

**LLOYD INSTITUTE OF ENGINEERING & TECHNOLOGY**  
Ladder Of Success

**RESEARCH SEMINAR**

**TOPIC**  
**Advanced Techniques for Earthquake Resistant Structures**

**SPEAKER**  
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**Convener:**  
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**Organized by: Research Committee, LIET**

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3:00 pm  
Zoom

## Advanced Techniques for Earthquake Resistant Structures

### Abstract:

Earthquakes are one of the most devastating natural activities on the earth. The seismic waves that travel through the ground during the happening of earthquake can demolish buildings, bridges, dams etc., which kill people, and cost billions of rupees in damage and restoration. The huge number of death of people and damages experienced in the previous earthquakes provoked the need for the development of the earthquake-resistant structures.

Earthquake-resistant structures are structures designed to protect buildings from earthquakes. Several techniques were developed for making earthquake resistant structures. There are some traditional methods and some are new advanced techniques. Use of Shear walls, Bracing, Bands, Rollers, light weight material are the traditional methods of earthquake resistant structures. Base isolation and use of energy dissipation devise are the two new advance techniques which are used for the modern high rise commercial and residential building. In this webinar, I will discuss in detail about the uses and working mechanism of these all methods.

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