

KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL

MINOR DOMAIN: FOUNDATIONS OF COMPUTING IN ELECTRONICS & COMMUNINICATION ENGINECRING (MDEC) -MINOR DOMAIN: FOUNDATIONS OF COMPUTING CURRICULUM

S.No	Course Type	CourseCode	Course Name (Npte lCourse Id)	Course Duration (wks)	Credit
-		Core Courses (any 4courses)			
1		U18MDEC1001A	Phase-Locked Loops	12 Weeks	
	Core		Fundamentals of Nano and Quantum Photonics	12 Weeks	8-12 eeks
2	Courses	U18MDEC1002	VLSI Design Flow: RTL to GDS	12 Weeks	
3		U18MDEC1003		12 Weeks	
4		U18MDEC1004	Real-Time Digital Signal Processing	12 Weeks	
5		U18MDEC1005	Principles and Techniques of Modern Radar Systems	12 Weeks	
6		U18MDEC1006	Design and Simulation of Power Conversion using Open Source Tools	12 Weeks	
7		U18MDEC1007	Enclosure Design of Electronics Equipment	12 Weeks	
8		U18MDEC1008		12 Weeks	
-		Elective Courses (any 2courses)			
9	Elective Courses	U18MDEC1009	Machine Learning and Deep Learning - Fundamentals and Applications	12 Weeks	4-6
10		U18MDEC1010	RFIC Design	12 Weeks	
11		U18MDEC1011	Signal Processing Algorithms and Architectures	12 Weeks	
12		U18MDEC1012	Microsensors and Nanosensors	12 Weeks	
-		Laboratory Courses (any2courses)			
13	Laborato	U18MDEC1013	VLSI Design Laboratory		
14	ry	U18MDEC1014	Advanced Communication Laboratory		
15	Courses	U18MDEC1015	Signal Processing and Applications Laboratory	99.	2
16		U18MDEC1016	Antenna Design Laboratory		
17	Mini- project (optiona)	U18MDEC1017	Mini-project (optional)		2
			Total Credits		18