

(Summer)

LESSON PLAN FOR ACADEMIC SESSION 2025-26 (Winter)

Discipline: Electrical Engineering & Metallurgy	Semester: 2 nd (G1/G2/G3)	Name of the Teaching Faculty: Dinesh Kumar Sahu
Subject: Engineering Mechanics Lab	No of days/ week class allotted=2	Semester From: 09/01/2026 to 08/05/2026 No of weeks per semester :15
Week	Class Day	Name of the Experiment
1st	1st	1. To study various equipments related to Engineering Mechanics.
	2 nd	2. To find the M.A., V.R., Efficiency and law of machine for Differential Axle and Wheel.
2nd	1st	3. To find the M.A., V.R., Efficiency and law of machine for Simple Screw Jack.
	2 nd	4. Derive Law of machine using Worm and worm wheel.
3 rd	1 st	5. Derive Law of machine using Single purchase crab.
	2 nd	6. Derive Law of machine using double purchase crab.
4th	1st	7. Derive Law of machine using Weston's differential or wormed geared pulley block.
	2 nd	8. Determine resultant of concurrent force system applying Law of Polygon of forces using force table.
5th	1 st	9. Determine resultant of concurrent force system graphically.
	2 nd	10. Determine resultant of parallel force system graphically.
6th	1 st	11. Verify Lami's theorem.
	2 nd	12. Study forces in various members of Jib crane.
7th	1 st	13. Determine support reactions for simply supported beam.
	2 nd	14. Obtain support reactions of beam using graphical method.
8th	1 st	15. Determine coefficient of friction for motion on horizontal and inclined plane.
	2 nd	16. Determine centroid of geometrical plane figures.
9th	1 st	
	2 nd	
10th	1 st	
	2 nd	
11th	1 st	
	2 nd	
12th	1 st	
	2 nd	
13th	1 st	
	2 nd	
14th	1 st	
	2 nd	
15th	1 st	
	2 nd	

Dinesh Sahu
06/01/26

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