



**KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL MINOR IN  
COMPUTER SCIENCE AND ENGINEERING (AI & ML)(MCS)  
MINOR CURRICULUM**

[For circuit and non-circuit branches: *E&IE, EEE, ECE, CE and ME*]  
**MOOCs-EVEN SEMESTER, JAN-APR 2025, AY 2024-25**

MINOR COMPULSORY COURSES			COURSES OFFERED BY SWAYAM-NPTEL			
S.No	Course Code	Course Name	Course Name, Duration & Course Code	C	Course Dates*	Course Enrollment Link
1	U18MCM1001	Essential Mathematics for Machine Learning	Not available this semester		-----	-----
2	U18MCM1002	Artificial Intelligence: Knowledge Representation And Reasoning	Artificial Intelligence: Knowledge Representation And Reasoning noc25_cs07	3	Duration: 12 weeks CCD: 20 Jan 2025 To 11 Apr 2025 LDR: 14 Feb 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs07/preview">https://onlinecourses.nptel.ac.in/noc25_cs07/preview</a>
3	U18MCM1003	Programming, Data Structures And Algorithms Using Python	Programming, Data Structures And Algorithms Using Python noc25-cs59	3	Duration: 8 weeks CCD: 20 Jan 2025 To 14 Mar 2025 LDR: 14 Feb 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs59/preview">https://onlinecourses.nptel.ac.in/noc25_cs59/preview</a>
4	U18MCM1004	Introduction to Machine Learning	Introduction to Machine Learning noc25_cs46	3	Duration: 12 weeks CCD: 20 Jan 2025 To 11 Apr 2025 LDR: 14 Feb 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs46/preview">https://onlinecourses.nptel.ac.in/noc25_cs46/preview</a>

<b>MINORELECTIVECOURSES (any 3 to 6 courses)</b>						
5	U18MCM1005	<b>Deep Learning for Computer Vision</b>	Deep Learning For Visual Computing <b>noc25_ee17</b>	3	<b>Duration:</b> 12 weeks <b>CCD:</b> 20 Jan 2025 To 11 Apr 2025 <b>LDR:</b> 27 Jan 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_ee17/preview">https://onlinecourses.nptel.ac.in/noc25_ee17/preview</a>
6	U18MCM1006	<b>Reinforcement Learning</b>	Reinforcement Learning <b>noc25_cs62</b>	3	<b>Duration:</b> 12 weeks <b>CCD:</b> 20 Jan 2025 To 11 Apr 2025 <b>LDR:</b> 27 Jan 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs62/preview">https://onlinecourses.nptel.ac.in/noc25_cs62/preview</a>
7	U18MCM1007	<b>AI:Constraint Satisfaction</b>	AI:Constraint Satisfaction <b>noc25-cs05</b>	3	<b>Duration:</b> 8 weeks <b>CCD:</b> 20 Jan 2025 To 14 Mar 2025 <b>LDR:</b> 14Feb2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs05/preview">https://onlinecourses.nptel.ac.in/noc25_cs05/preview</a>
8	U18MCM1008	<b>Natural Language Processing</b>	Natural Language Processing <b>noc25_cs51</b>	3	<b>Duration:</b> 12 weeks <b>CCD:</b> 20 Jan 2025 To 11 Apr 2025 <b>LDR:</b> 27 Jan 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_cs51/preview">https://onlinecourses.nptel.ac.in/noc25_cs51/preview</a>

S.No.	<b>MINOR LABORATORY COURSES</b>	<b>Laboratory Courses (any 2 courses)-TO BE TAKEN IN THE MINOR DEPARTMENT</b>			<b>2 credits</b>
9		U18MCM1009	Data Structures and Algorithms Using Python Laboratory		
10		U18MCM1010	Machine Learning Laboratory		
11		U18MCM1011	Deep Learning for Computer Vision Laboratory		
				<b>Total Credits to be earned</b>	<b>18+2</b>

\*C : Credits; CCD: Course Commencement Date; LDR: Last Date of Registration

**Date:**                      **MOOCs Coordinator**

**Head of the Department**

**Dean, Academic Affair**