Lesson Plan

Name of the Institute: Department: Semester/Division/Branch: Subject Name with code: Total No. of Class (Required):		C. V. Raman Polytechnic					
		Mechanical Engineering 2 nd Sem/ME Engineering Mechanics 60					
				Faculty Name:		Mrs. Sutapa Sarkar	
				Class No.	Brief Description of th	e Topic/Chapter to be taught	Remarks
				1	Definitions of Mechanics, Static	S	700
2	Dynamics, Rigid Bodies						
3	Force System, Definition, Classification of force system according to plane & line of action						
4	Characteristics of Force & effect of Force. Principles of Transmissibility & Principles of Superposition						
5	Action & Reaction Forces & con	cept of Free Body Diagram					
6	Component forces	n, Method of Resolution, Types of					
7	Perpendicular components & nor	n-perpendicular components					
8	Composition of Forces. Definition composition of forces						
9	resolution	of Parallelogram of forces & method of					
10	Graphical Method. Introduction, Polygon law of forces	Space diagram, Vector diagram,					
11	Graphical Method. Introduction, Polygon law of forces						
12	Analytical & Graphical Method.	current & parallel force system by					
13	Resultant of concurrent, non-concurrent & parallel force system by Analytical & Graphical Method.						
14	force	ometrical meaning of moment of a					
15	measurement of moment of a force	ce & its S.I units					
16	Classification of moments accord convention	ing to direction of rotation, sign					
17	Law of moments, Varignon's The measurement of couple, propertie	eorem, Couple – Definition, S.I. units, s of couple					

18	Varignon's Theorem, Couple – Definition, S.I. units, measurement of couple	
19	Varignon's Theorem, properties of couple	
20	Definition, condition of equilibrium,	The first structure of the structure of
21	Analytical & Graphical conditions of equilibrium for concurrent, non-	Mary Charles and
00	reelectrical & rice Body Diagram	
22	Analytical & Graphical conditions of equilibrium for consequent	
23	concurrent & Free Body Diagram Lamia's Theorem – Statement, Application for solving various	Carried Salvey Const.
	1 ong meeting problems	
24	Lamia's Theorem - Statement Application for aslain -	
25		4. 11. 15.
26	Definition of friction, Frictional forces	
11.	Limiting frictional force, Coefficient of Friction	
27	Angle of Friction & Repose, Laws of Friction, Advantages &	en a garaga da la compressa de
28	1 2 13 dd 4 diffages Of Frichon	
	Equilibrium of bodies on level plane – Force applied on horizontal & inclined plane (up &down)	
29	Equilibrium of bodies on level plane - Force applied on horizontal 8	
20		
30	Ladder, Wedge Friction	
31	Centroid – Definition, Moment of an area about an axis	
32	centroid of geometrical figures such as squares	
33		
	rectangles, triangles, circles, semicircles & quarter circles, centroid of composite figures	
34	rectangles, triangles, circles, semicircles & quarter circles, centroid of	The Sand Court of the San
25	Composite figures	
35	Moment of Inertia – Definition, Parallel axis & Perpendicular axis	Constant when the first
36	Theorems. M.I. of plane lamina & different engineering sections	
	Moment of Inertia – Definition, Parallel axis & Perpendicular axis Theorems. M.I. of plane lamina & different engineering sections	
37	Moment of Inertia – Definition, Parallel axis & Perpendicular axis	State of the State
	I neorems. M.I. of plane lamina & different engineering sections	
38	Definition of simple machine, velocity ratio of simple and compound	
39	gear train	HARRIST OF STREET
39	Definition of simple machine, velocity ratio of simple and compound gear train	Shape to the con-
40	explain simple & compound lifting machine	ive Manifest and the
41	그렇게 보통하는 그리는 그렇게 그는	
71	define M.A, V.R. & Efficiency & State the relation between them, State Law of Machine, Reversibility of Machine	
42	define M.A, V.R. & Efficiency & State the relation between them, State	
	Law of Machine, Reversibility of Machine	
43	Self-Locking Machine	
44	Study of simple machines – simple axle & wheel	
45	single purchase crab winch & double purchase crab winch, Worm &	
	Worm Wheel, Screw Jack	

46	single purchase crab winch & double purchase crab winch, Worm & Worm Wheel, Screw Jack	
47	Types of hoisting machine like derricks etc., their use and working principle. No problems	
48	Types of hoisting machine like derricks etc., their use and working principle. No problems	
49	Kinematics & Kinetics, Principles of Dynamics	
50	Newton's Laws of Motion	
51	Motion of Particle acted upon by a constant force	3. 8. 8. 9. 9.
52	Equations of motion, D'Alembert's Principle	The state of the s
53	Work, Power, Energy & its Engineering Applications	
54	Kinetic & Potential energy & its application	
55	Kinetic & Potential energy & its application	
56	Momentum & impulse, conservation of energy & linear momentum	
57	collision of elastic bodies	
58	Coefficient of Restitution	
59	Momentum & impulse, conservation of energy & linear momentum	
60	Collision of elastic bodies, and Coefficient of Restitution (Revision)	

Somer Signature of the Faculty

Signature of the H.O.D