



K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE - 560109
DEPARTMENT OF MECHANICAL ENGINEERING

NAME OF THE STAFF : ABHISHEK M R

COURSE CODE/TITLE : 18ME32/ MECHANICS OF MATERIALS

SEMESTER/YEAR : III / II

ACADEMIC YEAR : 2019-2020

Sl. No.	Topic to be covered	Mode of Delivery	Teaching Aid	No. of Periods	Cumulative No. of Periods	Proposed Date	Engaged Date
MODULE 1							
1	Introduction to Stress, Strain and Hooke law	L+D	BB	1	1	29/07/2019	29/7/19
2	Extension And Shortening of Bar, Bar With Varying Cross Section In Steps	L	BB	1	2	30/07/2019	30/7/19
3	Bar With Continuously Varying Cross Section - Circular And Rectangular	L+PS	BB	1	3	31/07/2019	31/7/19
4	Composite sections And Numerical Problems	L+PS	BB	1	4	01/08/2019	1/8/19
5	Tutorial	L+PS	BB	0	4	02/08/2019	2/8/19
6	Temperature Stress And Numerical Problems	L+PS	BB	1	5	05/08/2019	6/8/19
7	Temperature Stress And Numerical Problems	L+PS	BB	1	6	06/08/2019	7/8/19
8	Shear Stress And Strains Numerical Problems	L+PS	BB	1	7	07/08/2019	8/8/19
9	Generalized Hooke law	L	BB	1	8	08/08/2019	10/8/19
10	Bulk modulus, Relationship between elastic constants	L+PS	BB	1	9	13/08/2019	13/8/19
11	Numerical Problems on elastic constants	L+PS	BB	1	10	14/08/2019	14/8/19
MODULE 2							
	Tutorial	L+PS	BB	0	10	16/08/2019	16/8/19
12	Thin cylinder: Hoop's stress, maximum shear stress	L+D	BB	1	11	17/08/2019	17/8/19
13	Numerical Problems on thin cylinders	L	BB	1	12	19/08/2019	17/8/19
14	circumferential and longitudinal strains	L	BB	1	13	20/08/2019	19/8/19
15	Numerical Problems on thick cylinders	L+PS	BB	1	14	21/08/2019	20/8/19
16	Numerical Problems on thick cylinders	L+PS	BB	1	15	22/08/2019	21/8/19

17	Tutorial	L+PS	BB	0	15	23/08/2019	22/8/19
18	Introduction, Pure Torsion Assumptions	L	BB	1	16	26/08/2019	22/8/19
19	Derivation of Torsion Equations	L+PS	BB	1	17	27/08/2019	26/8/19
20	Polar Modulus Torsional Rigidity Stiffness of Shafts Power Transmitted By Solid	L+PS	BB	1	18	28/08/2019	27/8/19
21	Polar Modulus Torsional Rigidity Stiffness of Shafts Power Transmitted By Hollow Circular Shafts	L+PS	BB	1	19	29/08/2019	28/8/19
22	Tutorial	L+PS	BB	0	19	30/08/2019	29/8/19
23	Tutorial	L+PS	BB	0	19	06/09/2019	30/8/19
24	Numerical	L+PS	BB	1	20	09/09/2019	30/8/19

MODULE 3

25	Introduction to Columns Eulers Theory For Axially Loaded Elastic Long Columns	L+D	BB	1	21	11/09/2019	31/8/19
26	Numerical	L+PS	BB	1	22	12/09/2019	16/9/19
27	Numerical	L+PS	BB	1	23	12/09/2019	17/9/19
28	Tutorial	L+PS	BB	0	23	13/09/2019	18/9/19
29	Tutorial	L+PS	BB	0	23	14/09/2019	19/9/19
30	Numerical	L+PS	BB	1	24	16/09/2019	20/9/19
31	Numerical	L+PS	BB	1	25	17/09/2019	23/9/19
32	Derivation of Eulers Load For Various End Conditions Limitations of Eulers Theory Rankines formula	L	BB	1	26	18/09/2019	24/9/19
33	Derivation of Eulers Load For Various End Conditions Limitations of Eulers Theory Rankines formula	L	BB	1	27	19/09/2018	27/9/19
34	Tutorial	L+PS	BB	0	27	20/09/2019	30/9/19
35	Castigliano's theorem I and II	L+PS	BB	1	28	23/09/2019	1/10/19
36	Strain energy due to normal stresses	L+PS	BB	1	29	24/09/2019	3/10/19
37	Strain energy due to bending and torsion	L+PS	BB	1	30	25/09/2019	9/10/19

MODULE 4

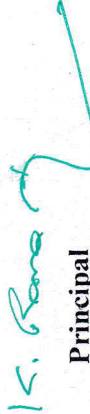
38	Type of beams, Loads and reactions, Relationship between loads, shear forces and Bending Moment	L+D	BB	1	31	26/09/2019	10/10/19
39	Tutorial	L+PS	BB	0	31	27/09/2019	11/10/19
40	Shear force and bending moments of cantilever beams	L+PS	BB	1	32	30/09/2019	12/10/19
41	Shear force and bending moments of simply	L+PS	BB	1	33	01/10/2019	18/10/19

42	supported beam Tutorial	L+PS	BB	0	33	03/10/2019	21/10/19
43	Shear force and bending moments of simply supported beam	L+PS	BB	1	34	03/10/2019	22/10/19
44	Tutorial	L+PS	BB	0	34	04/10/2019	23/10/19
45	Shear force and bending moments of over hanging beam	L+PS	BB	1	35	09/10/2019	24/10/19
46	Shear force and bending moments of over hanging beam	L+PS	BB	1	36	10/10/2019	25/10/19
47	Tutorial	L+PS	BB	0	36	11/10/2019	26/10/19
48	Introduction Theory of simple Bending Assumptions In Simple Bending	L+PS	BB	1	37	12/10/2019	28/10/19.
49	Relationship Between Bending Stresses And Radius of Curvature	L+PS	BB	1	38	17/10/2019	30/10/19
50	Tutorial	L+PS	BB	0	38	18/10/2019	4/11/19
51	Moment Carrying Capacity of a Section, Shearing Stresses in Beams	L+PS	BB	1	39	21/10/2019	5/11/19
52	Shear Stress Across Rectangular Circular Symmetrical I and T Sections	L+PS	BB	1	40	22/10/2019	6/11/19
53	Plane stress, Stresses on inclined planes	L+D	BB	1	41	23/10/2019	8/11/19
54	Principal stresses and maximum shear stress	L+PS	BB	1	42	24/10/2019	11/11/19
55	Tutorial	L+PS	BB	0	42	25/10/2019	-
56	Shear stresses on principal planes, Maximum shear stress	L+PS	BB	1	43	26/10/2019	12/11/19
57	Numerical Problems	L+PS	BB	1	44	28/10/2019	13/11/19
58	Mohr circle for plane stress conditions	L+PS	BB	1	45	30/10/2019	} 13/11/19
59	Mohr circle for plane stress conditions	L+PS	BB	1	46	31/10/2019	
60	Mohr circle for plane stress conditions	L+PS	BB	1	47	04/11/2019	} 14/11/19
61	Maximum Principal stress theory	L+PS	BB	1	48	05/11/2019	
62	Maximum shear stress theory	L+PS	BB	1	49	06/11/2019	} 14/11/19
63	Numerical	L+PS	BB	1	50	07/11/2019	
64	Tutorial	L+PS	BB	0	50	08/11/2019	-
65	Revision	L+PS	BB	0	50	09/11/2019	} 18/11/19.
66	Revision	L+PS	BB	0	50	11/11/2019	

67	Revision	L+PS	BB	0	50	12/11/2019	} 19/11/19
68	Revision	L+PS	BB	0	50	13/11/2019	
69	Revision	L+PS	BB	0	50	14/11/2019	} 20/11/19
70	Revision	L+PS	BB	0	50	18/11/2019	
71	Revision	L+PS	BB	0	50	19/11/2019	} 20/11/19
72	Revision	L+PS	BB	0	50	20/11/2019	


Course In Charge


Head - Dept


Principal