INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

MECHANICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME – ACTION TAKEN REPORT

Name of the faculty:	**Mr. A. Somaiah**	Department:	**ME**
Regulation:	**IARE - R16**	Batch:	**2016 - 2020**
Course Name:	**Refrigeration and Air conditioning**	Course Code:	**AME017**
Semester:	**VII**	Target Value:	**60% (1.8)**

Attainment of COs:

Course Outcome		Direct attainment	Indirect attainment	Overall attainment	Observation
CO1	Identify the modifications required in an impossible reversed Carnot cycle to convert it into practical cycle for refrigeration applications.	0.90	2.20	**1.2**	Attainment target not reached
CO2	Illustrate the working principles, limitations of various refrigeration systems like practical aqua ammonia, LiBr-Water and Electrolux vapour absorption refrigeration systems.	1.60	2.10	**1.7**	Attainment target reached
CO3	Classify the equipment used for the refrigeration, air conditioning purposes with suitable materials and refrigerant pairs.	0.90	2.10	**1.1**	Attainment target not reached
CO4	Construct the sensible heat factor lines, locate alignment circle and SHF scale on a psychrometric chart for the cooling load calculations of refrigeration systems.	1.60	2.10	**1.7**	Attainment target reached
CO5	Explain thermal comfort conditions with respect to effective temperature, relative humidity, and their impact on human comfort, productivity and health.	1.60	1.80	**1.6**	Attainment target not reached
CO6	Classify the equipment required for air conditioning systems, study for operating principles, safety controls employed in air conditioning systems.	1.30	2.20	**1.5**	Attainment target not reached

1.46

Action taken report:

CO1: Additional Tutorial hours required to be discussed the modifications required in reversed Carnot cycle.
CO2: Additional Tutorial hours required to be discussed vapour absorption refrigeration systems.
CO4: More practice has to be given for psychrometric chart for the cooling load calculations of refrigeration systems.
CO3: More practice has to be given for air conditioning purposes with suitable materials.
CO5: More assignments have to be solved in thermal comfort conditions problems
CO6: More practice required to explain study for operating principles, safety controls employed in air conditioning

Course Coordinator **Mentor** **HOD**

Head of the Department
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