



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.P Annapurna	Department:	ECE
Regulation:	IARE-R16	Batch:	2016-2020
Course Name:	Microwave Engineering	Course Code:	AEC015
Semester:	VII Semester	Target Value:	60% (1.8)

Attainment of Cos:

Course Outcome		Direct Attainment	Indirect Attainment	Overall Attainment	Observations
CO1	Recall the concepts of transmission lines and waveguides to measure the field components of wave equations in Rectangular modes	0.90	2.60	1.2	Not attained
CO2	Illustrate the principle of waveguide components which are used to couple microwave power from the waveguide system to make the relation between input and output power.	0.90	2.60	1.2	Not attained
CO3	Apply the concept of S-Matrix to measure output power in microwave junctions and directional couplers	0.90	2.60	1.2	Not attained
CO4	Demonstrate the operation of microwave tubes, solid state devices for the generation and transmission of the microwave frequencies	0.90	2.60	1.2	Not attained
CO5	Describe avalanche transit time devices and their modes for determining the noise figure, operating frequency range and output power	2.00	2.60	2.1	Attained
CO6	Analyze microwave test bench setup to measure microwave parameters at microwave frequency	3.00	0.00	2.4	Attained


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

In this Course, the CO1, CO2, CO3, CO4 requires additional attention and it is improved by

1. Conducting Guest lectures on concepts of transmission lines and waveguides to measure the field components of wave equations.
2. Additional inputs will be provided on the principle of waveguide components which are used to couple microwave power from the waveguide system for better understanding.
3. Giving assignments and conducting tutorials on avalanche transit time devices and their modes for determining the noise figure, operating frequency range and output power for more practice.
4. Practice tests are conducted on the operation of microwave tubes, solid state devices for the generation and transmission of the microwave frequencies


Course Coordinator


Mentor


HOD
Head of the Department
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