

Discipline: Mechanical Engg.	SEMESTER : 3RD GROUP : M2		Name of the Teaching Faculty: PRABIR KUMAR SWAIN Designation: Lecturer S-II(MECHANICAL) Name of Lab. Asst. : SUJIT KUMAR SAHU (Workshop)
Subject: Thermal engineerin-1 Lab (PR-4)	NO OF DAYS CLASS ALLOTTED/WEEK (WED,THU)		Semester From date: 01.07.2026 To date:05.11.2026 No. of weeks: 19 Total class: 50 hrs
Week	CLASS DAY		Theory Topics
1st	01.07.2026	1 ST	Introduction to thermal engineering lab , syllabus discussion , do's and dont's in lab.
	04.07.2026	2nd	Assembling and disassembling of I.C. Engines
2ND	08.07.2026	1 ST	Assembling and disassembling of I.C. Engines
3RD	15.07.2026	1 ST	Assembling and disassembling of I.C. Engines
	18.07.2026		Assembling and disassembling of I.C. Engines
4TH	22.07.2026	1 ST	Study of 4 stroke petrole engine
5TH	29.07.2026	1 ST	Study of 4 stroke petrole engine
	01.08.2026	2 nd	Study of 4 stroke petrole engine
6TH	05.08.2026	1 ST	Study of 4 stroke diesel engine
7TH	12.08.2026	1 ST	Study of 4 stroke diesel engine
8TH	19.08.2026	1 ST	Study of 2stroke petrole engine

9 th	29.08.2026	1 ST	Study of 2stroke petrole engine
10 TH	02.09.2026	1 ST	Study of 2stroke diesel engine
	05.09.2026	2 ND	Study of 2stroke diesel engine
11 TH	09.09.2026	1 ST	Valve timing diagram of Petrol engine
12 th	19.09.2026	1 ST	Valve timing diagram of Petrol engine
13 TH	23.09.2026	1 ST	Valve timing diagram of Diesel engine
14 th	30.09.2026	1 ST	Port timing diagram of Petrol engine
	03.10.2026	2 ND	Port timing diagram of Diesel engine
15 th	07.10.2026	1 ST	Flash & Fire point tests using Able's/Cleveland/Pensky Martin Apparatus
16 th	14.10.2026	1 ST	Flash & Fire point tests using Able's/Cleveland/Pensky Martin Apparatus
17 th	21.10.2026	1 ST	Calorific value tests using Bomb Calorimeter (Solid and Liquid fuels) and Junkers Gas Calorimeter (Gaseous fuels)

18 th	28.10.2026	1 ST	Viscosity measurement using Saybolt viscometer
	31.10.2026	2 ND	Carbon residue test using Conradson's apparatus.
19 th	04.10.2026	1 ST	Revision


Prepared By:

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Checked by

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