



**KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL**  
**MINOR IN CHEMISTRY (MCM) - 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	U18MCM1001	Fundamentals of Organic Chemistry	Introductory Organic Chemistry I (08 weeks)	2	CCD: 14.09.2020	--	-	CCD:	--	--	CCD:
					LDR: 21.09.2020			LDR:			LDR:
2	U18MCM1002	Co-Ordination Chemistry	Co-ordination Chemistry (Chemistry of Transition Elements) (12 weeks)	3	CCD: 14.09.2020	--	-	CCD:	--	-	CCD:
					LDR: 21.09.2020			LDR:			LDR:
3	U18MCM1003	Analytical Chemistry	Analytical chemistry (12 weeks)	3	CCD: 14.09.2020	--	-	CCD:	--	-	CCD:
					LDR: 21.09.2020			LDR:			LDR:
MINOR ELECTIVE COURSES											
4	U18MCM1004	Basics of organic reaction mechanism	Mechanisms in Organic Chemistry (08 weeks)	2	CCD: 14.09.2020	--	-	CCD:	--	-	CCD:
					LDR: 21.09.2020			LDR:			LDR:
5	U18MCM1005	Quantum Chemistry	Quantum Chemistry of Atoms and Molecules (12 weeks)	3	CCD: 14.09.2020	--	-	CCD:	--	-	CCD:
					LDR: 21.12.2020			LDR:			LDR:

6	U18MCM1006	Chemistry of d-Block Elements, Quantum Chemistry and Spectroscopy	Chemistry of d-Block Elements, Quantum Chemistry and Spectroscopy (16 weeks)	4	CCD: 06.07.2020	--	-	CCD:	--	-	CCD:
					LDR: 31.07.2020			LDR:			LDR:
7	U18MCM1007	Stereochemistry	Stereo chemistry (08 weeks)	2	CCD: 14.09.2020	--	-	CCD:	--	-	CCD:
					LDR: 21.09.2020			LDR:			LDR:
8	U18MCM1008	Chemical Thermodynamics and Kinetics	Introduction to Chemical Thermodynamics and Kinetics (12 weeks)	3	CCD: 14.09.2020	--	-	CCD:	--	-	CCD:
					LDR: 21.09.2020			LDR:			LDR:
9	U18MCM1009	Spectroscopic Techniques for Pharmaceutical and Biopharmaceutical Industries	Spectroscopic Techniques for Pharmaceutical and Biopharmaceutical Industries (12 weeks)	3	CCD: 14.09.2020	-	-	CCD:	--		CCD:
					LDR: 21.09.2020			LDR:			LDR:
10	U18MCM1010	Food Chemistry	Food Chemistry (12 weeks)	3	CCD: 15.06.2020	--	-	CCD:	--	2	CCD: 20.07.2020
					LDR: 31.07.2020			LDR:			LDR: 27.07.2020
11	U18MCM1011	Biochemistry	Biochemistry of Biomolecules (12 weeks)	3	CCD: 01.06.2020	--	-	CCD:	--	-	CCD:
					LDR: 31.07.2020			LDR:			LDR:

12	U18MCM1012	Quantum Mechanics and Molecular Spectroscopy	Quantum Mechanics and Molecular Spectroscopy (08 weeks)	2	CCD: 14.09.2020	--	-	CCD:	--	-	CCD:
					LDR: 21.09.2020			LDR:			LDR:
13	U18MCM1013	Spectroscopy and its Applications	Application of Spectroscopic Methods in Molecular Structure Determination (08 weeks)	2	CCD: 14.09.2020	--	-	CCD:	--	-	CCD:
					LDR: 21.09.2020			LDR:			LDR:
14	U18MCM1014	Chemical Crystallography	Chemical Crystallography (12 weeks)	3	CCD: 14.09.2020	--	-	CCD:	--	-	CCD:
					LDR: 21.09.2020			LDR:			LDR:
15	U18MCM1015	Introduction to Polymer Science	Introduction to Polymer Science (08 weeks)	2	CCD: 14.09.2020	--	-	CCD:	--	-	CCD:
					LDR: 21.09.2020			LDR:			LDR:
16	U18MCM1016	Polymers: concepts, properties, uses and sustainability	Polymers: concepts, properties, uses and sustainability (12 weeks)	3	CCD: 14.09.2020	--	-	CCD:	--	-	CCD:
					LDR: 21.09.2020			LDR:			LDR:

17	U18MCM1017	Environmental Chemistry	Environmental Chemistry (12 weeks)	3	CCD: 14.09.2020	--	-	CCD:	--	-	CCD:
					LDR: 21.09.2020			LDR:			LDR:
18	U18MCM1018	Environmental Soil Chemistry	Environmental Soil Chemistry (12 weeks)	3	CCD: 14.09.2020	--	-	CCD: 20.07.2020	--	-	CCD:
					LDR: 21.09.2020			LDR: 27.07.2020			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	<b>Laboratory Courses ( any 2 courses ) - TO BE TAKEN IN THE MINOR DEPARTMENT</b>									
19		U18MCM1019	Computational Chemistry Laboratory								2 credits
20		U18MCM1020	Polymer Synthesis Laboratory								
21		U18MCM1021	Water Quality Analysis Laboratory								
22		U18MCM1022	Metal Nanoparticles Synthesis Laboratory								
<i>Total Credits to be earned</i>										<b>18+2</b>	

Sd/-

Dr.K.Rajendra Prasad  
MOOCs Coordinator

Date: 17-07-2020

Sd/-

Dr.T.Madhukar Reddy  
Head of the Department

Dean, Academic Affairs