SYNERGY SCHOOL OF ENGINEERING,DHENKANAL

LESSON PLAN

Session (2026-2027)

Discipline: 1st year Diploma Engg. Common to All Branches	**Name of the Teaching Faculty:** Mihir Kr. Swain **Lab asst: -** Aswini Parida	
Subject: ENGINEERING MECHANICS LAB	**No. of Days/Week:** 02	**Start Date: 17/08/2026** **End Date: 17/04/2027**

Weeks	Periods	Theory Topics	Group-1	Group-2
1st	2	To study various equipment's related to Engineering Mechanics.		
2nd	4	To study various equipment's related to Engineering Mechanics.		
3rd	6	Record check & viva		
4th	8	To find the M.A., V.R., Efficiency and law of machine for Differential Axle and Wheel.		
5th	10	To find the M.A., V.R., Efficiency and law of machine for Differential Axle and Wheel.		
6th	12	Record check & viva		
7th	14	To find the M.A., V.R., Efficiency and law of machine using Simple Screw Jack		
8th	16	To find the M.A., V.R., Efficiency and law of machine using Simple Screw Jack		
9th	18	Record check & viva		
10th	20	Determine M.A., V.R., Efficiency and law of machine using Worm and worm wheel.		
11th	22	Determine M.A., V.R., Efficiency and law of machine using Worm and worm wheel.		
12th	24	Record check & viva		

13th	26	Determine M.A., V.R., Efficiency and law of machine using Single purchase crab.		
14th	28	Determine M.A., V.R., Efficiency and law of machine using Single purchase crab.		
15th	30	Record check & viva		
16th	32	Determine M.A., V.R., Efficiency and law of machine using double purchase crab.		
17th	34	Determine M.A., V.R., Efficiency and law of machine using double purchase crab.		
18th	36	Record check & viva		
19th	38	Determine resultant of concurrent force system applying Law of Polygon of forces using force table.		
20th	40	Determine resultant of concurrent force system applying Law of Polygon of forces using force table.		
21st	42	Record check & viva		
22nd	44	Determine resultant of concurrent force system graphically.		
23rd	46	Determine resultant of concurrent force system graphically.		
24th	48	Record check & viva.		
25th	50	Determine resultant of parallel force system graphically.		
26th	52	Determine resultant of parallel force system graphically.		
27th	54	Record check & viva		
28th	56	Verify Lami's theorem.		
29th	58	Verify Lami's theorem.		
30th	60	Record check & viva		
31st	62	QUIZ TEST		
32nd	64	EVALUATION		

10/08/2024

Sign of lab asst.

10/8/26

Sign of faculty

H.O.D

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MECHANICAL ENGG. DEPT
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