KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL
DEPARTMENT OF COMPUTER SCIENCE ENGINEERING
MINOR CURRICULUM

MINOR IN COMPUTER SCIENCE AND ENGINEERING (MCS)
MINOR CURRICULUM - 1

[For *circuit branches: E&IE, EEE, ECE and ECI*]

S.No	Course Type	Course Code	Course Name	Credits
1	**Minor Compulsory Courses**	U18MCS1001	Data Base Management System	
2		U18MCS1002	Software Engineering	
3		U18MCS1003	Programming, Data Structures And Algorithms Using Python	
		Elective courses (any 3 to 6 courses)		
4		U18MCS1004	Introduction to Automata, Languages and Computation	
5		U18MCS1005	Operating Systems	
6		U18MCS1006	Compiler Design	
7		U18MCS1007	Computer Networks and Internet Protocol	
8		U18MCS1008	Cryptography and Network Security	
9	**Minor Elective Courses**	U18MCS1009	Artificial Intelligence	18
10		U18MCS1010	Machine Learning	
11		U18MCS1011	Data Mining	
12		U18MCS1012	Design and analysis of algorithms	
13		U18MCS1013	Cloud Computing	
14		U18MCS1014	Introduction to internet of things	
15		U18MCS1015	Social Networks	
16		U18MCS1016	Data Science for Engineers	
17		U18MCS1017	Big Data Computing	
18		U18MCS1018	Deep Learning for Computer Vision	

I. In exigency situations such as the student already completed the listed compulsory courses(s) or elective course(s) on his/her own interest during previous semesters through valid MOOCs etc, the HoD in consultation with Dean-AA shall propose an alternative course(s) for the specific scenario, after verification of relevant documents.

II. By the end of April of every academic year, the department in consultation with Dean-AA, shall
   1. notify the list of equivalent courses in SWAYAM-NPTEL MOOCs / other standard MOOCs against the courses listed under Minor curriculum
   2. propose a new course(s) in the place of any course(s) listed under Minor curriculum, in case no equivalent course is found in MOOCs

-		**Laboratory Courses (any 2 courses)**			
19	**Minor Laboratory Courses**	U18MCS1019	Data Base Management System Lab		**2**
20		U18MCS1020	Data Structures and Algorithms Using Python Laboratory		
21		U18MCS1021	Advanced Java Laboratory		
22		U18MCS1022	Web Technologies Laboratory		
				Total Credits	**20**