

National Institute of Technology Meghalaya

An Institute of National Importance

CURRICULUM

Programme		DG1.															
														2018-19			
D	epartme	ent Electronics and Communication Engineering							Credit Structure			S	Semester VI			<u>T</u>	
Course Code		Course Name								CONTINUO			Marks Distribu VIV				
									L	T	P	С	EVALUATION			Total	
EC 354		RF & Microwave Engineering Laboratory To develop the student's ability to understand the Microwave bench							0	1	2	2	70	icrowaya banch and analysa			
Course Objectives		and filters.							CO1	Will develop understanding on Microwave bench and analyse microwave filter using simulation tool					alyse		
		Develop the understanding of the characteristics of microwave devices. To develop the analytical understanding of waveguides and their boundary condition.							Course Outcomes	CO2	Implement a waveguide using simulation tools and develop understanding on boundary condition					nalyse its	
										CO3							
		Mapping with Program Outcomes (I									CO4 Mapping with						
No.	COs	PO1	PO2	PO3	PO4	PO5	PO6	Program PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSOs PSO3	
1	CO1	3	3	2	1	3	1	107	1	3	1	2	2	2	2	1	
2	CO2	2	2	2	2	3	1	1	1	3	1	2	2	2	2	1	
3	CO3	2	2	2	2	3	1	1	1	3	1	2	2	3	3	1	
4	CO4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5	CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6	CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
									LLABUS								
lo.		Content												Hours		COs	
I	Introdu	action on	Microwave	Bench.													
II	To Study Microstrip Band Pass and Band Stop Filters. To Plot V-I Characteristics Of Gunn Diode.																
[V	To Plot Mode Characteristics Of Reflex Klystron.													14	CO1, CO2		
V	To Study Fundamental Mode of Rectangular waveguide															CO3	
VI	To Study Effect of Metallic Post Loading on Rectangular waveguide																
VII	To Study Effect of Drilling Hole Along Broad Wall & Narrow Wall Direction of Waveguide Using Electromagnetic Boundary Condition																
						Te	otal Hours	S						14	14		
	tial Re																
			"Microwave														
			F & Microw	vave Engine	ering", W	iley, 2 nd ed	ition, 2012	2									
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3	RS					(111100) /	/										