



**KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**MINOR IN COMPUTER SCIENCE AND ENGINEERING (MCS)
MINOR CURRICULUM**

S.No	Course Type	Course Code	Course Name	Credits
-	Minor Elective Courses	Elective courses (any 4 to 5 courses)		
1		U24MCS1001	Data Structures and Algorithms Design	15-16
2		U24MCS1002	Database Management System	
3		U24MCS1003	Computer Architecture and Organization	
4		U24MCS1004	Software Engineering	
5		U24MCS1005	Introduction to Operating Systems	
6		U24MCS1006	Design and Analysis of Algorithms	
7		U24MCS1007	Cyber Security and Privacy	
8		U24MCS1008	Fundamentals of Artificial Intelligence	
9		U24MCS1009	Neural Networks for Signal Processing	
10		U24MCS1010	Machine Learning for Core Engineering Disciplines	
11		U24MCS1011	Introduction to Industry 4.0 and Industrial Internet of Things	
12		U24MCS1012	Cloud Computing	
13		U24MCS1013	Getting Started with Competitive Programming	
<p>I. In exigency situations such as the student already completed the listed compulsory courses(s) on his/her own interest during previous semesters through valid MOOCs etc, the HoD in consultation with Dean-AA shall offer an alternative course(s) for the specific scenario, after verification of relevant documents.</p> <p>II. By the end of April of every academic year, the department in consultation with Dean-AA, shall</p> <p>A. notify the list of equivalent courses in SWAYAM-NPTEL MOOCs / other standard MOOCs against the list of courses notified under Honours curriculum</p> <p>B. propose a new course(s) in the place of any listed course(s) in the Honour curriculum, in case no equivalent course is found in MOOCs</p>				
-	Minor Laboratory Courses	Laboratory Courses (any 2 courses)		
14		U24MCS1014	Database Management System	2
15		U24MCS1015	Object Oriented Programming through Java/Python Programming	
16		U24MCS1016	Internet of Things	
17		U24MCS1017	Operating Systems	
18	Minor Mini-project (optional)	U24MCS1018	Mini-project (optional)	2
Total Credits				18