A REPORT ON THE SEMINAR ON EARTHQUAKE ENGINEERING IN A. P. SHAH INSTITUTE OF TECHNOLOGY

9TH MARCH 2018,

A.P. Shah Institute of Technology.

Indian earthquake engineers have made significant contributions to the seismic safety of several important structures in the country. However, as the recent earthquakes have shown, the performance of normal structures during past Indian earthquakes has been less satisfactory. This is mainly due to the lack of awareness amongst most practising engineers of the special provisions that need to be followed in earthquakeresistant design and thereafter in construction. A seminar was conducted for the students of civil engineering departmentby Civil Engineering Student Association (CESA) at A. P. Shah Institute Of Technology on 9 March 2018 at 10.00a.m. to discuss the role of earthquake-resistant structures in Civil Engineering.

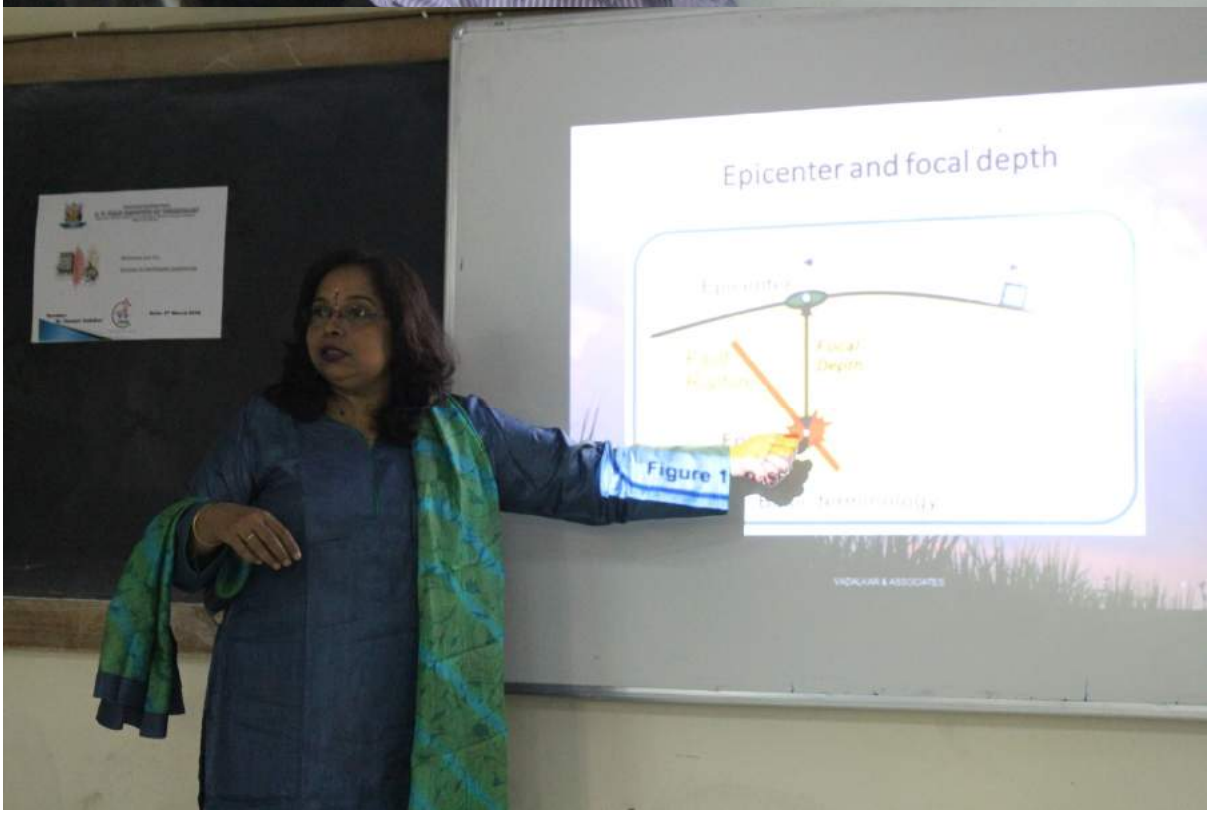
The seminar started at 10.00a.m with welcoming the speakers of the session by Prof. PoojaRao (Head of the Department) followed by a short introductory speech on the background of the speakers delivered by Mr. SiddharthDhanavde. The seminar was divided into two sessions, the first session was led byMRs.Kirti Vadalkar who gave a brief idea about earthquake, basic terminologies and certain bylaws. The second session was delivered Er. HemantVadalkar who introduced the technicality of the design of an earthquake resistant structures to the students. In the first session Mrs. KirtiVadalkar in her presentation not only explained the importance and necessity of a structure to be earthquake resistant, but also what exactly happens beneath the surface of earth that leads to the destruction of everything above the surface in fraction of seconds. She cleared the common misconception of students about certain earthquake terminologies like “focus”, “epicentre”, “ magnitude” , “intensity”.etc of an earthquake. With the help of images of places where earthquake shook lives of people, she made the students aware of their role in society as an engineer. She not only highlighted our responsibility as an engineer but also as an occupant of a resident. It is the responsibility of an occupants to keep the structure well maintained by not trying move any column in any kind of renovation work.

The IS codes for structures and certain laws that should be followed while designing in order to make the structure resistant to earthquake.

The second session was more about the advancement in structures designs so that minimum damage occurs to the structure when earthquake strikes. ErVadalkar introduced some Do's and Don'ts that an engineer should keep in mind while designing a structure. He gave the students better understanding of how the structures respond to the seismic shocks using shear force diagram and bending moment diagrams of certain actual built structures. With the help of pictures of Gujarat earthquake he easily conveyed the message of importance of design of a structure.

The seminar was concluded with a vote of thanks by Mr. SuyashPadhye (President of CESA). In his short speech he also highlighted the fact that earthquake engineering is an interesting field to pursue for higher studies. The seminar was well attended by students of third and final year of civil engineering. Students not only found the seminar informative but also interesting, they also were actively involved in the discussion. It was an amazing experience for all who attended the seminar.

By CESA team.


Epicenter and focal depth
Focal Depth