



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

ELECTRICAL AND ELECTRONICS ENGINEERING

ATTAINMENT OF COURSE OUTCOME – ACTION TAKEN REPORT

Name of the faculty:	Mr. T Anil Kumar	Department:	EEE
Regulation:	IARE - R16	Batch:	2017 - 2021
Course Name:	Electromagnetic Field Theory	Course Code:	AEE006
Semester:	III	Target Value:	60% (1.8)

Attainment of COs:

Course Outcome		Direct attainment	Indirect attainment	Overall attainment	Observation
CO1	Make use of Vector Calculus, Coulomb's Law and Gauss Law for obtaining electric field intensity, Potential and behavior of electrostatic field	3	2.6	2.9	Attainment target is reached.
CO2	Calculate the capacitance of different physical configuration based on the behavior of the conductors and dielectric materials.	0.6	2.6	1	Attainment target is not yet reached.
CO3	Demonstrate Biot-Savart law and Ampere circuital law for derivation of magnetic field intensity due to different current carrying conductors.	0.6	2.6	1	Attainment target is not yet reached.
CO4	Predict the force due to moving charge/current in the static magnetic field, thereby obtaining the inductance for different configurations of wires and energy stored in the coil.	0.9	2.6	1.2	Attainment target is not yet reached.
CO5	Apply the Faraday's law of Electromagnetic induction and Maxwell's equations to produce a wave equation for the free- space, insulators and conductors for propagation of electromagnetic waves.	0.9	2.6	1.2	Attainment target is not yet reached.

Action taken report:

- CO 2: Need to provide more real life problems to understand physical configuration based on the behavior of the conductors and dielectric materials
- CO 3: Provide more problems and assignments on Biot Savart's law, and also additional digital resources which enables the students to gain more problem-solving skills.
- CO 4: Take more classes and practice more problems during tutorial classes on static magnetic field.
- CO 5: Allot more topics on concept video and need to provide more assignments, e-content for better understanding of Faraday's law and electromagnetic waves.


Course Coordinator


Mentor


HOD

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