



**INSTITUTE OF AERONAUTICAL ENGINEERING**  
(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

**MECHANICAL ENGINEERING**

**ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT**

Name of the faculty: **Mr. P. VENKATA MAHESH** Department: **Mechanical Engineering**  
Regulation: **IARE - R20** Batch: **2020-2024**  
Course Name: **Thermal Engineering** Course Code: **AMEC20**  
Semester: **V** Target Value: **60% (1.8)**

**Attainment of COs:**

Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1 Recall the thermodynamic processes, working and analyses of combustion, vapor power cycles for electrical and mechanical power.	0.70	2.20	1	Not Attained
CO2 Interpret various concepts, principles of operation, theories and phenomena related to the boilers and nozzles.	0.00	2.20	0.4	Not Attained
CO3 Develop the performance parameters of the steam turbine and reaction turbine for maximum efficiency, thermodynamic analysis of a stage, degree of reaction, velocity diagram.	0.90	2.30	1.2	Not Attained
CO4 Demonstrate the principles of operation, classification, working, accessories and mountings of various steam generators and condensers.	0.30	2.20	0.7	Not Attained
CO5 Identify the working principles and analyses of combustion, gas power cycles for producing electrical and mechanical power.	2.10	2.20	2.1	Attained
CO6 Demonstrate the principles, methodologies and variations in the configurations of thermal gas turbomachinery and rocket propulsion based on the availability of resources.	1.70	2.20	1.8	Attained

**Action Taken Report: (To be filled by the concerned faculty / course coordinator)**

CO1: More problems to be solved on the analysis of vapor power cycles.

CO2: More problems to be solved on performance of nozzles.

CO3: More problems to be solved on analysis of performance of the steam turbines.

CO4: Assignments to be given on the principles of operation, classification, working, accessories and mountings of various steam generators and condensers.

Course Coordinator

M. Sunil Kumar  
Mentor

Head of the Department

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Mechanical Engineering  
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