



SYNERGY SCHOOL OF ENGINEERING, DHENKANAL
DEPARTMENT OF MECHANICAL ENGINEERING

LESSION PLAN

SESSION- 2026-2027

SUBJECT - THERMAL ENGINEERING-I LAB		TOTAL PERIODS- 60	
BRANCH- MECHANICAL ENGG	SEMESTER- 3 rd	COURSE CODE- MEPC 217 (PR- 4)	
NAME- Biswajit Mishra , Lecturer/ Aswini Parida, Lab Asst.		Start Date- 01/07/2026 End Date- 05/11/2026	
Sl No.	week	Day (2 periods/day)	Topic To be Covered
1	1ST	1st day	Introduction to the Thermal Engineering-I Lab
		2nd day	Brief description about the tools & equipments used in the TE-I Lab.
2	2ND	1st day	Study of petrol engine components and models
		2nd day	Study of petrol engine components and models
3	3RD	1st day	Study of diesel engine components and models
		2nd day	Study of diesel engine components and models
4	4TH	1st day	Disassembling of I.C. Engines
		2nd day	Disassembling of I.C. Engines
5	5TH	1st day	Assembling of I.C. Engines
		2nd day	Assembling of I.C. Engines
6	6TH	1st day	Port timing diagram of Petrol engine: Demonstration
		2nd day	Drawing of Port timing diagram of Petrol engine
7	7TH	1st day	Port timing diagram of Diesel engine: Demonstration
		2nd day	Drawing port timing diagram of Diesel engine
8	8TH	1st day	Valve timing diagram of Petrol engine: Demonstration
		2nd day	Drawing valve timing diagram of Petrol engine
9	9TH	1st day	Valve timing diagram of diesel engine: Demonstration
		2nd day	Drawing valve timing diagram of diesel engine
10	10TH	1st day	Flash & Fire point tests using Cleveland Apparatus: Demonstration
		2nd day	Flash & Fire point tests using Cleveland Apparatus
11	11TH	1st day	Viscosity measurement using Saybolt viscometer : Demonstration
		2nd day	Viscosity measurement using Saybolt viscometer
12	12TH	1st day	Carbon residue test using Conradson's apparatus: Demonstration
		2nd day	Carbon residue test using Conradson's apparatus
13	13TH	1st day	Calorific value tests using Bomb Calorimeter (Solid and Liquid fuels)
		2nd day	Calorific value tests using Junkers Gas Calorimeter (Gaseous fuels)
14	14TH	1st day	EVALUATION
		2nd day	EVALUATION
15	15TH	1st day	QUIZ TEST
		2nd day	EVALUATION

Aswini Parida
02/06/2026

Sign of Lab Asst.

Biswajit Mishra
02/06/2026

Sign of Faculty

Aswini Parida
02/06/2026
HOD
MECHANICAL ENGG DEPT
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