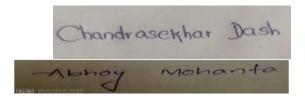
Academic Lesson Plan for Engg. Mechanics (Summer-2023)							
Discipline:Electrical Engg, Information Technology, Architectural Assiatanceship & Electronic & Telecommunication Engg				Name of the teaching faculty:			
				Chandrasekhar Dash			
				Abhoya Mohanta			
				Subhasini Muduli			
Subject: Engg. Mechanics		No. of days/per week Class Allotted: 4					
				No. of weeks:15			
Week	Class day		LINUT 1 E.	Theory Topics Indamentals. Definitions of Mechanics, Statics,			
1st	1st			Rigid Bodies			
	2nd			e System. Definition, Classification of forcesystem o plane & line of action.			
	3rd		Characteris	tics of Force & effect of Force.			
	4th		Principles of Superpositi	of Transmissibility & Principles of ion.			
	1st		Action & Re Diagram	eaction Forces & concept of Free Body			
2nd	2nd			of a Force. Definition, Method of Resolution			
	3rd		1	omponent forces, Perpendicular components pendicular components			
	4th		Compositio	on of Forces. Definition, Resultant Force			
	1st			composition of forces, such as 1.4.1 Analytical Method v of Parallelogram of forces & resolution.			
	2nd			Method. Introduction, Space diagram, Vector			
3rd	3rd		Resultant c	of concurrent, non-concurrent & parallel force Analytical & Graphical Method			
	4th			Force. Definition, Geometrical meaning of a force, measurement of moment of a force& its S.I units			
4th	1st			on of moments according to direction of rotation, sign , Law of moments, Varignon's			
	/na		Couple – D of couple	efinition, S.I. units, measurement of couple, properties			
	3rd		UNIT-2 EQI	JILIBRIUM Definition, condition of equilibrium			
	4th		Analytical 8	& Graphical conditions of equilibrium forconcurrent			
5th	1st		non-concui	rrent & Free Body Diagram.			
	2nd		Lamia's Theorem – Statement				
	3rd		Lamia's The	eorem – promblem			

1st Application for solving various engineering problems 2nd equilibrium for concurrent 3rd UNIT-3 Definition of friction, Frictional forces 4th Limiting frictional force, Coefficient of Friction. 1st Angle of Friction 2nd Laws of Friction 3rd Advantages & Disadvantages of Friction 4th Equilibrium of bodies on level plane 5rd Advantages & Disadvantages of Friction 4th Equilibrium of bodies on level plane 6rd Wedge Friction 7th UNIT-4 Centroid – Definition 7th Wedge Friction Applications 8th UNIT-4 Centroid – Definition 8th Wedge Friction Applications 1st UNIT-4 Centroid – Definition 9th One of the Centroid of geometrical figures such as squares 1st centroid of geometrical figures such as rectangle 1st centroid of geometrical figures such as rectangle 2nd centroid of geometrical figures such as circle 4th quarter circles 1st centroid of composite figures 1st centroid of permit of Inertia – Definition 2nd Parallel axis & Perpendicular axis Theorems 4th M.I. of plane lamina & different engineering sections 1st M.I. of plane lamina & different engineering sections 1st M.I. of plane lamina & different engineering sections 1st M.I. of plane lamina & different engineering sections 2nd UNIT-5 Definition of simple machine 4th velocity ratio of simple machine 4th simple & compound lifting machine 4th Study of simple machines – simple axie & wheel, 3rd Reversibility of Machine, Self Locking Machine. 3rd Friction Apple Machine, Self Locking Machine. 3rd Vipes of hoisting machine like derricks etc, Their use and working principle. 4th Sudy of simple machine of Particle acted uponby a constant force 5rd Vipes of hoisting machine like derricks etc, Their use and working principle.	1	4th	Application for solving various engineering problems
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1st Equations of motion, DEAlembert's Principle.		4th	
		1st	Equations of motion, DEAlembert's Principle.

15th	2nd	Work, Power, Energy & its Engineering Applications, Kinetic & Potential energy & its application
	3rd	Momentum & impulse, conservation of energy & linear momentum,
	4th	collision of elastic bodies, and Coefficient of Restitution



Subhasini Muduli