

Department of Civil Engineering

III B.Tech II SEM (A&B), ERD, 2015-16

LESSON PLAN P. Manoj Kumar

Period	Date	Topic	Unit No	Teaching Methodology	Cumulative Periods
2	18.01.2016	Earthquake Engineering	4	C.R	2
1	19.01.2016	Source, Focus, Epicentre	4	C.R	3
1	25.01.2016	Fault, types of fault, Continental Drift, Elastic rebound theory	4	C.R	4
1	12.02.2016	Plate tectonics theory	4	C.R	5
1	13.02.2016	Modified Mercalli Classification of earthquake Magnitude, Intensity, Seismic Zoning, Accelegrams	4	C.R	6
2	15.02.2016	Introduction to structural dynamics, Frequency, amplitude, vibration, Time period	2	C.R	8
2	01.03.206	Structural Dynamics, Degrees of Freedom, mathematical modelling	2	C.R	10
2	08.03.2016	Formulation of equation of motion for SDOF and MDOF system of vibrations	2	C.R	12
2	14.03.2016	Solution of equation of motion for SDOF and MDOF system of vibrations	2	C.R	14
2	19.03.2016	Introduction to damping, Viscous damping,	2	C.R	16
2	21.03.2016	Types of damping, Over damping system, under damped system and critical damped system	2	C.R	18

2	11.04.2016	Equation of motion for Undamped free vibration system, damped free system and damped forced vibration	2	C.R	20
2	12.04.2016	Natural frequencies and mode shapes, orthogonal modes	2	C.R	22
2	18.04.2016	Review of latest IS 1893-1984	3	C.R	24
2	19.04.2016	Seismic coefficient method and response spectrum method analysis of a MDOF system	3	C.R	26
2	26.04.2016	Ductile detailing	5	C.R	28
2	02.05.2016	Review of latest seismic code for ductility incorporations	5	C.R	30
2	03.05.2016	Ductility specifications of latest code incorporation as per IS seismic code and provisions for beams, columns and joints	5	C.R	32

NOTE: C.R- Class Room Teaching (Black board, C.R)

Signature