## GOVERNMENT POLYTECHNIC JAJPUR

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## DEPARTMENT OF MECHANICAL ENGINEERING LESSON PLAN

Discipline:	Semester: 5th	Name of the Teaching faculty: Suprava Behera
Mechanical		
Subject: Refrigeration & Air Conditioning lab(Pr1)	No of Days/Week class alloted: 4	Semester from Date: To Date: 01.08.2023 to 30.11.2023 No of weeks: 15
Week	Class Day	Topics
<b>1</b> st	1st (Gr 1)(2p)	Study the construction features of Domestic Refrigerator i) Aim of the expt ii) Types of refrigerants and Equipment details
	1st (Gr 2)(2p)	Study the construction features of Domestic Refrigerator  i) Aim of the expt  ii) Types of refrigerants and Equipment details
		Study the construction features of Domestic Refrigerator i) Basic working principle of domestic refrigerator
	1st (Gr 2)(2p)	Study the construction features of Domestic Refrigerator  i) Basic working principle of domestic refrigerator
2nd	1st (Gr 1)(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
	1st (Gr 2)(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
	2nd (Gr 1)(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
	2nd (Gr 2)(2p)	Study the construction features of split air conditioner  i) Aim of the expt  ii) Equipment details  iii) Basic working principle of split air conditioner
3rd	1st (Gr 1)(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
	1st (Gr 2)(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
	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  v) Calculation
	2nd (Gr 2)(2p)	Determine the capacity and cop of water cooler  i) Aim of the expt  ii) Equipment details  iii) Basic Theory  iv) procedure  v) Calculation

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18		Determine the capacity and cop of window air conditioner	
		i) Aim of the expt	
	1st (Gr 1)(2p)	ii) Equipment details	
		iii) Basic Theory	
		iv) procedure	
		v) Calculation	
		Determine the capacity and cop of window air conditioner	
	196	i) Aim of the expt	-
	1st (Gr 2)(2p)	ii) Equipment details	
	13t (Gr 2)(2p)	iii) Basic Theory	
		iv) procedure	
4th		v) Calculation	
		Determine the capacity and cop of split air conditioner	
	-	i) Aim of the expt	
	2-1/0-1/0-1	ii) Equipment details	
	2nd (Gr 1)(2p)	iii) Basic Theory	
		iv) procedure	
		v) Calculation	
		Determine the capacity and cop of split air conditioner	
		i) Aim of the expt	
1		ii) Equipment details	
	2nd (Gr 2)(2p)	iii) Basic Theory	
		iv) procedure	
		v) Calculation	
1		Determine the capacity and cop of vapour absorption Refrigerator test rig i) Aim of the expt	
	1st (Gr 1)(2p)	ii) Equipment details	
	The state of the s	iii) Basic Theory	
	11 × 12 × 12	iv) procedure	
		v) Calculation	,
		Determine the capacity and cop of vapour absorption Refrigerator test rig	
		i) Aim of the expt	
	1st (Gr 2)(2p)	ii) Equipment details	
		iii) Basic Theory	
		iv) procedure	
5th		v) Calculation	V2
		Complete charging of a domestic refrigerator and its leak test	
		i) Aim of the expt	
	2nd (Gr 1)(2p)	ii) Equipment details	
	, , , , , , ,	iii) Basic Theory	
		iv) procedure	
		v)Charging and leak test calculation	
		Complete charging of a domestic refrigerator and its leak test	
	2nd (Gr 2)(2p)	i) Aim of the expt	
		ii) Equipment details	
		iii) Basic Theory	
	1 (1)	iv) procedure	
	2 11	v)Charging and leak test calculation	
		Study the construction features of Domestic Refrigerator	$\neg \neg$
		i)Practice & VIVA	
	1st (Gr 2)/2=1	Study the construction features of Domestic Refrigerator	
CAL		i)Practice & VIVA	-
6th	2nd(Gr 1)(2p)	Study the construction features of water cooler.	$\overline{}$
		i)Practice & VIVA	
	2nd (Gr 2)(2p)	Study the construction features of water cooler.	
		i)Practice & VIVA	

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	1st (Gr 1)(2p)	Study the construction features of window air conditioner i)Practice & VIVA	
		Study the construction features of window air conditioner	
	1st (Gr 2)(2p)		
7th		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	
	1st (Gr 1)(2p)	Determine the capacity and cop of vapour compression Refrigerator test rig	-,
	-51 (57(-5)	i)Practice & VIVA	
	1st (Gr 2)(2p)	Determine the capacity and cop of vapour compression Refrigerator test rig	
8th	130 (01 2)(2))	i)Practice & VIVA	
Otti	2nd (Cr 1)/2n)	Determine the capacity and cop of water cooler	
	2nd (Gr 1)(2p)	i)Practice & VIVA	
	2nd (C= 2)(2n)	Determine the capacity and cop of water cooler	
	2nd (Gr 2)(2p)	i)Practice & VIVA	
	1.1/0.41/0.1	Determine the capacity and cop of window air conditioner	
	1st (Gr 1)(2p)	i)Practice & VIVA	
		Determine the capacity and cop of window air conditioner	
0.1	1st (Gr 2)(2p)	i)Practice & VIVA	
9th		Determine the capacity and cop of split air conditioner	4. 17
	2nd (Gr 1)(2p)	i)Practice & VIVA	
	2nd (Gr 2)(2p)	Determine the capacity and cop of split air conditioner	
		i)Practice & VIVA	
		Determine the capacity and cop of vapour absorption Refrigerator test rig	
	1st (Gr 1)(2p)	i)Practice & VIVA	
		Determine the capacity and cop of vapour absorption Refrigerator test rig	
	1st (Gr 2)(2p)	i)Practice & VIVA	1. 1. 1
10th	The second section is	Complete charging of a domestic refrigerator and its leak test	
	2nd (Gr 1)(2p)	i)Practice & VIVA	
		Complete charging of a domestic refrigerator and its leak test	
	2nd (Gr 2)(2p)	i)Practice & VIVA	
		Viva question preparation	
	1st (Gr 1)(2p)	i)Practice	-
	1st (Gr 2)(2p)	Viva question preparation	
11th	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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	dry d
	(/(-P)	i)Practice & VIVA	477
		기계 2008년 - 100일 대학생 대학생 대학생 학생 전환 대학생 학생 전환	
		그 집 집 집 조님들이 없다면 하나 하나 하나 하나 하나 하는데 하다면 하다면 하다.	
		2 도마스	

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  1st (Gr 1)(2p) Viva question preparation & practice  1st (Gr 2)(2p) Viva question preparation & practice  1st (Gr 2)(2p) 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  1st (Gr 1)(2p)  Viva question preparation & practice	100
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)  Viva question preparation & practice  1st (Gr 2)(2p)  Viva question preparation & practice	
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)  Viva question preparation & practice  1st (Gr 2)(2p)  Viva question preparation & practice	· 10
1st (Gr 1)(2p)  Determine the capacity and cop of window air conditioner  Viva question preparation & practice  Determine the capacity and cop of window air conditioner  Viva question preparation & practice  1st (Gr 1)(2p)  Viva question preparation & practice	18
1st (Gr 2)(2p)  Determine the capacity and cop of window air conditioner  Viva question preparation & practice  1st (Gr 1)(2p)  Viva question preparation & practice	. As
Viva question preparation & practice  1st (Gr 1)(2p) Viva question preparation & practice  1st (Gr 2)(2p) Viva question preparation & practice	
1st (Gr 1)(2p) Viva question preparation & practice  1st (Gr 2)(2p) Viva question preparation & practice	
1ct (Cr 2)(2m) With question approaching a processing	0
13th 1st (Gr 2)(2p) Viva question preparation & practice	116
1st (Gr 1)(2p) Doubt clearing class & practice	
1st (Gr 2)(2p) Doubt clearing class & practice	-03
1st (Gr 1)(2p) Viva question preparation & practice of domestic refrigerator	4 3
1st (Gr 2)(2p) Viva question preparation & practice of domestic refrigerator	34
1st (Gr 1)(2p) Viva question preparation & practice of split AC	10
1st (Gr 2)(2p) Viva question preparation & practice of split AC	7
1st (Gr 1)(2p) Practice of Vapour Absrption test rig	(34)
15th 1st (Gr 2)(2p) Practice of Vapour Absrption test rig	200
1st (Gr 1)(2p) Practice of Vapour Compression test rig	310
1st (Gr 2)(2p) Practice of Vapour Compression test rig	114

Sbehr, 23 Signature of Faculty