



# 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-UG 20	Branch:	ECE
Course Name:	Electromagnetic Waves and Transmission Lines	Course Code:	AECC11
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.	0.90	2.20	1.2	Attainment target is not yet reached
CO2	Demonstrate Biot-Savart's law and Ampere's circuit law to determine forces due to magnetic fields.	1.70	2.20	1.8	Attainment target reached
CO3	Apply Maxwell's equations and their applications to time varying fields and boundary conditions.	0.00	2.20	0.4	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.	0.90	2.20	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.	3.00	2.20	2.8	Attainment target reached
CO6	Make use of the smith chart as a graphical tool to solve impedance matching issues in transmission lines.	2.30	2.20	2.3	Attainment target reached

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

CO1: Additional inputs will be provided on fundamental laws of electrostatic fields.  
CO3: Giving assignments and conducting tutorials on Maxwell's equations to time varying fields.  
CO4: Practice tests are conducted on the analysis of wave characteristics of electromagnetic fields.

  
Course Coordinator

  
Mentor

  
HOD  
**Dr. P. Ashok Babu, M.E. Ph.D**  
Professor & Head  
Electronics & Communication Engineering  
Institute of Aeronautical Engineering  
Dundigal, Hyderabad- 500 043. T.S.