



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

URR-18

S. No.	Course Code	Course Name	EQUIVALENT COURSES OFFERED BY			
MINOR COMPULSORY COURSES			SWAYAM-NPTEL		COURSE ENROLLMENT LINK	
			Course Name	C		
1	U18MMA1001	Linear Algebra	Linear Algebra	3	CCD: 20.07.2026	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_ma100
					LDR: 09.10.2026	
2	U18MMA1002	Probability and Statistics	Introduction to Probability Theory and Stochastic Processes	3	CCD: 20.07.2026	https://www.google.com/url?q=https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_ma107&sa=D&source=editors&ust=1784962349895750&usg=AOvVaw05OUyef46HYAJ_tEVMiEJ4
					LDR: 09.10.2026	
3	U18MMA1003	Numerical Methods	Numerical Methods	2	CCD: 20.07.2026	https://www.google.com/url?q=https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_ma84&sa=D&source=editors&ust=1784962349948394&usg=AOvVaw3tGpawLnIIDYdw7i2EqrCC
					LDR: 11.09.2025	
MINOR ELECTIVE COURSES						
4	U18MMA1004	Numerical Linear Algebra	-	-	CCD:	NPTEL is not offering this course in July-Dec 2026
					LDR:	
5	U18MMA1005	Essential Mathematics for Machine Learning	Essential Mathematics for Machine Learning	3	CCD: 20.07.2026	https://www.google.com/url?q=https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_ma97&sa=D&source=editors&ust=1784962349964392&usg=AOvVaw2MqRqmZ2z3U333L0kmJ2Fs
					LDR: 09.10.2026	
6	U18MMA1006	Descriptive Statistics with R Software	-		CCD:	NPTEL is not offering this course in July-Dec 2026
					LDR:	

7	U18MMA1007	Transform Calculus and its applications in Differential Equations	-		CCD:	<i>NPTEL is not offering this course in July-Dec 2026</i>
					LDR:	
8	U18MMA1008	Integral Transforms and their Applications	-	-	CCD:	<i>NPTEL is not offering this course in July-Dec 2026</i>
					LDR:	
9	U18MMA1009	Integral and Vector calculus	-	-	CCD:	<i>NPTEL is not offering this course in July-Dec 2026</i>
					LDR:	
10	U18MMA1010	Introduction to Fuzzy set theory Arithmetic and logic	-		CCD:	<i>NPTEL is not offering this course in July-Dec 2026</i>
					LDR:	
11	U18MMA1011	Operations Research	<i>Operations Research</i>	3	CCD: 20.07.2026	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
					LDR: 09.10.2026	
12	U18MMA1012	Computational Commutative Algebra	<i>Computational Commutative Algebra</i>	3	CCD: 20.07.2026	https://www.google.com/url?q=https://onlinecourse.s.nptel.ac.in/e-learning/preview/noc26_ma117&sa=D&source=editor&ust=1784962349904637&usg=AOvVaw1E8mdy39YOVhUmnPDswV29
					LDR: 09.10.2026	
13	U18MMA1013	Ordinary and Partial Differential Equations and Applications	-	-	CCD:	<i>NPTEL is not offering this course in July-Dec 2026</i>
					LDR:	
14	U18MMA1014	Advanced Engineering Mathematics	<i>Advanced Engineering Mathematics</i>	3	CCD: 20.07.2026	https://www.google.com/url?q=https://onlinecourse.s.nptel.ac.in/e-learning/preview/noc26_ma98&sa=D&source=editors&ust=1784962349965331&usg=AOvVaw1Yny616iaIAfIomdvFnMJU
					LDR: 09.10.2026	
15	U18MMA1015	Introduction to Methods of Applied Mathematics	<i>Introduction to Methods of Applied</i>	3	CCD: 20.07.2026	https://www.google.com/url?q=https://onlinecourse.s.nptel.ac.in/e-

			Mathematics		LDR: 09.10.2026	learning/preview/noc26_ma108&sa=D&source=editor&ust=1784962349896599&usg=AOvVaw14ykwAshuc3l0v6w1scDZx
16	U18MMA1016	Real Analysis	-		CCD: LDR:	NPTEL is not offering this course in July-Dec 2026
17	U18MMA1017	Matrix Analysis with Applications	Matrix computation and its Applications	3	CCD: 20.07.2026 LDR: 09.10.2026	https://www.google.com/url?q=https://onlinecourse.nptel.ac.in/e-learning/preview/noc26_ma109&sa=D&source=editor&ust=1784962349897451&usg=AOvVaw3_AISMzGcV8TbITNi2ngAU
18	U18MMA1018	Multivariable calculus	-		CCD: LDR:	NPTEL is not offering this course in July-Dec 2026

- 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
- notify the list of equivalent courses in SWAYAM-NPTEL MOOCs / other standard MOOCs against the list of courses notified under Honours curriculum
 - 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		
19		U18MMA1019	Solution to Boundary Value Problems through MATLAB	2 credits
20		U18MMA1020	Numerical Techniques through MATLAB	
21		U18MMA1021	Optimization Techniques through MATLAB	
22		U18MMA1022	Statistical Methods through MATLAB	
23	Minor Mini-project (Optional)	U18MMA1023	Mini-project (Optional)	2

Date: 25-07-2026

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

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

Dean, Academic Affairs