

LESSON PLAN

Subject Name- Strength of materials	Branch- Production Engineering
Subject Code- BPE2401	Semester- 4th

S/N	Module	Topic(s)	Period/ Hours
1	I	Analysis of axially loaded members	1
2	I	2D Stress system	2
3	I	Mohr's stress circle	3
4	I	Members in biaxial state of stress	4
5	I	Strain & deformation	5
6	I	Calculation of principal stresses from principal strain	6
7	I	Strain measurement	7
8	I	Tutorial	8
9	I	Problem solving	9
10	I	Problem solving	10
11	II	Shear force and bending moment diagrams for simple beams	11-12
12	II	shear force and bending moment diagrams	13-14
13	II	Simple bending of beams	15
14	II	Tutorial	16-17
15	II	Problem solving	18-19
16	III	Torsion in solid and hollow circular shafts	20-21

S/N	Module	Topic(s)	Period/ Hours
17	III	Twisting moment	22
18	III	Strength of solid and hollow circular shafts	23-27
19	III	Strength of shafts in combined bending and twisting	28
20	III	Close-coiled helical springs	29-30
21	III	Deflection of Beams	31
22	III	Tutorial	32
23	IV	Buckling of columns	33
24	IV	Theories of failure	34
25	IV	Maximum principal strain theory	35-36
26	IV	Maximum strain energy theory and maximum distortion energy theory	37-38
27	IV	Tutorial	39
28	IV	Problem solving	40