



KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL
MINOR IN MATHEMATICS (MMA) - MINOR CURRICULUM
EQUIVALENT MOOCs - ODD SEMESTER, July-Dec 2025, AY 2025-26

URR-24

S.No	Course Code	Course Name	EQUIVALENT COURSES OFFERED BY			
MINOR COMPULSORY COURSES			SWAYAM-NPTEL		Course	
			Course Name	C		
1	U24MMA1001	Linear Algebra	Linear Algebra	4	CCD: 21.07.2025 LDR: 15.08.2025	https://onlinecourses.nptel.ac.in/noc25_ma114/preview
2	U24MMA1002	Probability and Statistics	_ Not Available	-	CCD: LDR:	Not Available --
3	U24MMA1003	Numerical Methods	Numerical Methods	3	CCD: 21.07.2025 LDR: 15.08.2025	https://onlinecourses.nptel.ac.in/noc25_ma83/preview
MINOR ELECTIVE COURSES						
4	U24MMA1004	Numerical Linear Algebra	_ Not Available	-	CCD: LDR:	Not Available --
5	U24MMA1005	Essential Mathematics for Machine Learning	Essential Mathematics for Machine Learning	4	CCD: 21.07.2025 LDR: 15.08.2025	https://onlinecourses.nptel.ac.in/noc25_ma82/preview
6	U24MMA1006	Descriptive Statistics with R Software	Descriptive Statistics with R Software	3	CCD: 18.08.2025 LDR: 29.08.2025	https://onlinecourses.nptel.ac.in/noc25_mg158/preview
7	U24MMA1007	Introduction to Fuzzy set theory Arithmetic and logic	Introduction to Fuzzy set theory Arithmetic and logic	4	CCD: 21.07.2025 LDR: 15.08.2025	https://onlinecourses.nptel.ac.in/noc25_ma88/preview
8	U24MMA1008	Operations Research	Operations Research	3	CCD: 21.07.2025 LDR: 15.08.2025	https://onlinecourses.nptel.ac.in/noc25_ag15/preview

9	U24MMA1009	Computational Commutative Algebra	<i>Computational Commutative Algebra</i>	4	CCD: 21.07.2025 LDR: 15.08.2025	https://onlinecourses.nptel.ac.in/noc25_ma94/preview
10	U24MMA1010	Ordinary and Partial Differential Equations and Applications	Not Available _	-	CCD: LDR:	Not Available --
11	U24MMA1011	Advanced Engineering Mathematics	<i>Advanced Engineering Mathematics</i>	4	CCD: 21.07.2025 LDR: 15.08.2025	https://onlinecourses.nptel.ac.in/noc25_ma85/preview
12	U24MMA1012	Introduction to Methods of Applied Mathematics	<i>Introduction to Methods of Applied Mathematics</i>	4	CCD: 21.07.2025 LDR: 15.08.2025	https://onlinecourses.nptel.ac.in/noc25_ma91/preview
13	U24MMA1013	Real Analysis	<i>Introductory Course in Real Analysis</i>	4	CCD: 21.07.2025 LDR: 15.08.2025	https://onlinecourses.nptel.ac.in/noc25_ma118/preview
14	U24MMA1014	Matrix Analysis with Applications	<i>Matrix Computation and its Applications</i>	4	CCD: 21.07.2025 LDR: 15.08.2025	https://onlinecourses.nptel.ac.in/noc25_ma92/preview
15	U24MMA1015	Integral Transforms and their Applications	_ Not Available	-	CCD: LDR:	Not Available --
I. In exigency situations such as the student already completed the listed compulsory courses(s) on his/her own interest during previous semesters through valid MOOCs etc., the HoD in consultation with Dean-AA shall propose an alternative course(s) for the specific scenario, after verification of relevant documents. II. By the end of April of every academic year, the department in consultation with Dean-AA, shall A. notify the list of equivalent courses in SWAYAM-NPTEL MOOCs / other standard MOOCs against the list of courses notified under Honours curriculum B. propose a new course(s) in the place of any listed course(s) in the Honours curriculum, in case no equivalent course is found in MOOCs						

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

-	Minor Laboratory Courses	Laboratory Courses (any 2 courses) - TO BE TAKEN IN THE MINOR DEPARTMENT		
16		U24MMA1019	Solution to Boundary Value Problems through MATLAB	2 credits
17		U24MMA1020	Numerical Techniques through MATLAB	
18		U24MMA1021	Optimization Techniques through MATLAB	
19		U24MMA1022	Statistical Methods through MATLAB	
20	Minor Mini-project (Optional)	U24MMA1023	Mini-project (Optional)	2
<i>Total Credits to be earned</i>				18

Date: 04-07-2025 MOOCs Coordinator
Dr. E. Ranjith Kumar

Head of the Department
Mathematics & Humanities
Dr. K. Shivashankar

Dean, Academic Affairs