KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL
MINOR IN COMPUTER SCIENCE AND ENGINEERING (MCS)
MINOR CURRICULUM-2
[For *non-circuit branches: CE and ME*]
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	U18MCS2001	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	U18MCS2002	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	U18MCS2003	Computer Networks and Internet Protocol	***NOT AVAILABLE THIS SEMESTER***		CCD: LDR:	
MINOR ELECTIVE COURSES (any 3 to 6 courses)						
4	U18MCS2004	Computer Architecture and Organization	Computer Architecture (12weeks) noc25-cs83	3	CCD: July 21, 2025 to October 10, 2025 LDR: July 28, 2025	https://onlinecourses.nptel.ac.in/noc25_cs83/preview
5	U18MCS2005	Operating Systems	Operating System Fundamentals (12 weeks)	3	CCD: July 21, 2025 October 10, 2025	https://onlinecourses.nptel.ac.in/noc25_cs141/preview

			noc25-cs141		LDR: July 28, 2025	
6	U18MCS2006	Automata, Languages and Computation	Theory of Computation (8 weeks) *noc25-cs121*	2	CCD: July 21, 2025 to Sep 12, 2025	*https://onlinecourses.nptel.ac.in/noc25_cs121/preview*
					LDR: July 28, 2025	
7	U18MCS2007	Software Engineering	Software Engineering (12 weeks) noc25-cs108	3	CCD: July 21, 2025 to October 10, 2025	*https://onlinecourses.nptel.ac.in/noc25_cs108/preview*
					LDR: July 28, 2025	
8	U18MCS2008	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	
9	U18MCS2009	Compiler Design	*NOT AVAILABLE THIS SEMESTER*		CCD: LDR:	
10	U18MCS2010	Artificial Intelligence	Fundamentals of Artificial Intelligence (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	U18MCS2011	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	
12	U18MCS2012	Cryptography and Network Security	*NOT AVAILABLE THIS SEMESTER*		CCD: LDR:	
13	U18MCS2013	Data Mining	Business Analytics & Text Mining Modeling Using Python	2	CCD: July 21, 2025 to	*https://onlinecourses.nptel.ac.in/noc25_mg88/preview*

			(8 weeks) noc25-mg88		Sep 12, 2025	
					LDR: July 28, 2025	
14	U18MCS2014	Digital Image Processing	Digital Image Processing (12 weeks) *noc25-ee126*	3	CCD: July 21, 2025 to October 10, 2025	*https://onlinecourses.nptel.ac.in/noc25_ee126/preview*
					LDR: July 28, 2025	
15	U18MCS2015	Data Science for Engineers	Data Science for Engineers (8 weeks) *noc25-cs101*	2	CCD: July 21, 2025 to Sep 12, 2025	*https://onlinecourses.nptel.ac.in/noc25_cs101/preview*
					LDR: July 28, 2025	
16	U18MCS2016	Big Data Computing	Big Data Computing (8 weeks) *noc25-cs131*	2	CCD: August 18, 2025 to October 10, 2025	*https://onlinecourses.nptel.ac.in/noc25_cs131/preview*
					LDR: August 18, 2025	
17	U18MCS2017	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: 28-07-2025	
18	U18MCS2018	Internet of Things	Introduction to Internet of Things (12 weeks) *noc25-cs147*	3	CCD: July 21, 2025 to October 10, 2025	*https://onlinecourses.nptel.ac.in/noc25_cs147/preview*
					LDR: July 28, 2025	

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

S.No	MINOR LABORATORY COURSES	Laboratory Courses (any 2 courses) – TO BE TAKEN IN THE MINOR DEPARTMENT		
19		U18MCS2019	Data Base Management System Lab	
20		U18MCS2020	Data Structures and Algorithms Using Python Laboratory	**2 credits**
21		U18MCS2021	Advanced Java Laboratory	
22		U18MCS2022	Web Technologies Laboratory	
			Total Credits to be earned	**18+2**

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