

GOVERNMENT POLYTECHNIC JAIPUR

DEPARTMENT OF MECHANICAL ENGINEERING

LESSON PLAN

Discipline: Mechanical	Semester: 4th	Name of the Teaching faculty: Gitanjali Sethi, Sr. Lect. Mech	
Subject: ME LAB-II (PR-2)	No of Days/Week class allotted: 6p	Semester From Date: 16.01.2024 No of weeks: 15	To Date: 26/04/2024
Week	Class Day	Topics	
1st	1st(3p)	EXP-1 Study of 2-5, 4-5 petrol & diesel engine models Aim of the experiment, model details, basic working principle.	
	2nd(3p)	EXP-1 Study of 2-5, 4-5 petrol & diesel engine models. Aim of the experiment, model details, basic working principle.	
2nd	3rd(3p)	EXP-1 Study of 2-5, 4-5 petrol & diesel engine models. Aim of the experiment, model details, basic working principle.	
	4th(3p)	EXP-2 Determine the brake thermal efficiency of single cylinder petrol engine. Aim of the experiment, equipment details, basic working principle, procedure, tabulation & calculation.	
3rd	5th(3p)	EXP-2 Determine the brake thermal efficiency of single cylinder petrol engine. Aim of the experiment, equipment details, basic working principle, procedure, tabulation & calculation.	
	6th(3p)	EXP-2 Determine the brake thermal efficiency of single cylinder petrol engine. Aim of the experiment, equipment details, basic working principle, procedure, tabulation & calculation.	
4th	7th(3p)	EXP-3 Determine the brake thermal efficiency of single cylinder diesel engine. Aim of the experiment, equipment details, basic working principle, procedure, tabulation & calculation.	
	8th(3p)	EXP-3 Determine the brake thermal efficiency of single cylinder diesel engine. Aim of the experiment, equipment details, basic working principle, procedure, tabulation & calculation.	
5th	9th(3p)	EXP-3 Determine the brake thermal efficiency of single cylinder diesel engine. Aim of the experiment, equipment details, basic working principle, procedure, tabulation & calculation.	
	10th(3p)	EXP-4 Determine the B.H.P, I.H.P BSFC of a multi cylinder engine by Morse test. Aim of the experiment, equipment details, basic working principle, procedure, tabulation & calculation.	
6th	11th(3p)	EXP-4 Determine the B.H.P, I.H.P BSFC of a multi cylinder engine by Morse test. Aim of the experiment, equipment details, basic working principle, procedure, tabulation & calculation.	
	12th(3p)	EXP-4 Determine the B.H.P, I.H.P BSFC of a multi cylinder engine by Morse test. Aim of the experiment, equipment details, basic working principle, procedure, tabulation & calculation.	
7th	13th(3p)	EXP-5 Determine the mechanical efficiency of an air Compressor. Aim of the experiment, equipment details, basic working principle, procedure, tabulation & calculation.	
	14th(3p)	EXP-5 Determine the mechanical efficiency of an air Compressor. Aim of the experiment, equipment details, basic working principle, procedure, tabulation & calculation.	
8th	15th(3p)	EXP-5 Determine the mechanical efficiency of an air Compressor. Aim of the experiment, equipment details, basic working principle, procedure, tabulation & calculation.	
	16th(3p)	EXP-6 Study of pressure measuring devices (manometer, Bourdon tube pressure gauge). Aim of the experiment, model details, basic working principle	
9th	17th(3p)	EXP-6 Study of pressure measuring devices (manometer, Bourdon tube pressure gauge). Aim of the experiment, model details, basic working principle	
	18th(3p)	EXP-6 Study of pressure measuring devices (manometer, Bourdon tube pressure gauge). Aim of the experiment, model details, basic working principle	
10th	19th(3p)	EXP-7 Verification of Bernoulli's theorem. Aim of the experiment, equipment details, basic working principle, procedure, tabulation & calculation.	
	20th(3p)	EXP-7 Verification of Bernoulli's theorem. Aim of the experiment, equipment details, basic working principle, procedure, tabulation & calculation.	
11th	21st(3p)	EXP-7 Verification of Bernoulli's theorem. Aim of the experiment, equipment details, basic working principle, procedure, tabulation & calculation.	
	22nd(3p)	EXP-8 Determination of Cd from venturimeter. Aim of the experiment, equipment details, basic working principle, procedure, tabulation & calculation.	
12th	23rd(3p)	EXP-8 Determination of Cd from venturimeter. Aim of the experiment, equipment details, basic working principle, procedure, tabulation & calculation.	
	24th(3p)	EXP-8 Determination of Cd from venturimeter.	

	24th(3p)	Aim of the experiment, equipment details, basic working principle, procedure, tabulation & calculation.
13th	25th(3p)	EXP-9 Determination of Cc, Cv, Cd from orifice meter.
	26th(3p)	EXP-9 Determination of Cc, Cv, Cd from orifice meter.
14th	27th(3p)	EXP-9 Determination of Cc, Cv, Cd from orifice meter.
	28th(3p)	EXP-10 Determine of Darcy's coefficient from flow through pipe.
15th	29th(3p)	EXP-10 Determine of Darcy's coefficient from flow through pipe.
	30th(3p)	EXP-10 Determine of Darcy's coefficient from flow through pipe.
		Aim of the experiment, equipment details, basic working principle, procedure, tabulation & calculation.

G. S.
13.1.23

Sign of Faculty

G. S.

Sr. Lect. Mech.