

**Brief Report on guest lecture**  
**“Seismic Microzonation Study Relevant to Risk Management and Urban Earthquake Vulnerability Reduction”**  
**11<sup>th</sup> August 2016**

It is a matter of great pleasure to inform you all that the Department of Mechanical Engineering under the aegis of HRDC, Integral University has successfully organized a guest lecture on “Seismic Microzonation Study of relevant to Risk Management and Urban Earthquake Vulnerability Reduction” by Dr. Sagina Ram, Director (Geophysics) Geological Survey of India, Lucknow on 11th August’ 2016 at 13.30 hrs in the Central Auditorium at Integral University, Lucknow.

Speaker delivered a brief introduction of seismic microzonation and put light on risk management and told how we can reduce the earthquake vulnerability in urban areas. Expert discussed that the microzonation keep us aware about geological conditions, topographical properties, chances of liquefaction and seismic hazard through mapping. Site condition of any selected area affect the intensity of ground shaking that may cause earthquake induced damage. During earthquake the local ground condition plays important role as amplitude, frequency and duration are the function of soil condition of site. If a structure is located in the area where the soil is soft, the condition is vulnerable and damage may be caused due to strong amplification of ground motion. The seismic microzonation keeps us aware about the site conditions at micro level and it is helpful in deciding the types of structure we can construct in urban areas. This talk was very useful for B.Tech. Students of Mechanical Engineering, Civil engineering and Architecture. There were 70 participants who have attended this lecture.

The welcome address was delivered by Dr. P.K Bhart Professor & Head, Department of Mechanical Engineering.

The program was well co-ordinated by Er. Sumita Chaturvedi (Assistant Professor) & Dr. Mohd Shadab Khan (Associate Professor), Department of Mechanical Engineering. The vote of thanks was proposed by Dr. Syed Aqeel Ahmad, Director of HRDC, Integral University Lucknow.

# EARTHQUAKE MAGNITUDE SCALE



Moderate

Strong

Light

5.0

Guest lecture on

7.0

Major

**“Seismic Microzonation Study relevant to Risk Management and Urban Earthquake Vulnerability Reduction”**

3.0

Organised by

Department of Mechanical Engineering

Under the aegis of HRDC, Integral University,

Lucknow