



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 - EVEN SEMESTER, JANUARY-APRIL 2025, AY 2024-25

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	Introduction to Database Systems (12 weeks) noc25-cs40	3	CCD: January 20, 2025 to April 11, 2025 LDR: Jan 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs40/preview
2	U18MCS2002	Programming, Data Structures and Algorithms Using Python	Programming, Data Structures and Algorithms Using Python (8 weeks) noc25-cs59	2	CCD: January 20, 2025 to March 14, 2025 LDR: Jan 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs59/preview
3	U18MCS2003	Computer Networks and Internet Protocol	Computer Networks and Internet Protocol (12 weeks) noc25-cs15	3	CCD: January 20, 2025 to April 11, 2025 LDR: Jan 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs15/preview
MINORELECTIVE COURSES (any 3 to 6 courses)						
4	U18MCS2004	Computer Architecture and Organization	NOT AVAILABLE THIS SEMESTER			--
5	U18MCS2005	Operating Systems	NOT AVAILABLE THIS SEMESTER			--
6	U18MCS2006	Automata, Languages and Computation	Theory of Computation (12 weeks) noc25-cs70	3	CCD: January 20, 2025 to April 11, 2025 LDR: Jan 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs70/preview

7	U18MCS2007	Software Engineering	NOT AVAILABLE THIS SEMESTER			--
8	U18MCS2008	Design and Analysis of Algorithms	Design and analysis of Algorithms (8 weeks) noc25-cs23	2	CCD: January 20, 2025 to March 14,2025 LDR: Jan 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs23/preview
9	U18MCS2009	Compiler Design	Compiler Design (12 weeks) noc25-cs18	3	CCD: January 20, 2025 to April 11,2025 LDR: Jan 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs18/preview
10	U18MCS2010	Artificial Intelligence	Artificial Intelligence: Knowledge Representation and Reasoning (12 weeks) noc25-cs07	3	CCD: January 20, 2025 to April 11,2025 LDR: Jan 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs07/preview
11	U18MCS2011	Machine Learning	Introduction to Machine Learning (12 weeks) noc25-cs46	3	CCD: January 20, 2025 to April 11,2025 LDR: Jan 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs46/preview
12	U18MCS2012	Cryptography and Network Security	Cryptography and Network Security (12 weeks) noc25-cs16	3	CCD: January 20, 2025 to April 11,2025 LDR: Jan 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs16/preview
13	U18MCS2013	Data Mining	Data Mining (8 weeks) noc25-cs19	2	CCD: January 20, 2025 to March 14,2025 LDR: Jan 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs19/preview
14	U18MCS2014	Digital Image Processing	Computer Vision and Image Processing - Fundamentals and Applications (12 weeks) noc25-ee13	3	CCD: January 20, 2025 to April 11,2025 LDR: Jan 27, 2025	https://onlinecourses.nptel.ac.in/noc25_ee13/preview
15	U18MCS2015	Data Science for Engineers	Data Science for Engineers (8 weeks) noc25-cs20	2	CCD: January 20, 2025 to March 14,2025 LDR: Jan 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs20/preview

16	U18MCS2016	Big Data Computing	NOT AVAILABLE THIS SEMESTER			--
17	U18MCS2017	Cloud Computing	Cloud Computing (12 weeks) noc25-cs11	3	CCD: January 20, 2025 to April 11,2025 LDR: Jan 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs11/preview
18	U18MCS2018	Internet of Things	Introduction to Internet of Things (12 weeks) noc25-cs44	3	CCD: January 20, 2025 to April 11,2025 LDR: Jan 27, 2025	https://onlinecourses.nptel.ac.in/noc25_cs44/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		U18MCS2019	Data Base Management System Lab		2 credits
20		U18MCS2020	Data Structures and Algorithms Using Python Laboratory		
21		U18MCS2021	Advanced Java Laboratory		
22		U18MCS2022	Web Technologies Laboratory		
				Total Credits to be earned	18+2

Date:07.12.2024 MOOCs Coordinator

Head of the Department

Dean, Academic Affairs