

PANIPAT INSTITUTE OF ENGINEERING & TECHNOLOGY

Department of Civil Engineering

Faculty Name: - Gaurav Kumar

Subject Name: - DCS.-II

Year/Semester: - 4th /7th

Subject Code: - CE-401N

LESSON PLAN

Sr. No.	Lecture No.	Topics To Be Covered	Tentative Date
1	L-1	UNIT-I Continuous Beams: Introduction and Basic assumptions,	16/07/2019
2	L-2	Moment of inertia Settlements, Modification of moments	17/07/2019
3	L-3	maximum moments and shear Beams curved in plan-analysis for torsion	18/07/2019
4	L-4	Redistribution of moments for single and multi-span beams,Design examples.	19/07/2019
5	L-5	Prestressed Concrete: Basic principles,	23/07/2019
6	L-6	classification of prestressed members.	24/07/2019
7	L-7	various prestressing systems	25/07/2019
8	L-8	Losses in prestress	26/07/2019
9	L-9	initial and final stress conditions & analysis	30/07/2019
10	L-10	Design of sections for flexure and shear,	31/07/2019
11	L-11	load balancing concept, IS:Specifications	01/08/2019
12	L-12	End blocks-Analysis of stresses	02/08/2019
13	L-13	Magnel's method	06/08/2019
14	L-14	Guyon's method,	07/08/2019
15	L-15	Bursting and spalling stresses,	08/08/2019
16	L-16	Design examples	09/08/2019
17	L-17	UNIT-II Flat slabs and staircases:Advantages of flat slabs,	13/08/2019
18	L-18	general design considerations,	14/08/2019
19	L-19	Approximate direct design method,	16/08/2019
20	L-20	design of flat slabs,	20/08/2019
21	L-21	design of flat slabs,	21/08/2019
22	L-22	openings in flat slab.	22/08/2019
23	L-23	Design of various types of staircases	23/08/2019
24	L-24	Design examples.	27/08/2019
25	L-25	Foundations: Combined footings,	28/08/2019
26	L-26	raft foundation.	29/08/2019
27	L-27	Design of pile cap and piles	30/08/2019
28	L-28	under-reamed piles.	3/09/2019
29	L-29	Design examples.	4/09/2019
30	L-30	UNIT-III Water Tanks, Silos and Bunkers:	5/09/2019
31	L-31	Estimation of Wind and earthquake forces.	6/09/2019
32	L-32	Design requirements,	10/09/2019
33	L-33	rectangular and cylindrical underground and overhead tanks,	11/09/2019
34	L-34	Intze tanks, design considerations,	12/09/2019
35	L-35	design examples	13/09/2019
36	L-36	Silos and Bunkers-Variou theories	17/09/2019
37	L-37	Bunkers with sloping bottoms and with high side walls,	18/09/2019
38	L-38	Bunkers with sloping bottoms and with high side walls,	19/09/2019
39	L-39	Battery of bunkers, design examples.	25/09/2019

40	L-40	Design examples.	26/09/2019
41	L-41	UNIT-IV Building Frames: Introduction	27/09/2019
42	L-42	Member stiffnesses,	01/10/2019
43	L-43	Loads Analysis for vertical and lateral loads, ,	03/10/2019
44	L-44	Torsion in buildings	01/10/2019
45	L-45	Ductility of beams	03/10/2019
46	L-46	design and detailing for ductility.	04/10/2019
47	L-47	Design examples.	09/10/2019
48	L-48	Yield Line Theory:Basic assumptions, Methods of analysis	10/10/2019
49	L-49	yield line patterns and failure mechanisms	11/10/2019
50	L-50	Analysis of one way and two way rectangular	15/10/2019
51	L-51	non-rectangular slabs	16/10/2019
52	L-52	Effect of top corner steel in square slabs	18/10/2019
53	L-53	design examples	24/10/2019
54	L-54	Revision	25/10/2019
		Revision	05/11/2019
		Revision	06/11/2019
		Revision	07/11/2019
		Revision	08/11/2019
		Revision	13/11/2019
		Revision	14/11/2019
		Revision	15/11/2019
		Revision	19/11/2019

GAURAV KUMAR
(COURSE INCHARGE)