architectural design. The workshop will be attended by 61 participants of 16 colleges from all over India. The aim of this workshop was to sensitize the students of architecture in earthquake resistant design practices through technical lectures followed by design studios where they were given guidance in earthquake resistant design by working on an architectural design project.

The selected participants were sent a NICEE publication titled “Architectural Teaching Resource Material on Earthquake Design Concepts” by CVR Murty and Andrew Charleson. The participants were advised to go through the book before coming for the workshop. On the first day of the workshop a quiz with multiple choice answers was given to the participants. Another quiz of similar difficulty level was administered to the participants towards the end of the workshop to evaluate the progress made by the students.

During the seven-day workshop the students were asked to design an Office Complex in a site in Gandhidham, a city in Kutch district, Gujarat, located in Seismic Zone V. Students were exposed to RESIST software to test the adequacy of their designs from seismic performance perspective and this session helped them to arrive at reasonable sizes of structural members.

The following faculty members are the resource persons of the workshop:

- (a) Prof. Keya Mitra, IEST, Shibpur, Howrah
- (b) Prof. Vasudha Gokhale, Dr. B.N. College of Architecture for Women, Pune
- (c) Prof Atanu Dutta, Jorhat Engineering College, Jorhat
- (d) Prof Meera Shirolkar, Dr. B.N. College of Architecture for Women, Pune
- (e) Prof. Suresh Dash, IIT Bhubaneswar
- (f) Prof. Snigdha Sanyal, Centurion University Bhubaneswar

The studio sessions were a mix of desk work and informal lectures where individual cases were used to illustrate earthquake engineering concepts to the entire class.

The design prepared by the participants will be evaluated by a team of jury consisting of the following members.

- (a) Ar. Balbir Verma, Practicing Architect, New Delhi
- (b) Ar. Narendranath Mitra, Practicing Architect, Kolkata

(c) Er. Karnail Singh, Retd., Chandigarh

(d) Prof. Atanu Dutta, Jorhat Engineering College, Jorhat

The positions secured by the participants based on jury decision were as follows.

First Position

Shravya Durge, Smt. Manoramabai Mundle College of Architecture, Nagpur

Afia Siddiqui, National Institute of Technology, Raipur

Harsh Gupta, Dr. D.Y. Patil College of Architecture, Navi Mumbai



Second Position

Sumedha Karandikar, Smt. Manoramabai Mundle College of Architecture,
Nagpur

Shraddha Biyani, National Institute of Technology, Raipur



Third Position

Neha Bhalerao, Smt. Manoramabai Mundle College of Architecture, Nagpur
Mahima Arora, Chitakara School of Planning and Architecture, Rajpura



The participants expressed a satisfaction level of 83.71%. The workshop was sponsored by Ministry of Earth Sciences, New Delhi; CSIESPL, New Delhi and several supporters of NICEE.