

INDIAN INSTITUTE OF TECHNOLOGY TIRUPATI**M.Sc. Curriculum: Chemistry****From the Academic Year 2020-21****Semester-I**

S.No.	Course Code	Course Name	L-T-P-C	Course Code (prior to Jul 2022)	Senate
1.	CY501L	Quantum Chemistry and Chemical Bonding	3 -0 -0 -3	CY5101	10
2.	CY502L	Transition Metals and Coordination Chemistry	3 -0 -0 -3	CY5103	10
3.	CY503L	Reactions and Reagents in Organic Chemistry	3 -0 -0 -3	CY5105	10
4.	CY504L	Thermodynamics and Chemical Kinetics	3 -0 -0 -3	CY5107	10
5.	CY505L	Main Group and Organometallic Chemistry	3 -0 -0 -3	CY5109	10
6.	CY506P	Organic Chemistry Laboratory	0 -0 -6 -4	CY5191	19
Total Credits			19		

Semester-II

S.No.	Course Code	Course Name	L-T-P-C	Course Code (prior to Jul 2022)	Senate
1.	CY507L	Principles of Spectroscopy	3 -0 -0 -3	CY5202	10
2.	CY508L	Stereochemistry and Organic Synthesis	3 -0 -0 -3	CY5204	10
3.	CY509L	Symmetry and Group Theory	3 -0 -0 -3	CY5206	11
4.	CY510L	Bioinorganic and Environmental Chemistry	3 -0 -0 -3	CY5208	10
5.	CY511M	Computer Programming and Numerical Methods in Chemistry	2 -0 -3 -4	CY5210	10
6.	CY512P	Inorganic Chemistry Laboratory	0 -0 -6 -4	CY5292	10
Total Credits			20		

Semester-III

S.No.	Course Code	Course Name	L-T-P-C	Course Code (prior to Jul 2022)	Senate
1.	CY601L	Electrochemistry and Chemistry of Solids	3 -0 -0 -3	CY6101	10
2.	CY602L	Applications of Spectroscopy in Inorganic and Organic Chemistry	3 -0 -0 -3	CY6103	10
3.	DPE1	Departmental Elective-1	3 -0 -0 -3		
4.	FRE1	Free Elective-1	3 -0 -0 -3		
5.	CY691G	Project Phase-I	- - -3	CY6150	
6.	CY603P	Physical Chemistry Laboratory	0 -0 -6 -4	CY6191	10
Total Credits			19		

Semester-IV

S.No.	Course Code	Course Name	L-T-P-C	Course Code (prior to Jul 2022)	Senate
1.	CY604L	Biomolecules and Chemical Biology	3 -0 -0 -3	CY6202	10
2.	DPE2	Departmental Elective-2	3 -0 -0 -3		
3.	FRE2	Free Elective-2	3 -0 -0 -3		
4.	CY692G	Project Phase-II	- - - 9	CY6250	9
Total Credits			18		

Total Credits: 76