

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Waveguides- planar	5	3	2
Modes (TEM, TE, and TM) general field equations	5	3	2
Rectangular Waveguide, Circular Waveguide (modes, power, attenuation 1st Midterm	15	9	6
Cavity resonators: resonance frequency- quality factor	15	9	6
2nd Midterm Filters- insertion loss- maximally flat, equal ripple- LPF, HPF, BPF, and BSF	15	9	6
Impedance . Frequency scaling, and implementation	20	12	8

Teaching And Learning Methodologies :

Interactive Lecturing
Discussion
Problem Solving
Experiential Learning

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
Assignments	10.00		
Final Exam	40.00		
Lab	10.00		
midterms	30.00		
quizzes	10.00		

Recommended books :

R.E.Collin, " Foundation for Microwave Engineering" Wiley, 2001