



# 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. A Usharani	Department:	ECE
Regulation:	IARE-R16	Branch:	2017-2021
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.	0.9	2.3	1.2	Attainment target is not reached
CO2	Demonstrate Biot-Savart's law and Ampere's circuit law to determine forces due to magnetic fields.	1.6	2.3	1.7	Attainment target is not reached
CO3	Apply Maxwell's equations and their applications to time varying fields and boundary conditions.	0.9	2.3	1.2	Attainment target is not yet reached
CO4	Construct the wave equations for both conducting and dielectric media to derive the relation between electric and magnetic field intensities.	0.9	2.3	1.2	Attainment target is not yet reached
CO5	Understand the propagation of electromagnetic waves through different media using the concept of uniform plane waves.	0.9	2.3	1.2	Attainment target is not reached
CO6	Make use of the smith chart as a graphical tool to solve impedance matching issues in transmission lines.	2	2.3	2.1	Attainment target reached

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

Co 1: Conducting Guest lectures on electrostatic fields to evaluate the field intensity and flux density of continuous charge distributions.

CO 2: Additional inputs will be provided on Biot-Savart's law, Ampere's circuit law.


CO 3: Additional inputs and assignments will be provided on Maxwell's equations

CO 4: Giving assignments and conducting tutorials on the propagation of electromagnetic waves through different media.

CO 6: Need to solve more problems on smith chart as a graphical tool to solve impedance matching issues in transmission lines

  
Course Coordinator

  
Mentor

  
HOD  
Head of the Department  
Electronics and Communication Engineering  
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