

TEACHING PLAN FOR THEORY

Name of Subject Teacher: Rashmi K

Subject: Engineering Mechanics		Class: Div-A	Branch: F.Y. B.TECH	Year: 2017-2018
Lecture No	Scheduled Date	Topics to be covered on the scheduled date		
1	18/7/2017	Syllabus Discussion, Discussion on course objective & course outcome		
		Unit-1: System of Coplanar forces		
2	19/7/2017	Resultant of Concurrent forces, Parallel forces		
3	20/7/2017	Parallel forces, Non Concurrent Non Parallel system of forces		
4	21/7/2017	Moment of force about a point, Couples		
5	25/7/2017	Problems (tut)		
6	26/7/2017	Lami's Theorem, Varignon's Theorem		
7	27/7/2017	Distributed Forces in plane, Resultant of general force system		
8	28/7/2017	Center of Gravity and Centroid for plane Laminae		
9	1/8/2017	TAE-1 (tut)		
		Unit-2: Equilibrium of system of coplanar forces		
10	2/8/2017	Problems		
11	3/8/2017	Condition of equilibrium for concurrent forces, Condition of equilibrium for parallel forces, Condition of equilibrium for Non concurrent Non Parallel general forces, Couples		
12	4/8/2017	Analysis of plane trusses by using Method of joints		
13	8/8/2017	Problems (tut)		
14	9/8/2017	Analysis of plane trusses by using Method of sections		
15	10/8/2017	problems		

16	11/8/2017	problems
17	16/8/2017	problems
18	17/8/2017	TAE-2
		Unit- 3:Analysisof Beams, Frames, Cables
19	18/8/2017	Beams: Types of beams, Types of supports, Types of loading, Analysis of Trusses
20	24/8/2017	problems
21	25/8/2017	problems
22	28/8/2017	Analysis of Frames
23	29/8/2017	problems(tut)
24	30/8/2017	TAE 3
		Unit- 4:Friction
25	31/8/2017	Dry Friction, Laws of friction, angle of friction
26	1/9/2017	Resultant reaction, wedge friction, ladder friction, belt friction.
27	5/9/2017	Problems(tut)
28	6/9/2017	Kinematics-Basic concepts, equation of motion for constant acceleration
29	7/9/2017	motion under gravity. Variable acceleration and motion curves.
30	8/9/2017	problems
31	12/9/2017	problems(tut)

		Unit – V :Dynamics
32	13/9/2017	TAE 4
33	14/9/2017	Kinematics of Particle:- Velocity &acceleration in terms of rectangular co-ordinate system
34	15/9/2017	Rectilinear motion
35	19/9/2017	problems(tut)
36	20/9/2017	Motion along plane curved path
37	26/9/2017	problems(tut)
38	27/9/2017	TAE 5
		Unit – VI :principle of work energy principle
39	28/9/2017	Tangential &Normal component of acceleration
40	29/9/2017	Motion curves (a-t, v-t, s-t curves), Projectile motion.
41	3/10/2017	Problems(tut)
42	4/10/2017	Kinetics of a Particle: Force and Acceleration:- Introduction to basic concepts
43	5/10/2017	Newton’s Second law of motion, problems
44	6/10/2017	D’Alemberts Principle
		Unit – VI :Principle of Work Energy &Impulse Momentum
45	11/10/2017	TAE 6
46	13/10/2017	Work energy principle for particle: Work, Power, Energy, conservative forces & Potential Energy
47	17/10/2017	Problems(tut)
48	18/10/2017	Conservation of Energy, Work energy principle for motion of particle

49	19/10/2017	Problems
50	20/10/2017	Problems
51	26/10/2017	Problems
52	27/10/2017	Virtual work
53	31/10/2017	Problems(tut)
54	1/11/2017	Impulse momentum principle for particle: Linear Impulse & Momentum, Conservation of momentum
55	2/11/2017	Direct central impact & coefficient of restitution, Impulse momentum principle
56	3/11/2017	Problems
57	9/11/2017	Revision class
58	10/11/2107	Revision class