

# MANAGING EARTHQUAKE DISASTERS THROUGH ARCHITECTURE AND PLANNING

## SESSION 1

### **Post-Earthquake damage analysis**

Post an Earthquake, damage to life and property is observed. The damage is not caused necessarily because of the Earthquake, but because of the faulty strategies in planning and designing the buildings.

Building collapse happens due to improper balance of weights on the structure. The weight can be structural weight or non-structural weight. The building also fails due to less resistance to horizontal and multilevel accelerating forces caused by a high magnitude earthquake.

Preparing a building for these forces should be a primary aspect while constructing the building.

Some of the strategies Can be, Giving a seismic expansion joint at intervals of very lengthy slabs. The Core of the building can be bearing the extra mass, instead of giving heavy loads on one of the odd sides of the building. Etc.