



KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL
MINOR IN COMPUTER SCIENCE AND ENGINEERING (MCS)

MINOR CURRICULUM-1

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

EQUIVALENT MOOCs - ODD SEMESTER, JULY-DEC 2025, AY 2025-26

MINOR COMPULSORY COURSES			EQUIVALENT COURSES OFFERED BY SWAYAM-NPTEL			
S.No	Course Code	Course Name	Course Name, Duration & Course Code	C	Course Dates*	Course Enrollment Link
1	U18MCS1001	Data Base Management System	Data Base Management System (8 weeks) noc25-cs145	2	CCD: July 21, 2025 to Sep 12, 2025 LDR: July 28, 2025	https://onlinecourses.nptel.ac.in/noc25_cs145/preview
2	U18MCS1002	Programming, Data Structures and Algorithms Using Python	Programming, Data Structures and Algorithms Using Python (8 weeks) noc25-cs89	2	CCD: July 21, 2025 to Sep 12, 2025 LDR: July 28, 2025	https://onlinecourses.nptel.ac.in/noc25_cs89/preview
3	U18MCS1003	Software Engineering	Software Engineering (12 weeks) noc25-cs108	3	CCD: July 21, 2025 to October 10, 2025 LDR: July 28, 2025	https://onlinecourses.nptel.ac.in/noc25_cs108/preview
MINOR ELECTIVE COURSES (any 3 to 6 courses)						
4	U18MCS1004	Introduction to Automata, Languages and Computation	Theory of Computation (8 weeks) noc25-cs121	2	CCD: July 21, 2025 to Sep 12, 2025 LDR: July 28, 2025	https://onlinecourses.nptel.ac.in/noc25_cs121/preview
5	U18MCS1005	Operating Systems	Operating System Fundamentals (12 weeks)	3	CCD: July 21, 2025 to	https://onlinecourses.nptel.ac.in/noc25_cs141/preview

			noc25-cs141		October 10, 2025	
					LDR: July 28, 2025	
6	U18MCS1006	Compiler Design	NOT AVAILABLE THIS SEMESTER		CCD:	--
					LDR:	
7	U18MCS1007	Computer Networks and Internet Protocol	NOT AVAILABLE THIS SEMESTER		CCD:	--
					LDR:	
8	U18MCS1008	Cryptography and Network Security	NOT AVAILABLE THIS SEMESTER		CCD:	--
					LDR:	
9	U18MCS1009	Artificial Intelligence	Fundamentals of Artificial Intelligence (12 weeks) noc25-ge55	3	CCD: July 21, 2025 to October 10, 2025	https://onlinecourses.nptel.ac.in/noc25_ge55/preview
					LDR: July 28, 2025	
10	U18MCS1010	Machine Learning	Introduction to Machine Learning (12 weeks) noc25-cs91	3	CCD: July 21, 2025 to October 10, 2025	https://onlinecourses.nptel.ac.in/noc25_cs91/preview
					LDR: July 28, 2025	
11	U18MCS1011	Data Mining	Business Analytics & Text Mining Modeling using Python (8 weeks) noc25-mg88	2	CCD: July 21, 2025 to Sep 12, 2025	https://onlinecourses.nptel.ac.in/noc25_mg88/preview
					LDR: July 28, 2025	
12	U18MCS1012	Design and analysis of Algorithms	Design and analysis of Algorithms (8 weeks) noc25-cs90	2	CCD: July 21, 2025 to Sep 12, 2025	https://onlinecourses.nptel.ac.in/noc25_cs90/preview
					LDR: July 28, 2025	
13	U18MCS1013	Cloud Computing	Cloud Computing (12 weeks) noc25-cs107	3	CCD: July 21, 2025 to October 10, 2025	https://onlinecourses.nptel.ac.in/noc25_cs107/preview

					LDR: October 10, 2025	
14	U18MCS1014	Internet of Things	Introduction to Internet of Things (12 weeks) <i>noc25-cs147</i>	3	CCD: July 21, 2025 to October 10, 2025 LDR: July 28, 2025	https://onlinecourses.nptel.ac.in/noc25_cs147/preview
15	U18MCS1015	Social Networks	Social Networks (12 weeks) <i>noc25-cs102</i>	3	CCD: July 21, 2025 to October 10, 2025 LDR: July 28, 2025	https://onlinecourses.nptel.ac.in/noc25_cs102/preview
16	U18MCS1016	Data Science for Engineers	Data Science for Engineers (8 weeks) <i>noc25-cs101</i>	2	CCD: July 21, 2025 to Sep 12, 2025 LDR: July 28, 2025	https://onlinecourses.nptel.ac.in/noc25_cs101/preview
17	U18MCS1017	Big Data Computing	Big Data Computing (8 weeks) <i>noc25-cs131</i>	2	CCD: August 18, 2025 to October 10, 2025 LDR: August 18, 2025	https://onlinecourses.nptel.ac.in/noc25_cs131/preview
18	U18MCS1018	Deep Learning for Computer Vision	Deep Learning for Computer Vision (12 weeks) <i>noc25-cs93</i>	3	CCD: July 21, 2025 to October 10, 2025 LDR: July 28, 2025	https://onlinecourses.nptel.ac.in/noc25_cs93/preview

*C: Credits;

CCD: Course Commencement Date;

LDR: Last Date of Registration

S.No	MINOR LABORATORY COURSES	Laboratory Courses (any 2 courses) - TO BE TAKEN IN THE MINOR DEPARTMENT			
19		U18MCS1019	Data Base Management System Lab		2 credits
20		U18MCS1020	Data Structures and Algorithms Using Python Laboratory		
21		U18MCS1021	Advanced Java Laboratory		
22		U18MCS1022	Web Technologies Laboratory		
Total Credits to be earned					18+2

Date:

MOOCs Coordinator

Head of the Department

Dean, Academic Affairs