

TEACHING PLAN FOR THEORY

Subject Teacher: Rashmi K

Subject: Engineering Mechanics		Class: F.Y. B.Tech	Div: A	Year 2018-2019
Lecture No	Scheduled Date	Topics to be covered on the scheduled date	Dates on which Actually Covered	Reasons for deviation (if any)
1	30/7/2018	Syllabus Discussion, Discussion on course objective & course outcome(Tutorial)		
Unit-I: System of Coplanar forces				
2	31/7/2018	Resultant of Concurrent forces, Parallel forces, Non Concurrent Non Parallel system of forces(Extra Lecture)		
3	1/08/2018	Moment of force about a point, Couples		
4	2/08/2018	Lami's Theorem, Varignon's Theorem		
5	3/08/2018	Distributed Forces in plane, Resultant of general force system, Resultant of general force system		
6	3/08/2018	Center of Gravity and Centroid for plane Laminas(Extra Lecture)		
7	6/08/2018	Tutorial -TAE-I		
8	7/08/2018	Center of Gravity and Centroid for plane Laminas		
Unit-II: Equilibrium of Force System				
9	8/08/2018	Condition of equilibrium for concurrent forces, Condition of equilibrium for Non concurrent Non Parallel & general forces		
10	9/08/2018	Condition of equilibrium for parallel forces and couples		
11	10/08/2018	Analysis of plane trusses by using Method of joints(Extra Lecture)		
12	10/08/2018	Analysis of plane trusses by using Method of sections		
13	13/08/2018	Tutorial		

14	14/08/2018	Friction: Dry Friction, Laws of friction, angle of friction		
15	16/08/2018	CAE-I		
16	17/08/2018	CAE-I		
17	20/08/2018	Tutorial ,Wedge friction, Ladder friction, belt friction		
Unit III : : Analysis of Beams, Frames				
18	22/08/2018	Beams: Types of beams, Types of supports ,Types of loading for beams		
19	23/08/2018	Examples on analysis of beam		
20	24/08/2018	Analysis of Trusses &Frames		
21	27/08/2018	Tutorial -TAE-II		
22	29/08/2018	problems		
23	30/08/2018	problems		
Unit IV: Dynamics -Kinematics				
24	31/08/2018	Kinematics- Basic concepts, equation of motion for constant acceleration		
25	03/09/2018	Tutorial		
26	05/09/2018	Equation of motion for motion under gravity, Variable acceleration		
27	06/09/2018	Equation of motion for motion curves		
28	07/09/2018	Motion curves (a-t, v-t, s-t curves)		
29	10/09/2018	Tutorial		
30	12/09/2018	Projectile motion		
31	14/09/2018	problems		

32	17/09/2018	CAE-II		
Unit V: Dynamics				
33	19/09/2018	Kinematics of Particle: - Velocity & acceleration in terms of rectangular co-ordinate system		
34				
35	21/09/2018	Motion along plane curved path ,Tangential & Normal component of acceleration		
36	24/09/2018	TAE-III , Tutorial		
37	26/09/2018	Newton's Second law of motion. D'Alemberts Principle		
38	27/09/2018	problems		
Unit VI: Principle of Work Energy & Impulse Momentum				
39	28/09/2018	Work energy principle for particle: Work, Power, Energy, conservative forces		
40	1/10/2018	Tutorial		
41	3/10/2018	Impulse momentum principle for particle: Linear Impulse & Momentum, Conservation of momentum		
42	4/10/2018	Potential Energy, Conservation of Energy		
43	5/10/2018	Work energy principle for motion of particle, Impulse momentum principle		
44	8/10/2018	Tutorial		
45	10/10/2018	CAE-III		
46	11/10/2018	CAE-III		
47	12/10/2018	CAE-III		
48	15/10/2018	TAE-V Tutorial		
49	17/10/2018	Direct central impact & coefficient of restitution.		

50	18/10/2018	Revision classes		
51	19/10/2018	Revision classes		
52	22/10/2018	Tutorial- TAE-7		
53	24/10/2018	Revision classes		
54	25/10/2018	Revision classes		
55	26/10/2018	Revision classes		
56	29/10/2018	CAE-IV		
57	31/10/2018	CAE-IV		
58	1/11/2018	CAE-IV		
59	2/11/2018	CAE-IV		