## GOVERNMENT POLYTECHNIC, MALKANGIRI DEPARTMENT OF MECHANICAL ENGINEERING

		LESSON PLAN	lst 2nd	LOIN
Discipline:	Semester:	Verify Lami's theorem.	te J.	r Malh
BEE	2nd	Name of the Teaching Faculty: Shantanu Kumar Maity		
Subject: Engineering Mechanics Lab	No. of		181	0781
	days/week	Study force in various members		
	class	Semester From date: 04.02.2025		To date:17.05.2025
	allotted	No. of Week: 15		
	2	Obtain support reactions of bear	12.0	dist
Course Outcomes	cO2: Unders analy cO3: Determ a rigid cO4: Analys	Ing different simple machines to find leters viz. Mechanical Advantage, Vestanding the phenomena of friction is sis through experiment to find out omining resultant of various force system body by Lamis theorem sing support reactions of different typomining Centroid of geometrical plane	locity Ration different of coefficient coefficient coefficient coefficient coefficient and analysis of beam	and Efficiency. condition and make of friction alyse the equilibrium of
Week	2 Class/Day	Theory/Practical Topics		
1st - W 20	1st	To study various equipments related to Engineering Mechanics		
	2nd	To study various equipments related to Engineering Mechanics		
2nd	1st	To find the M.A., V.R., Efficiency and law of machine for Differential Axle and Wheel.		
	2nd	To find the M.A., V.R., Efficiency and law of machine for Differential Axle and Wheel.		
metune of Academ		To find the M.A., V.R., Efficiency and law of machine for Simple Screw Jack		
Material Action	1st		d law of ma	chine for Simple Screw
3rd	1st 2nd		· · · · · · · · · · · · · · · · · · ·	Signature of Facult
		To find the M.A., V.R., Efficiency an	d law of ma	achine for Simple Screw
3rd 4th	2nd	To find the M.A., V.R., Efficiency an Jack	d law of ma	wheel.
4th	2nd 1st	To find the M.A., V.R., Efficiency an Jack  Derive Law of machine using Worm	d law of ma and worm and worm	wheel.
	2nd 1st 2nd	Jack To find the M.A., V.R., Efficiency an Jack Derive Law of machine using Worm Derive Law of machine using Worm	d law of ma and worm and worm purchase c	wheel. wheel. rab.
4th 5th	2nd 1st 2nd 1st	Jack To find the M.A., V.R., Efficiency an Jack Derive Law of machine using Worm Derive Law of machine using Worm Derive Law of machine using Single	and worm and worm and worm purchase c purchase c	wheel. wheel. rab.
4th	2nd  1st  2nd  1st  2nd  2nd  1st  2nd	Jack To find the M.A., V.R., Efficiency an Jack Derive Law of machine using Worm Derive Law of machine using Worm Derive Law of machine using Single Derive Law of machine using Single	and worm and worm purchase c purchase c	wheel. wheel. rab. crab
4th 5th 6th	2nd  1st  2nd  1st  2nd  1st  2nd  1st	Jack To find the M.A., V.R., Efficiency an Jack Derive Law of machine using Worm Derive Law of machine using Worm Derive Law of machine using Single Derive Law of machine using Single Derive Law of machine using double	and worm and worm purchase c purchase c purchase	wheel. wheel. rab. crab
4th 5th	2nd  1st 2nd 1st 2nd 1st 2nd 1st 2nd 1st	Jack To find the M.A., V.R., Efficiency and Jack Derive Law of machine using Worm Derive Law of machine using Worm Derive Law of machine using Single Derive Law of machine using Single Derive Law of machine using double Derive Law of machine using double Derive Law of machine using Weston	and worm and worm purchase c purchase c e purchase e purchase	wheel. wheel. rab. crab crab crab crab

ANGIRI	2nd	Determine resultant of concurrent force system applying Law of Polygon of forces using force table	
9th	1st	Determine resultant of concurrent force system graphically	
	2nd	Determine resultant of concurrent force system graphically	
10th	1st	Determine resultant of parallel force system graphically.	
	2nd	Determine resultant of parallel force system graphically.	
11th	1st	Verify Lami's theorem.	
	2nd and	Verify Lami's theorem.	
12th	1st	Study forces in various members of Jib crane	
	2nd	Study forces in various members of Jib crane	
13th	1st	Determine support reactions for simply supported beam	
	2nd	Determine support reactions for simply supported beam	
14th	1st	Obtain support reactions of beam using graphical method	
	2nd	Obtain support reactions of beam using graphical method	
15th	relocite latio	Determine coefficient of friction for motion on horizontal and inclined plane.	
	2nd	Determine centroid of geometrical plane figures.	

## Learning Resources: and to say a the reliable to satisfies a story and sales and sales and sales and sales are sales and sales are sales and sales are sales and sales are sales are sales and sales are sales

Prof. Bhankhar Bharat Gokaldas, Engineering Mechanics

D.S. Bedi, Khurmi, R.S.,

Engineering Mechanics (Khanna Publications)

Applied Mechanics (S. Chand & Co)

Bansal R K, Bansal o study various equipments related to Er (du9ering Mechanics

Signature of Faculty

Signature of HOD/

Signature of Acade

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Signature of Principal