

# LESSON PLAN (SUMMER 2024-25)

## GOVT. POLYTECHNIC, NAYAGARH DEPARTMENT OF MECHANICAL ENGINEERING. (w.e.f. 04/02/2025)

### **SUBJECT: MECHANICAL ENGG LAB-II (Pr. 2)**

**Periods: 6 per week/Group**

**No. of weeks: 15**

**SEMESTER: 4th**

**NAME OF FACULTY: PRAFULLA KUMAR MALLICK, LECT..(GF)**

**SANJAY KUMAR BISOYI, LECT.(GF)**

Week	Class Day	Theory / Practical Topics
1st	1st	Study of 2-S petrol & diesel engine models
	2 <sup>nd</sup>	Study of 2-S petrol & diesel engine models
2 <sup>nd</sup>	1st	Study of 2-S petrol & diesel engine models
	2 <sup>nd</sup>	Determine the brake thermal efficiency of single cylinder petrol engine.
3 <sup>rd</sup>	1st	Determine the brake thermal efficiency of single cylinder petrol engine.
	2 <sup>nd</sup>	Determine the brake thermal efficiency of single cylinder petrol engine.
4 <sup>th</sup>	1st	Determine the brake thermal efficiency of single cylinder diesel engine.
	2 <sup>nd</sup>	Determine the brake thermal efficiency of single cylinder diesel engine.
5 <sup>th</sup>	1st	Determine the brake thermal efficiency of single cylinder diesel engine.
	2 <sup>nd</sup>	Determine the B.H.P, I.H.P BSFC of a multi cylinder engine by Morse test.
6 <sup>th</sup>	1st	Determine the B.H.P, I.H.P BSFC of a multi cylinder engine by Morse test.
	2 <sup>nd</sup>	Determine the B.H.P, I.H.P BSFC of a multi cylinder engine by Morse test.
7th	1st	Determine the mechanical efficiency of an air Compressor.
	2 <sup>nd</sup>	Determine the mechanical efficiency of an air Compressor.
8th	1st	Determine the mechanical efficiency of an air Compressor.
	2 <sup>nd</sup>	Study of pressure measuring devices (manometer, Bourdon tube pressure gauge)
9th	1st	Study of pressure measuring devices (manometer, Bourdon tube pressure gauge)
	2 <sup>nd</sup>	Study of pressure measuring devices (manometer, Bourdon tube pressure gauge)
10th	1st	Verification of Bernoulli's theorem .
	2 <sup>nd</sup>	Verification of Bernoulli's theorem.
11th	1st	Verification of Bernoulli's theorem .
	2 <sup>nd</sup>	Determination of Cd from venturimeter
12th	1st	Determination of Cd from venturimeter
	2 <sup>nd</sup>	Determination of Cd from venturimeter
13th	1st	Determination of Cc, Cv, Cd from orifice meter
	2 <sup>nd</sup>	Determination of Cc, Cv, Cd from orifice meter
14th	1st	Determination of Cc, Cv, Cd from orifice meter
	2 <sup>nd</sup>	Determine of Darcy's coefficient from flow through pipe
15th	1st	Determine of Darcy's coefficient from flow through pipe
	2 <sup>nd</sup>	Determine of Darcy's coefficient from flow through pipe

Prafulla Kumar Mallik  
03/02/2025