

LESSON PLAN

SUBJECT: MAS

YEAR:2015-16

Class : M.Tech ,SEM : I/I

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Period	Date (Tentative)	Topic	Unit No.	Teaching Method ology	Cumulative periods	Correction Action Upon Review
VI th	21-9-15	Introduction of matrix of analysis .Static Indeterminacy -Degree of freedom co-ordinate system	I	CR	1	
VIII th	22-9-15	Structure idealization stiffness and flexibility matrix -suitability			2	
III&IV th	24-09-15	Element stiffness matrix method for truss element ,beam element and torsional element			4	
VI th	28-9-15	Solving the problems			5	
VIII th	29-9-15	Element force, displacement equations element flexibility matrix			6	
VI th	5-10-15	Solving the problems on truss beams frame and torsional element			7	
VIII th	6-10-15	Solving the problems			8	
III&IV th	8-10-15	Solving the problems			10	
VI th	12-10-15	Strain energy method and number forces and solving the problems			11	
VIII th	13-10-15	Deformation of a structure compatibility equation-analysis of			12	

		plane pin jointed truss - continuous beams				
III&IV th	15-10-15	Solving the problems			14	
VI th	19-10-15	Solving the problems			15	
VIII th	20-10-15	Stiffness method – member and global stiffness method equation	III		16	
III&IV th	22-10-15	Co-ordinate transformation and global assembly – structure stiffness matrix equation			18	
VI th	26-10-15	Solving the problems. Pin jointed trusses			19	
VIII th	27-10-15	Solving the problems			20	
III&IV th	29-10-15	Continuous beams-problems-rigid joint plane frames			22	
VI th	02-11-15	Solving the continuous beams			23	
VIII th	03-11-15	Solving the problems of simple trusses			24	
III&IV th	05-11-15	Stiffness method-development of grid elemental stiffness analysis co-ordinate truss formation	IV		26	
VI th	09-11-15	Solving the grid problems			27	
VIII th	10-11-15	Solving the grid problems tapered and curved beams			28	
III&IV th	12-11-15	Idealization the beam stiffness solution -curved beam stiffness matrix theory			30	

VI th	23-11-15	Solving the problems			31	
VIII th	24-11-15	Solving the problems			32	
III&IV th	26-11-15	Solving the problems			34	
VI th	30-11-15	Solving the problems			35	
VIII th	01-12-15	Solving the problems on tapered beams			36	
III&IV th	02-12-15	Problems on beams			38	
VI th	07-12-15	Multi-storeyed frames shear walls necessity	V		39	
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III&IV th	09-12-15	Structural behaviour of large frames with and without shear walls			42	
VI th	14-12-15	Structural behaviour of large frames with and without shear walls			43	
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III&IV th	17-12-15	Approximate methods of analysis of shear walls for tall structures			46	
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VIII th	22-12-15	Approximate methods of analysis of shear walls for tall structures			48	
III&IV th	23-12-15	Solving the problems on tall structures			50	
VI th	28-12-15	Beam limitations of rigid frames with and without shear walls			51	

VIII th	29-12-15	Shear walls for different types of very tall walls			52	
III&IV th	30-12-15	Shear walls for different types of very tall walls			54	
VI th	04-01-16	Description about the shear walls for tall buildings			55	
VIII th	05-1-16	Description about the shear walls for tall buildings			56	
III&IV th	07-01-16	Description about the shear walls for tall buildings			58	