KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
MINOR DOMAIN IN PROGRAMMING (MDCS)
MINOR DOMAIN CURRICULUM

S.No	Course Type	Course Code	Course Name	Credits
-	Core Courses	*Core Courses (any 4 courses)*		
1		U18MDCS1001	Programming, Data Structures and Algorithms using Python	8-12
			Data Structure and Algorithms using Java	
2		U18MDCS1002	Programming in C++	
			Programming in Modern C++	
			An Introduction to Programming Through C++	
3		U18MDCS1003	Programming in Java	
			Object Oriented System Development Using UML, Java and Patterns	
			Fundamentals of Object-Oriented Programming	
4		U18MDCS1004	Data Base Management System	
			Introduction to Database Systems	
-	Elective Courses	*Elective Courses (any 2 courses)*		
5		U18MDCS1005	Data Science for Engineers	4-6
6		U18MDCS1006	Cloud Computing	
7		U18MDCS1007	Introduction to Internet of Things	
8		U18MDCS1008	Introduction to Machine Learning - IITKGP	
9		U18MDCS1009	Introduction to Machine Learning	
			Modern Application Development	
101		U18MDCS1010	Human Computer Interaction (In English)	
11		U18MDCS1011	Large Applications Practicum	
12		U18MDCS1012	Data Structures and Algorithms Design	
13		U18MDCS1013	Programming with Generative AI	
-	Laboratory Courses	*Laboratory Courses (any 2 courses)*		
14		U18MDCS1014	Full Stack Web Development Lab	2
15		U18MDCS1015	Advanced Programming Lab with Competitive Coding	
16		U18MDCS1016	Applied Machine Learning & Generative AI Lab	
17		U18MDCS1017	Secure Programming & DevSecOps Lab	
18	Mini-project (optional)	U18MDCS1018	Mini-project (optional)	2
			Total Credits	**18**