

Electronics and Communication Engg. Department
Session 2024-25 (6th Semester)
Subject : Microwave and Radar

Load:- L-2 P-2

Week	Theory		Practical day	Topic
	Lecturer	Topic Covered		
1st	1st	Classification on the basis of frequency band	1st	To measure electronics and mechanical tuning range of reflex klystron
	2nd	Introduction to Microwave and its Applications		
2nd	1st	Introduction to Microwave devices		
	2nd	Twp Cavity Klystron Ampilifier		
3rd	1st	Reflex Klystron	2nd	Measure VSWR of a given load.
		Two Cavity Klystron Ampilifier		
	2nd	Two Cavity Klystron Ampilifier		
4th	1st	Gun Diode		
	2nd	Impatt Diode		
		Revision		
5th	1st	Introduction to Waveguide	3rd	To measure the klystron frequency by slotted section method.
		Rectangular and Circular waveguide		
	2nd	Mode of propagation		
		Propagation constant of rectangular waveguide		
6th	1st	*Relation ship between Guided wavelength and free space wavelength		
	2nd	Cutoff Wavelength, guided wavelength		
		Discussion of Microwave components		
		* Tee * Bends * Termination		
7th	1st	* Isolator * Circulator	4th	To measure the directivity and coupling of a directional coupler.
		Directional coupler		
	2nd	Attenuator		
8th	1st	Horn Antenna		
		Revision		
	2nd	Revision		
9th	1st	About Microwave Communication	5th	To plot radiation pattern of a horn antenna in horizontal and vertical planes
	2nd	About Microwave Communication		
10th	1st	Troposphere And Charcaterstics		
	2nd	Troposcatter Communication		
11th	1st	Introduction to Radar.Radar range equation, block diagram and operating principal of basic pulse radar	6th	To verify the properties of magic tee.
	2nd	concepts of ambiguous range ,CW Radar		
12th	1st	operatin of MTI radar, Radar display PPI		
	2nd	Check assignment		

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