



KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL
MINOR IN MATHEMATICS (MMA) - MINOR CURRICULUM
EQUIVALENT MOOCs - ODD SEMESTER, July-Dec 2026, AY 2026-27

URR-24

S.No	Course Code	Course Name	EQUIVALENT COURSES OFFERED BY			
MINOR COMPULSORY COURSES			SWAYAM-NPTEL		COURSE ENROLLMENT LINK	
			Course Name	C		Course Dates*
1	U24MMA1001	Linear Algebra	Linear Algebra	4	CCD: 20.07.2026 LDR: 09.10.2026	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_ma100
2	U24MMA1002	Probability and Statistics	Introduction to Probability Theory and Stochastic Processes	4	CCD: 20.07.2026 LDR: 09.10.2026	
3	U24MMA1003	Numerical Methods	Numerical Methods	3	CCD: 20.07.2026 LDR: 11.09.2025	https://www.google.com/url?q=https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_ma84&sa=D&source=editors&ust=1784962349948394&usg=AOvVaw3tGpawLnIIDYdw7i2EqrCC
MINOR ELECTIVE COURSES						
4	U24MMA1004	Numerical Linear Algebra	–	-	CCD: LDR:	NPTEL is not offering this course in July-Dec 2026
5	U24MMA1005	Essential Mathematics for Machine Learning	Essential Mathematics for Machine Learning	4	CCD: 20.07.2026 LDR: 09.10.2026	
6	U24MMA1006	Descriptive Statistics with R Software	-		CCD: 18.08.2025 LDR: 29.08.2025	NPTEL is not offering this course in July-Dec 2026
7	U24MMA1007	Introduction to Fuzzy set theory Arithmetic and logic	-		CCD: 21.07.2025 LDR: 15.08.2025	NPTEL is not offering this course in July-Dec 2026

8	U24MMA1008	Operations Research	<i>Operations Research</i>	4	CCD: 20.07.2026 LDR: 09.10.2026	https://www.google.com/url?q=https://onlinecourse.s.nptel.ac.in/e-learning/preview/noc26_ag17&sa=D&source=editors&ust=1784962349155614&usg=AOvVaw00tuEj49dc7a9ShE5lETvX
9	U24MMA1009	Computational Commutative Algebra	<i>Computational Commutative Algebra</i>	4	CCD: 20.07.2026 LDR: 09.10.2026	https://www.google.com/url?q=https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_ma117&sa=D&source=editors&ust=1784962349904637&usg=AOvVaw1E8mdy39YOvhUmnPDswV29
10	U24MMA1010	Ordinary and Partial Differential Equations and Applications	–	-	CCD: LDR:	<i>NPTEL is not offering this course in July-Dec 2026</i>
11	U24MMA1011	Advanced Engineering Mathematics	<i>Advanced Engineering Mathematics</i>	4	CCD: 20.07.2026 LDR: 09.10.2026	https://www.google.com/url?q=https://onlinecourse.s.nptel.ac.in/e-learning/preview/noc26_ma98&sa=D&source=editors&ust=1784962349965331&usg=AOvVaw1Yny616iaIAfJomdvFnMJU
12	U24MMA1012	Introduction to Methods of Applied Mathematics	<i>Introduction to Methods of Applied Mathematics</i>	4	CCD: 20.07.2026 LDR: 09.10.2026	https://www.google.com/url?q=https://onlinecourse.s.nptel.ac.in/e-learning/preview/noc26_ma108&sa=D&source=editor&ust=1784962349896599&usg=AOvVaw14ykwAshuc3l0v6w1scDZx
13	U24MMA1013	Real Analysis	-	4	CCD: LDR:	<i>NPTEL is not offering this course in July-Dec 2026-</i>
14	U24MMA1014	Matrix Analysis with Applications	<i>Matrix Computation and its Applications</i>	4	CCD: 20.07.2026 LDR: 09.10.2026	https://www.google.com/url?q=https://onlinecourse.s.nptel.ac.in/e-learning/preview/noc26_ma109&sa=D&source=editor&ust=1784962349897451&usg=AOvVaw3_AISMzGcV8TbITNi2ngAU
15		Integral		-	CCD:	<i>NPTEL is not offering this course in July-Dec 2026--</i>

	U24MMA1015	Transforms and their Applications	–		LDR:	
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
Total Credits to be earned				16+2

Date: 25-07-2026

**MOOCs Coordinator
Dr. E. Ranjith Kumar**

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

Dean, Academic Affairs