

## LESSON PLAN

NAME OF FACULTY:- SACHIN SHARMA

SUBJECT:- E.R.B.C.

BRANCH:- CIVIL ENGG.

SEMESTER:- 6th

DURATION:- 15 Weeks(15 Feb to 14 June 2024)

Sno.	Theory	
	Lecture Day	Topic
1.	1.	General features of tectonic of seismic regions.
	2.	Causes of earthquakes, Seismic waves.
	3.	Causes of earthquake size (magnitude and intensity).
2.	1.	Causes of Epicentre, Seismograph.
	2.	Classification of earthquakes,
	3.	Classification of Seismic zoning map of India,
3.	1.	Classification of Static and Dynamic Loading,
	2.	Classification of Fundamental period.
	3.	Performance of building during earthquakes .
4.	1.	Mode of failure .
	2.	Out-of-plane failure
	3.	in-plane failure.
5.	1.	Diaphragm failure.
	2.	Connection failure.
	3.	Non-structural components failure
6.	1.	Special construction method.
	2.	Special construction tips.
	3.	precautions to be observed while planning.
7.		<b>1ST SESSIONAL TEST</b>
8.	1.	precautions to be observed while designing.
	2.	construction of earthquake resistant building.
	3.	Introduction to seismic zone of India
9.	1.	factors related to IS:1893
	2.	factors related to IS: 13920 (latest edition)
	3.	Seismic provision of strengthening
10.	1.	retrofitting measures for traditionally-
	2.	built constructions
	3.	Provision of reinforcement
11.	1.	detailing in masonry
	2.	RCC constructions
	3.	Disaster Management: Disaster rescue, psychology of rescue,
12.		<b>2ND SESSIONAL TEST</b>
13.	1.	rescue workers, rescue plan, rescue by steps,
	2.	rescue equipment, safety in rescue operations.
	3.	debris clearance and casualty management.
14.		revision
15.		<b>3RD SESSIONAL TEST</b>