INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)
Dundigal, Hyderabad - 500 043

ELECTRONICS AND COMMUNICATION ENGINEERING

ATTAINMENT OF COURSE OUTCOME- ACTION TAKEN REPORT

Name of the Faculty:	**Dr. P.Ashok Bbau**	Department:	**ECE**
Regulation:	**IARE-R18**	Branch:	**2018-2022**
Course Name:	**ELECTROMAGNETIC WAVES AND TRANSMISSION LINES**	Course Code:	**AECB13**
Semester:	**IV**	Target Value:	**60% (1.8)**

Attainment of Cos:

Course Outcome		Direct Attainment	Indirect Attainment	Overall Attainment	Observations
CO1	Describe fundamental laws (Coloumb's and Gauss's) of electrostatic fields to evaluate the field intensity of continuous charge distributions	2.3	2.1	2.3	Attainment target reached
CO2	Demonstrate Biot-Savart's and Ampere's circuit law to determine forces due to magnetic fields	1.6	2.1	1.7	Attainment target is not yet reached
CO3	Apply Maxwell's equations and their applications to time varying fields and boundary conditions.	1.6	2.1	1.7	Attainment target is not yet reached
CO4	Construct the wave equations for both conducting and dielectric media to derive the relation electric and magnetic field intensities	0.6	2.1	0.9	Attainment target is not yet reached
CO5	Understand the propagation of electromagnetic waves through different media using the concept of uniform plane waves	0	2.2	0.4	Attainment target is not yet reached
CO6	Make use of the smith chart as a graphical tool to solve impedance matching issues in transmission lines	0.7	2.2	1	Attainment target is not yet reached

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

CO2: Conducting Guest lectures on Biot-Savart's and Ampere's circuit law for more practice
CO3: Giving assignments and conducting tutorials on data linear block and cyclic codes for more practice
CO4: Practice tests are conducted on Maxwell's equations and their applications to time varying fields and boundary conditions for more practice.
CO5: Giving assignments and conducting tutorials on concept of uniform plane waves for propagation of electromagnetic waves through different media.
CO6: Giving assignments and conducting tutorials on the smith chart as a graphical tool to solve impedance matching issues in transmission lines for more practice.

Course Coordinator **Mentor** **HOD**

Head of the Department
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