Course: Refrigeration And Air-Conditioning

Course Code: noc17-mm14

Session: 2017-18

Duration: 8 Weeks

Assessment procedures: Weekly Assignment (25%) + proctored certification Exam (75%)

Curriculum of the Course:

Week-1: Recapitulation of Thermodynamics, Introduction to Refrigeration, Air Refrigeration Cycle, Aircraft Refrigeration Cycles.

Week-2: Aircraft Refrigeration Cycles, Vapour Compression Cycle, P-h Charts, Actual Vapour Compression Cycle

Week-3: Actual Vapour Compression Cycle, Compound Compression with Intercooling, Multiple Evaporator and Cascade System, Problem Solving

Week-4: Refrigerants, Vapour Absorption Systems.

Week-5: Introduction to Air-conditioning, Properties of Moist Air, Psychrometric Chart, Psychrometric Processes.

Week-6: Psychrometric Processes, Infiltration Design Conditions, Cooling Load.

Week-7: Cooling Load, Air Distribution System, Problem Solving, Air-Conditioning Systems

Week-8: Human Physiology, Thermal Comfort, Indoor Environmental Health, Problem Solving

List of students enrolled

S. No	Name of Students
1	Ravindra Sharma
2	Deepesh Agrawal