INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)
Dundigal, Hyderabad - 500 043

ELECTRONICS AND COMMUNICATION ENGINEERING

ATTAINMENT OF COURSE OUTCOME- ACTION TAKEN REPORT

Name of the Faculty:	Ms. M Sreevani	Department:	ECE
Regulation:	IARE-R16	Branch:	2016-2020
Course Name:	Electromagnetic Theory and Transmission Lines	Course Code:	AEC007
Semester:	IV	Target Value:	60% (1.8)

Attainment of Cos:

	Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observations
CO1	Describe fundamental laws (Coulomb's and Gauss's) of electrostatic fields to evaluate the field intensity and flux density of continuous charge distributions.	3.00	2.50	2.9	Attained
CO2	Demonstrate Biot-Savart's law and Ampere's circuit law to determine forces due to magnetic fields.	0.90	2.40	1.2	Not attained
CO3	Apply Maxwell's equations and their applications to time varying fields and boundary conditions.	2.30	2.40	2.3	Attained
CO4	Construct the wave equations for both conducting and dielectric media to derive the relation between electric and magnetic field intensities.	0.90	2.40	1.2	Not attained
CO5	Understand the propagation of electromagnetic waves through different media using the concept of uniform plane waves.	0.90	2.40	1.2	Not attained
CO6	Make use of the smith chart as a graphical tool to solve impedance matching issues in transmission lines.	3.00	2.50	2.9	Attained

Action Taken Report: (To be filled by the concerned faculty / course coordinator)
In this Course, the CO2, CO4, and CO5 requires additional attention and it is improved by

1. Conducting Guest lectures on electrostatic fields to evaluate the field intensity and flux density of continuous charge distributions.
2. Additional inputs will be provided on Biot-Savart's law, Ampere's circuit law and Maxwell's equations.
3. Giving assignments and conducting tutorials on the propagation of electromagnetic waves through different media.

Course Coordinator

Mentor

HOD

Head of the Department
Electronics and Communication Engineering
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