SYNERGY SCHOOL OF ENGINEERING,DHENKANAL
DEPARTMENT OF MECHANICAL ENGINEERING

LESSION PLAN

SESSION- 2026-2027

SUBJECT - **MECHANICAL OPERATION IN MINES LAB**	TOTAL PERIODS- 60
BRANCH- MINING ENGG SEMESTER- 3rd	COURSE CODE-MIEPC215 (Pr 3)
NAME-**Girish Ch. Swain** LECTURER & **Aswini Parida**, Lab Asst.	Start Date- 01/07/2026 End Date- 05/11/2026

Sl No.	week	Day (2 period/ day)	Topic To be Covered	Date of Delivery	
				Gr-1	Gr-2
1	1ST	1st day	Verify Bernoulli's Theorem by using Bernoulli's Verification Apparatus.		
		2nd day	Verify Bernoulli's Theorem by using Bernoulli's Verification Apparatus.		
2	2ND	1st day	Verify Bernoulli's Theorem by using Bernoulli's Verification Apparatus.		
		2nd day	Verify Bernoulli's Theorem by using Bernoulli's Verification Apparatus.		
3	3RD	1st day	Determine rate of flow through the venturimeter set-up.		
		2nd day	Determine rate of flow through the venturimeter set-up.		
4	4TH	1st day	Determine rate of flow through the venturimeter set-up.		
		2nd day	Determine rate of flow through the venturimeter set-up.		
5	5TH	1st day	Conduct Tensile test of a mild steel specimen and plot stress-stain curve, show salient points on it.		
		2nd day	Conduct Tensile test of a mild steel specimen and plot stress-stain curve, show salient points on it.		
6	6TH	1st day	Conduct Tensile test of a mild steel specimen and plot stress-stain curve, show salient points on it.		
		2nd day	Conduct Tensile test of a mild steel specimen and plot stress-stain curve, show salient points on it.		
7	7TH	1st day	Determine volumetric efficiency of Air compressor		
		2nd day	Determine volumetric efficiency of Air compressor		
8	8TH	1st day	Determine volumetric efficiency of Air compressor		
		2nd day	Determine volumetric efficiency of Air compressor		
9	9TH	1st day	Determine volumetric efficiency of Air compressor		
		2nd day	Determine volumetric efficiency of Air compressor		
10	10TH	1st day	Study of 2-Stroke and 4-Stroke diesel engines		
		2nd day	Study of 2-Stroke and 4-Stroke diesel engines		
11	11TH	1st day	Study of 2-Stroke and 4-Stroke diesel engines		
		2nd day	Study of 2-Stroke and 4-Stroke diesel engines		
12	12TH	1st day	Study of 2-Stroke and 4-Stroke diesel engines		
		2nd day	Study of 2-Stroke and 4-Stroke diesel engines		
13	13TH	1st day	Conduct of I.C Engine Test - Conduct I/C engine testing on single cylinder diesel engine & find out I.H.P., B.H.P. & mechanical efficiency.		
		2nd day	Conduct of I.C Engine Test- Conduct I/C engine testing on single cylinder diesel engine & find out I.H.P., B.H.P. & mechanical efficiency.		
14	14TH	1st day	Conduct of I.C Engine Test - Conduct I/C engine testing on single cylinder diesel engine & find out I.H.P., B.H.P. & mechanical efficiency.		
		2nd day	Conduct of I.C Engine Test- Conduct I/C engine testing on single cylinder diesel engine & find out I.H.P., B.H.P. & mechanical efficiency.		
15	15TH	1st day	Conduct of I.C Engine Test- Conduct I/C engine testing on single cylinder diesel engine & find out I.H.P., B.H.P. & mechanical efficiency.		
		2nd day	Conduct of I.C Engine Test- Conduct I/C engine testing on single cylinder diesel engine & find out I.H.P., B.H.P. & mechanical efficiency.		

20/6/26
Lab Asst.

Sign of Faculty 20/6/26

H.O.D 20/6/26

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