

Department of Civil Engineering  
II B.Tech II SEM (A), SOM-II, 2015-16  
LESSON PLAN Laxmi Ganesh

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Cumulative periods
2	21-12-15	Introduction about the thin cylinders .Determination of formula for longitudinal stress	I	C.R	1
5,6,7	22-12-15	Determination of formula for circumferential stress	I	C.R	4
2	28-12-15	Determination volumetric strains	I	C.R	5
5,6,7	29-12-15	Concept of change in diameter	I	C.R	8
2	04-01-16	Thin spherical shells	I	C.R	9
5,6,7	5-01-16	Problems in thin spherical shells	I	C.R	12
2	11-01-16	Introduction about thick cylinder	II	C.R	13
5,6,7	12-01-16	Theory and assumption of the thick cylinders	II	C.R	16
2	18-01-16	Design of thick cylinders	II	C.R	17
5,6,7	19-01-16	Problems on thick cylinders	II	C.R	20
2	25-01-16	Introduction about compound cylinders	II	C.R	21
5,6,7	26-01-16	Introduction about spherical shells	II	C.R	24
2	01-02-16	Volume shrinkage in spherical shells ,internal fluid pressure in shells, introduction about principal stress	III	C.R	25
5,6,7	02-02-16	Introduction about principal strains, principle of planes and section	III	C.R	28
2	08-02-16	Methods for determining stresses, normal stress and tangential stress	III	C.R	29
5,6,7	09-02-16	Principle stress and problems, problems on normal and shear stresses ,members subjected direct stresses	III	C.R	32
2	15-02-16	Solving the problems	III	C.R	31
5,6,7	16-02-16	A member is subjected to two mutual perpendicular stresses condition	III	C.R	34
2	22-02-17	Problem on above concept	III	C.R	35
5,6,7	23-02-16	Member subjected to simple shear and concept and problems	III	C.R	38

2	29-02-16	Perpendicular and simple shear, problems on simple shear, introduction on mohr's circle	III	C.R	39
5,6,7	07-03-16	Theory of torsion and assumptions, derivation of torsion equation, torsion moment of resistance, problems on twisting moment and solids	IV	C.R	42
2	08-03-16	Combined bending and design of shaft according to friction, polar section modulus in torsion,	IV	C.R	43
5,6,7	14-03-16	Introduction, types of columns of short and long, axially loaded compression members	V	C.R	46
2	15-03-16	Solving the problems	V	C.R	47
5,6,7	21-03-16	Solving the problems	V	C.R	50
2	22-03-16	Solving the problems	V	C.R	51
5,6,7	28-03-16	Euler's theory, variation equivalent length of column	V	C.R	54
2	29-03-16	Solving the problems	V	C.R	55
5,6,7	04-04-16	Solving the problems	V	C.R	58
2	05-04-16	Euler's critical stress and theory, slenderness ratio and condition and problems	V	C.R	59
5,6,7	11-04-16	Solving the problems	V	C.R	62
2	12-04-16	Solving the problems	V	C.R	63

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

*S. L. G. K.*  
Signature