LESSON PLAN

Name of the Institute :	C.V. RAMAN POLYTECHNIC, BHUBANESWAR
Department :	CIVIL ENGINEERING
Semester/Division/Branch :	3RD / CIVIL
Subject Name with code :	STRUCTURAL MECHANICS (TH.1)
Total No. of Class (Required) :	75
Faculty Name :	SAFALYA MOHANTY

Class No.	Brief Description of the Topic/Chapter to be taught	Remarks
1	Review Of Basic Concepts	
2	.....DO.....	
3	.....DO.....	
4	.....DO.....	
5	Simple & Complex Stress,Strain	
6	Introduction to stresses & strain	
7	.....DO.....	
8	Types of Stresses	
9	.....DO.....	
10	Types of Strain	
11	.....DO.....	
12	.....DO.....	
13	Hook's Law_Elastic constant	
14	.....DO.....	
15	Derivation of Relationships	
16	.....DO.....	
17	Applications of simple stress &srtain in Engg field	
18	.....DO.....	
19	.....DO.....	
20	Complex stress & strain	
21	.....DO.....	
22	.....DO.....	
23	Stresses in Beams	
24	.....DO.....	
25	stresses in beams due to bending	
26	.....DO.....	
27	.....DO.....	
28	.....DO.....	

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29	Shear stresses in beams	
30	.....DO.....	
31	Stresses in shaft due to torsion	
32	.....DO.....	
33	.....DO.....	
34	Combined Bending & Direct Stresses	
35	.....DO.....	
36	Columns & Structs	
37	.....DO.....	
38	.....DO.....	
39	.....DO.....	
40	Shear force & Bending moment	
41	.....DO.....	
42	Types of loads and Beams	
43	.....DO.....	
44	Types of Support	
45	.....DO.....	
46	Types of Reactions	
47	.....DO.....	
48	Types of Beam based on Support Condition	
49	.....DO.....	
50	Calculation Of Static Equilibrium	
51	.....DO.....	
52	Shear force & Bending moment in Beams	
53	.....DO.....	
54	.....DO.....	
55	.....DO.....	
56	Slope & Deflection	
57	.....DO.....	
58	Introduction	
59	.....DO.....	
60	.....DO.....	
61	Cantilever & Simply Supported Beam By Different Methods	
62	.....DO.....	
63	.....DO.....	
64	.....DO.....	
65	Indeterminate Beams	
66	.....DO.....	
67	.....DO.....	
68	.....DO.....	

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69	.....DO.....	
70	.....DO.....	
71	Trusses and Frames	
72	.....DO.....	
73	.....DO.....	
74	.....DO.....	
75	.....DO.....	

Signature of the Faculty

Signature of the H.O.D

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