



KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL
MINOR IN COMPUTER SCIENCE AND ENGINEERING – Data science (MCS-DS)

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 & Course Code	C	Course Dates*	Course Enrollment Link
1	U18MDS1001	Programming, Data Structures and Algorithms in Python	Programming, Data Structures and Algorithms using Python (noc25_cs89)	2	Duration: 8 weeks CCD : 21 Jul, 2025 To 12 Sep, 2025 LDR: 28 Jul 2025	https://onlinecourses.nptel.ac.in/noc25_cs89/preview
2	U18MDS1002	Data Science for Engineers	Data Science for Engineers (noc25_cs101)	2	Duration: 8 weeks CCD: 21 Jul, 2025 To 12 Sep, 2025 LDR: 28 Jul 2025	https://onlinecourses.nptel.ac.in/noc25_cs101/preview
3	U18MDS1003	Probability Theory for Data Science	Probability Theory for Data Science (noc25_ma95)	3	Duration: 12 weeks CCD: 21 Jul, 2025 To 10 Oct 2025 LDR: 28 Jul 2025	https://onlinecourses.nptel.ac.in/noc25_ma95/preview

4	U18MDS1004	Introduction to Machine Learning	Introduction to Machine Learning (noc25_cs91)	3	Duration: 12 weeks CCD: 21 Jul 2025 To 10 Oct 2025 LDR: 28 Jul 2025	https://onlinecourses.nptel.ac.in/noc25_cs91/preview
MINORELECTIVECOURSES (any 3 to 6 courses)						
5	U18MDS1005	Deep Learning for Computer Vision	Deep Learning for Computer Vision (noc25_cs93)	3	Duration: 12 weeks CCD: 21 Jul 2025 To 10 Oct 2025 LDR: 28 Jul 2025	https://onlinecourses.nptel.ac.in/noc25_cs93/preview
6	U18MDS1006	Reinforcement Learning	Reinforcement Learning (noc25_cs92)	3	Duration: 12 weeks CCD: 21 Jul 2025 To 10 Oct 2025 LDR: 28 Jul 2025	https://onlinecourses.nptel.ac.in/noc25_cs92/preview
7	U18MDS1007	An Introduction to Artificial Intelligence	An Introduction to Artificial Intelligence (noc25_ge55)	3	Duration: 12 weeks CCD: 21 Jul 2025 To 10 Oct 2025 LDR: 28 Jul 2025	https://onlinecourses.nptel.ac.in/noc25_ge55/preview
8	U18MDS1008	Internet of Things	Introduction to Internet of Things (noc25_cs147)	3	Duration: 12 weeks CCD: 21 Jul 2025 To 10 Oct 2025 LDR: 28 Jul 2025	https://onlinecourses.nptel.ac.in/noc25_cs147/preview
9	U18MDS1009	Software Engineering	Software Engineering (noc25_cs108)	3	Duration: 12 weeks CCD: 21 Jul 2025 To 10 Oct 2025 LDR: 28 Jul 2025	https://onlinecourses.nptel.ac.in/noc25_cs108/preview

10	U18MDS1010	Cloud Computing	Cloud Computing (noc25_cs107)	3	Duration: 12 weeks CCD: 21 Jul 2025 To 10 Oct 2025	https://onlinecourses.nptel.ac.in/noc25_cs107/preview
					LDR: 28 Jul 2025	
11	U18MDS1011	Design and analysis of Algorithms	Design and Analysis of Algorithms (noc25_cs90)	2	Duration: 8 weeks CCD: 21 Jul, 2025 To 12 Sep, 2025	https://onlinecourses.nptel.ac.in/noc25_cs90/preview
					LDR: 28 Jul 2025	

*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		
12		U18MDS1012	Data Structures and Algorithms Using Python Laboratory	2 credits
13		U18MDS1013	Machine Learning Laboratory	
14		U18MDS1014	Deep Learning for Computer Vision Laboratory	
15		U18MDS1015	Internet of Things Laboratory	
16	Mini-project (optional)	U18MDS1016	Mini-project (optional)	2 credits
Total Credits to be earned				18+2

Date:

MOOCs Coordinator

Head of the Department

Dean, Academic Affairs