Department of Civil Engineering

II-II M.TECH, PC, 2016-17

LESSON PLAN G.D.R.NAIDU

Period	Date	Topic	Unit No	Teaching Methodology	Cumulative Periods
1,2	25-01-2016	Historic development and general principles of prestressing	1	C.R	2
3,4	27-01-2016	Advantages and limitations of prestressed concrete and materials used	1	C.R	4
1,2	01-02-2016	Characteristics and I.S code provisions , methods of prestressing	1	C.R	6
3,4	03-02-2016	Systems of prestressing	1	C.R	8
3,4	08-02-2016	Losses of prestressing due to elastic shortening	2	C.R	10
1,2	10-02-2016	Problems on Losses of prestressing due to elastic shortening	2	C.R	12
3,4	15-02-2016	Losses due to creep of concrete and relaxation steel and problems	2	C.R	14
1,2	17-02-2016	Loss due to slip in anchorage and frictional losses and problems	2	C.R	16
3,4	22-02-2016	Analysis of sections for flexure: Elastic analysis of concrete beams prestressed with straight tendons	2	C.R	18
1,2	24-02-2016	Concentric, bent, eccentric tendons and problems	2	C.R	20
3,4	01-03-2016	Parabolic profile tendons and problems	2	C.R	22
1,2	03-03-2016	**Short term deflections of uncracked members**	3	C.R	24
3,4	08-03-2016	Analysis of pre stress and bending stress	3	C.R	26
1,2	10-03-2016	Concentric tendons	3	C.R	28
3,4	15-03-2016	Problems on concentric tendons	3	C.R	30
1,2	17-03-2016	Eccentric tendons and problems	3	C.R	32
3,4	29-03-2016	Bend tendons and problems	3	C.R	34
1,2	31-03-2016	Parabolic tendons and problems	4	C.R	36
3,4	05-04-2016	Concept Of Load Balancing	4	C.R	38

1,2	07-04-2016	Deflections of pre stressed concrete beams	4	C.R	40
3,4	12-04-2016	Deflections of prestressed concrete	5	C.R	42
1,2	19-04-2016	Importance of control of deflections	5	C.R	44
3,4	07-04-2016	Factors influencing deflections	5	C.R	46
1,2	21-04-2016	**Short term deflections of uncracked members**	4	C.R	48
3,4	26-04-2016	**Problems**	5	C.R	50
1,2	28-04-2016	**Prediction of long term deflections**	5	C.R	52
3,4	03-05-2016	Types of flexural failures	5	C.R	54
1,2	05-05-2016	Shear and principle stress and problems	5	C.R	56
3,4	07-05-2016	Pc members in torsion	5	C.R	58
1,2	09-05-2016	Design of sections for flexure axial torsion compression and bending shear	5	C.R	60
3,4	14-06-2016	Design of PC for flexure	5	C.R	62
1,2	16-06-2016	Analysis of end blocks by guyons method AND magnels method	5	C.R	64
3,4	28-06-2016	anchorage zone stresses	5	C.R	66
1,2	5-07-2016	Shrinkage concept	5	C.R	68

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

Signature