



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

**MINOR CURRICULUM-1**

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

**EQUIVALENT MOOCs - ODD SEMESTER, JULY-DEC 2023, AY 2023-24**

<b>MINOR COMPULSORY COURSES</b>			<b>EQUIVALENT COURSES OFFERED BY SWAYAM-NPTEL</b>			
S.No	Course Code	Course Name	Course Name, Duration & Course Code	C	Course Dates*	Course Enrollment Link
1	U18MAI1001	Data Base Management System	Data Base Management System (8 weeks) noc23-cs79	2	CCD: July 24, 2023 to Sep 15, 2023 LDR: Jul 31, 2023	<a href="https://onlinecourses.nptel.ac.in/noc23_cs79/preview">https://onlinecourses.nptel.ac.in/noc23_cs79/preview</a>
2	U18MAI1002	Programming, Data Structures and Algorithms Using Python	Programming, Data Structures and Algorithms Using Python (8 weeks) noc23-cs95	2	CCD: July 24, 2023 to Sep 15, 2023 LDR: Jul 31, 2023	<a href="https://onlinecourses.nptel.ac.in/noc23_cs95/preview">https://onlinecourses.nptel.ac.in/noc23_cs95/preview</a>
3	U18MAI1003	Natural Language Processing	Natural Language Processing (12 weeks) noc23-cs80	3	CCD: July 24, 2023 to Oct 13, 2023 LDR: Jul 31, 2023	<a href="https://onlinecourses.nptel.ac.in/noc23_cs80/preview">https://onlinecourses.nptel.ac.in/noc23_cs80/preview</a>
<b>MINORELECTIVE COURSES (any 3 to 6 courses)</b>						
4	U18MAI1004	Introduction to Automata, Languages and Computation	Theory of Computation (8 weeks) noc23-cs70	2	CCD: July 24, 2023 to Sep 15, 2023 LDR: Jul 31, 2023	<a href="https://onlinecourses.nptel.ac.in/noc23_cs70/preview">https://onlinecourses.nptel.ac.in/noc23_cs70/preview</a>
5	U18MAI1005	Operating Systems	Operating System Fundamentals (12 weeks) noc23-cs123	3	CCD: July 24, 2023 to Oct 13, 2023 LDR: Jul 31, 2023	<a href="https://onlinecourses.nptel.ac.in/noc23_cs123/preview">https://onlinecourses.nptel.ac.in/noc23_cs123/preview</a>
6	U18MAI1006	Compiler Design	<b>NOT AVAILABLE THIS SEMESTER</b>		CCD: LDR:	--
7	U18MAI1007	Computer Networks and	<b>NOT AVAILABLE THIS SEMESTER</b>		CCD:	--

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		Internet Protocol			LDR:	
8	U18MAI1008	Cryptography and Network Security	<b>NOT AVAILABLE THIS SEMESTER</b>		CCD: LDR:	--
9	U18MAI1009	Artificial Intelligence	Fundamentals of Artificial Intelligence (12 weeks) noc23-ge40	3	CCD: July 24,2023 to Oct 13,2023 LDR: Jul 31, 2023	<a href="https://onlinecourses.nptel.ac.in/noc23_ge40/preview">https://onlinecourses.nptel.ac.in/noc23_ge40/preview</a>
10	U18MAI1010	Machine Learning	Introduction to Machine Learning (12 weeks) noc23-cs98	3	CCD: July 24,2023 to Oct 13,2023 LDR: Jul 31, 2023	<a href="https://onlinecourses.nptel.ac.in/noc23_cs98/preview">https://onlinecourses.nptel.ac.in/noc23_cs98/preview</a>
11	U18MAI1011	Reinforcement Learning	Reinforcement Learning (12 weeks) noc23-cs100)	2	CCD: July 24, 2023 to Sep 15, 2023 LDR: Jul 31, 2023	<a href="https://onlinecourses.nptel.ac.in/noc23_cs100/preview">https://onlinecourses.nptel.ac.in/noc23_cs100/preview</a>
12	U18MAI1012	Design and analysis of Algorithms	Design and analysis of Algorithms (8 weeks) noc23-cs96	2	CCD: July 24, 2023 to Sep 15, 2023 LDR: Jul 31, 2023	<a href="https://onlinecourses.nptel.ac.in/noc23_cs96/preview">https://onlinecourses.nptel.ac.in/noc23_cs96/preview</a>
13	U18MAI1013	Cloud Computing	Cloud Computing (12 weeks) noc23-cs89	3	CCD: July 24,2023 to Oct 13,2023 LDR: Jul 31, 2023	<a href="https://onlinecourses.nptel.ac.in/noc23_cs89/preview">https://onlinecourses.nptel.ac.in/noc23_cs89/preview</a>
14	U18MAI1014	Internet of Things	<b>NOT AVAILABLE THIS SEMESTER</b>		CCD: LDR:	--
15	U18MAI1015	Social Networks	Social Networks (12 weeks) noc23-cs107	3	CCD: July 24,2023 to Oct 13,2023 LDR: Jul 31, 2023	<a href="https://onlinecourses.nptel.ac.in/noc23_cs107/preview">https://onlinecourses.nptel.ac.in/noc23_cs107/preview</a>
16	U18MAI1016	Data Science for Engineers	Data Science for Engineers (8 weeks) noc23-cs97	2	CCD: July 24, 2023 to Sep 15, 2023 LDR: Jul 31, 2023	<a href="https://onlinecourses.nptel.ac.in/noc23_cs97/preview">https://onlinecourses.nptel.ac.in/noc23_cs97/preview</a>
17	U18MAI1017	Software Engineering	Software Engineering (12 weeks) noc23-cs122	3	CCD: July 24,2023 to Oct 13,2023 LDR: Jul 31, 2023	<a href="https://onlinecourses.nptel.ac.in/noc23_cs122/preview">https://onlinecourses.nptel.ac.in/noc23_cs122/preview</a>

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18	U18MAI1018	Deep Learning for Computer Vision	Deep Learning for Computer Vision (12 weeks) noc23-cs126	3	CCD: July 24,2023 to Oct 13,2023 LDR: Jul 31, 2023	<a href="https://onlinecourses.nptel.ac.in/noc23_cs126/preview">https://onlinecourses.nptel.ac.in/noc23_cs126/preview</a>

\*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			2 credits
19		U18MAI1019	Data Base Management System Lab		
20		U18MAI1020	Data Structures and Algorithms Using Python Laboratory		
21		U18MAI1021	Machine Learning Laboratory		
22		U18MAI1022	Deep Learning for Computer Vision Laboratory		
				<i>Total Credits to be earned</i>	<b>18+2</b>

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