

Govt. Polytechnic Dhangar (Fatehabad)

Lesson Plan (Even Semester)

Name of the Faculty	Mr. Vijay Pal Sihag
Discipline	Civil Engg.
Semester	6th
Subject	Earthquake Resistant Building Construction
Lesson Plan Duration	15 weeks (from January, 2024 to April, 2024)

****Work load (Lecture / Practical) per week(in hours): Lectures-03, practicals -Nil**

Week	Theory	
	Lecture day	Topic (Including assignment / test)
1st	1st	Chapter 1. Elements of Engineering Seismology
	2nd	Earthquake size (magnitude and intensity), Epicentre, Seismograph
	3rd	Seismic waves, earthquake size (magnitude and intensity)
2nd	4th	Epicentre, Seismograph
	5th	Classification of earthquakes, Seismic zoning map of India
	6th	Static and Dynamic Loading, Fundamental period.
3rd	7th	Revision
	8th	Chapter 2. Seismic Behaviour of Traditionally-
	9th	Performance of building during earthquakes
4th	10th	Mode of failure
	11th	Out-of-plane failure, in-plane failure, Diaphragm failure
	12th	Connection failure, Non-structural
5th	13th	Revision Assignment No.1
	14th	Sessional Test No.1
	15th	Chapter 3. Special construction method
6th	16th	Precautions to be observed while planning
	17th	Designing of earthquake resistant building
	18th	Construction of earthquake resistant building
7th	19th	Revision
	20th	Chapter 4. IS Codes
	21st	IS Codes: 4326
8th	22nd	IS: 13828
	23rd	IS: 1893(Part 1)
	24th	IS: 154326
9th	25th	IS: 13920
	26th	Revision Assignment No.2
	27th	Sessional Test No.2
10th	28th	Chapter 5. Seismic Provision of Strengthening
	29th	Brick and RCC Structures
	30th	Seismic Provision of RCC Structures
11th	31st	Revision
	32nd	Chapter 6: Provision of reinforcement detailing
	33rd	Reinforcement detailing in RC constructions
12th	34th	Detailing in masonry
	35th	RC constructions
	36th	Chapter 7. Disaster Management
13th	37th	Rescue workers
	38th	Rescue plan, rescue by steps
	39th	Rescue equipment
14th	40th	Safety in rescue operations
	41st	Debris clearance
	42nd	Casualty management.
15th	43rd	Revision Assignment No.3
	44th	Revision
	45th	Sessional Test No.3

Any additional available hours shall be used for revision
