



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad-500043

MECHANICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME – ACTION TAKEN REPORT

Name of the faculty:	Dr. K.G.K Murti	Department:	ME
Regulation:	IARE-R16	Batch:	2016 -2020
Course Name:	Metallurgy and Material Science	Course Code:	AME005
Semester:	III	Target Value:	60% (1.8)

Attainment of COs:

	Course Outcome	Direct attainment	Indirect attainment	Overall attainment	Observation
CO1	Recall the concepts of basic crystallography and imperfections of various crystals for improving the performance of materials.	1.40	2.40	1.6	Attainment target not reached
CO2	Explain the concept of phase diagram and the basic terminologies associated with metallurgy to construction and identify the phase diagrams and reactions.	0.70	2.40	1	Attainment target not reached
CO3	Explain the mechanical behavior of materials to provide information for product designers in selecting materials for a given application.	0.70	2.40	1	Attainment target not reached
CO4	Make use of the properties of materials which affect the mechanical strength and ability of a material to be molded in suitable shape.	0.00	2.10	0.4	Attainment target not reached
CO5	Choose and suggest the heat treatment process and types for significance for finding force, torque and power.	0.00	2.40	0.5	Attainment target not reached
CO6	Examine features and classification of newer class material for better performance at lower cost, and less dependence on imports of strategic and critical materials.	0.00	2.40	0.5	Attainment target not reached

0.83

Action taken report:

CO1: Extra tutorial hours essential to discuss concepts of basic crystallography and imperfections of various crystals
 CO2: More practice has to be given for Construction and interpretation of phase diagrams
 CO3: Additional exercise required to explain Iron Carbon phase diagram and heat treatment
 CO4: More practice required to construct and explain the TTT diagrams.
 CO5: Extra tutorial hours essential to discuss non ferrous metals and alloys
 CO6: Additional Assignments has to be given for ceramics and composite materials

Course Coordinator

Mentor

HOD

Head of the Department
 Mechanical Engineering
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