A PIL STORY OF TECHNOLOGY			National Institute of Technology Meghalaya An Institute of National Importance											CU	CURRICULUM			
Pı	rogramn	ne	Bachelor of Technology in Electronics and Communicati						ion Enginee		Year of Regulation				2018-19			
Department			Electronics and Communication Engineering						Semester			Semester	Ш					
Co	Course Code									Credit St	ructure			Marks D	istributio	on		
			Course Name						L	T	P	С	CONTINUOS EVALUATION		TVA Total			
EC	EC 251		Electronic Devices Lab							0	2	1	70	(30 100			
		To understand the fundamentals of electronic devices CO1 Will develop understanding on									derstanding on ele	ctronic d	evices a	nd TCAD	tool			
Course Objectives		To understand the concepts of junction diode and transistors							Course	CO2	Will de	Will develop understanding on IV and CV of the junction diode					de	
											derstanding on IV	on IV and CV of the BJT and FET						
No.		Mapping with Program Outc							outcomes (PC)s)	<u> </u>			Mappin		ng with PSOs		
	COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2			
1	CO1	2	3	2	-	-	_	_	-	-	-	-	-	3	1	_	-	
2	CO2	3	3	2	_	_	_	_	_	_	_	_	-	3	1	_	-	
3	CO3	3	2	3	_	-	_	_	_	-	_	_	-	3	1	_	_	
								;	SYLLABUS									
No.		Content												Hours		COs		
III III IV V VI VII													CO1, CO2, CO3					
VIII																		
Total Hours														12				
	ntial Re																	
									earson, Sev									
					•				Hill Educat		d Edition	, 2007						
3	. C.C.	Hu, "N	Modern S	Semiconduc	tor Device	es for Inte	grated Ci	rcuits", F	Pearson, 201	0.								

3. C.C. Hu, "Modern Supplementary Readings

- 1. S. M. Sze and K. N. Kwok, "Physics of Semiconductor Devices", John Wiley & Sons, Third Edition, 2006.
- 2. C.T. Sah, "Fundamentals of solid state electronics," World Scientific Publishing Co. Inc, 1991.
- 3. Y. Tsividis and M. Colin, "Operation and Modeling of the MOS Transistor," Oxford Univ. Press, 2011...