

**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 alloted: 4	Semester from Date: To Date: 01.07.2024 to 08.11.2024 No of weeks: 15
Week	Class Day	Topics
1st	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
	1st (Gr 1)(2p)	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 water cooler i) Aim of the expt ii) Equipment details iii) Basic working principle of water cooler
	1st (Gr 2)(2p)	Study the construction features of water cooler i) Aim of the expt ii) Equipment details iii) Basic working principle of water cooler
	2nd (Gr 1)(2p)	Study the construction features of water cooler i) Aim of the expt ii) Equipment details iii) Basic working principle of water cooler
	2nd (Gr 2)(2p)	Study the construction features of water cooler i) Aim of the expt ii) Equipment details iii) Basic working principle of water cooler
3rd	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) 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
1st	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
	1st (Gr 2)(2p)	Determine the capacity and cop of vapour compression Refrigerator test rig i) Aim of the expt ii) Equipment details

	1st (Gr 1)(2p)	Determine the capacity and cop of vapour compression Refrigerator test rig i) procedure ii) Calculation
	1st (Gr 2)(2p)	Determine the capacity and cop of vapour compression Refrigerator test rig i) procedure ii) Calculation
5th	2nd (Gr 1)(2p)	Determine the capacity and cop of water cooler i) Aim of the expt ii) Equipment details iii) Basic Theory
	2nd (Gr 2)(2p)	Determine the capacity and cop of water cooler i) Aim of the expt ii) Equipment details iii) Basic Theory
	2nd (Gr 1)(2p)	Determine the capacity and cop of water cooler i) procedure ii) Calculation
	2nd (Gr 2)(2p)	Determine the capacity and cop of water cooler i) procedure ii) Calculation
6th	1st (Gr 1)(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
	1st (Gr 2)(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
7th	2nd (Gr 1)(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
	2nd (Gr 2)(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
8th	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
	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
	1st (Gr 1)(2p)	Determine the capacity and cop of vapour absorption Refrigerator test rig i) procedure ii) Calculation
	1st (Gr 2)(2p)	Determine the capacity and cop of vapour absorption Refrigerator test rig i) procedure ii) Calculation

9th	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
9th	2nd (Gr 2)(2p)	iv) procedure
		v)Charging and leak test calculation
		Complete charging of a domestic refrigerator and its leak test
		i) Aim of the expt
10th	2nd (Gr 2)(2p)	ii) Equipment details
		iii) Basic Theory
		iv) procedure
		v)Charging and leak test calculation
10th	1st (Gr 1)(2p)	Study the construction features of Domestic Refrigerator
		i)Practice & VIVA
		Study the construction features of Domestic Refrigerator
		i)Practice & VIVA
10th	1st (Gr 2)(2p)	Study the construction features of water cooler.
		i)Practice & VIVA
		Study the construction features of water cooler.
		i)Practice & VIVA
10th	2nd(Gr 1)(2p)	Study the construction features of water cooler.
		i)Practice & VIVA
		Study the construction features of water cooler.
		i)Practice & VIVA
10th	2nd (Gr 2)(2p)	Study the construction features of water cooler.
		i)Practice & VIVA
		Study the construction features of water cooler.
		i)Practice & VIVA
11th	1st (Gr 1)(2p)	Study the construction features of window air conditioner
		i)Practice & VIVA
		Study the construction features of window air conditioner
		i)Practice & VIVA
11th	1st (Gr 2)(2p)	Study the construction features of window air conditioner
		i)Practice & VIVA
		Study the construction features of split air conditioner
		i)Practice & VIVA
11th	2nd (Gr 1)(2p)	Study the construction features of split air conditioner
		i)Practice & VIVA
		Study the construction features of split air conditioner
		i)Practice & VIVA
11th	2nd (Gr 2)(2p)	Study the construction features of split air conditioner
		i)Practice & VIVA
		Study the construction features of split air conditioner
		i)Practice & VIVA
12th	1st (Gr 1)(2p)	Determine the capacity and cop of vapour compression Refrigerator test rig
		i)Practice & VIVA
		Determine the capacity and cop of vapour compression Refrigerator test rig
		i)Practice & VIVA
12th	1st (Gr 2)(2p)	Determine the capacity and cop of vapour compression Refrigerator test rig
		i)Practice & VIVA
		Determine the capacity and cop of water cooler
		i)Practice & VIVA
12th	2nd (Gr 1)(2p)	Determine the capacity and cop of water cooler
		i)Practice & VIVA
		Determine the capacity and cop of water cooler
		i)Practice & VIVA
12th	2nd (Gr 2)(2p)	Determine the capacity and cop of water cooler
		i)Practice & VIVA
		Determine the capacity and cop of water cooler
		i)Practice & VIVA
13th	1st (Gr 1)(2p)	Determine the capacity and cop of window air conditioner
		i)Practice & VIVA
		Determine the capacity and cop of window air conditioner
		i)Practice & VIVA
13th	1st (Gr 2)(2p)	Determine the capacity and cop of window air conditioner
		i)Practice & VIVA
		Determine the capacity and cop of split air conditioner
		i)Practice & VIVA
13th	2nd (Gr 1)(2p)	Determine the capacity and cop of split air conditioner
		i)Practice & VIVA
		Determine the capacity and cop of split air conditioner
		i)Practice & VIVA
13th	2nd (Gr 2)(2p)	Determine the capacity and cop of split air conditioner
		i)Practice & VIVA
		Determine the capacity and cop of split air conditioner
		i)Practice & VIVA
14th	1st (Gr 1)(2p)	Determine the capacity and cop of vapour absorption Refrigerator test rig
		i)Practice & VIVA
		Determine the capacity and cop of vapour absorption Refrigerator test rig
		i)Practice & VIVA
14th	1st (Gr 2)(2p)	Determine the capacity and cop of vapour absorption Refrigerator test rig
		i)Practice & VIVA
		Complete charging of a domestic refrigerator and its leak test
		i)Practice & VIVA
14th	2nd (Gr 1)(2p)	Complete charging of a domestic refrigerator and its leak test
		i)Practice & VIVA
		Complete charging of a domestic refrigerator and its leak test
		i)Practice & VIVA
14th	2nd (Gr 2)(2p)	Complete charging of a domestic refrigerator and its leak test
		i)Practice & VIVA
		Complete charging of a domestic refrigerator and its leak test
		i)Practice & VIVA
15th	1st (Gr 1)(2p)	Viva question preparation
		i)Practice
		Viva question preparation
		i)Practice
15th	1st (Gr 2)(2p)	Viva question preparation
		i)Practice
		Complete charging of a domestic refrigerator and its leak test
		i)Practice & VIVA
15th	2nd (Gr 1)(2p)	Complete charging of a domestic refrigerator and its leak test
		i)Practice & VIVA
		Complete charging of a domestic refrigerator and its leak test
		i)Practice & VIVA
15th	2nd (Gr 2)(2p)	Complete charging of a domestic refrigerator and its leak test
		i)Practice & VIVA
		Complete charging of a domestic refrigerator and its leak test
		i)Practice & VIVA

Suprava Behera  
Signature of Faculty 29.06.2024