

Department of Civil Engineering

III B.Tech II SEM- A&B, PC, 2015-16

LESSON PLAN

V.DIVYASRI

Period	Date	Topic	Unit No	Teaching Methodology	Cumulative Periods
3,4	18-01-2016	Historic development and general principles of prestressing	1	C.R	2
5,6	19-01-2016	Advantages and limitations of prestressed concrete and materials used	1	C.R	4
3,4	25-01-2016	Characteristics and I.S code provisions , methods of prestressing	1	C.R	6
3,4	08-02-2016	Systems of prestressing	1	C.R	8
5,6	09-02-2016	Losses of prestressing due to elastic shortening	2	C.R	10
3,4	15-02-2016	Problems on Losses of prestressing due to elastic shortening	2	C.R	12
5,6	16-02-2016	Losses due to creep of concrete and relaxation steel and problems	2	C.R	14
3,4	22-02-2016	Loss due to slip in anchorage and frictional losses and problems	2	C.R	16
5,6	23-02-2016	Analysis of sections for flexure: Elastic analysis of concrete beams prestressed with straight tendons	2	C.R	18
3,4	29-02-2016	Concentric, bent, eccentric tendons and problems	2	C.R	20
5,6	01-03-2016	Parabolic profile tendons and problems	2	C.R	22
3,4	07-03-2016	Design of sections for flexure & shear: Elastic design of simple rectangular beam and problems on it	3	C.R	24
5,6	08-03-2016	design of I- section and problems on it	3	C.R	26
3,4	14-03-2016	Shear and principle stresses	3	C.R	28
5,6	15-03-2016	Kern-lines, cable profile, analysis of end blocks	3	C.R	30
3,4	21-03-2016	Guyon's methods and magnel method and problems	3	C.R	32
5,6	22-03-2016	Anchorage zone stresses, Anchorage zone reinforcement, transfer of prestress	3	C.R	34
3,4	28-03-2016	Composite sections: Introduction to analysis of stress	4	C.R	36

5,6	29-03-2016	Differential shrinkage and problems, General design considerations	4	C.R	38
3,4	04-04-2016	Problems on design considerations	4	C.R	40
5,6	05-04-2016	Deflections of prestressed concrete	5	C.R	42
3,4	11-04-2016	Importance of control of deflections	5	C.R	44
5,6	12-04-2016	Factors influencing deflections	5	C.R	46
3,4	18-04-2016	Short term deflections of uncracked members	4	C.R	48
5,6	19-04-2016	problems	5	C.R	50
3,4	25-04-2016	Prediction of long term deflections	5	C.R	52
5,6	26-04-2016	problems	5	C.R	54
3,4	02-05-2016	Revision and class tests	5	C.R	56
5,6	03-05-2016	Revision and class tests	5	C.R	58

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


Signature