

**GOVERNMENT POLYTECHNIC, MALKANGIRI  
DEPARTMENT OF MECHANICAL ENGINEERING**

**LESSON PLAN**

Discipline: <b>Mechanical Engineering</b>	Semester: 5th	Name of the Teaching Faculty: <b>SATYABAN KOPE</b>
Subject: <b>REFRIGERATION AND AIR CONDITIONING LAB</b>	No. of days/week class allotted 4	Semester From date:14.07.2025 No. of Week: 15 To date:15.11.2025
<b>Course Outcomes</b>	1.Study the construction features of Domestic Refrigerator, water cooler, Window Air Conditioner, Split Air Conditioner 2.Determining the capacity, COP, of Refrigerator Test Rig, Window air Conditioner, Split Air Conditioner, Water cooler. 3.Evacuating the entire system 4.Locating the leakage in refrigerating system 5.Charging of the refrigerating system	
<b>Week</b>	<b>Class Day</b>	<b>Theory/Practical Topics</b>
1st	1st	Study the construction features of Domestic Refrigerator.
	2nd	Study the construction features of Domestic Refrigerator.
2nd	1st	Study the construction features of Domestic Refrigerator.
	2nd	Study the construction features of water cooler.
3rd	1st	Study the construction features of water cooler.
	2nd	Study the construction features of water cooler.
4th	1st	Study the construction features of window air conditioner
	2nd	Study the construction features of window air conditioner
5th	1st	Study the construction features of window air conditioner
	2nd	Study the construction features of window air conditioner
6th	1st	Study the construction features of split air conditioner
	2nd	Study the construction features of split air conditioner
7th	1st	Study the construction features of split air conditioner
	2nd	Determine the capacity and cop of vapour compression Refrigerator test rig
8th	1st	Determine the capacity and cop of vapour compression Refrigerator test rig
	2nd	Determine the capacity and cop of vapour compression Refrigerator test rig
9th	1st	Determine the capacity and cop of water cooler
	2nd	Determine the capacity and cop of water cooler
10th	1st	Determine the capacity and cop of water cooler
	2nd	Determine the capacity and cop of window air conditioner
11th	1st	Determine the capacity and cop of window air conditioner
	2nd	Determine the capacity and cop of window air conditioner
12th	1st	Determine the capacity and cop of split air conditioner
	2nd	Determine the capacity and cop of split air conditioner
13th	1st	Determine the capacity and cop of split air conditioner
	2nd	Determine the capacity and cop of vapour absorption Refrigerator test rig.
14th	1st	Determine the capacity and cop of vapour absorption Refrigerator test rig.
	2nd	Determine the capacity and cop of vapour absorption Refrigerator test rig.
15th	1st	Complete charging of a domestic refrigerator and its leak test
	2nd	Complete charging of a domestic refrigerator and its leak test

*Satyaban Kope*  
Signature of Faculty

*[Signature]*  
Signature of HOD/

*[Signature]*  
Signature of Principal

*[Signature]*  
Signature of Academic Coordinator