

DHABALESWAR INSTITUTE OF POLYTECHNIC

LESSON PLAN

Discipline: Mech	Semester: <u>4TH SEM</u>	Name of the Teaching Faculty <u>R. K. K. K.</u>
Subject: <u>Mech Engg Lab (PR3)</u>	No. of days per week Class Allotted: <u>2</u>	Semester from Dt. <u>14.02.2023</u> to Dt. <u>23.05.2023</u> No. of Weeks: <u>15</u>
Week	Class Day	Theory / Practical Topics
1st	1st	1. Study of 2-s, 4-s Petrol & diesel engine models
2nd	2nd	
3rd	1st	2. Determine the Brake thermal efficiency of single cylinder Petrol engine
4th	2nd	
5th	1st	3. Determine the brake thermal efficiency of single cylinder diesel engine
6th	2nd	
7th	1st	4. Determine the B.H.P, I.H.P B.S.F.C of a multi cylinder engine by Morse test.
8th	2nd	
9th	1st	5. Determine the Mechanical efficiency of an air compressor
10th	2nd	
	1st	6. Study of Pressure measuring devices (Manometer, Bourdon tube Pressure gauge)
	2nd	

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Week	Class Day	Theory / Practical Topics
11th	1st 2nd	7. Verification of Bernoulli's theorem.
12th	1st 2nd	8. Determination of C_d from Venturimeter.
13th	1st 2nd	
14th	1st day	9. Determination of C_c , C_v , C_d from orifice meter.
15th	1st	10. Determination of Darcy's coefficient from through pipe.