



KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL
MINOR IN MATHEMATICS (MMA) - MINOR CURRICULUM
EQUIVALENT MOOCs - ODD SEMESTER, JULY-DEC 2020, AY 2020-21

S. No	Course Code	Course Name	EQUIVALENT COURSES OFFERED BY								
			SWAYAM-NPTEL			COURSERA / UDEMY			SPOKEN TUTORIAL - IITB		
MINOR COMPULSORY COURSES			Course Name	C	Course Dates*	Course Name	C	Course Dates*	Course Name	C	Course Dates*
1	U18MMA1001	Linear Algebra	Linear Algebra	3	CCD: 14.09.2020	--	-	CCD:	--	--	CCD:
					LDR: 21.09.2020			LDR:			LDR:
2	U18MMA1002	Complex Analysis	Complex Analysis	3	CCD: 14.09.2020	--	-	CCD:	--	-	CCD:
					LDR: 21.09.2020			LDR:			LDR:
3	U18MMA1003	Numerical Methods	Numerical Methods	2	CCD: 14.09.2020	--	-	CCD:	--	-	CCD:
					LDR: 21.09.2020			LDR:			LDR:
MINOR ELECTIVE COURSES											
4	U18MMA1004	Introduction to Abstract Group theory	Introduction to Abstract Group theory	2	CCD: 14.09.2020	--	-	CCD:	--	-	CCD:
					LDR: 21.09.2020			LDR:			LDR:
5	U18MMA1005	Essential Mathematics for Machine Learning	Essential Mathematics for Machine Learning	2	CCD: 14.09.2020	--	-	CCD:	--	-	CCD:
					LDR: 21.09.2020			LDR:			LDR:
6	U18MMA1006	A Basic Course in Number theory	A Basic Course in Number theory	3	CCD: 14.09.2020	--	-	CCD:	--	-	CCD:
					LDR: 21.09.2020			LDR:			LDR:

7	U18MMA1007	Scientific Computing using MATLAB	Scientific Computing using MATLAB	3	CCD: 14.09.2020	--	-	CCD:	--	-	CCD:
					LDR: 21.09.2020			LDR:			LDR:
8	U18MMA1008	Integral Transforms and their Applications	Integral Transforms and their Applications	3	CCD: 14.09.2020	--	-	CCD:	--	-	CCD:
					LDR: 21.09.2020			LDR:			LDR:
9	U18MMA1009	Computational Number Theory and Algebra	Computational Number Theory and Algebra	3	CCD: 14.09.2020	-	-	CCD:	--	-	CCD:
					LDR: 21.09.2020			LDR:			LDR:
10	U18MMA1010	Introduction to Fuzzy set theory Arithmetic and logic	Introduction to Fuzzy set theory Arithmetic and logic	3	CCD: 14.09.2020	--	-	CCD:	--	-	CCD:
					LDR: 21.09.2020			LDR:			LDR:
11	U18MMA1011	Operations Research	Operations Research	2	CCD: 14.09.2020	--	-	CCD:	--	-	CCD:
					LDR: 21.09.2020			LDR:			LDR:
12	U18MMA1012	Computational Commutative Algebra	Computational Commutative Algebra	3	CCD: 14.09.2020	--	-	CCD:	--	-	CCD:
					LDR: 21.09.2020			LDR:			LDR:
13	U18MMA1013	Real Analysis-I	Real Analysis-I	3	CCD: 14.09.2020	--	-	CCD:	--	-	CCD:
					LDR: 21.09.2020			LDR:			LDR:
14	U18MMA1014	Regression Analysis	Regression Analysis	3	CCD: 14.09.2020	--	-	CCD:	--	-	CCD:
					LDR: 21.09.2020			LDR:			LDR:

15	U18MMA1015	Introduction to Methods of Applied Mathematics	Introduction to Methods of Applied Mathematics	3	CCD: 14.09.2020	--	-	CCD:	--	-	CCD:
					LDR: 21.09.2020			LDR:			LDR:
16	U18MMA1016	Calculus of One Real Variable	Calculus of One Real Variable	2	CCD: 14.09.2020	--	-	CCD:	--	-	CCD:
					LDR: 21.09.2020			LDR:			LDR:
17	U18MMA1017	Matrix Analysis with Applications	Matrix Analysis with Applications	2	CCD: 14.09.2020	--	-	CCD:	--	-	CCD:
					LDR: 21.09.2020			LDR:			LDR:
18	U18MMA1018	Calculus of Several Real Variables	Calculus of Several Real Variables	2	CCD: 14.09.2020	--	-	CCD:	--	-	CCD:
					LDR: 21.09.2020			LDR:			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
- 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		
				<i>Total Credits to be earned</i>	18+2

Date: 19-07-2020

MOOCs Coordinator

Head of the Department
Mathematics & Humanities

Dean, Academic Affairs