

	Civil Engg Department		
	Sem -VI Lesson Plan		
	Subject: Earthquake Engg		
** Work Load (Lecture/Practical) per week (in hours): Lectures-03			
Month	Week	Lectures	Topic
MARCH	Week 1	1	Introduction to earthquake
		2	General features of tectonic of seismic regions. Causes of earthquakes,
		3	Seismic waves, earthquake size (magnitude and intensity)
	Week 2	1	Epicentre, Seismograph
		2	Classification of earthquakes
		3	Seismic zoning map of India
	Week 3	1	Static and Dynamic Loading, fundamental period
		2	Factors causing deterioration, their classification,human factors causing deteriorion
		3	Seismic Behaviour of Traditionally-Built Constructions of India
	Week 4	1	Performance of building during earthquakes
		2	Mode of failure of building during earthquake
		3	out -of- plane failure in-plane failure, Diaphragm failure,
APRIL	Week 1	1	Connection failure, Non-structural, component failure
		2	Sessional-1
		3	Sessional-1
	Week 2	1	Sessional-1
		2	Sessional-1
		3	Assignments given based on samples question papers
	Week 3	1	Special construction method,
		2	Tips and precautions to be observed while planning of earthquake resistant building designing
		3	Tips and precautions to be observed while designing of earthquake resistant building designing
	Week 4	1	Tips and precautions to be observed while construction of earthquake resistant building designing
		2	Introduction to IS: 4326
		3	Introduction to IS: 13828,

MAY	Week 1	1	Introduction to IS: 1893(Part 1),
		2	Introduction to IS 154326
		3	Introduction to IS: 13920
	Week 2	1	Sessional-2
		2	Sessional-2
		3	Sessional-2
	Week 3	1	Seismic Provision of Strengthening for traditional built-construction
		2	Seismic Provision retrofitting traditional built- construction
		3	Seismic Provision of Strengthening and Retrofitting Measures for brick structures
	Week 4	1	Seismic Provision of Strengthening and Retrofitting Measures for RCC structures
		2	Provision of reinforcement detailing in masonry
		3	Provision of reinforcement detailing in masonry
	Week 5	1	Provision of reinforcement detailing in RC constructions (
		2	Disaster Management:
		3	Disaster rescue, psychology of rescue, rescue workers,
JUNE	Week 1	1	Rescue plan, rescue by steps, rescue equipment,
		2	Safety in rescue operations, debris clearance
	Week 2	1	Sessional-3
		2	Sessional-3
		3	Sessional-3
	Week 3	1	Casualty management
		2	Revision
		3	Revision
	Week 4	1	Revision
		2	Revision
		3	Revision