







Lesson Plan & Work-done Diary for AY: 2025-26, ODD Semester

Course with Code: Microwave Engineering & Antenna Theory						Semester:7 th			
Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	Class No.	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation	
	MODULE-0								
1		Basics of Vector calculus & Maxwell's equations and wave theory,	Chalk &Talk						
2		Electromagnetic field theory basics	Chalk &Talk						
3		Introduction to Signals and systems	Chalk &Talk						









Course	with Code: 1	Semester:7 th						
Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	Class No.	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
		-		MODU	JLE-1		1	
1		Microwave Sources: Introduction,						
2		Microwave Sources: Gunn Diode						
3		Microwave transmission lines: Microwave frequencies, Microwave devices, Microwave systems						
4		Transmission line equations and solutions,						
5		Reflection Coefficient and Transmission Coefficient						
6		Standing wave and standing wave ratio						
7		Smith chart: Single stub matching						
8		Quiz-1 & Problrms						









Course	with Code:	Microwave Engineering & Ante	enna Theory				Semester:7 th	
Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planne	ed Class	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
				MODUI	LE-2			
9		Microwave Network Theory: Introduction,						
10		S matrix representation of multi-port networks						
11		S matrix representation of multi-port networks						
12		Microwave passive devices: Coaxial connectors and Adapters						
13		Attenuators, Phase shifters						
14		Waveguide Tees, Magic Tee,						
15		Circulator, Isolator.						
16		Quiz-2 and Problem Based Learning						









Course with Code: Theory		Microwave Engineering & Antenna		Faculty	Name: M	Irs. Keerthi A Ku	Semester:7 th		
Class No.	Date planned (DD/MM)	Topics to be covered	TLP Plan	ned	Class No.	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
		1			M	ODULE-3			
17		Strip Lines: Introduction							
18		Microstrip lines							
19		Parallel Strip lines.							
20		Antenna Basics: Introduction							
21		Basic Antenna Parameters, Patterns, Beam Area, Radiation Intensity							
22		Beam efficiency, Directivity and Gain, Antenna Aperture Effective height							
23		Bandwidth, Radio communication Link, Antenna Field Zones.							
24		Problems and Quiz-3 (SRS)							









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	MODULE-4										
25		Point sources and arrays: Introduction									
26		Point Sources, Power patterns, Power theorem, Radiation Intensity									
27		Arrays of 2 isotropic point sources									
28		Pattern multiplication									
29		Linear arrays of n Isotropic sources of equal amplitude and Spacing.									
30		Electric Dipole: Introduction, Short Electric dipole									
31		Fields of a short dipole, Radiation resistance of a short dipole									
32		Thin linear antenna (field analysis).									









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	MODULE-5										
33		Loop and Horn antenna: Introduction: Small loop,									
34		Comparison of far fields of small loops and short dipole									
35		Radiation resistance of small loop									
36		Horn Antennas, Rectangular antennas.									
37		Antenna Types: Yagi Uda array, Parabolic Reflector									
38		Microstrip Antennas, Features of Microstrip Antennas									
39		Practical based Learning									
40		Quiz – 4 & 5 (SRS)									









Sl. No	Activity	Planned	Actual	Remarks	
1	Theory Classes	41			
2	Assignments/ Quizzes/ Self-study	5			
3	Tutorials/ Extra classes	Tutorials/ Extra classes 3			
4	Internal Assessments	3			
5	ICT based Teaching (% of usage in Curriculum)	35			
	Planning		Execution		
Faculty Si	gnature:		Faculty Signature:		
HoD Signa	ature:		HoD Signature:		