TEACHING PLAN FOR THEORY

Subject Teacher:S.M.Saste

Subject: Engineering MechanicsClass: FY B.TechDiv:BYear 2017-2018				
Lecture No	**Scheduled Date**	**Topics to be covered on the scheduled date**	**Dates on which Actually Covered**	**Reasons for deviation (if any)**
1	17/07/2017	Syllabus Discussion, Discussion on course objective & course outcome		
Unit-1: System of Coplanar forces				
2	19/07/2017	Resultant of Concurrent forces, Parallel forces		
3	20/07/2017	Non Concurrent Non Parallel system of forces(Tutorial)		
4	21/07/2017	Moment of force about a point, Couples		
5	24/07/2017	Couples, Lami's Theorem, Varignon's Theorem		
6	26/07/2017	Distributed Forces in plane, Resultant of general force system		
7	27/07/2017	Resultant of general force system(Tutorial)		
8	28/07/2017	Center of Gravity and Centroid for plane Laminas		
9	31/07/2017	Center of Gravity and Centroid for plane Laminas		
Unit-II: Equilibrium of Force System				
10	02/08/2017	TAE-I		
11	03/08/2017	Condition of equilibrium for concurrent forces(Tutorial)		
12	04/08/2017	Condition of equilibrium for parallel forces		
13	09/08/2017	Condition of equilibrium for Non concurrent Non Parallel general forces		
14	10/08/2017	Condition of equilibrium for Couples(Tutorial)		
15	11/08/2017	Analysis of plane trusses by using Method of joints		

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16	14/08/2017	Analysis of plane trusses by using Method of sections		
Unit III : : Analysis of Beams, Frames& Cables				
17	16/08/2017	Beams: Types of beams, Types of supports ,Types of loading for beams		
18	17/08/2017	TAE-II (Tutorial)		
19	18/08/2017	Examples on analysis of beam		
20	21-23/08/2017	CAE-I		
21	24/08/2017	Examples on analysis of beam (Tutorial)		
22	28/08/2017	Analysis of Trusses &Frames		
23	30/08/2017	Analysis of Trusses &Frames		
24	31/08/2017	TAE-III(Tutorial)		
25	01/09/2017	Analysis of Trusses &Frames		
26	04/09/2017	Friction: Dry Friction, Laws of friction, angle of friction		
Unit IV: Friction				
27	06/09/2017	Wedge friction (Tutorial)		
28	07/09/2017	Ladder friction, belt friction		
29	08/09/2017	Kinematics- Basic concepts, equation of motion for constant acceleration		

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30	11/09/2017	Equation of motion for motion under gravity, Variable acceleration		
31	13/09/2017	TAE-IV (Tutorial)		
32	14/09/2017	Equation of motion for motion curves.		
33	15/09/2017	Kinematics of Particle: - Velocity & acceleration in terms of rectangular co-ordinate system		
Unit V: Dynamics				
34	18/09/2017	Rectilinear motion		
35	20/09/2017	Motion along plane curved path (Tutorial)		
36	21-23/09/2017	CAE-II		
37	25/09/2017	Tangential & Normal component of acceleration		
38	27/09/2017	TAE-V		
39	28/09/2017	Motion curves (a-t, v-t, s-t curves) (Tutorial)		
40	29/09/2017	Projectile motion		
41	04/10/2017	Kinetics of a Particle: Force and Acceleration:-Introduction to basic concepts		
42	05/10/2017	Newton's Second law of motion. D'Alemberts Principle.(Tutorial)		
43	06/10/2017	Work energy principle for particle: Work, Power, Energy, conservative forces		
Unit VI: Principle of Work Energy & Impulse Momentum				
44	09/10/2017	Potential Energy, Conservation of Energy		

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45	11/10/2017	TAE-VI		
46	12/10/2017	Work energy principle for motion of particle (Tutorial).		
47	13/10/2017	Impulse momentum principle for particle: Linear Impulse & Momentum, Conservation of momentum		
48	16/10/2017	Direct central impact & coefficient of restitution.		
49	18/10/2017	Impulse momentum principle		
50	26/10/2017	(Tutorial)		
51	27/10/2017	Revision Classes		
52	30/10/2017	Revision Classes		
53	01/11/2017	Revision Classes		
54	02/11/2017	(Tutorial)		
55	03/11/2017	Revision Classes		