LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
1/2	23/1/17	Engineering seismology Earthquake phenomenon causes and effects - faults - structure of earth	I	PPT	2	
1/2	24/1/17	Plate tectonics - elastic rebound theory - Danish geological terminology - focus, epicentre	I	PPT	4	
1/2	30/1/17	Epicentral dist, earthquake size - M.L.R. magnitude and intensity of earthquake	I	PPT	6	
1/2	31/1/17	classification of earthquakes - Seismic zones	I	PPT	8	
1/2	6/2/17	Seismic zones explanation	I	PPT	10	
1/2	7/2/17	Seismic map of India seismogram and accelerogram	I	PPT	12	
1/2	13/2/17	Fundamental objective of Dynamic analysis	II	BB	14	
1/2	14/2/17	types of prescribed loadings	II	BB	16	
1/2	20/2/17	methods of discretization - theory of vibrations	II	BB	18	
1/2	21/2/17	formulation of the equation of motion	II	BB	20	
1/2	27/2/17	formulation of equation and solution problems	II	BB	22	
1/2	28/2/17	theory of vibration	III	BB	24	
1/2	6/3/17	formulation and solution of the equation of motion	III	BB	26	
1/2	7/3/17	free vibration response response to harmonic	III	BB	28	
1/2	13/3/17	periodic, impulsive and general dynamic loading - Duhamel's	III	BB	30	
1/2	14/3/17	selection of the degree of freedom, evaluation of structural property etc	IV	BB	32	
1/2	27/3/17	formulation of the eqn of motion, undamped free vibration	IV	BB	34	
1/2	3/4/17	solution of eigen value problem for natural frequency	IV	BB	36	
1/2	4/4/17	mode shapes, analysis of dynamic response, normal coord	IV	BB	38	

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks
1/2	10/4/17	Introduction - Capitation by single base translation, lumped mass approach of SFOF and MDOF system.	IV	BB	40
1/2	11/4/17	IS code method of analysis. Terminology general principle of design criteria.	V	BB	42
1/2	17/4/17	Seismic coefficient method multistoried building, Bridges, Dams, Retaining walls.	VI	BB	44
1/2	18/4/17	Review of the latest Indian codes IS 4326 and IS: 13920	VI	BB	46
1/2	24/4/17	Review of the ductile detailing of R.C building.	VI	BB	48
1/2	25/4/17	Beam - column and joints.	VI	BB	50

Total 50 classes

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