

Year & Sem:	Course Code:	Course Name: Thermal Engineering II	No. of Credits:	L	T&PS	P
	ME3503			2	2	0

History of Refrigeration and Air conditioning, Applications of Refrigeration and Air Conditioning, review of fundamentals of thermodynamics, fluid mechanics, heat transfer. Air Cycle Refrigeration Systems, Vapour Compression Refrigeration Systems, Vapour Absorption Refrigeration Systems, Refrigeration system components, Centrifugal Compressors, condensers, expansion devices, evaporators, refrigerants, psychrometry, Psychrometric Processes, Air conditioning systems for comfort, Infiltration and IAQ, Heating and Cooling load calculations, Air conditioning Systems, Fan and Duct Systems, Transport air conditioning Systems, Control systems for Refrigeration and Air conditioning applications.

References/Text Books:

- 1.Refrigeration & Air Conditioning /C.P. Arora/TMH
2. Refrigeration & Air Conditioning /Arora & Domkundwar/ Dhanpat Ra

Lecture Plan: Unit-I & -II syllabus for MID-I, Unit-III & -IV syllabus for MID-II and Unit-V & -VI syllabus for MID-III examinations.

Video Lectures (Web Links):

- 1.
- 2.

Study Materials (Web Links):

- 1.
- 2.

Problems & Solutions (Web Links):

- 1.
- 2.

Assignments (Web Links):

- 1.
- 2.