

MVSR Engineering College, Nadergul.
Department of Mechanical Engineering
COURSE OUTCOMES

Class: B.E.III Year II Sem (Mech. Engg.)

Name of the Course: **Refrigeration and Air Condition**

Course Code: ME 356

At the end of the course student is able to

CO no.	Course outcome	POs
M356.1	Identify various natural and artificial methods of refrigeration. State the importance of refrigerant selection and the environmental issues related to the use of CFCs	PO1, PO2, PO3, PO7, PSO1
M356.2	Formulate equations for different types of refrigerants used in vapour compression refrigeration system. Justify the selection of single or multi stage system based on operating temperature range	PO1, PO2, PO3, PO4
M356.3	Explain the working principles of vapour absorption, thermoelectric and steam-jet refrigeration systems. Select a suitable refrigerant absorbent mixture for Vapour absorption refrigeration system	PO2, PO3, PO5, PO6, PO7
M356.4	Define Psychrometry and its properties. Analyze various problems on psychrometric processes, know the construction and application of Psychrometric chart	PO1, PO2, PO3, PO4
M356.5	Able to design an air conditioning system based on given inside and outside conditions. Evaluate cooling and heating loads in an air-conditioning system	PO3, PO4, PO5, PO9, PSO2
M356.6	List typical conditions required for various food product processes and List applications of refrigeration and air conditioning	PO1, PO6, PO7, PO9, PO12