KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL

MINOR IN COMPUTER SCIENCE AND ENGINEERING (Data Science)(MCS)

MINOR CURRICULUM-1

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

EQUIVALENT MOOCs– EVEN SEMESTER, Jan-Apr 2024, AY 2024-25

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_cs59**	2	**Duration:** 8 weeks **CCD :**20 Jan 2025 To 14 Mar 2025 **LDR:** 27 Jan 2025	https://onlinecourses.nptel.ac.in/noc25_cs59/preview
2	U18MDS1002	**Data Science for Engineers**	Data Science for Engineers **noc25_cs20**	2	**Duration:** 8 weeks **CCD :**20 Jan 2025 To 14 Mar 2025 **LDR:** 27 Jan 2025	https://onlinecourses.nptel.ac.in/noc25_cs20/preview
3	U18MDS1003	**Probability Theory for Data Science**	Advanced Probability Theory **noc25_ma04**	3	**Duration:** 12 weeks **CCD:** 20 Jan 2025 To 11 Apr 2025 **LDR:**27 Jan 2025	https://onlinecourses.nptel.ac.in/noc25_ma04/preview
4	U18MDS1004	**Introduction to Machine**	Introduction to Machine Learning	3	**Duration:** 12 weeks **CCD:** 20 Jan 2025	https://onlinecourses.nptel.ac.in/noc25_cs46/preview

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		Learning	noc25_cs46		To 11 Apr 2025	
					LDR:27 Jan 2025	
MINORELECTIVECOURSES (any 3 to 6 courses)
5	U18MDS1005	**Deep Learning for Computer Vision**	Computer Vision And Image Processing - Fundamentals And Applications noc25_ee13	3	**Duration:** 12 weeks **CCD:** 20 Jan 2025 To 11 Apr 2025 **LDR:**27 Jan 2025	https://onlinecourses.nptel.ac.in/noc25_ee13/preview
6	U18MDS1006	**Reinforcement Learning**	Reinforcement Learning noc25_cs62	3	**Duration:** 12 weeks **CCD:** 20 Jan 2025 To 11 Apr 2025 **LDR:**27 Jan 2025	https://onlinecourses.nptel.ac.in/noc25_cs62/preview
7	U18MDS1007	**An Introduction to Artificial Intelligence**	An Introduction to Artificial Intelligence noc25_cs07	3	**Duration:** 12 weeks **CCD:** 20 Jan 2025 To 11 Apr 2025 **LDR:**27 Jan 2025	https://onlinecourses.nptel.ac.in/noc25_cs07/preview
8	U18MDS1008	**Internet of Things**	Introduction to Internet of Things noc25_cs44	3	**Duration:** 12 weeks **CCD:** 20 Jan 2025 To 11 Apr 2025 **LDR:**27 Jan 2025	https://onlinecourses.nptel.ac.in/noc25_cs44/preview
9	U18MDS1009	**Software Engineering**	**Not available**	3		
10	U18MDS1010	**Cloud Computing**	Cloud Computing	3	**Duration:** 12 weeks **CCD:** 20 Jan 2025 To 11 Apr 2025	https://onlinecourses.nptel.ac.in/noc25_cs11/preview

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11	U18MDS1011	**Design and analysis of Algorithms**	**noc25_cs11** Design and Analysis of Algorithms **noc25_cs23**	2	**LDR:**27 Jan 2025 **Duration:**8 weeks **CCD:** 20 Jan 2025 To 14Mar 2025 **LDR:**27 Jan 2025	https://onlinecourses.nptel.ac.in/noc25_cs23/preview

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

S. No		Laboratory Courses (any 2 courses) - TO BE TAKEN IN THE MINOR DEPARTMENT	
12	**MINOR LABORATORY COURSES**	U18MDS1012	Data Structures and Algorithms Using Python Laboratory
13		U18MDS1013	Machine Learning Laboratory
14		U18MDS1014	Deep Learning for Computer Vision Laboratory
15		U18MDS1015	Internet of Things Laboratory
			Total Credits to be earned **18+2**

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

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