INSTITUTE OF AERONAUTICAL ENGINEERING
(Autonomous)
Dundigal, Hyderabad - 500043, Telangana

MECHANICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	**Dr.CH SANDEEP**	Department:	**Mechanical Engineering**
Regulation:	**IARE - R20**	Batch:	**2020-2024**
Course Name:	**Materials Engineering**	Course Code:	**AMEC07**
Semester:	**III**	Target Value:	**60% (1.8)**

Attainment of COs:

	Course Outcome	Direct attaiment	Indirect attaiment	Overall attaiment	Observation
CO1	Recall the concepts of basic crystallography and imperfections of various crystals for improving the performance of materials.	1.60	2.30	1.7	Not Attained
CO2	Identify the atomic packing factor of unit cells of various crystal structures to study the properties of materials.	0.90	2.30	1.2	Not Attained
CO3	Choose the percentage of chemical composition of various materials to determine the proportions and identity of the major oxides of materials.	1.60	2.30	1.7	Not Attained
CO4	Explain the concept of phase diagram and the basic terminologies associated with metallurgy to construction and identify the phase diagrams and reactions.	2.30	2.30	2.3	Attained
CO5	Experiment with the structure of materials at different levels of crystalline materials for calculating atomic packing factor and co-ordination number.	0.90	2.30	1.2	Not Attained
CO6	Explain features and classification of newer class material for better performance at lower cost, and less dependence on imports of strategic and critical materials.	0.90	2.40	1.2	Not Attained

Action Taken:

CO1: More applications may be given on concepts of crystallography in finding imperfections of various crystals.
CO2: More hours are required on studying the properties of materials based on atomic packing factor.
CO3: More examples may be given on finding chemical composition of various materials.
CO5: More tutorials may be conducted on calculating atomic packing factor and co-ordination number.
CO6: More applications may be given on material for better performance.

Course Coordinator

Mentor

Head of the Department

Head of the Department
Mechanical Engineering
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