Department of Civil Engineering

I M.Tech II SEM,**sos**, 2016-17

LESSON PLAN

Period	Date	Topic	Unit No	Teaching Methodology	Cumulative Periods
1, 2	25-01-2017	Introduction on stability of structures	I	CR/BB	2
3,4	27-01-2017	**Beam columns** , differential equations for beam columns	I	CR	4
1,2	01-02-2017	Beam column with concenreted loads	I	CR	6
3,4	03-02-2017	Continuoes lateral load and couples	I	CR	8
1,2	08-02-2017	Beam column with built in ends	I	CR	10
3,4	10-02-2017	Continuoes beam with axialload and application of trigonometric series	I	CR/BB	12
1,2	15-02-2017	Determination of allowable stresses	I	CR	14
3,4	17-02-2017	**Elastic buckling of bars,** elastic buckling of straight columns	II	CR	16
1,2	22-02-2017	Effect of shear stress on buckling	II	CR/BB	18
3,4	01-03-2017	Eccentrically and laterally loaded columns	II	CR	20
1,2	03-03-2017	Sway and non swaymode	II	CR	22
3,4	08-03-2017	Energy methods	II	CR	24
1,2	10-03-2017	Buckling of bar on elastic foundation	III	CR	26
3,4	15-03-2017	Buckling of bar with intermediate compressive force and distributed axial loads	III	CR	28
3,4	17-03-2017	Buckling of bars with change in cross section	III	CR	30
1,2	29-03-2017	Effect of shear force on critical load	III	CR	32
3,4	31-03-2017	Built up columns, Effect of initialcurvature on bars	III	CR	34
1,2	07-04-2017	Buckling of frames, Sway and nonsway mode	III	CR/BB	36
3,4	12-04-2017	**Experiments and design formulae,** experiments on columns	IV	CR	38
1,2	19-04-2017	Empirical formulae of design	IV	CR	40
3,4	21-04-2017	Various end conditions	IV	CR/BB	42

1,2	26-04-2017	Design of columns based on buckling	IV	CR	44
3,4	28-04-2017	**Mathematical treatment of stability problems**, buckling problem orthogonality relation	V	CR	46
1,2	03-05-2017	Ritz method, Timeshinkomethod, Galerkin method	V	CR	48
3,4	05-05-2017	**Lateral buckling of simply supported beams,** beams of rectangular cross section subjected to pure bending	VI	CR/BB	50
1,2	07-06-2017	Buckling of I section subjected to pure bending	VI	CR/BB	52
3,4	09-06-2017	revision		CR	54
1,2	14-06-2017	revision		CR	56

NOTE: C.R / BB- Class Room Teaching (Black Board, PPT)

Signature