#Ave 5				LESSON PLAN	11 11 2 1 1	
SESSION	SUMMER	2023	3			
SEMESTER	2ND				AND THE	
ECTION	C & D					
BRANCH	MECHAN	ICAL /	CIVIL / E	TC		
HEORY NO.	4				- 1	
UBJECT	ENGINEE	RING N	/IECHAN	ICS	, and the same of	
ECTURER	FR. R L D	ASH (SI	EC-C) &	ED S DANDA (SEC-D)	NO. OF	%
SL NO.	MONTH	CHAP	DATE	TOPICS TO BE COVERED	ACADE	COVERE
32		TER			MIC	
		NO.		[12] [15] [16] [16] [16] [16] [16] [16] [16] [16	DAYS	
					AVAIL	
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				[전화] 바다 그 사람들이 보는 사람들이 되었다.		
		100		THE PROPERTY OF THE PROPERTY O	9	15%
1	MARCH	1	20.3.23	1. FUNDAMENTALS OF ENGINEERING MECHANICS		
				1.1 Fundamentals.		
			100	Definitions of Mechanics, Statics, Dynamics, Rigid Bodies,	-15% T	
	4-					
		whi .	21.3.23	1.2 Force		
				Force System. Definition, Classification of force system		
				according to plane & line of action.		
			22.3.23	Characteristics of Force & effect of Force. Principles of		
	2			Transmissibility & Principles of Superposition.		
				Action & Reaction Forces & concept of Free Body		
			4	Diagram.		
	*			4.2 Beachtion of a Force		
			23.3.23	1.3 Resolution of a Force.  Definition, Method of Resolution, Types of Component		
				forces, Perpendicular		
				components & non-perpendicular components.		
				1.4 Composition of Forces.		
				Definition, Resultant Force, Method of composition of		
				forces		
			24 3 23	1.4.1 Analytical Method such as Law of Parallelogram of		
			24.5.25	forces		
			25.3.23	NUMERICALS		
				NUMERICALS		
				NUMERICALS		
			29.3.23	1.4.1 Analytical Method such as method of		
			1700 (18	resolution.		
2	APRIL	1	3.4.23	NUMERICALS	20	33%
2	MENIL	1		NUMERICALS		
				1.4.2. Graphical Method. Introduction, Space diagram,	To be the	
			A 50 C AVE TRE	Vector diagram, Polygon law of forces.	**************************************	

	APRIL		6.4.2	23 1.5 Moment of Force.	20	33
	Mark to			Definition, Geometrical meaning of moment of a force,	-	
				measurement of		
				moment of a force & its S.I units. Classification of		
				moments according to		
				direction of rotation, sign convention, Law of moments,		
	A STATE OF THE			and out of totalion, sign convention, Law of moments,	<u>+</u>	Jan 198
	12		7.4.2	3 Varignon's Theorem,		
			10.4.2	23 NUMERICALS	1	
				23 1.4.3 Resultant of concurrent, non-concurrent & parallel		
	- 1		- "	force system by Analytical		
				& Graphical Method		
			12.4.2	3 NUMERICALS		
				3 1.5 Couple – Definition, S.I. units, measurement of couple,	- v - **	
		4.7		properties of couple.	0.7	
			17.4.2	3 NUMERICALS		2 - 7
		2		3 2. EQUILIBRIUM		7
				2.1 Definition, condition of equilibrium, Analytical &	100	
				Graphical conditions of		
				equilibrium for concurrent, non-concurrent & Free Body		
				Diagram.		
			19.4.23			
			-	various engineering		
				problems.		
			20.4.23	NUMERICALS		
	7			NUMERICALS		
				NUMERICALS		
		3		3. FRICTION		
		5 - 4		3.1 Definition of friction, Frictional forces, Limiting	21.1	
				frictional force, Coefficient of Friction.		
			26.4.23	Angle of Friction & Repose, Laws of Friction, Advantages &		+1
			100	Disadvantages of Friction.		
			27.4.23	3.2 Equilibrium of bodies on level plane – Force applied on		
				horizontal plane	-	
				NUMERICALS	97	
			28.4.23	3.2 Equilibrium of bodies on level plane – Force applied on		
				inclined plane	22.7	
				(up &down).		
	1. A.		29.4.23	3.2 Equilibrium of bodies on level plane – Force applied on	-,	
				inclined plane	-	
				(up &down).		
3	MAY	3	1.5.23	NUMERICALS	21	34%
3	141/41	_		NUMERICALS		- 1,5
		}		NUMERICALS		
	4	-		3.3 Ladder Friction	4.1	
				NUMERICALS	2	
	- 1 - 3 "			NUMERICALS	100	
		-		Nedge Friction.		
	5			NUMERICALS		
	* A		. I N	JIIMERICALS		

3	MAY	4	9.5.23	4. CENTROID & MOMENT OF INERTIA	21	34%
				4.1 Centroid – Definition, Moment of an area about an		
				axis, centroid of geometrical		
				figures such as squares, rectangles, triangles, circles,		
		- 20		semicircles & quarter		
				circles,		
			10.5.23	centroid of composite figures		
				NUMERICALS		
			11.5.23	NUMERICALS	10.0	
				NUMERICALS		
				NUMERICALS		
			22.5.23	4.2 Moment of Inertia – Definition, Parallel axis Theorem		
			23.5.23	Perpendicular axis Theorem, M.I. of plane lamina	- <u>1</u>	
			24.5.23			
		1		NUMERICALS		
			25.5.23	NUMERICALS	200	
				NUMERICALS		
				NUMERICALS	ang a	
		5		5. SIMPLE MACHINES		
				5.1 Definition of simple machine, velocity ratio of simple	1 2 + 14-	
				gear train		
			30.5.23			
				NUMERICALS		
		,	31.5.23	explain simple & compound lifting machine, define M.A,	V 3 -	
				V.R. & Efficiency	4	
				& State the relation between them,		
				NUMERICALS	1	
4	JUNE	5	1.6.23	State Law of Machine, Reversibility of	11	18%
				Machine, Self Locking Machine.		
			2.6.23	NUMERICALS		
			3.6.23		5	
			5.6.23	5.2 Study of simple machines – simple axle & wheel,		
				single purchase crab winch	7:	
			6.6.23	5.2 Study of simple machines – double purchase crab		
				winch, Worm & Worm Wheel,		
			7.6.23	5.2 Study of simple machines – Screw Jack.		
				5.3 Types of hoisting machine like derricks etc, Their use		
				and working principle.		
			8.6.23	5.3 Types of hoisting machine like derricks etc, Their use		
			45-	and working principle.		
		, 6	9.6.23			
		-	234	6.1 Kinematics & Kinetics, Principles of Dynamics,		
				Newton's Laws of Motion, Motion of Particle acted upon		
				by a constant force,		
		381	10.6.23	Equations of motion, De Alembert's Principle		
		1	gar.	6.2 Work, Power, Energy & its Engineering Applications,		
	4	1		Kinetic & Potential energy		
				& its application.		
		24.	12.6.23	6.3 Momentum & impulse, conservation of energy		
	ar in the	1.	13 6 23	conservation of linear momentum, collision of elastic		
			13.0.23	conservation of infeat momentum, comston of elastic	10.00	

	PROGRESS	% COVERED
	CH-1	15%
		33%
	CH-1, CH-2, CH-3	34%
	CH-3, CH-4, CH-5	18%
	CH-5, CH-6	
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