

GOVERNMENT POLYTECHNIC JAJPUR
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DEPARTMENT OF MECHANICAL ENGINEERING

LESSON PLAN

Discipline: Metallurgy	Semester: 1ST	Name of the Teaching faculty: JAYADEB DASH
Subject: MECHANICAL NICS Lab (Pr-4 b)	No of Days/Week class allotted:	Semester from Date: 04/02/2025 To Date: 17/05/2025 No of weeks: 15
Week	Class Day	Topics
1st	2p	To study various equipments related to engineering mechanics
2nd	2p	To find the MA VR and efficiency of and law of machine for differential axle and wheel
3rd	2p	To find the MA VR and efficiency of and law of machine for simple screw jack
4th	2p	Derive law of machine using worm and worm wheel
5th	2p	Derive law of machine using single purchase crab
6th	2p	Derive law of machine using double purchase crab
7th	2p	Determine the resultant of concurrent force system applying law of polygon of forces using force table
8th	2p	Determine the resultant of concurrent force system graphically
9th	2p	Determine resultant of parallel force system graphically.
10th	2p	Verify Lami's theorem.
11th	2p	Study forces in various members of jib crane
12th	2p	Determine support reactions for simply supported beam.
13th	2p	Determine coefficient of friction for motion on horizontal and inclined plane.
14th	2p	VIVA
15th	2p	VIVA

signature of faculty

(Jayadeb Dash)