

Discipline: Mechanical engineering	Semester : 5 <sup>th</sup> Semester	Name of the Teaching faculty: C R Meher (Lect.)
Subject : REFRIGERATION AND AIRCONDITIONING Lab	No. of Days/Week Class Allotted: 60	No of weeks :18
Week	Class Day	Practical Topics
1 <sup>st</sup>	1 <sup>st</sup>	Introduction of RAC lab
	2 <sup>nd</sup>	Introduction of RAC lab
2 <sup>nd</sup>	1 <sup>st</sup>	Explain about different types of refrigeration system
	2 <sup>nd</sup>	Explain about different types of refrigeration system
3 <sup>rd</sup>	1 <sup>st</sup>	Explain about different types of air-conditioning system
	2 <sup>nd</sup>	Explain about different types of air-conditioning system
4 <sup>th</sup>	1 <sup>st</sup>	Explain the working of open & closed air system of air refrigeration system
	2 <sup>nd</sup>	Explain the working of open & closed air system of air refrigeration system
5 <sup>th</sup>	1 <sup>st</sup>	Explain the working of open & closed air system of air refrigeration system
	2 <sup>nd</sup>	Explain the working of open & closed air system of air refrigeration system
6 <sup>th</sup>	1 <sup>st</sup>	Determination of M.A.,V.R. and efficiency of wheel train
	2 <sup>nd</sup>	Determination of M.A.,V.R. and efficiency of wheel train
7 <sup>th</sup>	1 <sup>st</sup>	Determination of Bending stress in beam using strain gauge
	2 <sup>nd</sup>	Determination of Bending stress in beam using strain gauge
8 <sup>th</sup>	1 <sup>st</sup>	Study of Universal Testing Machine and determination of tensile stress and Young's module of M.S specification.
	2 <sup>nd</sup>	Study of Universal Testing Machine and determination of tensile stress and Young's module of M.S specification.
9 <sup>th</sup>	1 <sup>st</sup>	Explain Vapor Compression refrigeration system.
	2 <sup>nd</sup>	Explain Vapor Compression refrigeration system.
10 <sup>th</sup>	1 <sup>st</sup>	Explain Vapor Compression refrigeration system.
	2 <sup>nd</sup>	Explain Vapor Compression refrigeration system.
11 <sup>th</sup>	1 <sup>st</sup>	Explain Vapor Absorption refrigeration system.
	2 <sup>nd</sup>	Explain Vapor Absorption refrigeration system.
12 <sup>th</sup>	1 <sup>st</sup>	Explain Vapor Absorption refrigeration system.
	2 <sup>nd</sup>	Explain Vapor Absorption refrigeration system.

13 <sup>th</sup>	1 <sup>st</sup>	Compare different refrigerants properties.
	2 <sup>nd</sup>	Compare different refrigerants properties.
14 <sup>th</sup>	1 <sup>st</sup>	Compare different refrigerants properties.
	2 <sup>nd</sup>	Compare different refrigerants properties.
15 <sup>th</sup>	1 <sup>st</sup>	Describe equipment for air conditioning
	2 <sup>nd</sup>	Describe equipment for air conditioning
16 <sup>th</sup>	1 <sup>st</sup>	Describe equipment for air conditioning
	2 <sup>nd</sup>	Describe equipment for air conditioning
17 <sup>th</sup>	1 <sup>st</sup>	Explain the cooling load for the given requirement.
	2 <sup>nd</sup>	Explain the cooling load for the given requirement.
18 <sup>th</sup>	1 <sup>st</sup>	Explain the cooling load for the given requirement.
	2 <sup>nd</sup>	Explain the cooling load for the given requirement.