

GOVERNMENT POLYTECHNIC JAIPUR

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**DEPARTMENT OF MECHANICAL ENGINEERING
LESSON PLAN**

Discipline: Mechanical	Semester: 5th	Name of the Teaching faculty: Suprava Behera
Subject: Refrigeration & Air Conditioning lab(Pr1)	No of Days/Week class allotted: 4	Semester from Date: To Date: 01.10.2021 to 01.09.2022 No of weeks: 15
Week	Class Day	Topics
1st	1st (Gr 2)(2p)	Study the construction features of Domestic Refrigerator
		i) Aim of the expt
		ii) Types of refrigerants and Equipment details
2nd	1st (Gr 1)(2p)	iii) Basic working principle of domestic refrigerator
		Study the construction features of window air conditioner
		i) Aim of the expt
	1st (Gr 2)(2p)	ii) Equipment details
		iii) Basic working principle of window air conditioner
		Study the construction features of window air conditioner
	2nd (Gr 1)(2p)	i) Aim of the expt
		ii) Equipment details
		iii) Basic working principle of window air conditioner
	2nd (Gr 2)(2p)	Study the construction features of split air conditioner
		i) Aim of the expt
		ii) d Equipment details
1st (Gr 1)(2p)	iii) Basic working principle of split air conditioner	
	Study the construction features of split air conditioner	
	i) Aim of the expt	
	1st (Gr 1)(2p)	ii) Equipment details
		iii) Basic working principle of split air conditioner
		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
		Determine the capacity and cop of vapour compression Refrigerator test rig
		i) Aim of the expt

3rd	1st (Gr 2)(2p)	ii) Equipment details
		iii) Basic Theory
		iv) procedure
		v) Calculation
	2nd (Gr 1)(2p)	Determine the capacity and cop of water cooler
		i) Aim of the expt
		ii) Equipment details
		iii) Basic Theory
		iv) procedure
2nd (Gr 2)(2p)	v) Calculation	
	Determine the capacity and cop of water cooler	
	i) Aim of the expt	
	ii) Equipment details	
	iii) Basic Theory	
4th	1st (Gr 1)(2p)	iv) procedure
		v) Calculation
		Determine the capacity and cop of window air conditioner
		i) Aim of the expt
		ii) Equipment details
	1st (Gr 2)(2p)	iii) Basic Theory
		iv) procedure
		v) Calculation
		Determine the capacity and cop of window air conditioner
		i) Aim of the expt
	2nd (Gr 1)(2p)	ii) Equipment details
		iii) Basic Theory
		iv) procedure
		v) Calculation
		Determine the capacity and cop of split air conditioner
	2nd (Gr 2)(2p)	i) Aim of the expt
ii) Equipment details		
iii) Basic Theory		
iv) procedure		
v) Calculation		
1st (Gr 1)(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	

5th	1st (Gr 2)(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	
	2nd (Gr 1)(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		
2nd (Gr 2)(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		
6th	1st (Gr 1)(2p)	Study the construction features of Domestic Refrigerator
		i)Practice & VIVA
	1st (Gr 2)(2p)	Study the construction features of Domestic Refrigerator
		i)Practice & VIVA
2nd(Gr 1)(2p)	Study the construction features of water cooler.	
	i)Practice & VIVA	
2nd (Gr 2)(2p)	Study the construction features of water cooler.	
	i)Practice & VIVA	
7th	1st (Gr 1)(2p)	Study the construction features of window air conditioner
		i)Practice & VIVA
	1st (Gr 2)(2p)	Study the construction features of window air conditioner
		i)Practice & VIVA
2nd (Gr 1)(2p)	Study the construction features of split air conditioner	
	i)Practice & VIVA	
2nd (Gr 2)(2p)	Study the construction features of split air conditioner	
	i)Practice & VIVA	
8th	1st (Gr 1)(2p)	Determine the capacity and cop of vapour compression Refrigerator test rig
		i)Practice & VIVA
	1st (Gr 2)(2p)	Determine the capacity and cop of vapour compression Refrigerator test rig
		i)Practice & VIVA
2nd (Gr 1)(2p)	Determine the capacity and cop of water cooler	
	i)Practice & VIVA	
2nd (Gr 2)(2p)	Determine the capacity and cop of water cooler	
	i)Practice & VIVA	
	1st (Gr 1)(2p)	Determine the capacity and cop of window air conditioner
		i)Practice & VIVA

9th	1st (Gr 2)(2p)	Determine the capacity and cop of window air conditioner i)Practice & VIVA
	2nd (Gr 1)(2p)	Determine the capacity and cop of split air conditioner i)Practice & VIVA
	2nd (Gr 2)(2p)	Determine the capacity and cop of split air conditioner i)Practice & VIVA
10th	1st (Gr 1)(2p)	Determine the capacity and cop of vapour absorption Refrigerator test rig i)Practice & VIVA
	1st (Gr 2)(2p)	Determine the capacity and cop of vapour absorption Refrigerator test rig i)Practice & VIVA
	2nd (Gr 1)(2p)	Complete charging of a domestic refrigerator and its leak test i)Practice & VIVA
	2nd (Gr 2)(2p)	Complete charging of a domestic refrigerator and its leak test i)Practice & VIVA
11th	1st (Gr 1)(2p)	Viva question preparation i)Practice
	1st (Gr 2)(2p)	Viva question preparation i)Practice
	2nd (Gr 1)(2p)	Complete charging of a domestic refrigerator and its leak test i)Practice & VIVA
	2nd (Gr 2)(2p)	Complete charging of a domestic refrigerator and its leak test i)Practice & VIVA
12th	1st (Gr 1)(2p)	Determine the capacity and cop of window air conditioner Viva question preparation & practice
	1st (Gr 2)(2p)	Determine the capacity and cop of window air conditioner Viva question preparation & practice
	1st (Gr 1)(2p)	Determine the capacity and cop of window air conditioner Viva question preparation & practice
	1st (Gr 2)(2p)	Determine the capacity and cop of window air conditioner Viva question preparation & practice
13th	1st (Gr 1)(2p)	Viva question preparation & practice
	1st (Gr 2)(2p)	Viva question preparation & practice
	1st (Gr 1)(2p)	Doubt clearing class & practice
	1st (Gr 2)(2p)	Doubt clearing class & practice
14th	1st (Gr 1)(2p)	Viva question preparation & practice of domestic refrigerator
	1st (Gr 2)(2p)	Viva question preparation & practice of domestic refrigerator
	1st (Gr 1)(2p)	Viva question preparation & practice of split AC
	1st (Gr 2)(2p)	Viva question preparation & practice of split AC
15th	1st (Gr 1)(2p)	Practice of Vapour Absorption test rig
	1st (Gr 2)(2p)	Practice of Vapour Absorption test rig
	1st (Gr 1)(2p)	Practice of Vapour Compression test rig
	1st (Gr 2)(2p)	Practice of Vapour Compression test rig


 01.10.22
 Lect (Mech)
 Signature of Faculty