

Educational visit at Institute of Seismological Research

- I.S.R. Gandhinagar is well known institute for seismic research. It provides information in a very depth part of seismology. Due to that knowledge of execution of technology with seismic science can be improved. Measuring earthquakes and related technology is also up to mark to detect earthquake even abroad India. It is difficult to develop prevent mechanism for earthquake and to build an earthquake proof structure but we can reduce hazard effect of Earthquake by giving prior intimation about the same to community.
- The visit had been organized by Prof. Lekhank Bhuva to ISR Gandhinagar to enrich the student's regarding natural disaster Earthquake. The Institute of seismological research is located at Gandhinagar, near to Pandit Dindayal Petroleum University-P.D.P.U.ISR Gandhinagar is working for analysis, situation controlling and preventive measures of earthquake. In Gujarat, there is a major geological fault line passing through Kutch, Gujarat, which is the epicenter of earthquake in Gujarat.
- Laboratories visited by student are Geology, Data collection and analysis of earthquake data , O.S.L.(optical stimulated luminance).
- There are two data can achieve by earthquake are wave and sound. Sound of earthquake is not much important for analyzing the earthquake. Waves generated and transferred and travelled through upper most surfaces are more useful for earthquake study. MASW is used for groundwater position and resources below ground. It uses frequency of waves. Relay waves travels on surface so it is known as surface waves.
- There are two type of stations located on Gujarat for to place sensors to find earthquake information are as below from which analysis is being done.

BBS station

SMA station

Outcome:

- Develop the ideas of measuring earthquake instrument,
- Develop the idea of different earthquake measuring parameter,
- They got knowledge about earthquake measuring stations at Gujarat,
- Students are able to analyses of Fault Line passing through Gujarat,
- Develop the idea of Role of Civil Engineering in geotechnical Investigations.

Date of Visit: 18th Sept. 2018

ISR- Gandhinagar:



“A glance of Faculty and students of Civil at ISR Gandhinagar- Enriched Visit”



“Presenting Memento in form of gratitude”



“Understanding geology and its fundamentals from researcher”



“Understanding geology and its fundamentals from researcher”



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“learning Earthquake simulation and software demonstration”