

**G H Patel College of Engineering & Technology, V. V Nagar**

**Department of Civil Engineering**

**Report on**

**Expert Talk on Earthquake Engineering**

An expert talk was organized on “**Overview of Earthquake Engineering**” for final year students of the Civil Engineering Department on 17<sup>th</sup> September, 2019 under IGBC student chapter.

**AIM:**

The main aim of this expert talk was to understand the basic of earthquake and as a civil engineer how one can build an earthquake resistant building.

**ABOUT THE PROGRAM:**

As a part of the curriculum Earthquake Engineering is an elective subject for final year student and also one module of same is incorporated in the subject Design of Reinforced Concrete Structures. To aware the students, Civil Engineering Department had organized an expert lecture on “**Overview of Earthquake Engineering**”. The speaker of the lecture was Dr. Snehal V. Mevada, currently working in Structural Engineering Department of B.V.M. Engineering College, Vallabh Vidyanagar. He has completed his doctorate degree in Earthquake Engineering from IIT, Bombay in 2012. He has presented & published more than 40 research paper in national and international journals.

In the beginning sir has explained what is earthquake, cause of the earthquake and why earthquake resistance structure is required in the construction practices. Basic terminology related to earthquake engineering was also elaborate by the sir like epicenter, magnitude, focus, intensity etc. For measuring the earthquake seismograph is used and it give result in terms of time and amplitude of ground motion. Sir has shown that how magnitude is decided from the time & amplitude data. He also stated the difference between magnitude & intensity. He has narrated the provisions of IS 1893-2002, especially the Response Spectrum Graph. He also touched the past earthquake damages.

At the end sir has explained different lateral load resisting systems like shear walls, different type of dampers, bracing systems which can help to make structure earthquake resistant. Sir has also encourage students to refer the IS codes and earthquake tips.



We are very thankful to **Dr. Mevada sir** for sharing their vast knowledge with our students. Overall the lecture was very useful for the students. Sir has widened the scope of this field for students.