UKA TARSADIA university

छोटुभाई गोपालभाई पटेल प्रौद्योगिकी संस्थान, बारडोली
Chhotubhai Gopalbhai Patel Institute of Technology, Bardoli

Civil Engineering Department

Expert Talk on "Seismic Analysis and Earthquake Resisting Design of Building"

on 7th October, 2017.

ORGANIZING MEMBERS

Mr. Harshil Bhuva

Mr. Hitesh Dhameliya

SPEAKER

Dr. Snehal Mevada

Assistant Professor

BVM Engineering College

Vallabh Vidhyanagar

SCHEDULE

Venue: G 301,CGPIT, UTU

7th October 2017 (Saturday)

09:00 am – 9:30 am	**Introduction and Formal Welcome**
9:30 am– 12:00 am	**Session I (Dr.Snehal Mevada)** **Introduction to earthquake:** **Earthquake types, types of faults, different types of seismic waves, earthquake intensity and magnitude, strong ground motion and it's characteristics, seismic zones in India, seismic coefficient.**
12:00 pm – 1:00 pm	**Break**
1:0 pm – 2:30 pm	**Session II (Dr. Snehal Mevada)** **Principles of dynamics:** **Formulation of equation of motion by different methods, Single Degree of freedom system. response spectrum, Base isolation**

In this seminar total 56 students participated from M.tech and 9 faculty members.

SESSION 1: (Dr. Snehal Mevada)

In this session Sir discussed about Basics concept of Earthquake Engineering, Static vs Dynamic load, natural frequency, resonance vs increased response, response of building to earthquake ground motion, design philosophy, working of Ritcher Scale, Case study of Bhuj earthquake, earthquake tips, Seimic co-efficent method

SESSION 2: (Dr. Snehal Mevada)

In this session, he discuss about the concept of earthquake resistant high-rise building and some parameter that affect earthquake force during calculation. Lateral load on building, discussion on new code Is 1893 2016, Is 13920 2016, response spectrum method, single degree of freedom system, shake table test, Seismic controls ,Base isolation. After the session a good discussion on the dissertation of Mtech student and problem solving.