

PCC-CVE-204-P STRUCTURAL ANALYSIS – I LAB (P)

Name of the Faculty : Mr. MANIK GOYAL
Discipline : B.Tech in Civil Engineering
Semester : IV (2nd Year)
Subject : Structural Analysis-I Lab (P)
Lesson Plan Duration : 15 Weeks
Work Load (Lecture / Practical) per week (in hrs.) : Practical – 02

Week	Practical	
	Lecture day	Topic (Including Assignment Test)
1 st	1	Exp.1-Verification of reciprocal theorem of deflection using a simply supported beam.(Group1)
	2	Exp.1-Verification of reciprocal theorem of deflection using a simply supported beam.(Group2)
2 nd	3	Exp.2-Verification of moment area theorem for slopes and deflections of the beam.(Group1)
	4	Exp.2-Verification of moment area theorem for slopes and deflections of the beam.(Group2)
3 rd	5	Exp.3-Deflections of a truss- horizontal deflection & vertical deflection of various joints of a pin-jointed truss.(Group1)
	6	Exp.3-Deflections of a truss- horizontal deflection & vertical deflection of various joints of a pin-jointed truss.(Group2)
4 th	7	Exp.4-Elastic displacements (vertical & horizontal) of curved members.(Group1)
	8	Exp.4-Elastic displacements (vertical & horizontal) of curved members.(Group2)
5 th	9	Exp.5-Experimental and analytical study of 3 hinged arch and influence line for horizontal thrust.(Group1)
	10	Exp.5-Experimental and analytical study of 3 hinged arch and influence line for horizontal thrust.(Group2)
6 th	11	Exp.6-Experimental and analytical study of behavior of struts with various end conditions.(Group1)
	12	Exp.6-Experimental and analytical study of behavior of struts with various end conditions.(Group2)
7 th	13	VIVA- VOCE GROUP-1
	14	VIVA – VOCE GROUP-2
8 th	15	Exp.7-To determine elastic properties of a beam.(Group1)
	16	Exp.7-To determine elastic properties of a beam.(Group2)
9 th	17	Exp.7-To determine elastic properties of a beam.(Group1)
	18	Exp.7-To determine elastic properties of a beam.(Group2)
10 th	19	Ex.8-Uniaxial tension test for steel (plain & deformed bars).(Group1)
	20	Ex.8-Uniaxial tension test for steel (plain & deformed bars).(Group2)
11 th	21	Exp.9-tension test for steel (plain & deformed bars).(Group1)

	22	Exp.9-Uniaxial tension test for steel (plain & deformed bars).(Group2)
12 th	23	Exp.10-Uniaxial compression test on concrete & bricks specimens.(Group1)
	24	Exp.10 -Uniaxial compression test on concrete & bricks specimens.(Group2)
13 th	25	Exp.11-Uniaxial compression test on concrete & bricks specimens.(Group1)
	26	Exp.11-Uniaxial compression test on concrete & bricks specimens.(Group2)
14 th	27	Exp.11-Uniaxial compression test on concrete & bricks specimens.(Group1)
	28	Exp.11-Uniaxial compression test on concrete & bricks specimens.(Group2)
15 th	29	VIVA-VOCE Group- 1
	30	VIVA – VOCE Group - 2