

GOVERNMENT POLYTECHNIC JAJPUR

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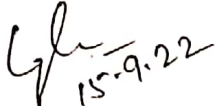
DEPARTMENT OF MECHANICAL ENGINEERING
LESSON PLAN

Discipline: Mechanical	Semester: 5th	Name of the Teaching faculty: Gitanjali Sethi
Subject: Refrigeration & Air Conditioning lab(Pr1)	No of Days/Week class allotted: 4	Semester from Date: 15-09-22 To Date: 21-01-23 No of weeks: 15
Week	Class Day	Topics
1st	1st(2p)	EXPT-1 Study the construction features of Domestic Refrigerator
		i) Aim of the expt
		ii) Types of refrigerants and Equipment details
	2nd(2p)	iii) Basic working principle of domestic refrigerator
		Study the construction features of Domestic Refrigerator
		i) Aim of the expt
2nd	3rd(2p)	ii) Types of refrigerants and Equipment details
		iii) Basic working principle of domestic refrigerator
		Study the construction features of Domestic Refrigerator
	4th(2p)	i) Aim of the expt
		ii) Types of refrigerants and Equipment details
		iii) Basic working principle of domestic refrigerator and VIVA.
3rd	5th(2p)	EXPT-2 Study of construction features of water cooler
		i) Aim of the expt
		ii) Equipment details
	6th(2p)	iii) Basic Theory and working
		Study of construction features of water cooler
		i) Aim of the expt
4th	7th(2p)	ii) Equipment details
		iii) Basic Theory and working, VIVA
		EXPT-3 Study the construction features of window air conditioner
	8th(2p)	i) Aim of the expt
		ii) Equipment details
		Study the construction features of window air conditioner

		iii) Basic working principle of window air conditioner
5th	9th(2p)	Study the construction features of window air conditioner
		i) Aim of the expt
		ii) Equipment details
	iii) Basic working principle of window air conditioner and VIVA	
10th(2p)	EXPT-4 Study the construction features of split air conditioner	
	i) Aim of the expt	
	ii) d Equipment details	
iii) Basic working principle of split air conditioner		
6th	11th(2p)	Study the construction features of split air conditioner
		i) Aim of the expt
		ii) d Equipment details
	iii) Basic working principle of split air conditioner	
12th(2p)	Study the construction features of split air conditioner	
	i) Aim of the expt	
	ii) d Equipment details	
iii) Basic working principle of split air conditioner, VIVA		
7th	13th(2p)	EXPT-5 Determine the capacity and cop of vapour compression Refrigerator test rig
		i) Aim of the expt
		ii) Equipment details
		iii) Basic Theory
		iv) procedure
v) Calculation		
14th(2p)	Determine the capacity and cop of vapour compression Refrigerator test rig	
	i) Aim of the expt	
	ii) Equipment details	
	iii) Basic Theory	
	iv) procedure	
v) Calculation		
15th(2p)	Determine the capacity and cop of vapour compression Refrigerator test rig	
	i) Aim of the expt	
	ii) Equipment details	
	iii) Basic Theory	
	iv) procedure	
v) Calculation, VIVA		
8th	16th(2p)	EXPT-6 Determine the capacity and cop of water cooler
		i) Aim of the expt
		ii) Equipment details
		iii) Basic Theory
		iv) procedure
v) Calculation		
17th(2p)	Determine the capacity and cop of water cooler	
	i) Aim of the expt	
ii) Equipment details		

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

13th	25th(2p)	i) Aim of the expt ii) Equipment details iii) Basic Theory iv) procedure v) Calculation
	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
14th	27th(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, VIVA.
	28th(2p)	EXPT-10 Complete charging of a domestic refrigerator and its leak test i) Aim of the expt ii) Equipment details iii) Basic Theory iv) procedure v)Charging and leak test calculation
15th	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 v)Charging and leak test calculation, VIVA.
	30th(2p)	EXPT-11 (ADD ON) , Determination of Capacity & COP of Ice plant test i) Aim of the expt ii) Equipment details iii) Basic Theory iv) procedure v) Calculation, VIVA.


 15.9.22
 Signature of Faculty
 G. Sethi
 Sr Lect. Mech.