

Department Of Civil Engineering

Name of the Faculty :	Mr. Bharat Verma		Discipline :	Civil Engineering
Subject	Earthquake Resistant Building Construction (Theory)		Semester :	6TH
Lesson Plan Duration :	16 Weeks (From Jan 2025 - June 2025)			
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Week	Theory		Actual Delivery Date of Lecture	Whether the Lesson Plan Followed? Yes/ No
	Lecture Day	Topic		
		(Including Assignments / Seminar / Group Discussion / Sessional Tests)		
1st week	1 st	Introduction to the Subject and its necessity .		
	2 nd	1. Elements of Engineering Seismology : General features of tectonic of seismic regions.		
	3 rd	Causes of earthquakes, Seismic waves		
2 nd week	1 st	Earthquake size (magnitude and intensity)		
	2 nd	Epicentre, Seismograph		
	3 rd	Classification of earthquakes, Seismic zoning map of India		
3 rd week	1 st	Static and Dynamic Loading, Fundamental period.		
	2 nd	2. Seismic Behaviour of Traditionally-Built Constructions of India :Introduction		
	3 rd	Mode of failure: Out-of-plane failure, In-plane failure		
4 th week	1 st	Mode of failure: Diaphragm failure, Connection failure		
	2 nd	Mode of failure: Non-structural components failure		
	3 rd	3. Special Construction Method : Introduction		
5 th week	1 st	Special construction methods		
	2 nd	Tips and Precautions to be observed while planning.		
	3 rd	Designing and Construction of earthquake resistant building.		
6 th week	1 st	Sessional Test-1		
	2 nd	Designing and Construction of earthquake resistant building.		
	3 rd	Designing and Construction of earthquake resistant building.		
7 th week	1 st	4. Introduction to Various Seismic IS codes :Delivery of the contents through the soft copies available / provided to the stakeholders.		
	2 nd	IS: 1893(Part 1),		
	3 rd	IS: 13920 (latest edition)		
8 th week	1 st	IS: 13828, IS: 4326		
	2 nd	Revision of syllabus		
	3 rd	5. Seismic Provision of Strengthening and Retrofitting-Introduction		
9 th week	1 st	Seismic Provision of Strengthening and Retrofitting		

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10 th week	2 nd	Measures for Traditionally-Built Constructions,		
	3 rd	Brick and RCC Structures		
	1 st	Brick and RCC Structures		
	2 nd	Revision/Quarries		
11 th week	3 rd	6. Provision of Reinforcement Detailing in Masonry and RC Constructions :Introduction		
	1 st	Provision of reinforcement detailing in masonry constructions		
	2 nd	e-Lecture / videos on Provision of reinforcement detailing in RC constructions		
12 th week	3 rd	Provision of reinforcement detailing in RC constructions		
	1 st	Sessional Test -2		
	2 nd	Provision of reinforcement detailing in RC constructions		
13 th week	3 rd	7. Disaster Management : Introduction		
	1 st	Disaster rescue, Psychology of rescue, Rescue workers,		
	2 nd	Rescue plan, Rescue by steps		
14 th week	3 rd	Rescue equipment		
	1 st	Safety in rescue operations		
	2 nd	Debris clearance and		
15 th week	3 rd	Casualty management		
	1 st	Revision of syllabus		
	2 nd	Revision of syllabus		
16 th week	3 rd	Sessional Test -3		
		Revision of syllabus, display/Intimation of 3 rd Sessional marks, Academic evaluation-analysis of Sessionals.		

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Subject Incharge

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