GOVERNMENT POLYTECHNIC JAJPUR

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DEPARTMENT OF MECHANICAL ENGINEERING LESSON PLAN

Discipline:	1	LESSON PLAN				
Mechanical	Semester: 5th	Name of the Teaching faculty: Gitanjali Sethi				
Subject:		Semester from Date: To Date: 15/9/2022 to 22/12/2022				
Refrigeration	No of	No of weeks: 15				
& Air	Days/Week					
Conditioning	class alloted: 4					
lab(Pr1)						
Week	Class Day	Topics				
		EXPT-1 Study the construction features of Domestic Refrigerator				
	1c+/2n\	i) Aim of the expt				
	1st(2p)	ii) Types of refrigerants and Equipment details				
1-4		iii) Basic working principle of domestic refrigerator				
1st		Study the construction features of Domestic Refrigerator				
	2 = 4/2 =)	i) Aim of the expt				
	2nd(2p)	ii) Types of refrigerants and Equipment details				
		iii) Basic working principle of domestic refrigerator				
		Study the construction features of Domestic Refrigerator				
	2rd/2n)	i) Aim of the expt				
	3rd(2p)	ii) Types of refrigerants and Equipment details				
2nd		iii) Basic working principle of domestic refrigerator and VIVA.				
Zna		EXPT-2 Study of construction features of water cooler				
	4+h/2n\	i) Aim of the expt				
	4th(2p)	ii) Equipment details				
		iii) Basic Theory and working				
	5th(2p)	Study of construction features of water cooler				
		i) Aim of the expt				
		ii) Equipment details				
3rd		iii) Basic Theory and working				
Siu		Study of construction features of water cooler				
	C+b/2 ->	i) Aim of the expt				
	6th(2p)	ii) Equipment details				
		iii) Basic Theory and working, VIVA				
4th		EXPT-3 Study the construction features of window air conditioner				
	7+h/2m\	i) Aim of the expt				
	7th(2p)	ii) Equipment details				
		iii) Basic working principle of window air conditioner				
	8th(2p)	Study the construction features of window air conditioner				
		i) Aim of the expt				
		ii) Equipment details				
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		iii) Basic working principle of window air conditioner
		Study the construction features of window air conditioner
		i) Aim of the expt
	9th(2p)	ii) Equipment details
		iii) Basic working principle of window air conditioner and VIVA
5th		EXPT-4 Study the construction features of split air conditioner
		i) Aim of the expt
	10th(2p)	ii) d Equipment details
		iii) Basic working principle of split air conditioner
		Study the construction features of split air conditioner
		i) Aim of the expt
	11th(2p)	ii) d Equipment details
		iii) Basic working principle of split air conditioner
6th		Study the construction features of split air conditioner
		i) Aim of the expt
	12th(2p)	ii) d Equipment details
		iii) Basic working principle of split air conditioner, VIVA
		EXPT-5 Determine the capacity and cop of vapour compression Refrigerator
		test rig
		i) Aim of the expt
	13th(2p)	ii) Equipment details
	13(1(2p)	iii) Basic Theory
		iv) procedure
		v) Calculation
7th		V) Calculation
		Determine the capacity and cop of vapour compression Refrigerator test rig
		i) Aim of the expt
	14th(2p)	ii) Equipment details
	_ · · · · (_p)	iii) Basic Theory
		iv) procedure
		v) Calculation
		1, carearane
		Determine the capacity and cop of vapour compression Refrigerator test rig
		i) Aim of the expt
	15th(2p)	ii) Equipment details
		iii) Basic Theory
		iv) procedure
8th		v) Calculation, VIVA
3		EXPT-6 Determine the capacity and cop of water cooler
		i) Aim of the expt
		ii) Equipment details
	16th(2p)	iii) Basic Theory
		iv) procedure
		v) Calculation
		Determine the capacity and cop of water cooler
		i) Aim of the expt
		ii) Equipment details
	17th/2n\	ii) Equipment details

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		iii) Basic Theory		
		iv) procedure		
9th		v) Calculation		
		Determine the capacity and cop of water cooler		
		i) Aim of the expt		
	18th(2p)	ii) Equipment details		
		iii) Basic Theory		
		iv) procedure		
		v) Calculation, VIVA		
		EXPT-7 Determine the capacity and cop of window air conditioner		
		i) Aim of the expt		
		ii) Equipment details		
	19th(2p)	iii) Basic Theory		
		iv) procedure		
		v) Calculation		
10th		Determine the capacity and cop of window air conditioner		
		i) Aim of the expt		
		ii) Equipment details		
	20th(2p)	iii) Basic Theory		
		iv) procedure		
		v) Calculation		
		,		
		Determine the capacity and cop of window air conditioner		
		i) Aim of the expt		
	21st(2p)	ii) Equipment details		
		iii) Basic Theory		
		iv) procedure		
11th		v) Calculation, VIVA		
		EXPT-8 Determine the capacity and cop of split air conditioner		
		i) Aim of the expt		
	22nd(2p)	ii) Equipment details		
		iii) Basic Theory		
		iv) procedure		
		v) Calculation		
		Determine the capacity and cop of split air conditioner		
		i) Aim of the expt		
	22 1/2 3	ii) Equipment details		
	23rd(2p)	iii) Basic Theory		
		iv) procedure		
		v) Calculation		
12th	24th(2p)	Determine the capacity and cop of split air conditioner		
		i) Aim of the expt		
		ii) Equipment details		
		iii) Basic Theory		
		iv) procedure		
		v) Calculation, VIVA		
		EXPT-9 Determine the capacity and cop of vapour absorption Refrigerator		
l	I	test rig		

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		i) Aim of the expt
	25th(2p)	ii) Equipment details
		iii) Basic Theory
		iv) procedure
13th		v) Calculation
15	26th(2p)	Determine the capacity and cop of vapour absorption Refrigerator test rig
		i) Aim of the expt
		ii) Equipment details
		iii) Basic Theory
		iv) procedure
		v) Calculation
		Determine the capacity and cop of vapour absorption Refrigerator test rig
	2711/21	i) Aim of the expt
	27th(2p)	ii) Equipment details
		iii) Basic Theory
_		iv) procedure
14th		v) Calculation, VIVA.
		EXPT-10 Complete charging of a domestic refrigerator and its leak test
	28th(2p)	i) Aim of the expt
		ii) Equipment details
		iii) Basic Theory
		iv) procedure
		v)Charging and leak test calculation
	29th(2p)	Complete charging of a domestic refrigerator and its leak test
		i) Aim of the expt
		ii) Equipment details
		iii) Basic Theory
		iv) procedure
15th		v)Charging and leak test calculation, VIVA.
15(1)	30th(2p)	EXPT-11 (ADD ON)Study and performance on sling psychrometer
		i) Aim of the expt
		ii) Equipment details
		iii) Basic Theory
		iv) procedure
		v) Calculation, VIVA.