

## SRI VENKATESWARA COLLEGE OF ENGINEERING

## COURSE DELIVERY PLAN - LABORATORY

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Department of Electronics and Communication Engineering

Regulation: R2022

LP: EC22611

B.E/B.Tech/M.E/M.Tech: ECE

: Not Applicable

Rev. No: 00

PG Specialization

Date:22.01.2025

Sub. Code / Sub. Name: EC22611/ANTENNA AND MICROWAVE ENGINEERING

LABORATORY

Session No*	List of Experiments		
	MICROWAVE BASED EXPERIMENTS		
1	Verification of mode characteristics of reflex klystron		
2	Study of V-I characteristics of the Gunn diode		
3	Study of characteristics of three port circulator and two port isolator		
4	Study and measurement of indirect frequency and guide wavelength of rectangular waveguide		
5	S Matrix formulation of a Directional coupler		
6	Measurement of VSWR and reflection coefficient for the given unknown load using slotted line technique.		
	SIMULATION BASED EXPERIMENTS		
8	Design and analysis of Rectangular Waveguide		
9	Design and analysis of a microstrip transmission line with characteristic impedance (Z0) 50 ohm		
10	Design of a rectangular microstrip patch antenna and analyze its radiation characteristics.		
11	Design and analysis of 3 element Yagi-Uda antenna and calculate beam-width, front/back ratio, and gain of the antenna.		
12	Construction of E-plane, H-plane and Magic Tee junctions and compare its field distributions.		
	Design of an array antenna		
	Design and analysis of microstrip LPF		
Content housen	d syllahus (if any):		

Content beyond syllabus (if any):

- 1. Analog and Digital Link
- 2. Measurement of Numerical Aperture

<sup>\*</sup> Session Duration: 150 minutes



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Remarks\*:

Name:

EC22611/ANTENNA

AND

**MICROWAVE** 

**ENGINEERING** 

	Prepared by	Approved by
Signature	C garal Rol   Kbaley	assamm)
Name	Mrs.K.Srividhya, Mr.S.Senthilrajan, Mr.P.Muhtukumaran, Mrs.C.Gomatheeswari Preethika & Mr.L.K.Balaji Vignesh	Dr. G.A. Sathish Kumar
Designation	Assistant Professor	Professor and Head
Date	22.01.2025	22.01.2025

<sup>\*</sup> If the same lab plan is followed in the subsequent semester/year it should be mentioned and signed by the Faculty and the HOD