



# 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. V Kishen Ajay Kumar	Department:	ECE
Regulation:	IARE-R16	Batch:	2016-2020
Course Name:	Antennas and Propagation	Course Code:	AEC011
Semester:	V	Target Value:	60% (1.8)

### Attainment of Cos:

Course Outcome		Direct Attainment	Indirect Attainment	Overall Attainment	Observations
CO1	Compare the basic antenna parameters and antenna theorems using electromagnetic field theory to measure radiation characteristics of antennas.	0.90	2.50	1.2	Not Attained
CO2	Illustrate array system of antennas and field analysis under application of currents for the individual antenna elements to increase gain.	0.00	2.50	0.5	Not Attained
CO3	Classify the frequency ranges of operation and applications of antennas to achieve greater radiation efficiency over extremely wide bandwidth.	2.00	2.50	2.1	Attained
CO4	Identify antennas based on frequency using feeding methods for specific applications to improve directional characteristics.	1.30	2.50	1.5	Not Attained
CO5	Apply the concepts of radiation mechanism to measure antenna parameters for given specifications.	1.60	2.50	1.8	Attained
CO6	Summarize modes of radio wave propagation in the atmosphere at VHF and microwave frequencies to estimate the parameters of wave propagation.	0.90	2.50	1.2	Not Attained

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

In this Course, the CO1, CO2, CO4, and CO6 requires additional attention and it is improved by

1. Conducting Guest lectures on antenna parameters, theorems, array systems of antenna fields and feeding methods.
2. Additional inputs will be provided on antenna theorems, field analysis under application of current for individual antenna for more understanding.
3. Giving assignments and conducting tutorials on wave propagation modes at VHF and microwave frequency for more practice.
4. Practice tests are conducted on feeding methods and wave propagation

  
Course Coordinator

  
Mentor

  
HOD

Head of the Department  
Electronics and Communication Engineer  
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