

BKN POLYTECHNIC NARNAUL

Lesson Plan (Even Semester)

Name of the Faculty: AMIT KUMAR

Discipline : Civil Engg.

Semester : 6th

Subject : Earthquake Resistant Building

Lesson Plan Duration : 15 weeks (from January 2019 to April, 19

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

Week	Theory		Practical	
	Lecture day	Topic (Including assignment / test)	Practical Day	Topic
1st	1st	Chapter 1. Elements of Engineering Seismology General features of tectonic of seismic regions	N/A	N/A
	2nd	Causes of Earthquake , Seismic waves	N/A	N/A
	3rd	Earthquake size (magnitude and intensity)	N/A	N/A
2nd	4th	Epicentre, Seismograph	N/A	N/A
	5th	Classification of earthquakes	N/A	N/A
	6th	Seismic zone ,Seismic zoning map of India	N/A	N/A
3rd	7th	Static and Dynamic Loading, Fundamental period.	N/A	N/A
	8th	Revision	N/A	N/A
	9th	Chapter 2.Seismic Behaviour of Traditionally Built construction of India:-Performance of Masonry building during earthquakes	N/A	N/A
4th	10th	Common Modes of failure	N/A	N/A
	11th	Out-of-plane failure, in-plane failure, Diaphragm failure	N/A	N/A
	12th	Connection failure, Non-structural components failure	N/A	N/A
5th	13th	Revision and Assignment 1.Static and Dynamic Loading, Fundamental period. 2.Seismic waves (Primary and secondary waves)	N/A	N/A
	14th	Sessional Test No.1	N/A	N/A
	15th	Chapter 3. Special Construction Method (Base Isolation Technique)	N/A	N/A

6th	16th	Special Construction Method (Energy Dissipation Devices)	N/A	N/A
	17th	Precautions during Designing of earthquake resistant building	N/A	N/A
	18th	Precautions during Construction of earthquake resistant building	N/A	N/A
7th	19th	Precautions during Planning of earthquake resistant building	N/A	N/A
	20th	Introduction to Seismic Design codes & their related terminology		N/A
	21st	IS Codes: 1893	N/A	N/A
8th	22nd	continue IS: Codes: 1893	N/A	N/A
	23rd	IS: 154326	N/A	N/A
	24th	continue IS: 154326	N/A	N/A
9th	25th	IS: 154326	N/A	N/A
	26th	Revision and Assignment 1. Special Construction Method (Base Isolation Technique) 2. Precautions during Planning, Designing and construction of earthquake resistant building	N/A	N/A
	27th	Sessional Test No.2	N/A	N/A
10th	28th	Chapter 5. Seismic Provision of Strengthening Retrofitting, Seismic Provision of Retrofitting	N/A	N/A
	29th	continue Retrofitting, Seismic Provision of Retrofitting	N/A	N/A
	30th	Seismic Measures for Traditionally Built Constructions	N/A	N/A
11th	31st	Revision	N/A	N/A
	32nd	Chapter 6: Provision of reinforcement detailing Reinforcement detailing in masonry	N/A	N/A
	33rd	Continue Reinforcement detailing in Masonry constructions	N/A	N/A
12th	34th	Detailing in RCC Constructions	N/A	N/A
	35th	Continue Detailing in RCC Constructions	N/A	N/A
	36th	Chapter 7 Disaster Management: Disaster Management ,their phase	N/A	N/A
13th	37th	Disaster Rescue , Psychology of rescue, Rescue workers	N/A	N/A
	38th	Rescue plan, rescue by steps	N/A	N/A
	39th	Rescue equipment	N/A	N/A

14th	40th	Safety in rescue operations	N/A	N / A
	41st	Debris clearance	N/A	N / A
	42nd	Casualty management.	N/A	N / A
15th	43rd	Rehabilitation	N/A	N / A
	44th	Revision and Assignment 1.Rescue equipment 2.Disaster Rescue , Psychology of rescue, Rescue workers.Retrofitting, Seismic Provision of Retrofitting	N/A	N / A
	45th	Sessional Test No.3	N/A	N / A