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DEPARTMENT OF PHYSICAL SCIENCES

MINOR IN CHEMISTRY (MCY) - MINOR CURRICULUM

EQUIVALENT MOOCs – ODD SEMESTER, JULY-DEC 2026, AY 2026-27

No. /HMP/B.Tech./ PS/KITS/2026 **Date: 24.07.2026**

S. No	MINOR curriculum course Identified by the Dept	Equivalent SWAYAM - MOOC course	ONLINE COURSE LINK	Duration	Credits
Core courses (any 2 to 3 courses)					
1.	**U24MCY3001** Chemistry and Biochemistry	Metals In Biology	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cy42	8 weeks	02
2.	**U24MCY3002** Chemistry and Biochemistry	Mechanisms in Organic Chemistry	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cy43	8 weeks	02
3.	**U24MCY3003** Chemistry	Quantum Mechanics and Molecular Spectroscopy	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cy44	8 weeks	02
4.	**U24MCY3004** Chemistry	Introductory Organic Chemistry II	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cy45	8 weeks	02
5.	**U24MCY3005** Chemistry	Chemistry and Physics of Surfaces and Interfaces	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cy46	8 weeks	02
6.	**U24MCY3006** Chemistry	Introduction to Polymer Science	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cy47	8 weeks	02
Elective courses (any 2 to 4 courses)					
7.	**U24MCY3007** Chemistry	Application of Spectroscopic Methods In Molecular Structure Determination	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cy48	8 weeks	02

8.	**U24MCY3008** Chemistry and Biochemistry	One and Two Dimensional NMR Spectroscopy for Chemists	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cy49	12 weeks	03
9.	**U24MCY3009** Chemistry and Biochemistry	Time Dependent Quantum Chemistry	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cy50	12 weeks	03
10.	**U24MCY3010** Chemistry and Biochemistry	Ultrafast Optics and Spectroscopy	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cy51	12 weeks	03
11.	**U24MCY3011** Chemistry and Biochemistry	Advanced Transition Metal Chemistry	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cy52	12 weeks	03
12.	**U24MCY3012** Chemistry and Biochemistry	Transition Metal Organometallic Chemistry: Principles to Applications	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cy53	12 weeks	03
13.	**U24MCY3013** Chemistry	Symmetry and Group Theory	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cy54	12 weeks	03
14.	**U24MCY3014** Chemistry	Concepts of Chemistry for Engineering	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cy55	12 weeks	03
15.	**U24MCY3015 Chemistry**	Circular Dichroism (CD) and Mossbauer Spectroscopy for Chemists	https://www.google.com/url?q=https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cy56&sa=D&source=editors&ust=1784956732354960&usg=AOvVaw333m-7as4R7HrGgJYxublD	12 weeks	03
16.	**U24MCY3016 Chemistry**	Classics in Total Synthesis - I	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_ph57	12 weeks	03
17.	**U24MCY3017 Chemistry**	Basic Statistical Mechanics	https://www.google.com/url?q=https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cy58&sa=D&source=editors&ust=1784956732356233&usg=AOvVaw1E938uSu5LqcWZFAKnAHc4	12 weeks	03

18.	**U24MCY3018 Chemistry**	Fundamentals of Statistical Thermodynamics	https://www.google.com/url?q=https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cy59&sa=D&source=editors&ust=1784956732356809&usg=AOvVaw1qYN5Z-wrw5o2Cz0iRKuZe	12 weeks	03

Sd/-
Dr. E. Kalyan Rao
Dept. MOOCs Coordinator

Sd/-
Dr. H. Ramesh Babu
Head, Dept. of PS