

Seismic Isolation of Structures

Course Title	Seismic Isolation of Structures
Course Category	Research
Relevant Discipline(s)	Civil Engineering/Structural Engineering
Duration of course in equivalent integer no. of days (min 3 days, 1 day = 6 hrs of lectures/hands on sessions)	5 days (30 hrs)
Proposed dates	11 th December – 27 th December 11 th Dec, Friday: 17:00-20:00 hrs 12 th Dec, Saturday: 12:00-17:00 hrs 13 th Dec, Sunday: 11:00-13:00 hrs 18 th Dec, Friday: 17:00-20:00 hrs 19 th Dec, Saturday: 12:00-17:00 hrs 20 th Dec, Sunday: 11:00-13:00 hrs 26 th Dec, Saturday: 12:00-17:00 hrs 27 th Dec, Sunday: 12:00-17:00 hrs

Brief Course Description and Course Contents
<p>The proposed course “Seismic Isolation of Structures” is a major research area in the domain of earthquake resistant design of structures.</p> <p>The course will focus on acquiring knowledge of the seismic isolation technology for earthquake safety of buildings, bridges and other type of structures. The dynamics of base-isolated structures subject to earthquake ground excitations would be discussed. Different type of isolators would be presented, and their mechanical behavior would be characterized. The design procedures for the isolators would be presented. The course will provide the requisite knowledge and equip participants with necessary skills required for analysis and design of seismically isolated structures.</p> <p>Course content: Introduction to seismic isolation Dynamics of base-isolated structures Characterization and testing of seismic isolators Design procedures for seismic isolators Modeling and analysis of seismically isolated structures</p>

Instructor Details				
S. No.	Name of the Instructor	Department	Email	Contact Number
1	Manish Kumar	Civil Engineering	IIT Bombay	mkumar@iitb.ac.in