KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL

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

URR24 CSE MINOR CURRICULUM

EQUIVALENT MOOCs – ODD SEMESTER, JULY–DEC 2026, AY 2026-27

MINOR ELECTIVE COURSES (*any 6 to 9 courses to earn 18 credits*)			**EQUIVALENT COURSES OFFERED BY SWAYAM-NPTEL**			
S.No.	**Course Code**	**Course Name**	**Course Name, Duration & Course Code**	**C***	**Course Dates***	**Course Enrollment Link**
1	U24MCS1001	Data Structures and Algorithms Design	Programming, Data Structures and Algorithms using python (8 weeks) noc26-cs109	3	CCD: Jul 20, 2026 to Sep 11, 2026 LDR: Jul 27, 2026	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cs109
			Data Structure and Algorithms using Java (12 weeks) noc26-cs162	4	CCD: Jul 20, 2026 to Oct 9, 2026 LDR: Jul 27, 2026	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cs162
2	U24MCS1002	Database Management System	Data Base Management System (8 weeks) noc26-cs117	3	CCD: Jul 20, 2026 to Sep 11, 2026 LDR:July 27, 2026	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cs117
3	U24MCS1003	Computer Architecture and Organization	Computer Architecture and Organization (12 Weeks) noc26-cs166	4	CCD: Jul 20, 2026 to Sep 11, 2026 LDR: Jul 27, 2026	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cs166

4	U24MCS1004	Software Engineering	Software Engineering (12 Weeks) noc26-cs151	4	CCD: Jul 20, 2026 To Oct 9, 2026 LDR: Jul 27, 2026	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cs151
5	U24MCS1005	Introduction to Operating Systems	Introduction to Operating Systems (8 Weeks) noc26-cs123	3	CCD: Jul 20, 2026 to Sep 11, 2026 LDR: Jul 27, 2026	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cs123
6	U24MCS1006	Design and Analysis of Algorithms	Design and analysis of Algorithms (8 weeks) noc26-cs110	3	CCD: Jul 20, 2026 to Sep 11, 2026 LDR: Jul 27, 2026	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cs110
7	U24MCS1007	Cyber Security and Privacy	Cyber Security and Privacy (12 Weeks) noc26-cs144	4	CCD: Jul 20, 2026 To Oct 9, 2026 LDR: Jul 27, 2026	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cs144
8	U24MCS1008	Fundamentals of Artificial Intelligence	Artificial Intelligence: Concepts and Techniques (12 weeks) noc26-cs129	4	CCD: Jul 20, 2026 to Oct 9, 2026 LDR: Jul 27, 2026	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cs129
		Artificial Intelligence for Economics	Artificial Intelligence for Economics (8 weeks) noc26-cs118	3	CCD: Jul 20, 2026 to Sep 11, 2026	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cs118

					LDR: Jul 27, 2026	
9	U24MCS1009	Neural Networks for Signal Processing	***COURSE NOT AVAILABLE THIS SEMESTER***			
10	U24MCS1010	Machine Learning for Core Engineering Disciplines	Introduction to Machine Learning (12 weeks) noc26-cs133	4	CCD: Jul 20, 2026 to Oct 9, 2026 LDR: Jul 27, 2026	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cs133
		Machine Learning for Engineering and Science Applications	***COURSE NOT AVAILABLE THIS SEMESTER***			
11	U24MCS1011	Introduction to Industry 4.0 and Industrial Internet of Things	Introduction to Industry 4.0 and Industrial Internet of Things (12 Weeks) noc26-cs160	4	CCD: Jul 20, 2026 to Oct 9, 2026 LDR: Jul 27, 2026	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cs160
12	U24MCS1012	Cloud Computing	Cloud Computing (12 Weeks) noc26-cs150	4	CCD: Jul 20, 2026 to Oct 9, 2026 LDR: Jul 27, 2026	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cs150
13	U24MCS1013	Getting Started with Competitive Programming	Getting Started with Competitive Programming (12 Weeks) noc26-cs173	4	CCD: Jul 20, 2026 to Oct 9, 2026 LDR: Jul 27, 2026	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cs173

***C**: **C**redits **CCD**: **C**ourse **C**ommencement **D**ate; **LDR**: **L**ast **D**ate of **R**egistration

-	**Honours Laboratory Courses**	**Laboratory Courses (any 2 courses) – TO BE TAKEN IN THE PARENT DEPARTMENT**		
14		U24HCS1014	Data Science Lab	**2 credits**
15		U24HCS1015	Artificial Neural Networks Lab	
16		U24HCS1016	MATLAB	
17		U24HCS1017	Cryptography and Network Security /Cyber Security Lab	
			Total Credits to be earned	**18+2**

Date: **MOOCs Coordinator** **Head of the Department** **Dean, Academic Affairs**