



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

MECHANICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME – ACTION TAKEN REPORT

Name of the faculty:	Mr. A VenuPrasad	Department:	ME
Regulation:	IARE - R16	Batch:	2017 - 2021
Course Name:	Additive Manufacturing Techniques	Course Code:	AME510
Semester:	VII	Target Value:	60% (1.8)

Attainment of COs:

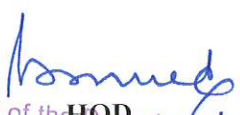
	Course Outcome	Direct attainment	Indirect attainment	Overall attainment	Observation
CO1	Execute the steps involved in making a prototype with desired method for automotive and medical industry components like cylinder valves, micro actuators and dental prosthesis etc.	1.60	2.50	1.8	Attainment target reached
CO2	Describe the properties and bonding techniques of liquid based 3D printing and various printing techniques in micro and macro scales.	0.90	2.50	1.2	Attainment target not reached
CO3	Explain the process parameters and techniques for producing components using solid as a base material.	2.30	2.40	2.3	Attainment target reached
CO4	Categorize various methods during liquid based additive manufacturing operation such as LOM, FDM and 3DP etc. for real time applications.	2.70	2.50	2.7	Attainment target reached
CO5	Explain the working principle of various Powder based Rapid prototyping processes and their application in industries for making of commercial prototypes.	2.40	2.50	2.4	Attainment target reached
CO6	Identify the appropriate Rapid Tooling process parameters for effective optimization of prototype / products using 3DP.	1.70	2.50	1.9	Attainment target reached

Action taken report:

CO2: Extra tutorial hour's essential to explain the bonding techniques of liquid based 3D printing techniques.


Course Coordinator


Mentor


Head of the Department
Mechanical Engineering
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