Department of Civil Engineering
II-I MOM LESSON PLAN
Ch Kannam Naidu

Period	Date	Topic	Unit No	Teaching Methodology	Cumulative Periods
2	01-09-2014	Elasticity and plasticity – Types of stresses and strains	1	C.R	1
5,6	02-09-2014	– Hooke's law, stress – strain diagram for mild steel, Working stress Factor of safety	1	C.R	3
1	5/09/2014	Lateral strain, Poisson's ratio and volumetric strain, Problems	1	C.R	4
2	08-09-2014	Elastic moduli and the relationship between them –	1	C.R	5
1	09-09-2014	PROBLEMS	1	C.R	6
2	12/9/2014	PROBLEMS	1	C.R	7
2	15/9/2014	Bars of varying section – composite bars, Problems	1	C.R	8
	16-9-2014	PROBLEMS	1	C.R	9
		Definition of beam– Concept of shear force(S.F.) and bending moment (B.M.)– Point of contra flexure – Relation between S.F., B.M and rate of loading at a section of a beam.			
5,6	22-9-2014	PROBLEMS	2		12
5,6	23-9-2014	– S.F and B.M diagrams for simply supported beams subjected to point loads, u.d.l., uniformly varying loads	2	C.R	14
2	29/9/2014	PROBLEMS	2	C.R	15
1	30-9-2014	PROBLEMS	2	C.R	16
5,6	6-10-2014	S.F and B.M diagrams for overhanging beams subjected to point loads, u.d.l., uniformly varying load, POINT OF CONTRAFLEXTURE	2	C.R	18
2	07-10-2014	PROBLEMS	2	C.R	19
2	27-10-2014	**Flexural stresses:**	3	C.R	20
		Theory of simple bending Assumptions			
1	28-10-2014	Derivation of bending equation Neutral axis	3	C.R	21
		Determination bending stresses			

1	31/10/2014	PROBLEMS	3	C.R	22
2	3/11/2014	PROBLEMS	3	C.R	23
1	07-11-2014	– section modulus of rectangular, circular sections (Solid and Hollow, Determination bending stresses	3	C.R	24
1	10-11-2014	problems	3	C.R	25
5.6	11-11-2014	problems	3	C.R	27
1	14-11-2014	I,T sections Channel sections –Composite sections	3	C.R	28
2	17/11/2014	PROBLEMS	3	C.R	29
5,6	18-11-2014	**Shear stresses:** Derivation of formula – shear stress distribution across various beam sections like rectangular, circular, sections.	4	C.R	31
1	21-11-2014	Problems shear stress distribution	4	C.R	32
2	24-11-2014	Problems of the composite sections	4	C.R	33
5,6	25/11/2014	I,T,H SECTIONS	4	C.R	35
1	28/11/2014	PROBLEMS	4	C.R	
2	01/11/2014	PROBLEMS	4	C.R	36
5,6	2/11/2014	PROBLEMS	4	C.R	38
		Deflection of beams: Bending into a circular arc —— slope, deflection and radius of curvature			
5.6	09-12-2014	Double integration, problems	5	C.R	41
2,3	08-12-2014	Double integration, problems	5	C.R	43
1	12-12-2014	problems	5	C.R	44
2	15/12/2014	Double integration method	5	C.R	45
5.6	23-12-2014	Determination of slope and deflection for cantilever and simply supported beams subjected to point loads and U.D.L	5	C.R	47
5,6	30-12-2014	problems	5	C.R	49

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

Signature