A THE DE TREMOLOGIA

National Institute of Technology Meghalaya

An Institute of National Importance

CURRICULUM

	OF TECHNOU																	
Programm		Bachelor of Technology in Electronics and Communication Engineering Year of Regulation												2018-19				
Departmen		nt Electronics and Communication Engineering Semester												V				
Co	ırse	Credit Structure											Marks Distribution					
Code EE 353		Course Name Electromagnetic Waves & Radiating Patterns Laboratory							L 0	Т 1	Р	C	CONTINUOS EVALUATIO		VIVA 30		Total 100	
											2	2	70	30				
Course Objectives		To develop the student's ability to analyse the radiation related								CO1	Implement a radio frequency antenna using simulation tools							
		issues and introduction to the simulator. CO1 To develop the ability to design and study on the antenna Will develop understanding on pr											actical scene	rio RE a	ntenna d	esian		
		characteristics.																
		To develop the ability and concepts of the RF antenna designing Outcomes CO3 Work in teams to plan and execu																
	-	paramete	rs.						-	CO4			•					
		Mapping with Program Outcomes (POs)													Mapping with PSOs			
No.	COs	DO1	PO2	DOJ	DO 4			-		,	PO10	DO11	DO12			PSO3	PSO	
		PO1		PO3	PO4	PO5	PO6	PO7	PO8	PO9	POIU	PO11	PO12	PSO1	PSO2		4	
1	CO1	3	3	2	1	3	1	1	1	3	1	2	2	3	3	2	-	
2	CO2	3	3	2	1	3	1	1	1	3	1	2	2	3	3	2	-	
3	CO3	3	3	2	1	3	1	1	1	3	1	2	2	3	3	2	-	
4	CO4	-		<u> </u>	-	-	-				-	-	-	-	-	-	-	
5	CO5 CO6	-			_		-							-	-	-	-	
6	000	-		<u> </u>										-	-	-		
No.	Content												Hours	s COs				
Ι	To Stu	dy Radiat	ion Pattern	of Dipole	Antenna i	n Two Pla	nes											
II	To Study Effects of Parasitic Elements in Yagi-Uda Antenna																	
III	To Stu	Stalla Connet Distillation on Disella Antonna																
III	10 Stu	o Study Current Distribution on Dipole Antenna CO1, CO2,														02,		
IV	To Stu	dy Radiat	ion Pattern	of Micros	strip Anter	inas								14		CO3	,	
V	To Do	aion & T	at Haliaal	Antonnog														
v	To Design & Test Helical Antennas																	
VI	To Des	sign & Te	st Loop An	itennas														
VII	To Stu	dy Gain a	f Different	Antonnos														
V II	10 Stu	uy Gam o	1 Different	Antennas														
						T	Total Hours							14				
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2					•		•		ystems", Prer	-		ion, 1964						
3				,	U		akashan, 2r	U	•		,	,						
4					* *	-				tion", Ta	ta McGrav	w-Hill, 5t	h Edition,2017					
5	. Bala	nis Consta	ntine A., "	Antenna T	Theory, An	alysis and	Design", J	ohn Wi	ley & Sons, 4	th Editio	n, 2016							
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6. Harish A. R. and Sachindananda M., "Antennas and Wave Propagation", Oxford University Press, 1st Edition, 2006