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

MINOR IN COMPUTER SCIENCE AND ENGINEERING (MCS)
MINOR CURRICULUM - 2

[For *non-circuit branches: CE, ME*]

S.No	Course Type	Course Code	Course Name	Credits
1	**Minor Compulsory Courses**	U18MCS2001	Data Base Management System	
2		U18MCS2002	Programming, Data Structures And Algorithms Using Python	
3		U18MCS2003	Computer Networks and Internet Protocol	
		Elective courses (any 3 to 6 courses)		
4		U18MCS2004	Computer architecture and organization	
5		U18MCS2005	Operating Systems	
6		U18MCS2006	Introduction to Automata, Languages and Computation	
7	**Minor Elective Courses**	U18MCS2007	Software Engineering	**18**
8		U18MCS2008	Design and Analysis of Algorithms	
9		U18MCS2009	Compiler Design	
10		U18MCS2010	Introduction to Artificial Intelligence	
11		U18MCS2011	Introduction to Machine Learning	
12		U18MCS2012	Cryptography and Network Security	
13		U18MCS2013	Data Mining	
14		U18MCS2014	Digital Image Processing	
15		U18MCS2015	Data Science for Engineers	
16		U18MCS2016	Big Data Computing	
17		U18MCS2017	Cloud Computing	
18		U18MCS2018	Internet of Things	

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**	U18MCS2019	Data Base Management System Lab		**2**
20		U18MCS2020	Python Programming Laboratory		
21		U18MCS2021	Advanced Java Laboratory		
22		U18MCS2022	Web Technologies Laboratory		
				Total Credits	*20*